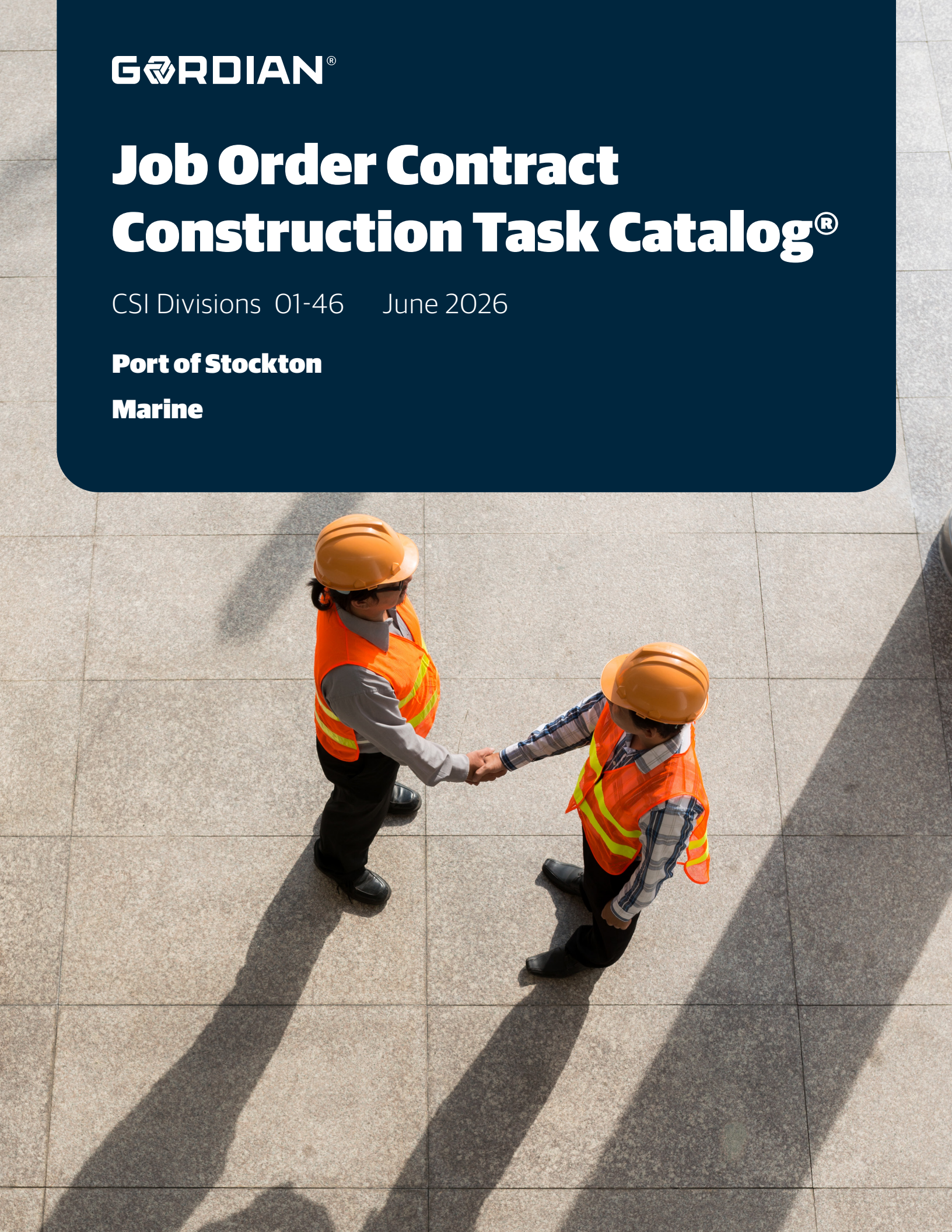
GORDIAN®

Job Order Contract Construction Task Catalog®

CSI Divisions 01-46 June 2026

Port of Stockton

Marine



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Table of Contents

00 Using The Construction Task Catalog® 1

01 General Requirements 1

01 10 Summary 1
01 11 Summary Of Work 1
01 20 Price and Payment Procedures 1
01 22 Unit Prices 1
01 30 Administrative Requirements 57
01 31 Project Management and Coordination 57
01 35 Special Procedures 58
01 40 Quality Requirements 58
01 41 Regulatory Requirements 58
01 42 References 58
01 45 Quality Control 58
01 50 Temporary Facilities and Controls 62
01 51 Temporary Utilities 62
01 52 Construction Facilities 63
01 53 Temporary Construction 64
01 54 Construction Aids 65
01 55 Vehicular Access and Parking 67
01 56 Temporary Barriers and Enclosures 74
01 57 Temporary Controls 85
01 58 Project Identification 85
01 60 Product Requirements 86
01 66 Product Storage and Handling Requirements 86
01 70 Execution and Closeout Requirements 87
01 71 Examination and Preparation 87
01 74 Cleaning and Waste Management 92
01 90 Life Cycle Activities 94
01 91 Commissioning 94

02 Existing Conditions 1

02 20 Assessment 1
02 25 Existing Material Assessment 1
02 30 Subsurface Investigation 1
02 32 Geotechnical Investigations 1
02 40 Demolition and Structure Moving 2
02 41 Demolition 2
02 42 Removal and Salvage of Construction Materials 20
02 43 Structure Moving 21
02 60 Contaminated Site Material Removal 21
02 61 Removal and Disposal of Contaminated Soils 21
02 62 Hazardous Waste Recovery Process 22
02 65 Underground Storage Tank Removal 24
02 66 Landfill Construction and Storage 27
02 80 Facility Remediation 32
02 81 Transportation and Disposal of Hazardous Materials 32
02 82 Asbestos Remediation 32
02 83 Lead Remediation 42
02 84 Polychlorinated Biphenyl Remediation 47
02 86 Hazardous Waste Drum Handling 47
02 87 Bio-Hazard Material Remediation 49
02 89 Hazmat Ancillary Tasks and Support 58
02 90 Disaster Recovery 58
02 90 10 Right of Way Clearing 58
02 90 20 Vegetation Removal and Maintenance 58
02 90 30 Management of Temporary Storage and Reduction Site(s) 59
02 90 50 Cleaning and Disaster Cleanup 59
02 90 55 Emergency Clean-up 63
02 90 60 Water Intrusion Elimination 70

03 Concrete 1

03 01 Maintenance of Concrete 1

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Table of Contents

03 01 30 Maintenance of Cast-In-Place Concrete 1
03 05 Common Work Results For Concrete 4
03 05 13 Concrete Admixtures 4
03 10 Concrete Forming and Accessories 4
03 11 Concrete Forming 4
03 15 Concrete Accessories 8
03 20 Concrete Reinforcing 19
03 21 Reinforcement Bars 19
03 22 Fabric and Grid Reinforcing 55
03 30 Cast-In-Place Concrete 56
03 30 53 Miscellaneous Cast-in-Place Concrete 56
03 31 Structural Concrete 57
03 35 Concrete Finishing 72
03 37 Specialty Placed Concrete 76
03 38 Post-Tensioned Concrete 77
03 39 Concrete Curing 78
03 40 Precast Concrete 78
03 41 Precast Structural Concrete 78
03 48 Precast Concrete Specialties 87
03 50 Cast Decks and Underlayment 90
03 51 Cast Roof Decks 90
03 53 Concrete Topping 91
03 54 Cast Underlayment 91
03 60 Grouting 91
03 61 Cementitious Grouting 91
03 62 Non-Shrink Grouting 92
03 63 Epoxy Grouting 92
03 64 Injection Grouting 92
03 65 Rail Grout 93
03 80 Concrete Cutting and Boring 93
03 81 Concrete Cutting 93
03 82 Concrete Boring 93

04 Masonry **1**

04 01 Maintenance of Masonry 1
04 01 20 Maintenance of Unit Masonry 1
04 01 50 Maintenance of Refractory Masonry 10
04 05 Common Work Results for Masonry 10
04 05 13 Masonry Mortaring 10
04 05 16 Masonry Grouting 11
04 05 19 Masonry Anchorage and Reinforcing 11
04 05 23 Masonry Accessories 37
04 20 Unit Masonry 39
04 21 Clay Unit Masonry 39
04 22 Concrete Unit Masonry 43
04 23 Glass Unit Masonry 47
04 40 Stone Assemblies 47
04 41 Dry-Placed Stone 47
04 42 Exterior Stone Cladding 48
04 43 Stone Masonry 48
04 50 Refractory Masonry 49
04 51 Flue Liner Masonry 49
04 70 Manufactured Masonry 50
04 72 Cast Stone Masonry 50

05 Metals **1**

05 01 Maintenance of Metals 1
05 01 50 Maintenance of Metal Fabrications 1
05 01 70 Maintenance of Decorative Metal 1
05 05 Common Work Results for Metals 1
05 05 19 Post-Installed Concrete Anchors 1
05 05 21 Fastening Methods for Metal 12
05 05 23 Metal Fastenings 14
05 10 Structural Metal Framing 78
05 12 Structural Steel Framing 78
05 13 Structural Stainless-Steel Framing 141
05 14 Structural Aluminum Framing 141

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05 15 Wire Rope Assemblies 142
05 20 Metal Joists 148
05 21 Steel Joist Framing 148
05 30 Metal Decking 148
05 31 Steel Decking 148
05 36 Composite Metal Decking 152
05 40 Cold-Formed Metal Framing 155
05 41 Structural Metal Stud Framing 155
05 42 Cold-Formed Metal Joist Framing 157
05 43 Slotted Channel Framing 157
05 44 Cold-Formed Metal Trusses 159
05 50 Metal Fabrications 161
05 51 Metal Stairs 161
05 52 Metal Railings 163
05 53 Metal Gratings 174
05 54 Metal Floor Plates 182
05 55 Metal Stair Treads and Nosings 182
05 56 Metal Castings 184
05 58 Formed Metal Fabrications 184
05 59 Metal Specialties 186

06 Wood, Plastics, and Composites **1**

06 01 Maintenance of Wood, Plastics, and Composites 1
06 01 10 Maintenance of Rough Carpentry 1
06 01 20 Maintenance of Finish Carpentry 1
06 05 Common Work Results for Wood, Plastics, and Composites 1
06 05 23 Wood, Plastic, and Composite Fastenings 1
06 05 73 Wood Treatment 24
06 10 Rough Carpentry 24
06 11 Wood Framing 24
06 13 Heavy Timber Construction 29
06 15 Wood Decking 31
06 16 Sheathing 36
06 17 Shop-Fabricated Structural Wood 42
06 18 Glued-Laminated Construction 48

07 Thermal And Moisture Protection **1**

07 05 Common Work Results for Thermal and Moisture Protection 1
07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work 1
07 10 Dampproofing and Waterproofing 1
07 11 Dampproofing 1
07 13 Sheet Waterproofing 1
07 14 Fluid-Applied Waterproofing 3
07 16 Cementitious and Reactive Waterproofing 3
07 17 Bentonite Waterproofing 3
07 18 Traffic Coatings 4
07 19 Water Repellents 5
07 25 Weather Barriers 5
07 26 Vapor Retarders 5
07 27 Air Barriers 6
07 60 Flashing and Sheet Metal 6
07 61 Sheet Metal Roofing 6
07 62 Sheet Metal Flashing and Trim 9
07 63 Sheet Metal Roofing Specialties 14
07 65 Flexible Flashing 15
07 70 Roof and Wall Specialties and Accessories 15
07 71 Roof Specialties 15
07 72 Roof Accessories 44
07 73 Roof Protection Board 98
07 76 Roof Pavers 100
07 80 Fire and Smoke Protection 101
07 81 Applied Fireproofing 101
07 84 Firestopping 102
07 86 Smoke Seals 110
07 90 Joint Protection 110
07 91 Preformed Joint Seals 110
07 92 Joint Sealants 113

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Table of Contents

07 95 Expansion Control 117

08 Openings 1

08 01 Operation and Maintenance of Openings 1
08 01 10 Operation and Maintenance of Doors and Frames 1
08 01 50 Operation and Maintenance of Windows 1
08 01 70 Operation and Maintenance of Hardware 1
08 01 80 Maintenance of Glazing 2

11 Equipment 1

11 01 Operation and Maintenance of Equipment 1
11 01 10 Operation and Maintenance of Vehicle and Pedestrian Equipment 1
11 10 Vehicle and Pedestrian Equipment 1
11 11 Vehicle Service Equipment 1
11 12 Parking Control Equipment 3
11 13 Loading Dock Equipment 4
11 14 Pedestrian Control Equipment 9
11 80 Facility Maintenance and Operation Equipment 11
11 81 Maintenance Equipment 11
11 82 Facility Solid Waste Handling Equipment 12
11 90 Other Equipment 14
11 97 Security Equipment 14

13 Special Construction 1

13 01 Operation and Maintenance of Special Construction 1
13 01 10 Operation and Maintenance of Special Facility Components 1
13 30 Special Structures 1
13 34 Fabricated Engineered Structures 1
13 40 Integrated Construction 22
13 42 Building Modules 22
13 46 Lightning Protection Systems 22
13 47 Facility Protection 24
13 48 Sound, Vibration, and Seismic Control 25
13 49 Radiation Protection 26

22 Plumbing 1

22 01 Operation and Maintenance of Plumbing 1
22 01 10 Operation and Maintenance of Plumbing Piping and Pumps 1
22 01 40 Operation and Maintenance of Plumbing Fixtures 2
22 05 Common Work Results for Plumbing 3
22 05 19 Meters and Gages for Plumbing Piping 3
22 05 23 General-Duty Valves for Plumbing Piping 3
22 05 76 Facility Drainage Piping Cleanouts 6
22 07 Plumbing Insulation 9
22 07 16 Plumbing Equipment Insulation 9
22 07 19 Plumbing Piping Insulation 9
22 08 Commissioning of Plumbing 40
22 10 Plumbing Piping 40
22 11 Facility Water Distribution 40
22 13 Facility Sanitary Sewerage 116
22 14 Facility Storm Drainage 190

26 Electrical 1

26 01 Operation and Maintenance of Electrical Systems 1
26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution 1
26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution 2
26 01 26 Maintenance Testing of Electrical Systems 2
26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment 3
26 01 50 Operation and Maintenance of Lighting 3
26 05 Common Work Results for Electrical 33
26 05 13 Medium-Voltage Cables 33
26 05 19 Low-Voltage Electrical Power Conductors and Cables 40
26 05 23 Control-Voltage Electrical Power Cables 61
26 05 26 Grounding and Bonding for Electrical Systems 61

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26 05 43 Underground Ducts and Raceways for Electrical Systems 66
26 05 46 Utility Poles for Electrical Systems 82
26 05 53 Identification for Electrical Systems 86
26 05 83 Wiring Connections 87

31 Earthwork **1**

31 01 Maintenance of Earthwork 1
31 01 20 Maintenance of Earth Moving 1
31 05 Common Work Results for Earthwork 1
31 05 13 Soils for Earthwork 1
31 05 16 Aggregates for Earthwork 2
31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization 5
31 08 Commissioning of Earthwork 5
31 08 13 Pile Load Testing 5
31 10 Site Clearing 5
31 11 Clearing and Grubbing 5
31 13 Selective Tree and Shrub Removal and Trimming 6
31 20 Earth Moving 9
31 22 Grading 9
31 23 Excavation and Fill 10
31 24 Embankments 17
31 25 Erosion and Sedimentation Controls 19
31 30 Earthwork Methods 23
31 31 Soil Treatment 23
31 32 Soil Stabilization 23
31 35 Slope Protection 33
31 36 Gabions 33
31 37 Riprap 33
31 40 Shoring and Underpinning 34
31 41 Shoring 34
31 43 Concrete Raising 35
31 45 Vibroflotation and Densification 35
31 48 Underpinning 35
31 50 Excavation Support and Protection 35
31 52 Cofferdams 35
31 60 Special Foundations and Load-bearing Elements 36
31 62 Driven Piles 36
31 63 Bored Piles 40
31 64 Caissons 41
31 66 Special Foundation 46
31 68 Foundation Anchors 46

32 Exterior Improvements **1**

32 01 Operation and Maintenance of Exterior Improvements 1
32 01 11 Paving Cleaning 1
32 01 13 Flexible Paving Surface Treatment 2
32 01 16 Flexible Paving Rehabilitation 3
32 01 17 Flexible Paving Repair 5
32 01 26 Rigid Paving Rehabilitation 7
32 01 29 Rigid Paving Repair 7
32 01 30 Operation and Maintenance of Site Improvements 8
32 01 90 Operation and Maintenance of Planting 8
32 05 Common Work Results for Exterior Improvements 12
32 05 33 Common Work Results for Planting 12
32 10 Bases, Ballasts, and Paving 12
32 11 Base Courses 12
32 12 Flexible Paving 14
32 13 Rigid Paving 21
32 14 Unit Paving 26
32 15 Aggregate Surfacing 29
32 16 Curbs, Gutters, Sidewalks, and Driveways 29
32 17 Paving Specialties 40
32 30 Site Improvements 58
32 32 Retaining Walls 58
32 35 Screening Devices 64
32 39 Manufactured Site Specialties 65

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Table of Contents

33 Utilities 1

33 01 Operation and Maintenance of Utilities 1
33 01 10 Operation and Maintenance of Water Utilities 1
33 01 20 Operation and Maintenance of Wells 5
33 01 30 Operation and Maintenance of Sewer Utilities 5
33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems 92
33 01 40 Operation and Maintenance of Stormwater Utilities 92
33 01 60 Operation and Maintenance of Hydronic and Steam Energy Utilities 93
33 01 70 Operation and Maintenance of Electrical Utilities 93
33 05 Common Work Results for Utilities 95
33 05 05 Buried Piping Installation 95
33 05 07 Trenchless Installation of Utility Piping 96
33 05 09 Piping Specials for Utilities 98
33 05 16 Cast-Iron Utility Pipe 98
33 05 17 Copper Utility Pipe and Tubing 98
33 05 19 Ductile-Iron Utility Pipe 98
33 05 24 Steel Utility Pipe 98
33 05 27 Corrugated Metal Utility Pipe 98
33 05 31 Thermoplastic Utility Pipe 98
33 05 33 Polyethylene Utility Pipe 99
33 05 39 Concrete Pipe 99
33 05 41 Vitrified Clay Utility Pipe 100
33 05 61 Concrete Manholes 100
33 05 63 Concrete Vaults and Chambers 101
33 05 81 Metallic Castings for Utility Structures 111
33 05 83 Non-Metallic Accessories for Utility Structures 111
33 05 84 Accessories for Utility Structures 112
33 05 97 Identification and Signage for Utilities 115
33 10 Water Utilities 116
33 11 Groundwater Sources 116
33 14 Water Utility Transmission and Distribution 124
33 19 Water Utility Metering Equipment 233
33 30 Sanitary Sewerage Utilities 234
33 31 Sanitary Sewerage Piping 234
33 32 Sanitary Sewerage Equipment 241
33 34 Onsite Wastewater Disposal 243
33 40 Stormwater Utilities 244
33 41 Subdrainage 244
33 42 Stormwater Conveyance 248
33 44 Storm Utility Water Drains 311
33 46 Stormwater Management 313
33 50 Hydrocarbon Utilities 315
33 52 Hydrocarbon Transmission and Distribution 315
33 53 Hydrocarbon Utility Pressure Regulation 317
33 59 Hydrocarbon Utility Metering 318
33 60 Hydronic and Steam Energy Utilities 318
33 61 Hydronic Energy Distribution 318
33 70 Electrical Utilities 339
33 71 Electrical Utility Transmission and Distribution 339

34 Transportation 1

34 01 Operation and Maintenance of Transportation 1
34 01 23 Operation and Maintenance of Railways 1
34 01 43 Operation and Maintenance of Bridges 1
34 05 Common Work Results for Transportation 1
34 05 43 Common Work Results for Bridges 1
34 40 Transportation Signaling and Control Equipment 20
34 41 Roadway Signaling and Control Equipment 20
34 70 Transportation Construction and Equipment 30
34 71 Roadway Construction 30
34 80 Bridges 38
34 82 Bridge Specialties 38

35 Waterway and Marine Construction 1

35 01 Operation and Maintenance of Waterway and Marine Construction 1
35 01 50 Operation And Maintenance of Marine Construction 1

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35 01 70 Operation and Maintenance of Dams 3
35 05 Common Work Results for Waterway and Marine Construction 3
35 05 70 Common Work Results for Dams 3
35 20 Waterway and Marine Construction and Equipment 3
35 22 Hydraulic Gates 4
35 24 Dredging 9
35 50 Marine Construction and Equipment 10
35 51 Floating Construction 10
35 52 Offshore Platform Construction 11
35 59 Marine Specialties 12

40 Process Interconnections 1

40 05 Common Work Results For Process Interconnections 1
40 05 19 Ductile Iron Process Pipe 1
40 05 23 Stainless Steel Process Pipe and Tubing 232
40 05 31 Thermoplastic Process Pipe 265
40 05 38 PTFE Process Pipe 271
40 05 41 Glass Process Pipe 273
40 05 63 Ball Valves 274
40 05 71 Solids Handling Valves 275
40 05 73 Special-Application Process Valves 275
40 20 Liquids Process Piping 276
40 23 Water and Wastewater Process Piping 276

41 Material Processing and Handling Equipment 1

41 01 Operation and Maintenance of Material Processing and Handling Equipment 1
41 01 20 Operation and Maintenance of Piece Material Handling Equipment 1
41 10 Bulk Material Processing Equipment 1
41 12 Bulk Material Conveying Equipment 1
41 20 Piece Material Handling Equipment 1
41 22 Cranes and Hoists 1

43 Process Gas and Liquid Handling, Purification, and Storage Equipment 1

43 10 Gas Handling Equipment 1
43 11 Gas Fans, Blowers, Pumps And Boosters 1
43 20 Liquid Handling Equipment 1
43 23 Dry Location Liquid Pumps 1
43 24 Suspended Liquid Pumps 3

44 Pollution and Waste Control Equipment 1

44 30 Odor Control 1
44 32 Odor Dispersing and Masking/Counteracting Equipment 1

46 Water And Wastewater Equipment 1

46 20 Water and Wastewater Preliminary Treatment Equipment 1
46 21 Screening Equipment 1
46 24 Grinding and Shredding Equipment 1
46 25 Oil and Grease Separation and Removal Equipment 1
46 25 47 Floating Scum Skimming and Removal Equipment 1
46 30 Water and Wastewater Chemical Feed Equipment 2
46 31 Gas Chemical Feed Equipment 2
46 33 Liquid Chemical Feed Equipment 2
46 40 Water and Wastewater Clarification and Mixing Equipment 3
46 41 Mixing Equipment 3
46 50 Water and Wastewater Secondary Treatment Equipment 4
46 51 Air and Gas Diffusion Equipment 4
46 60 Water and Wastewater Advanced Treatment Equipment 5
46 61 Filtration Equipment 5
46 80 Water Treatment Equipment 6
46 82 General Water Treatment Equipment 6
46 86 Sludge Treatment and Handling Equipment for Water Treatment Systems 184

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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **Port of Stockton**, priced locally using current labor, material and equipment costs, and published in June 2026.
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MasterFormat™

- ☑ The Tasks in this CTC are organized using CSI's *MasterFormat*.

CSI Building Knowledge Improving Project Delivery

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The Unit Prices Include:

Labor Costs:

- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security, Medicare taxes, worker's compensation, unemployment insurance, and employee benefits.
- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the Task; disposal of excess material; and time for lunch and breaks.

Equipment Costs:

- ☑ Equipment costs include all equipment required to accomplish the Task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

Material Costs:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Material costs for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.

The Adjustment Factors Include:

The Adjustment Factors include the following costs, unless specifically excluded by the terms of the Contract Documents:

Business Costs:

- ☑ Office overhead, including, but not limited to, office space, office equipment, office and management personnel, office supplies, and employee transportation.
- ☑ Insurance and bonding.
- ☑ Profit.

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- ☑ Job Order development services, Owner meetings, and other administrative services required by the Contract Documents.
- ☑ Subcontractor's overhead and profit.
- ☑ Cost of financing the work.
- ☑ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

Project Related Costs:

- ☑ Project trailer, equipment and supplies, portable toilets, and hand wash stations for Contractor's use.
- ☑ Project management and project supervision.
- ☑ Services required to complete project filings and obtain permits.
- ☑ Preparation and modification of sketches, drawings, submittals, as-built drawings, project photographs and other project records.
- ☑ Incidental engineering and architectural services.
- ☑ Gang boxes and storage containers for Contractor's tools, equipment and materials.
- ☑ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☑ Meeting Owner's security requirements.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, furnishings fastened to the wall or floor, safes and other furniture requiring disassembly).
- ☑ Sealing windows, doors and other openings with plastic to contain construction dust and debris within the work area, or to protect existing surfaces.
- ☑ Working in extreme temperatures (below or above normal) or adverse conditions such as rain, wind, sleet or snow.
- ☑ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☑ Daily clean-up.
- ☑ Final professional clean-up.

Price Variations:

- ☑ Contractors may experience direct costs that are different than the unit prices set forth in the CTC. While diligent effort was made to provide accurate, unit prices, it is the Contractor's responsibility to review and analyze the unit prices, and to calculate, prior to bidding, the Adjustment Factors accordingly.
- ☑ Contractors may experience differences in decimal rounding on unit prices that may vary from unit prices set forth in the CTC.

Summary:

- ☑ This list is not exhaustive and is intended to provide general examples of costs to be included in the Contractor's Adjustment Factors.
- ☑ The only compensation to be paid to the Contractor for Tasks will be:

Unit Price X Quantity X Adjustment Factor

- ☑ No additional payments of any kind whatsoever will be made.
- ☑ All costs in excess of the unit prices, must be included in the Adjustment Factors.

General Rules:

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the Task as described in the CTC.
- ☑ All labor, material, equipment, spare parts, and documents required by a Technical Specification

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shall be considered included in the unit price, unless the Task description states otherwise.

- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 stories, the Contractor will be paid for such crane or lifting equipment as a separate Task.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or for relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the Task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, roof flashing, pitch pockets, skylights, roof curbs, exterior trim, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibrating, balancing, start-up services and the like required to ensure proper installation, construction and performance of the work (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing of water lines, etc.). Contractor may be paid for testing, calibrating, balancing, start-up services and the like for Owner supplied materials and equipment, or when working on or tying into existing materials and equipment.
- ☑ For the purpose of calculating the quantity of a Task, quantities are calculated on a per project basis. The quantity so determined shall be used for the Task and all appropriate modifiers, unless the Task states otherwise.
- ☑ Whenever there are alternative Tasks that may be selected to complete work, the Contractor shall select the most practical and economical Tasks available (e.g. rental of equipment by weeks or months rather than days, or painting by roller or spray rather than brush).

Demolition:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an Owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a separate demolition Task, unless the component must be demolished separately to accomplish the work (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the work; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).
- ☑ The word "replace" includes removal of the existing item and installation of the new item.
- ☑ The words "remove and relocate" or "remove and reinstall" include removal, cleaning, and installation of the existing item in either the same location or another location.
- ☑ Salvageable materials are the property of the Owner and shall, if directed, be turned over to the Owner.

Working Height:

- ☑ Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- ☑ Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

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Field Engineering:

☑ Surveying Tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical control points. If the Owner provides horizontal and vertical control points within or adjacent to the project site, all other surveying required to complete the work shall be considered construction staking or layout, and the cost thereof is included in the appropriate Tasks.

Assemblies:

☑ Assembly Tasks take precedence over individual component Tasks.

Restricted and Confined Spaces:

☑ Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories Tasks and for certain electrical conduit and conduit accessories Tasks. Only those Tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated Tasks. A Non-Prepriced Task will not be allowed because of Restricted Working Space for any Task.

☑ The Code of Federal Regulations (29 CFR part 1926, Subpart AA) define confined spaces and permit-required confined spaces for construction and set forth requirements, procedures and safety precautions for working in such spaces. If the Contractor must work in a confined space or a permit-required confined space and must provide ventilation equipment, air monitoring equipment and services, entry attendants, entry supervisors, site-specific training for workers, or other equipment and services required by the regulations, then the Contractor shall be paid for such equipment, services and training. Those costs shall not be included in the Adjustment Factors.

Or Equals:

☑ Whenever material, products, or equipment is identified in the CTC, or in the Technical Specifications, by reference to a manufacturer's name, make or model number, the identification is intended to establish a standard. Any material, product, or equipment of another manufacturer may be considered an or-equal provided that, in the opinion of the Owner, the material, product, or equipment so proposed is of equal quality, substance and function to the named item. The Contractor shall not install any proposed material, product, or equipment without the prior written approval of the Owner. The burden of proof, and all costs related thereto, concerning whether the proposed material, product, or equipment is an or-equal, shall be borne by the Contractor.

Useful Information:

Unit of Measure Definitions:

ACR – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot or Gross Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HDAY – Half Day, HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** - Loose

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(Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT –** Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLF** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

Material Weights:

Earthen Material

☑ The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

	Material Weight (Lbs Per CY)		
Material	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170
Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

Bulk Factors for Demolition:

☑ The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

Conversions:

1 Acre = 43,560 Square Feet = 4046.8 Square Meters

1 Board Foot = 12” x 12” x 1” = 144 Cubic Inches

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

1 Square Foot = 144 Square Inches = .0929 Square Meters

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

2026

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1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

Sheet Metal Thickness (inches)				
Gage No.	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

Standard Geometry:

Circle

- Circumference = 2 π radius = π diameter
- Area = π radius^2 = π (diameter^2 / 4)

Cylinder

- Volume = (π radius^2) height
- Surface Area = 2 π radius^2+(2 π radius) height

Sphere

- Volume = (4 π radius^3) / 3
- Surface Area = 4 π radius^2

π = 3.14159

United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 General Requirements

01 10 Summary *(01)*

01 11 Summary Of Work *(01 10)*

01 11 13 Work Covered by Contract Documents *(01 11)*

Note: For specification publishing. Review specifications for requirements.

01 11 13 00-0001 NTE Work Covered by Contract Documents 0.00
Note: For specification publishing. Review specifications for requirements.

01 11 19 Purchase Contracts *(01 11)*

01 11 19 00-0001 Purchase Contracts *(01 11 19)*
Note: Vendor supplied materials which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 11 19 00-0002 EA GSA Schedule Purchases - Contractor Multiplier May Apply 1.00
Note: Purchases made by the contractor using the GSA Schedule will be reimbursed to the Contractor at the actual cost of the purchase. The base cost of the purchase is $1.00, quantity will adjust cost to actual purchase cost, i.e.; quantity of 125 = $125.00 purchase. If there are multiple purchases, list each one separately and add a comment in the "note" block to identify the Purchase Contracts. Insert the appropriate quantity to adjust the base cost to the actual Purchase Contracts. The Adjustment Factor should be 1.00. A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal. Excludes labor and equipment costs for installation.

01 20 Price and Payment Procedures *(01)*

01 22 Unit Prices *(01 20)*

01 22 16 Unit Price Payment *(01 22)*

01 22 16 00-0001 Reimbursable Fees *(01 22 16)*
Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0002 EA Reimbursable Fees 1.00
Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal.

01 22 16 00-0003 Negotiated Travel Costs *(01 22 16)*
Note: To be used only at the request of authorized personal for non-commuting travel costs.

01 22 16 00-0004 EA Negotiated Travel Costs 1.00
Note: Supporting documentation must be included with each Work Order.

01 22 20 Wage Rates *(01 22)*

01 22 20 00-0001 Local Labor/Wage Rates *(01 22 20)*
Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

01 22 20 00-0002 HR Asbestos Removal Worker 99.89
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.
For Foreperson, Add *4.99*
For Apprentice, Deduct *-19.98*

01 22 20 00-0003 HR Insulator 135.32
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.
For Foreperson, Add *6.77*
For Apprentice, Deduct *-27.06*

01 22 20 00-0004 HR Boilermaker 123.46
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.
For Foreperson, Add *6.17*
For Apprentice, Deduct *-24.69*

01 22 20 00-0005 HR Brick Layer 112.53
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.
For Foreperson, Add *5.63*
For Apprentice, Deduct *-22.51*

01 22 20 00-0006 HR Carpenter 141.57
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.
For Foreperson, Add *7.08*
For Apprentice, Deduct *-28.31*

01 22 20 00-0007 HR Carpenter, Bridge Builder 157.80
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.
For Foreperson, Add *7.89*
For Apprentice, Deduct *-31.56*

01 22 20 00-0008 HR Carpet, Linoleum 114.84
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.
For Foreperson, Add *5.74*
For Apprentice, Deduct *-22.97*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0009	HR	Cement Mason	105.27	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.26*	
		For Apprentice, Deduct	*-21.05*	
01 22 20 00-0010	HR	Drywall Finisher	129.58	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.48*	
		For Apprentice, Deduct	*-25.92*	
01 22 20 00-0011	HR	Electrician, Inside Wireman	112.03	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.60*	
		For Apprentice, Deduct	*-22.41*	
01 22 20 00-0012	HR	Electrician, Cable Splicer	127.13	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.36*	
		For Apprentice, Deduct	*-25.43*	
01 22 20 00-0013	HR	High Voltage Electrician, Utility Lineman	144.29	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0014	HR	Communication And System Technician	107.30	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0015	HR	Electrical Apprentice (Or Line Helper)	104.94	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0016	HR	Equipment Operator, Crane, Group 1-A	136.52	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0017	HR	Equipment Operator, Crane, Group 2-A	134.05	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.70*	
01 22 20 00-0018	HR	Equipment Operator, Crane, Group 3-A	131.66	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0019	HR	Equipment Operator, Medium, Group 3	131.12	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.56*	
		For Apprentice, Deduct	*-26.22*	
01 22 20 00-0020	HR	Equipment Operator, Medium, Group 4	129.18	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0021	HR	Equipment Operator, Medium, Group 5	127.42	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022	HR	Equipment Operator, Light, Group 6	125.56	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.28*	
		For Apprentice, Deduct	*-25.11*	
01 22 20 00-0023	HR	Equipment Operator, Light, Group 7	123.98	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0024	HR	Equipment Operator, Light, Group 8	122.40	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0025	HR	Glazier	111.90	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.60*	
		For Apprentice, Deduct	*-22.38*	
01 22 20 00-0026	HR	Laborer	95.29	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*4.76*	
		For Apprentice, Deduct	*-19.06*	
01 22 20 00-0027	HR	Lather	133.52	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.68*	
		For Apprentice, Deduct	*-26.70*	
01 22 20 00-0028	HR	Marble Setter	132.03	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.60*	
		For Apprentice, Deduct	*-26.41*	
01 22 20 00-0029	HR	Millwright	137.51	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.88*	
		For Apprentice, Deduct	*-27.50*	
01 22 20 00-0030	HR	Mold Removal Worker	99.51	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*4.98*	
		For Apprentice, Deduct	*-19.90*	
01 22 20 00-0031	HR	Painter, Ordinary	93.66	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*4.68*	
		For Apprentice, Deduct	*-18.73*	
01 22 20 00-0032	HR	Painter, Structural Steel	101.35	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.07*	
		For Apprentice, Deduct	*-20.27*	
01 22 20 00-0033	HR	Paperhanger	93.66	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*4.68*	
		For Apprentice, Deduct	*-18.73*	
01 22 20 00-0034	HR	Pile Drivers	151.42	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*7.57*	
		For Apprentice, Deduct	*-30.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0035	HR	Plasterer	126.75	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.34*	
		For Apprentice, Deduct	*-25.35*	
01 22 20 00-0036	HR	Plumber	128.55	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.43*	
		For Apprentice, Deduct	*-25.71*	
01 22 20 00-0037	HR	Powderman	99.89	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*4.99*	
		For Apprentice, Deduct	*-19.98*	
01 22 20 00-0038	HR	Rodman (Reinforcing)/Ornamental Steel Worker	115.12	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.76*	
		For Apprentice, Deduct	*-23.02*	
01 22 20 00-0039	HR	Roofer, Composite	136.82	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.84*	
		For Apprentice, Deduct	*-27.36*	
01 22 20 00-0040	HR	Roofer, Metal	152.46	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*7.62*	
		For Apprentice, Deduct	*-30.49*	
01 22 20 00-0041	HR	Roofer, Tile/Slate	132.64	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.63*	
		For Apprentice, Deduct	*-26.53*	
01 22 20 00-0042	HR	Sheet Metal Worker	131.87	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.59*	
		For Apprentice, Deduct	*-26.37*	
01 22 20 00-0043	HR	Sprinkler Installer	104.42	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.22*	
		For Apprentice, Deduct	*-20.88*	
01 22 20 00-0044	HR	Steam / Pipe Fitter	128.55	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.43*	
		For Apprentice, Deduct	*-25.71*	
01 22 20 00-0045	HR	Stone Mason	112.53	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.63*	
		For Apprentice, Deduct	*-22.51*	
01 22 20 00-0046	HR	Iron Worker, Structural	118.56	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.93*	
		For Apprentice, Deduct	*-23.71*	
01 22 20 00-0047	HR	Tile Layer	108.42	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.42*	
		For Apprentice, Deduct	*-21.68*	
01 22 20 00-0048	HR	Terrazzo Worker	123.99	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*6.20*	
		For Apprentice, Deduct	*-24.80*	
01 22 20 00-0049	HR	Truck Driver, Light, Group 1	99.89	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*4.99*	
		For Apprentice, Deduct	*-19.98*	
01 22 20 00-0050	HR	Truck Driver, Medium, Group 2	100.34	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0051	HR	Truck Driver, Heavy, Group 3	100.79	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.04*	
		For Apprentice, Deduct	*-20.16*	
01 22 20 00-0052	HR	Truck Driver, Heavy, Group 4	101.31	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0053	HR	Welder	118.56	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreperson, Add	*5.93*	
		For Apprentice, Deduct	*-23.71*	
01 22 20 00-0054	HR	D1 Certified Welder	138.11	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0055	HR	Class I Diver	245.01	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0056	HR	Class III Diver Tender	171.14	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0057	HR	Lighting Maintenance Worker	112.03	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		

01 22 20 00-0058 Rates For Services *(01 22 20)*

01 22 20 00-0059	HR	Watch/Guard Person, Unarmed	35.33	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0060	HR	Watch/Guard Person, Armed Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	45.55	
01 22 20 00-0061	HR	Senior Surveyor, Party Chief Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	140.87	
01 22 20 00-0062	HR	Surveyor, Instrument Person Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	126.02	
01 22 20 00-0063	HR	Investigating Engineer Or Specialty Consultant Note: For special investigating requirements or services outside required architectural and engineering services.	137.00	
01 22 20 00-0064	HR	Investigating Senior Engineer Or Specialty Consultant Note: For special investigating requirements or services outside required architectural and engineering services.	174.12	
01 22 20 00-0065	HR	Surveyor, Rod Person Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	123.88	
01 22 20 00-0066	HR	On-Site Certified Materials Testing Technician Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	97.05	
01 22 20 00-0067	HR	Certified Industrial Hygienist Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	130.82	
01 22 20 00-0068	HR	Underground Utility Surveyor	137.00	
01 22 20 00-0069	MI	Mileage For Professional Services (Engineering, Surveying, etc.) Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.	0.72	
01 22 20 00-0070	DAY	Gas Detection Service To Monitor The Project Site For The Presence Of Gas Note: Includes equipment, project manager, notices and reports.	947.43	
01 22 20 00-0071	HR	System Testing Engineer	90.00	
01 22 20 00-0072	HR	Manufacturer Technical Advisor Note: For oversight of installation of special manufactured equipment. Advisor to be requested by and cost to be approved by Owner only.	100.00	
01 22 20 00-0073	HR	Fire Watch Laborer Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.	95.29	

01 22 20 00-0074 Rates For Project Management Services *(01 22 20)*

Note: Includes subcontracted rates with burden and mark-up

01 22 20 00-0075	HR	Project Manager Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	160.00	

01 22 20 00-0076 Rates For Architectural And Engineering Services *(01 22 20)*

Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services. Includes subcontracted rates with burden and mark-up

01 22 20 00-0077	HR	Principal Architect Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	243.12	
01 22 20 00-0078	HR	Senior Architect Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	179.38	
01 22 20 00-0079	HR	Architect Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	140.62	
01 22 20 00-0080	HR	Principal Engineer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	210.00	
01 22 20 00-0081	HR	Senior Engineer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	174.12	
01 22 20 00-0082	HR	Engineer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	137.00	
01 22 20 00-0083	HR	Draft Person Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	71.88	

01 22 20 00-0084 Rates For Traffic Control *(01 22 20)*

01 22 20 00-0085	HR	Highway Patrol Officer With Car	50.55	
		For Each Mile, Add	*0.72*	
01 22 20 00-0086	DAY	Pilot Vehicle With Driver Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.	1,168.16	
01 22 20 00-0087	HR	Flagperson For Traffic Control	95.29	

01 22 20 00-0088 Traffic Control *(01 22 20)*

01 22 20 00-0089	DAY	Traffic Control System Note: Includes 1 truck, 1 arrow board, 1 licensed traffic control person, traffic cones.	2,081.00	
01 22 20 00-0090	EA	Traffic Control Drawings Note: Includes engineered stamped drawings as required by governing agency.	1,287.66	

01 22 20 00-0091 Transport And Escort Vehicles *(01 22 20)*

01 22 20 00-0092	HR	Escort Vehicle With Driver	108.10	
01 22 20 00-0093	HR	Transport Vehicle With Driver	153.90	

01 22 23 Equipment Usage *(01 22)*

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. Excludes mobilization unless otherwise stated. See CSI section 01 22 20 00-0084 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.

01 22 23 00-0001 **Aerial Equipment** *(01 22 23)*

01 22 23 00-0002 **Man Lifts** *(01 22 23 00-0001)*
Note: Excludes operator, delivery, set-up, and removal.

01 22 23 00-0003 **Telescoping Boom Man Lifts With Platform** *(01 22 23 00-0002)*

01 22 23 00-0004 **Engine Powered, Telescoping Boom Man Lifts With Platform** *(01 22 23 00-0003)*
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.

01 22 23 00-0005	DAY	40' Engine Powered, Telescoping Boom Man Lift With Platform		430.56	
		For Four-Wheel Drive, Add		*96.88*	
		For Half Day Usage, Deduct		*-134.55*	
01 22 23 00-0006	WK	40' Engine Powered, Telescoping Boom Man Lift With Platform		1,083.34	
		For Four-Wheel Drive, Add		*243.75*	
01 22 23 00-0007	MO	40' Engine Powered, Telescoping Boom Man Lift With Platform		2,430.58	
		For Four-Wheel Drive, Add		*546.88*	
		For >6 Months (>26 Weeks), Deduct		*-97.22*	
01 22 23 00-0008	DAY	60' Engine Powered, Telescoping Boom Man Lift With Platform		631.95	
		For Four-Wheel Drive, Add		*142.19*	
		For Half Day Usage, Deduct		*-197.48*	
01 22 23 00-0009	WK	60' Engine Powered, Telescoping Boom Man Lift With Platform		1,506.96	
		For Four-Wheel Drive, Add		*339.07*	
01 22 23 00-0010	MO	60' Engine Powered, Telescoping Boom Man Lift With Platform		3,298.64	
		For Four-Wheel Drive, Add		*742.19*	
		For >6 Months (>26 Weeks), Deduct		*-131.95*	
01 22 23 00-0011	DAY	80' Engine Powered, Telescoping Boom Man Lift With Platform		1,229.18	
		For Four-Wheel Drive, Add		*276.57*	
		For Half Day Usage, Deduct		*-384.12*	
01 22 23 00-0012	WK	80' Engine Powered, Telescoping Boom Man Lift With Platform		2,979.19	
		For Four-Wheel Drive, Add		*670.32*	
01 22 23 00-0013	MO	80' Engine Powered, Telescoping Boom Man Lift With Platform		6,250.05	
		For Four-Wheel Drive, Add		*1,406.26*	
		For >6 Months (>26 Weeks), Deduct		*-250.00*	
01 22 23 00-0014	DAY	110' Engine Powered, Telescoping Boom Man Lift With Platform		1,750.01	
		For Four-Wheel Drive, Add		*393.75*	
		For Half Day Usage, Deduct		*-546.88*	
01 22 23 00-0015	WK	110' Engine Powered, Telescoping Boom Man Lift With Platform		4,213.92	
		For Four-Wheel Drive, Add		*948.13*	
01 22 23 00-0016	MO	110' Engine Powered, Telescoping Boom Man Lift With Platform		10,500.08	
		For Four-Wheel Drive, Add		*2,362.52*	
		For >6 Months (>26 Weeks), Deduct		*-420.00*	
01 22 23 00-0017	DAY	120' Engine Powered, Telescoping Boom Man Lift With Platform		2,131.96	
		For Four-Wheel Drive, Add		*479.69*	
		For Half Day Usage, Deduct		*-666.24*	
01 22 23 00-0018	WK	120' Engine Powered, Telescoping Boom Man Lift With Platform		5,437.54	
		For Four-Wheel Drive, Add		*1,223.45*	
01 22 23 00-0019	MO	120' Engine Powered, Telescoping Boom Man Lift With Platform		12,361.21	
		For Four-Wheel Drive, Add		*2,781.27*	
		For >6 Months (>26 Weeks), Deduct		*-494.45*	

01 22 23 00-0020 **Articulating (Up/Over) Boom Man Lifts With Platform** *(01 22 23 00-0002)*

01 22 23 00-0021 **Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform** *(01 22 23 00-0020)*
Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.

01 22 23 00-0022	DAY	34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		403.26	
		For Half Day Usage, Deduct		*-126.02*	
01 22 23 00-0023	WK	34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		1,011.82	
01 22 23 00-0024	MO	34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		2,434.22	
		For >6 Months (>26 Weeks), Deduct		*-97.37*	
01 22 23 00-0025	DAY	45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		513.24	
		For Half Day Usage, Deduct		*-160.39*	
01 22 23 00-0026	WK	45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		1,121.80	
01 22 23 00-0027	MO	45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		2,784.69	
		For >6 Months (>26 Weeks), Deduct		*-111.39*	
01 22 23 00-0028	DAY	60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		659.88	
		For Half Day Usage, Deduct		*-206.21*	
01 22 23 00-0029	WK	60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		1,525.06	
01 22 23 00-0030	MO	60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		3,409.38	
		For >6 Months (>26 Weeks), Deduct		*-136.38*	
01 22 23 00-0031	DAY	80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		1,151.12	
		For Half Day Usage, Deduct		*-359.73*	
01 22 23 00-0032	WK	80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		2,712.84	
01 22 23 00-0033	MO	80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		6,597.33	
		For >6 Months (>26 Weeks), Deduct		*-263.89*	
01 22 23 00-0034	DAY	125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		2,236.26	
		For Half Day Usage, Deduct		*-698.83*	
01 22 23 00-0035	WK	125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		5,279.04	
01 22 23 00-0036	MO	125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform		12,904.32	
		For >6 Months (>26 Weeks), Deduct		*-516.17*	

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0037		Electric, Articulating (Up/Over) Boom Man Lifts With Platform *(01 22 23 00-0020)*		
		Note: For use on paved surfaces.		
01 22 23 00-0038	DAY	30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	403.26	
		For Half Day Usage, Deduct	*-126.02*	
01 22 23 00-0039	WK	30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,011.82	
01 22 23 00-0040	MO	30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,434.22	
		For >6 Months (>26 Weeks), Deduct	*-97.37*	
01 22 23 00-0041	DAY	35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	403.26	
		For Half Day Usage, Deduct	*-126.02*	
01 22 23 00-0042	WK	35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,011.82	
01 22 23 00-0043	MO	35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,434.22	
		For >6 Months (>26 Weeks), Deduct	*-97.37*	
01 22 23 00-0044	DAY	40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	498.58	
		For Half Day Usage, Deduct	*-155.81*	
01 22 23 00-0045	WK	40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,077.80	
01 22 23 00-0046	MO	40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,676.18	
		For >6 Months (>26 Weeks), Deduct	*-107.05*	
01 22 23 00-0047	DAY	45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	498.58	
		For Half Day Usage, Deduct	*-155.81*	
01 22 23 00-0048	WK	45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,077.80	
01 22 23 00-0049	MO	45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,676.18	
		For >6 Months (>26 Weeks), Deduct	*-107.05*	
01 22 23 00-0050		Platform Lifts *(01 22 23 00-0001)*		
		Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0051		Electric, Scissor Platform Lifts *(01 22 23 00-0050)*		
		Note: For use on paved surfaces.		
01 22 23 00-0052	DAY	17' Electric, Scissor Platform Lift	174.24	
		For Half Day Usage, Deduct	*-54.45*	
01 22 23 00-0053	WK	17' Electric, Scissor Platform Lift	348.48	
01 22 23 00-0054	MO	17' Electric, Scissor Platform Lift	712.80	
		For >6 Months (>26 Weeks), Deduct	*-28.51*	
01 22 23 00-0055	DAY	20' Electric, Scissor Platform Lift	190.08	
		For Half Day Usage, Deduct	*-59.40*	
01 22 23 00-0056	WK	20' Electric, Scissor Platform Lift	380.16	
01 22 23 00-0057	MO	20' Electric, Scissor Platform Lift	760.32	
		For >6 Months (>26 Weeks), Deduct	*-30.41*	
01 22 23 00-0058	DAY	25' Electric, Scissor Platform Lift	245.52	
		For Half Day Usage, Deduct	*-76.73*	
01 22 23 00-0059	WK	25' Electric, Scissor Platform Lift	491.04	
01 22 23 00-0060	MO	25' Electric, Scissor Platform Lift	1,053.36	
		For >6 Months (>26 Weeks), Deduct	*-42.13*	
01 22 23 00-0061	DAY	30' Electric, Scissor Platform Lift	316.80	
		For Half Day Usage, Deduct	*-99.00*	
01 22 23 00-0062	WK	30' Electric, Scissor Platform Lift	625.68	
01 22 23 00-0063	MO	30' Electric, Scissor Platform Lift	1,386.00	
		For >6 Months (>26 Weeks), Deduct	*-55.44*	
01 22 23 00-0064	DAY	33' Electric, Scissor Platform Lift	340.56	
		For Half Day Usage, Deduct	*-106.43*	
01 22 23 00-0065	WK	33' Electric, Scissor Platform Lift	665.28	
01 22 23 00-0066	MO	33' Electric, Scissor Platform Lift	1,504.80	
		For >6 Months (>26 Weeks), Deduct	*-60.19*	
01 22 23 00-0067	DAY	40' Electric, Scissor Platform Lift	443.52	
		For Half Day Usage, Deduct	*-138.60*	
01 22 23 00-0068	WK	40' Electric, Scissor Platform Lift	1,100.88	
01 22 23 00-0069	MO	40' Electric, Scissor Platform Lift	3,065.04	
		For >6 Months (>26 Weeks), Deduct	*-122.60*	
01 22 23 00-0070		Engine Powered, Scissor Platform Lifts *(01 22 23 00-0050)*		
		Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071	DAY	25' Engine Powered, Scissor Platform Lift	472.43	
		For Four-Wheel Drive, Add	*94.49*	
		For Half Day Usage, Deduct	*-147.63*	
01 22 23 00-0072	WK	25' Engine Powered, Scissor Platform Lift	923.87	
		For Four-Wheel Drive, Add	*184.77*	
01 22 23 00-0073	MO	25' Engine Powered, Scissor Platform Lift	2,257.18	
		For Four-Wheel Drive, Add	*451.44*	
		For >6 Months (>26 Weeks), Deduct	*-90.29*	
01 22 23 00-0074	DAY	33' Engine Powered, Scissor Platform Lift	482.93	
		For Four-Wheel Drive, Add	*96.59*	
		For Half Day Usage, Deduct	*-150.92*	
01 22 23 00-0075	WK	33' Engine Powered, Scissor Platform Lift	1,102.34	
		For Four-Wheel Drive, Add	*220.47*	
01 22 23 00-0076	MO	33' Engine Powered, Scissor Platform Lift	2,414.66	
		For Four-Wheel Drive, Add	*482.93*	
		For >6 Months (>26 Weeks), Deduct	*-96.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0077	DAY	40' Engine Powered, Scissor Platform Lift	535.42	
		For Four-Wheel Drive, Add	*107.08*	
		For Half Day Usage, Deduct	*-167.32*	
01 22 23 00-0078	WK	40' Engine Powered, Scissor Platform Lift	1,228.32	
		For Four-Wheel Drive, Add	*245.66*	
01 22 23 00-0079	MO	40' Engine Powered, Scissor Platform Lift	2,729.61	
		For Four-Wheel Drive, Add	*545.92*	
		For >6 Months (>26 Weeks), Deduct	*-109.18*	
01 22 23 00-0080	DAY	43' Engine Powered, Scissor Platform Lift	566.92	
		For Four-Wheel Drive, Add	*113.38*	
		For Half Day Usage, Deduct	*-177.16*	
01 22 23 00-0081	WK	43' Engine Powered, Scissor Platform Lift	1,322.81	
		For Four-Wheel Drive, Add	*264.56*	
01 22 23 00-0082	MO	43' Engine Powered, Scissor Platform Lift	3,254.54	
		For Four-Wheel Drive, Add	*650.91*	
		For >6 Months (>26 Weeks), Deduct	*-130.18*	
01 22 23 00-0083	DAY	50' Engine Powered, Scissor Platform Lift	1,060.35	
		For Four-Wheel Drive, Add	*212.07*	
		For Half Day Usage, Deduct	*-331.36*	
01 22 23 00-0084	WK	50' Engine Powered, Scissor Platform Lift	2,330.67	
		For Four-Wheel Drive, Add	*466.13*	
01 22 23 00-0085	MO	50' Engine Powered, Scissor Platform Lift	5,732.18	
		For Four-Wheel Drive, Add	*1,146.44*	
		For >6 Months (>26 Weeks), Deduct	*-229.29*	

01 22 23 00-0086 Personnel Lifts *(01 22 23 00-0001)*

Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.

01 22 23 00-0087	DAY	24', Push-Type, Electric Single Man Personnel Lift	165.70	
		For Half Day Usage, Deduct	*-51.78*	
01 22 23 00-0088	WK	24', Push-Type, Electric Single Man Personnel Lift	469.48	
01 22 23 00-0089	MO	24', Push-Type, Electric Single Man Personnel Lift	948.17	
		For >6 Months (>26 Weeks), Deduct	*-37.93*	
01 22 23 00-0090	DAY	30', Push-Type, Electric Single Man Personnel Lift	230.14	
		For Half Day Usage, Deduct	*-71.92*	
01 22 23 00-0091	WK	30', Push-Type, Electric Single Man Personnel Lift	487.89	
01 22 23 00-0092	MO	30', Push-Type, Electric Single Man Personnel Lift	1,656.99	
		For >6 Months (>26 Weeks), Deduct	*-66.28*	
01 22 23 00-0093	DAY	36', Push-Type, Electric Single Man Personnel Lift	386.63	
		For Half Day Usage, Deduct	*-120.82*	
01 22 23 00-0094	WK	36', Push-Type, Electric Single Man Personnel Lift	938.96	
01 22 23 00-0095	MO	36', Push-Type, Electric Single Man Personnel Lift	2,743.24	
		For >6 Months (>26 Weeks), Deduct	*-109.73*	
01 22 23 00-0096	DAY	40', Push-Type, Electric Single Man Personnel Lift	414.25	
		For Half Day Usage, Deduct	*-129.45*	
01 22 23 00-0097	WK	40', Push-Type, Electric Single Man Personnel Lift	1,031.02	
01 22 23 00-0098	MO	40', Push-Type, Electric Single Man Personnel Lift	3,102.25	
		For >6 Months (>26 Weeks), Deduct	*-124.09*	
01 22 23 00-0099	DAY	15', Self-Propelled, Electric Single Man Personnel Lift	220.93	
		For Half Day Usage, Deduct	*-69.04*	
01 22 23 00-0100	WK	15', Self-Propelled, Electric Single Man Personnel Lift	441.86	
01 22 23 00-0101	MO	15', Self-Propelled, Electric Single Man Personnel Lift	883.73	
		For >6 Months (>26 Weeks), Deduct	*-35.35*	
01 22 23 00-0102	DAY	20', Self-Propelled, Electric Single Man Personnel Lift	220.93	
		For Half Day Usage, Deduct	*-69.04*	
01 22 23 00-0103	WK	20', Self-Propelled, Electric Single Man Personnel Lift	441.86	
01 22 23 00-0104	MO	20', Self-Propelled, Electric Single Man Personnel Lift	918.71	
		For >6 Months (>26 Weeks), Deduct	*-36.75*	

01 22 23 00-0105 Bucket Trucks *(01 22 23 00-0001)*

Note: Includes full-time operator, delivery, and removal.

01 22 23 00-0106	DAY	29' To 33' Bucket Truck With Full-Time Operator	1,416.00	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-593.69*	
01 22 23 00-0107	WK	29' To 33' Bucket Truck With Full-Time Operator	5,860.64	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-0108	MO	29' To 33' Bucket Truck With Full-Time Operator	22,126.06	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-186.23*	
01 22 23 00-0109	DAY	38' To 41' Bucket Truck With Full-Time Operator	1,493.59	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-617.93*	
01 22 23 00-0110	WK	38' To 41' Bucket Truck With Full-Time Operator	6,110.06	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-0111	MO	38' To 41' Bucket Truck With Full-Time Operator	22,791.16	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-212.83*	
01 22 23 00-0112	DAY	45' To 48' Bucket Truck With Full-Time Operator	1,693.12	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-680.29*	
01 22 23 00-0113	WK	45' To 48' Bucket Truck With Full-Time Operator	6,470.32	
		For Equipment Without Operator, Deduct	*-4,031.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0114	MO	45' To 48' Bucket Truck With Full-Time Operator	23,567.11	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-243.87*	
01 22 23 00-0115	DAY	62' Bucket Truck With Full-Time Operator	2,136.52	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-818.85*	
01 22 23 00-0116	WK	62' Bucket Truck With Full-Time Operator	7,911.37	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-0117	MO	62' Bucket Truck With Full-Time Operator	27,446.86	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-399.06*	
01 22 23 00-0118	DAY	85' Bucket Truck With Full-Time Operator	2,358.22	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-888.13*	
01 22 23 00-0119	WK	85' Bucket Truck With Full-Time Operator	8,687.32	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-0120	MO	85' Bucket Truck With Full-Time Operator	30,218.11	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-509.91*	
01 22 23 00-0121	Day	105' Bucket Truck With Full-Time Operator	2,469.07	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-922.77*	
01 22 23 00-0122	WK	105' Bucket Truck With Full-Time Operator	9,019.87	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-0123	MO	105' Bucket Truck With Full-Time Operator	30,484.15	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-520.55*	

01 22 23 00-0124 Air Equipment *(01 22 23)*

01 22 23 00-0125 Air Compressors *(01 22 23 00-0124)*

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-0126	DAY	100 CFM Diesel Powered Portable Air Compressor	170.20	
		For Half Day Usage, Deduct	*-53.19*	
01 22 23 00-0127	WK	100 CFM Diesel Powered Portable Air Compressor	510.62	
01 22 23 00-0128	MO	100 CFM Diesel Powered Portable Air Compressor	1,418.38	
		For >6 Months (>26 Weeks), Deduct	*-56.74*	
01 22 23 00-0129	DAY	130 CFM Diesel Powered Portable Air Compressor	204.25	
		For Half Day Usage, Deduct	*-63.83*	
01 22 23 00-0130	WK	130 CFM Diesel Powered Portable Air Compressor	601.39	
01 22 23 00-0131	MO	130 CFM Diesel Powered Portable Air Compressor	1,702.05	
		For >6 Months (>26 Weeks), Deduct	*-68.08*	
01 22 23 00-0132	DAY	185 CFM Diesel Powered Portable Air Compressor	272.33	
		For Half Day Usage, Deduct	*-85.10*	
01 22 23 00-0133	WK	185 CFM Diesel Powered Portable Air Compressor	612.74	
01 22 23 00-0134	MO	185 CFM Diesel Powered Portable Air Compressor	1,350.29	
		For >6 Months (>26 Weeks), Deduct	*-54.01*	
01 22 23 00-0135	DAY	375 CFM Diesel Powered Portable Air Compressor	385.80	
		For Half Day Usage, Deduct	*-120.56*	
01 22 23 00-0136	WK	375 CFM Diesel Powered Portable Air Compressor	975.84	
01 22 23 00-0137	MO	375 CFM Diesel Powered Portable Air Compressor	2,326.14	
		For >6 Months (>26 Weeks), Deduct	*-93.05*	
01 22 23 00-0138	DAY	600 CFM Diesel Powered Portable Air Compressor	857.83	
		For Half Day Usage, Deduct	*-268.07*	
01 22 23 00-0139	WK	600 CFM Diesel Powered Portable Air Compressor	2,065.15	
01 22 23 00-0140	MO	600 CFM Diesel Powered Portable Air Compressor	5,147.00	
		For >6 Months (>26 Weeks), Deduct	*-205.88*	
01 22 23 00-0141	DAY	750 CFM Diesel Powered Portable Air Compressor	1,032.58	
		For Half Day Usage, Deduct	*-322.68*	
01 22 23 00-0142	WK	750 CFM Diesel Powered Portable Air Compressor	2,541.73	
01 22 23 00-0143	MO	750 CFM Diesel Powered Portable Air Compressor	6,240.85	
		For >6 Months (>26 Weeks), Deduct	*-249.63*	
01 22 23 00-0144	DAY	825 CFM Diesel Powered Portable Air Compressor	1,032.58	
		For Half Day Usage, Deduct	*-322.68*	
01 22 23 00-0145	WK	825 CFM Diesel Powered Portable Air Compressor	2,541.73	
01 22 23 00-0146	MO	825 CFM Diesel Powered Portable Air Compressor	6,240.85	
		For >6 Months (>26 Weeks), Deduct	*-249.63*	
01 22 23 00-0147	DAY	1,300 CFM Diesel Powered Portable Air Compressor	1,202.78	
		For Half Day Usage, Deduct	*-375.87*	
01 22 23 00-0148	WK	1,300 CFM Diesel Powered Portable Air Compressor	2,696.05	
01 22 23 00-0149	MO	1,300 CFM Diesel Powered Portable Air Compressor	7,189.46	
		For >6 Months (>26 Weeks), Deduct	*-287.58*	
01 22 23 00-0150	DAY	1,600 CFM Diesel Powered Portable Air Compressor	1,497.80	
		For Half Day Usage, Deduct	*-468.06*	
01 22 23 00-0151	WK	1,600 CFM Diesel Powered Portable Air Compressor	3,370.06	
01 22 23 00-0152	MO	1,600 CFM Diesel Powered Portable Air Compressor	8,986.82	
		For >6 Months (>26 Weeks), Deduct	*-359.47*	

01 22 23 00-0153 Portable Negative Air Machines *(01 22 23 00-0124)*

Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0154	DAY	Up To 2,000 CFM, Portable Negative Air Machine	98.30	
		For Half Day Usage, Deduct	*-30.72*	
01 22 23 00-0155	WK	Up To 2,000 CFM, Portable Negative Air Machine	403.72	
01 22 23 00-0156	MO	Up To 2,000 CFM, Portable Negative Air Machine	1,219.93	
		For >6 Months (>26 Weeks), Deduct	*-48.80*	
01 22 23 00-0157	EA	First Stage Pre-Filter For Portable Negative Air Machines	14.13	
01 22 23 00-0158	EA	Second Stage Pre-Filter For Portable Negative Air Machines	28.51	
01 22 23 00-0159	EA	High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	134.46	
01 22 23 00-0160	LF	Flexible Exhaust Duct For Portable Negative Air Machines	2.39	

01 22 23 00-0161 Portable Air Scrubbers *(01 22 23 00-0124)*

Note: A Portable Air Scrubber filters and recirculates the filtered air into the same space and does not use ducting to exhaust the filtered air to a different location. Includes delivery to job site and pick-up when complete. Excludes all filters.

01 22 23 00-0162	DAY	Up To 1,000 CFM, Portable Air Scrubber	62.81	
		For Half Day Usage, Deduct	*-19.63*	
01 22 23 00-0163	WK	Up To 1,000 CFM, Portable Air Scrubber	261.10	
01 22 23 00-0164	MO	Up To 1,000 CFM, Portable Air Scrubber	722.74	
		For >6 Months (>26 Weeks), Deduct	*-28.91*	
01 22 23 00-0165	DAY	>1,000 to 2,000 CFM, Portable Air Scrubber	79.46	
		For Half Day Usage, Deduct	*-24.83*	
01 22 23 00-0166	WK	>1,000 to 2,000 CFM, Portable Air Scrubber	329.21	
01 22 23 00-0167	MO	>1,000 to 2,000 CFM, Portable Air Scrubber	964.92	
		For >6 Months (>26 Weeks), Deduct	*-38.60*	
01 22 23 00-0168	DAY	>2,000 To 5,000 CFM, Portable Air Scrubber	102.17	
		For Half Day Usage, Deduct	*-31.93*	
01 22 23 00-0169	WK	>2,000 To 5,000 CFM, Portable Air Scrubber	435.16	
01 22 23 00-0170	MO	>2,000 To 5,000 CFM, Portable Air Scrubber	1,218.45	
		For >6 Months (>26 Weeks), Deduct	*-48.74*	
01 22 23 00-0171	EA	First Stage Pre-Filter For Portable Air Scrubbers	18.67	
01 22 23 00-0172	EA	Second Stage Pre-Filter For Portable Air Scrubbers	24.73	
01 22 23 00-0173	EA	High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Air Scrubbers	225.28	

01 22 23 00-0174 Compaction And Paving Equipment *(01 22 23)*

01 22 23 00-0175 Pavers And Rollers *(01 22 23 00-0174)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0176 Pavers *(01 22 23 00-0175)*

01 22 23 00-0177	DAY	10' Wide Paving Machine With Full-Time Operator	4,471.17	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,593.92*	
01 22 23 00-0178	WK	10' Wide Paving Machine With Full-Time Operator	18,933.65	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0179	MO	10' Wide Paving Machine With Full-Time Operator	71,617.08	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-1,955.58*	

01 22 23 00-0180 Ride-On Self-Propelled, Rubber Tire Rollers *(01 22 23 00-0175)*

01 22 23 00-0181	DAY	10 To 12 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,402.23	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-634.88*	
01 22 23 00-0182	WK	10 To 12 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,313.28	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0183	MO	10 To 12 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	25,628.04	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-116.02*	
01 22 23 00-0184	DAY	15 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,538.57	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-677.49*	
01 22 23 00-0185	WK	15 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	7,327.19	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0186	MO	15 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	27,158.82	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-177.25*	
01 22 23 00-0187	DAY	30 Ton, Ride-On Self-Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,544.77	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-679.42*	
01 22 23 00-0188	WK	30 Ton, Ride-On Self-Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	6,924.35	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0189	MO	30 Ton, Ride-On Self-Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	27,456.30	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-189.15*	

01 22 23 00-0190 Ride-On Self-Propelled, Padfoot Rollers *(01 22 23 00-0175)*

01 22 23 00-0191	DAY	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,458.01	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-652.31*	
01 22 23 00-0192	WK	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,378.97	
		For Equipment Without Operator, Deduct	*-5,244.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0193	MO	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,006.09	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-131.14*	
01 22 23 00-0194	DAY	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,718.30	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-733.65*	
01 22 23 00-0195	WK	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,905.76	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0196	MO	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	27,667.02	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-197.58*	
01 22 23 00-0197	DAY	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,780.27	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-753.02*	
01 22 23 00-0198	WK	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	7,296.20	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0199	MO	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	28,757.78	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-241.21*	

01 22 23 00-0200 Towed, Padfoot Rollers *(01 22 23 00-0175)*

01 22 23 00-0201	DAY	48" Wide, 40" Diameter, Towed Padfoot Roller	117.75	
		For Half Day Usage, Deduct	*-36.80*	
01 22 23 00-0202	WK	48" Wide, 40" Diameter, Towed Padfoot Roller	340.86	
01 22 23 00-0203	MO	48" Wide, 40" Diameter, Towed Padfoot Roller	1,004.00	
		For >6 Months (>26 Weeks), Deduct	*-40.16*	
01 22 23 00-0204	DAY	60" Wide, 60" Diameter, Towed Padfoot Roller	148.74	
		For Half Day Usage, Deduct	*-46.48*	
01 22 23 00-0205	WK	60" Wide, 60" Diameter, Towed Padfoot Roller	415.23	
01 22 23 00-0206	MO	60" Wide, 60" Diameter, Towed Padfoot Roller	1,766.29	
		For >6 Months (>26 Weeks), Deduct	*-70.65*	

01 22 23 00-0207 Static Rollers *(01 22 23 00-0175)*

01 22 23 00-0208	DAY	5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,488.99	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-661.99*	
01 22 23 00-0209	WK	5 Ton, 2 Drum Articulated Roller With Full-Time Operator	6,645.47	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0210	MO	5 Ton, 2 Drum Articulated Roller With Full-Time Operator	26,879.93	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-166.09*	
01 22 23 00-0211	DAY	8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,625.34	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-704.60*	
01 22 23 00-0212	WK	8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	7,017.31	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0213	MO	8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	27,908.72	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-207.24*	

01 22 23 00-0214 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers *(01 22 23 00-0175)*

01 22 23 00-0215	DAY	1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,290.67	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-600.02*	
01 22 23 00-0216	WK	1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,951.35	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0217	MO	1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	24,586.86	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-74.37*	
01 22 23 00-0218	DAY	3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,383.63	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-629.07*	
01 22 23 00-0219	WK	3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,230.23	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0220	MO	3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,330.56	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-104.12*	
01 22 23 00-0221	DAY	5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,445.61	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-648.44*	
01 22 23 00-0222	WK	5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,416.16	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0223	MO	5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,826.36	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-123.95*	
01 22 23 00-0224	DAY	8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,526.18	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-673.61*	
01 22 23 00-0225	WK	8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,651.66	
		For Equipment Without Operator, Deduct	*-5,244.83*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0226	MO	8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,439.91	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-148.49*	
01 22 23 00-0227	DAY	11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,687.31	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-723.97*	
01 22 23 00-0228	WK	11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	7,122.67	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0229	MO	11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	27,685.61	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-198.32*	

01 22 23 00-0230 Steel Roadway Plates *(01 22 23 00-0174)*

Note: 3 day minimum. Excludes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0231 for for placement (set-up) from truck and removal from ground (load on truck), 01 71 13 00-0001 for material delivery on truck.

01 22 23 00-0231	EA	Placement And Removal Of Steel Roadway Plates	61.87	
01 22 23 00-0232	DAY	1" x 4' x 8' Steel Plate	46.44	
01 22 23 00-0233	WK	1" x 4' x 8' Steel Plate	109.66	
01 22 23 00-0234	MO	1" x 4' x 8' Steel Plate	144.31	
		For >6 Months (>26 Weeks), Deduct	*-5.77*	
01 22 23 00-0235	DAY	1" x 4' x 10' Steel Plate	61.92	
01 22 23 00-0236	WK	1" x 4' x 10' Steel Plate	139.33	
01 22 23 00-0237	MO	1" x 4' x 10' Steel Plate	170.29	
		For >6 Months (>26 Weeks), Deduct	*-6.81*	
01 22 23 00-0238	DAY	1" x 5' x 10' Steel Plate	64.50	
01 22 23 00-0239	WK	1" x 5' x 10' Steel Plate	145.78	
01 22 23 00-0240	MO	1" x 5' x 10' Steel Plate	387.03	
		For >6 Months (>26 Weeks), Deduct	*-15.48*	
01 22 23 00-0241	DAY	1" x 6' x 8' Steel Plate	41.28	
01 22 23 00-0242	WK	1" x 6' x 8' Steel Plate	92.89	
01 22 23 00-0243	MO	1" x 6' x 8' Steel Plate	247.70	
		For >6 Months (>26 Weeks), Deduct	*-9.91*	
01 22 23 00-0244	DAY	1" x 6' x 10' Steel Plate	77.41	
01 22 23 00-0245	WK	1" x 6' x 10' Steel Plate	101.92	
01 22 23 00-0246	MO	1" x 6' x 10' Steel Plate	272.21	
		For >6 Months (>26 Weeks), Deduct	*-10.89*	
01 22 23 00-0247	DAY	1" x 6' x 12' Steel Plate	108.37	
01 22 23 00-0248	WK	1" x 6' x 12' Steel Plate	138.69	
01 22 23 00-0249	MO	1" x 6' x 12' Steel Plate	375.42	
		For >6 Months (>26 Weeks), Deduct	*-15.02*	
01 22 23 00-0250	DAY	1" x 8' x 10' Steel Plate	68.38	
01 22 23 00-0251	WK	1" x 8' x 10' Steel Plate	153.52	
01 22 23 00-0252	MO	1" x 8' x 10' Steel Plate	408.96	
		For >6 Months (>26 Weeks), Deduct	*-16.36*	
01 22 23 00-0253	DAY	1" x 8' x 12' Steel Plate	123.85	
01 22 23 00-0254	WK	1" x 8' x 12' Steel Plate	153.52	
01 22 23 00-0255	MO	1" x 8' x 12' Steel Plate	743.10	
		For >6 Months (>26 Weeks), Deduct	*-29.72*	
01 22 23 00-0256	DAY	1" x 8' x 16' Steel Plate	165.13	
01 22 23 00-0257	WK	1" x 8' x 16' Steel Plate	371.55	
01 22 23 00-0258	MO	1" x 8' x 16' Steel Plate	990.80	
		For >6 Months (>26 Weeks), Deduct	*-39.63*	
01 22 23 00-0259	LF	Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate	2.70	
01 22 23 00-0260	EA	Removal And Resetting Of Steel Roadway Plate	34.37	
01 22 23 00-0261	DAY	1-1/4" x 8' x 10' Steel Plate	82.05	
01 22 23 00-0262	WK	1-1/4" x 8' x 10' Steel Plate	184.23	
01 22 23 00-0263	MO	1-1/4" x 8' x 10' Steel Plate	490.75	
		For >6 Months (>26 Weeks), Deduct	*-19.63*	
01 22 23 00-0264	DAY	1-1/2" x 8' x 15' Steel Plate	189.90	
01 22 23 00-0265	WK	1-1/2" x 8' x 15' Steel Plate	427.28	
01 22 23 00-0266	MO	1-1/2" x 8' x 15' Steel Plate	1,139.42	
		For >6 Months (>26 Weeks), Deduct	*-45.58*	

01 22 23 00-0267 Street Sweepers *(01 22 23 00-0174)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0268	DAY	8' Road Broom, Self-Propelled Street Sweeper With Full-Time Operator	1,216.98	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-568.65*	
01 22 23 00-0269	WK	8' Road Broom, Self-Propelled Street Sweeper With Full-Time Operator	5,864.51	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-0270	MO	8' Road Broom, Self-Propelled Street Sweeper With Full-Time Operator	24,764.14	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-119.98*	
01 22 23 00-0271	DAY	Self-Propelled Street Sweeper With Hopper And Full-Time Operator Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.	2,824.58	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-1,071.03*	
01 22 23 00-0272	WK	Self-Propelled Street Sweeper With Hopper And Full-Time Operator Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.	12,312.86	
		For Equipment Without Operator, Deduct	*-5,022.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0273	MO	Self-Propelled Street Sweeper With Hopper And Full-Time Operator Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.	47,781.77	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-1,040.69*	

01 22 23 00-0274 Concrete Deck Bridge Finishers *(01 22 23 00-0174)*

Note: Includes full-time operator.

01 22 23 00-0275	WK	Concrete Bridge Deck Finisher With Full-Time Operator	7,831.40	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0276	MO	Concrete Bridge Deck Finisher With Full-Time Operator	31,981.28	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-370.15*	
01 22 23 00-0277	EA	Concrete Bridge Deck Finisher Delivery, Set-up And Removal	5,195.92	
		For Equipment Without Operator, Deduct	*-5,195.92*	

01 22 23 00-0278 Earthmoving Equipment *(01 22 23)*

01 22 23 00-0279 Skid-Steer Loaders *(01 22 23 00-0278)*

Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.

01 22 23 00-0280	DAY	700 Lb. Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	1,364.12	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-614.64*	
01 22 23 00-0281	WK	700 Lb. Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	5,965.97	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-0282	MO	700 Lb. Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	24,036.50	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-90.88*	
01 22 23 00-0283	DAY	1,500 To 1,700 Lb. Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,458.91	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-644.26*	
01 22 23 00-0284	WK	1,500 To 1,700 Lb. Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	6,137.50	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-0285	MO	1,500 To 1,700 Lb. Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	24,412.65	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-105.92*	
01 22 23 00-0286	DAY	2,000 To 2,400 Lb. Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,485.99	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-652.72*	
01 22 23 00-0287	WK	2,000 To 2,400 Lb. Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	6,384.25	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-0288	MO	2,000 To 2,400 Lb. Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	25,067.15	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-132.10*	
01 22 23 00-0289	DAY	2,500 To 2,700 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,591.31	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-685.63*	
01 22 23 00-0290	WK	2,500 To 2,700 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	6,730.31	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-0291	MO	2,500 To 2,700 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	26,210.64	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-177.84*	
01 22 23 00-0292	DAY	3,200 To 3,500 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,771.87	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-742.06*	
01 22 23 00-0293	WK	3,200 To 3,500 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	7,414.90	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-0294	MO	3,200 To 3,500 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	27,895.79	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-245.25*	
01 22 23 00-0295	DAY	Hydraulic Hammer Attachment For Skid-Steer Loaders	300.92	
		For Half Day Usage, Deduct	*-94.04*	
01 22 23 00-0296	WK	Hydraulic Hammer Attachment For Skid-Steer Loaders	1,000.56	
01 22 23 00-0297	MO	Hydraulic Hammer Attachment For Skid-Steer Loaders	2,663.14	
		For >6 Months (>26 Weeks), Deduct	*-106.53*	
01 22 23 00-0298	DAY	Forklift Attachment For Skid-Steer Loaders	64.70	
		For Half Day Usage, Deduct	*-20.22*	
01 22 23 00-0299	WK	Forklift Attachment For Skid-Steer Loaders	173.03	
01 22 23 00-0300	MO	Forklift Attachment For Skid-Steer Loaders	489.00	
		For >6 Months (>26 Weeks), Deduct	*-19.56*	
01 22 23 00-0301	DAY	Backhoe Attachment For Skid-Steer Loaders	142.94	
		For Half Day Usage, Deduct	*-44.67*	
01 22 23 00-0302	WK	Backhoe Attachment For Skid-Steer Loaders	343.05	
01 22 23 00-0303	MO	Backhoe Attachment For Skid-Steer Loaders	853.11	
		For >6 Months (>26 Weeks), Deduct	*-34.12*	
01 22 23 00-0304	DAY	Broom Attachment For Skid-Steer Loaders	141.43	
		For Half Day Usage, Deduct	*-44.20*	
01 22 23 00-0305	WK	Broom Attachment For Skid-Steer Loaders	383.67	
01 22 23 00-0306	MO	Broom Attachment For Skid-Steer Loaders	1,015.60	
		For >6 Months (>26 Weeks), Deduct	*-40.62*	
01 22 23 00-0307	DAY	Concrete Pump Attachment For Skid-Steer Loaders	300.92	
		For Half Day Usage, Deduct	*-94.04*	
01 22 23 00-0308	WK	Concrete Pump Attachment For Skid-Steer Loaders	1,000.56	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0309	MO	Concrete Pump Attachment For Skid-Steer Loaders	2,663.14	
		For >6 Months (>26 Weeks), Deduct	*-106.53*	
01 22 23 00-0310	DAY	Auger Attachment For Skid-Steer Loaders	123.38	
		Note: Excludes bits and extensions		
		For Half Day Usage, Deduct	*-38.56*	
01 22 23 00-0311	WK	Auger Attachment For Skid-Steer Loaders	340.04	
		Note: Excludes bits and extensions		
01 22 23 00-0312	MO	Auger Attachment For Skid-Steer Loaders	928.34	
		Note: Excludes bits and extensions		
		For >6 Months (>26 Weeks), Deduct	*-37.13*	
01 22 23 00-0313	DAY	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	34.00	
		Note: Excludes auger attachment		
		For Half Day Usage, Deduct	*-10.63*	
01 22 23 00-0314	WK	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	88.97	
		Note: Excludes auger attachment		
01 22 23 00-0315	MO	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	261.66	
		Note: Excludes auger attachment		
		For >6 Months (>26 Weeks), Deduct	*-10.47*	
01 22 23 00-0316	DAY	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	45.78	
		Note: Excludes auger attachment		
		For Half Day Usage, Deduct	*-14.31*	
01 22 23 00-0317	WK	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	113.82	
		Note: Excludes auger attachment		
01 22 23 00-0318	MO	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	340.18	
		Note: Excludes auger attachment		
		For >6 Months (>26 Weeks), Deduct	*-13.61*	
01 22 23 00-0319	DAY	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers	66.71	
		Note: Excludes auger attachment		
		For Half Day Usage, Deduct	*-20.85*	
01 22 23 00-0320	WK	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers	202.80	
		Note: Excludes auger attachment		
01 22 23 00-0321	MO	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers	601.84	
		Note: Excludes auger attachment		
		For >6 Months (>26 Weeks), Deduct	*-24.07*	
01 22 23 00-0322	DAY	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers	13.54	
		Note: Excludes auger attachment		
		For Half Day Usage, Deduct	*-4.23*	
01 22 23 00-0323	WK	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers	31.60	
		Note: Excludes auger attachment		
01 22 23 00-0324	MO	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers	84.26	
		Note: Excludes auger attachment		
		For >6 Months (>26 Weeks), Deduct	*-3.37*	

01 22 23 00-0325 Bulldozers *(01 22 23 00-0278)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0326	DAY	70 HP, D3 Bulldozer With Full-Time Operator	1,455.00	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-651.37*	
01 22 23 00-0327	WK	70 HP, D3 Bulldozer With Full-Time Operator	6,845.98	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0328	MO	70 HP, D3 Bulldozer With Full-Time Operator	27,477.43	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-189.99*	
01 22 23 00-0329	DAY	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	1,646.53	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-711.22*	
01 22 23 00-0330	WK	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	7,619.74	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0331	MO	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	29,852.34	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-284.99*	
01 22 23 00-0332	DAY	140 HP, D6 Bulldozer With Full-Time Operator	2,190.46	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-881.20*	
01 22 23 00-0333	WK	140 HP, D6 Bulldozer With Full-Time Operator	9,795.46	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0334	MO	140 HP, D6 Bulldozer With Full-Time Operator	36,364.19	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-545.46*	
01 22 23 00-0335	DAY	200 HP, D7 Bulldozer With Full-Time Operator	2,673.10	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,032.03*	
01 22 23 00-0336	WK	200 HP, D7 Bulldozer With Full-Time Operator	11,733.70	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0337	MO	200 HP, D7 Bulldozer With Full-Time Operator	42,186.55	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-778.36*	
01 22 23 00-0338	DAY	335 HP, D8 Bulldozer With Full-Time Operator	3,247.68	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,211.58*	
01 22 23 00-0339	WK	335 HP, D8 Bulldozer With Full-Time Operator	14,032.00	
		For Equipment Without Operator, Deduct	*-5,244.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0340	MO	335 HP, D8 Bulldozer With Full-Time Operator	49,081.45	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-1,054.15*	
01 22 23 00-0341	DAY	460 HP, D9 Bulldozer With Full-Time Operator	3,569.44	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,312.13*	
01 22 23 00-0342	WK	460 HP, D9 Bulldozer With Full-Time Operator	15,311.38	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0343	MO	460 HP, D9 Bulldozer With Full-Time Operator	52,911.95	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-1,207.37*	
01 22 23 00-0344		**Trail Dozer** *(01 22 23 00-0278)*		
		Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0345	DAY	48" Width Trail Dozer With Full-Time Operator	1,666.93	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-717.60*	
01 22 23 00-0346	WK	48" Width Trail Dozer With Full-Time Operator	7,192.76	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0347	MO	48" Width Trail Dozer With Full-Time Operator	27,684.76	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-198.29*	
01 22 23 00-0348		**Hydraulic Excavators** *(01 22 23 00-0278)*		
		Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0349	DAY	3/8 CY Hydraulic Excavator With Full-Time Operator	1,411.69	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-637.84*	
01 22 23 00-0350	WK	3/8 CY Hydraulic Excavator With Full-Time Operator	6,527.78	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0351	MO	3/8 CY Hydraulic Excavator With Full-Time Operator	27,026.49	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-171.96*	
01 22 23 00-0352	DAY	1/2 CY Hydraulic Excavator With Full-Time Operator	1,513.79	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-669.74*	
01 22 23 00-0353	WK	1/2 CY Hydraulic Excavator With Full-Time Operator	6,977.82	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0354	MO	1/2 CY Hydraulic Excavator With Full-Time Operator	28,826.65	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-243.96*	
01 22 23 00-0355	DAY	5/8 CY Hydraulic Excavator With Full-Time Operator	1,546.03	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-679.82*	
01 22 23 00-0356	WK	5/8 CY Hydraulic Excavator With Full-Time Operator	7,145.74	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0357	MO	5/8 CY Hydraulic Excavator With Full-Time Operator	29,122.19	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-255.78*	
01 22 23 00-0358	DAY	3/4 CY Hydraulic Excavator With Full-Time Operator	1,579.61	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-690.31*	
01 22 23 00-0359	WK	3/4 CY Hydraulic Excavator With Full-Time Operator	7,300.23	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0360	MO	3/4 CY Hydraulic Excavator With Full-Time Operator	29,417.74	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-267.61*	
01 22 23 00-0361	DAY	7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	1,606.48	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-698.71*	
01 22 23 00-0362	WK	7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	7,461.44	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0363	MO	7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	29,713.29	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-279.43*	
01 22 23 00-0364	DAY	1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,969.20	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-812.06*	
01 22 23 00-0365	WK	1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	8,905.59	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0366	MO	1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	33,709.91	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-439.29*	
01 22 23 00-0367	DAY	1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	2,022.93	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-828.85*	
01 22 23 00-0368	WK	1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	9,140.69	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0369	MO	1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	34,415.19	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-467.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0370	DAY	1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	2,123.69	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-860.34*	
01 22 23 00-0371	WK	1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	9,543.71	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0372	MO	1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	35,624.25	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-515.87*	
01 22 23 00-0373	DAY	2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	2,237.88	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-896.02*	
01 22 23 00-0374	WK	2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	9,993.75	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0375	MO	2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	36,967.65	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-569.60*	
01 22 23 00-0376	DAY	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	2,271.46	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-906.51*	
01 22 23 00-0377	WK	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	10,128.09	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0378	MO	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	37,370.67	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-585.72*	
01 22 23 00-0379	DAY	3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	2,593.88	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,007.27*	
01 22 23 00-0380	WK	3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	11,424.47	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0381	MO	3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	41,266.53	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-741.56*	
01 22 23 00-0382	DAY	4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	3,057.35	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,152.10*	
01 22 23 00-0383	WK	4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	13,264.93	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0384	MO	4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	46,774.47	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-961.87*	
01 22 23 00-0385	DAY	6 To 11 CY Hydraulic Excavator With Full-Time Operator	3,628.30	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,330.53*	
01 22 23 00-0386	WK	6 To 11 CY Hydraulic Excavator With Full-Time Operator	15,548.71	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0387	MO	6 To 11 CY Hydraulic Excavator With Full-Time Operator	53,625.81	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-1,235.93*	
01 22 23 00-0388	DAY	Up To 50' Depth, 50,000 Lb. Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	2,150.56	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-868.73*	
01 22 23 00-0389	WK	Up To 50' Depth, 50,000 Lb. Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	9,637.75	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0390	MO	Up To 50' Depth, 50,000 Lb. Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	35,892.93	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-526.61*	
01 22 23 00-0391	DAY	Thumbs Or Grapple Attachment For Hydraulic Excavators	94.04	
		For Half Day Usage, Deduct	*-29.39*	
01 22 23 00-0392	WK	Thumbs Or Grapple Attachment For Hydraulic Excavators	362.72	
01 22 23 00-0393	MO	Thumbs Or Grapple Attachment For Hydraulic Excavators	1,074.72	
		For >6 Months (>26 Weeks), Deduct	*-42.99*	
01 22 23 00-0394	DAY	1,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	416.45	
		For Half Day Usage, Deduct	*-130.14*	
01 22 23 00-0395	WK	1,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	1,101.59	
01 22 23 00-0396	MO	1,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	3,083.10	
		For >6 Months (>26 Weeks), Deduct	*-123.32*	
01 22 23 00-0397	DAY	1,500 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	644.83	
		For Half Day Usage, Deduct	*-201.51*	
01 22 23 00-0398	WK	1,500 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	1,645.66	
01 22 23 00-0399	MO	1,500 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	4,278.73	
		For >6 Months (>26 Weeks), Deduct	*-171.15*	
01 22 23 00-0400	DAY	3,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	900.08	
		For Half Day Usage, Deduct	*-281.28*	
01 22 23 00-0401	WK	3,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	2,424.84	
01 22 23 00-0402	MO	3,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	6,797.60	
		For >6 Months (>26 Weeks), Deduct	*-271.90*	
01 22 23 00-0403	DAY	24" Compaction Wheel Attachment For Hydraulic Excavators	188.08	
		For Half Day Usage, Deduct	*-58.78*	
01 22 23 00-0404	WK	24" Compaction Wheel Attachment For Hydraulic Excavators	752.30	
01 22 23 00-0405	MO	24" Compaction Wheel Attachment For Hydraulic Excavators	2,256.91	
		For >6 Months (>26 Weeks), Deduct	*-90.28*	
01 22 23 00-0406	DAY	36" Compaction Wheel Attachment For Hydraulic Excavators	268.68	
		For Half Day Usage, Deduct	*-83.96*	
01 22 23 00-0407	WK	36" Compaction Wheel Attachment For Hydraulic Excavators	1,074.72	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0408	MO	36" Compaction Wheel Attachment For Hydraulic Excavators	3,224.16	
		For >6 Months (>26 Weeks), Deduct	*-128.97*	
01 22 23 00-0409	DAY	48" Compaction Wheel Attachment For Hydraulic Excavators	295.55	
		For Half Day Usage, Deduct	*-92.36*	
01 22 23 00-0410	WK	48" Compaction Wheel Attachment For Hydraulic Excavators	1,168.76	
01 22 23 00-0411	MO	48" Compaction Wheel Attachment For Hydraulic Excavators	3,492.84	
		For >6 Months (>26 Weeks), Deduct	*-139.71*	

01 22 23 00-0412 Mini-Excavators *(01 22 23 00-0278)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0413	DAY	2,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,331.08	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-612.64*	
01 22 23 00-0414	WK	2,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,044.15	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0415	MO	2,000 Lb. Capacity, Capacity, Mini-Excavator With Full-Time Operator	24,487.46	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-70.39*	
01 22 23 00-0416	DAY	3,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,337.80	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-614.74*	
01 22 23 00-0417	WK	3,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,064.30	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0418	MO	3,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	24,910.63	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-87.32*	
01 22 23 00-0419	DAY	6,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,371.39	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-625.24*	
01 22 23 00-0420	WK	6,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,158.34	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0421	MO	6,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	24,971.09	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-89.74*	
01 22 23 00-0422	DAY	7,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,384.82	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-629.44*	
01 22 23 00-0423	WK	7,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,205.36	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0424	MO	7,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	24,997.96	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-90.81*	
01 22 23 00-0425	DAY	9,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,465.42	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-654.63*	
01 22 23 00-0426	WK	9,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,272.53	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0427	MO	9,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	25,777.13	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-121.98*	
01 22 23 00-0428	DAY	11,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,472.14	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-656.73*	
01 22 23 00-0429	WK	11,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,608.38	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0430	MO	11,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	25,810.71	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-123.32*	

01 22 23 00-0431 Loader-Backhoes With Standard Bucket *(01 22 23 00-0278)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0432	DAY	1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	1,502.77	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-666.30*	
01 22 23 00-0433	WK	1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	6,322.60	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0434	MO	1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	25,264.01	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-101.46*	
01 22 23 00-0435	DAY	1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	1,551.39	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-681.49*	
01 22 23 00-0436	WK	1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	6,492.77	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0437	MO	1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	26,301.25	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-142.95*	
01 22 23 00-0438	DAY	1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	1,626.34	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-704.91*	
01 22 23 00-0439	WK	1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	6,679.15	
		For Equipment Without Operator, Deduct	*-5,244.83*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0440	MO	1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	26,836.08	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-164.34*	
01 22 23 00-0441	DAY	1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	1,960.61	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-809.37*	
01 22 23 00-0442	WK	1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	7,675.88	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0443	MO	1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	29,688.52	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-278.44*	

01 22 23 00-0444 Heavy-Duty Construction Loaders *(01 22 23 00-0278)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0445	DAY	2-1/2 CY, 119 HP, Heavy-Duty Construction Loader With Full-Time Operator	1,498.87	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-665.08*	
01 22 23 00-0446	WK	2-1/2 CY, 119 HP, Heavy-Duty Construction Loader With Full-Time Operator	7,023.66	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0447	MO	2-1/2 CY, 119 HP, Heavy-Duty Construction Loader With Full-Time Operator	28,057.17	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-213.18*	
01 22 23 00-0448	DAY	3 CY, 135 HP, Heavy-Duty Construction Loader With Full-Time Operator	1,872.63	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-781.88*	
01 22 23 00-0449	WK	3 CY, 135 HP, Heavy-Duty Construction Loader With Full-Time Operator	7,432.02	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0450	MO	3 CY, 135 HP, Heavy-Duty Construction Loader With Full-Time Operator	28,264.81	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-221.49*	
01 22 23 00-0451	DAY	3-1/2 CY, 198 HP, Heavy-Duty Construction Loader With Full-Time Operator	1,955.69	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-807.84*	
01 22 23 00-0452	WK	3-1/2 CY, 198 HP, Heavy-Duty Construction Loader With Full-Time Operator	7,653.51	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0453	MO	3-1/2 CY, 198 HP, Heavy-Duty Construction Loader With Full-Time Operator	28,818.53	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-243.64*	
01 22 23 00-0454	DAY	4-1/2 CY, 215 HP, Heavy-Duty Construction Loader With Full-Time Operator	2,184.10	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-879.21*	
01 22 23 00-0455	WK	4-1/2 CY, 215 HP, Heavy-Duty Construction Loader With Full-Time Operator	8,255.68	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0456	MO	4-1/2 CY, 215 HP, Heavy-Duty Construction Loader With Full-Time Operator	30,341.26	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-304.55*	
01 22 23 00-0457	DAY	7-1/3 CY, 330 HP, Heavy-Duty Construction Loader With Full-Time Operator	2,772.42	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,063.06*	
01 22 23 00-0458	WK	7-1/3 CY, 330 HP, Heavy-Duty Construction Loader With Full-Time Operator	12,124.80	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0459	MO	7-1/3 CY, 330 HP, Heavy-Duty Construction Loader With Full-Time Operator	43,353.68	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-825.04*	
01 22 23 00-0460	DAY	13-1/2 CY, 690 HP, Heavy-Duty Construction Loader With Full-Time Operator	6,648.39	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-2,274.30*	
01 22 23 00-0461	WK	13-1/2 CY, 690 HP, Heavy-Duty Construction Loader With Full-Time Operator	23,427.42	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0462	MO	13-1/2 CY, 690 HP, Heavy-Duty Construction Loader With Full-Time Operator	72,280.08	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-1,982.10*	

01 22 23 00-0463 Shoring *(01 22 23 00-0278)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0464 Aluminum Hydraulic Shoring *(01 22 23 00-0463)*

Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.

01 22 23 00-0465	WK	2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	157.07	
01 22 23 00-0466	MO	2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	463.29	
		For >6 Months (>26 Weeks), Deduct	*-18.53*	
01 22 23 00-0467	WK	Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	210.71	
01 22 23 00-0468	MO	Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	621.49	
		For >6 Months (>26 Weeks), Deduct	*-24.86*	
01 22 23 00-0469	WK	Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	390.70	
01 22 23 00-0470	MO	Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	1,152.57	
		For >6 Months (>26 Weeks), Deduct	*-46.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0471	EA	Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores	29.97	
01 22 23 00-0472	EA	Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores	47.96	
01 22 23 00-0473	EA	Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores	79.92	

01 22 23 00-0474 Slide Rail Shoring *(01 22 23 00-0463)*

Note: Excludes delivery to job site and pick-up when complete.

01 22 23 00-0475	WK	4' x 12' Slide Rail Panel	235.83	
01 22 23 00-0476	MO	4' x 12' Slide Rail Panel	707.49	
01 22 23 00-0477	WK	8' x 12' Slide Rail Panel	385.34	
01 22 23 00-0478	MO	8' x 12' Slide Rail Panel	1,156.02	
01 22 23 00-0479	WK	4' x 16' Slide Rail Panel	307.53	
01 22 23 00-0480	MO	4' x 16' Slide Rail Panel	922.59	
01 22 23 00-0481	WK	8' x 16' Slide Rail Panel	503.20	
01 22 23 00-0482	MO	8' x 16' Slide Rail Panel	1,509.61	
01 22 23 00-0483	WK	4' x 20' Slide Rail Panel	394.55	
01 22 23 00-0484	MO	4' x 20' Slide Rail Panel	1,183.65	
01 22 23 00-0485	WK	8' x 20' Slide Rail Panel	694.97	
01 22 23 00-0486	MO	8' x 20' Slide Rail Panel	2,084.91	
01 22 23 00-0487	WK	14' Stacking Post	352.49	
01 22 23 00-0488	MO	14' Stacking Post	1,057.48	
01 22 23 00-0489	WK	Stacking Brackets	11.02	
01 22 23 00-0490	MO	Stacking Brackets	33.05	
01 22 23 00-0491	EA	Set Up And Remove 4' x 12' Slide Rail Panel	274.99	
01 22 23 00-0492	EA	Set Up And Remove 8' x 12' Slide Rail Panel	412.48	
01 22 23 00-0493	EA	Set Up And Remove 4' x 16' Slide Rail Panel	412.48	
01 22 23 00-0494	EA	Set Up And Remove 8' x 16' Slide Rail Panel	549.98	
01 22 23 00-0495	EA	Set Up And Remove 4' x 20' Slide Rail Panel	549.98	
01 22 23 00-0496	EA	Set Up And Remove 8' x 20' Slide Rail Panel	687.48	
01 22 23 00-0497	EA	Set Up And Remove 14' Stacking Post	412.48	
01 22 23 00-0498	EA	Set Up And Remove Stacking Brackets	137.49	
01 22 23 00-0499	EA	Stacking Brackets Rigging Tub	2,065.39	

01 22 23 00-0500 Tractors *(01 22 23 00-0278)*

Note: Excludes operator, delivery, set-up, and removal.

01 22 23 00-0501	DAY	20 To 29 HP Tractor	495.26	
		For Half Day Usage, Deduct	*-154.77*	
01 22 23 00-0502	WK	20 To 29 HP Tractor	1,192.30	
01 22 23 00-0503	MO	20 To 29 HP Tractor	3,219.21	
		For >6 Months (>26 Weeks), Deduct	*-128.77*	
01 22 23 00-0504	DAY	30 To 35 HP Tractor	513.17	
		For Half Day Usage, Deduct	*-160.37*	
01 22 23 00-0505	WK	30 To 35 HP Tractor	1,321.14	
01 22 23 00-0506	MO	30 To 35 HP Tractor	3,657.70	
		For >6 Months (>26 Weeks), Deduct	*-146.31*	
01 22 23 00-0507	DAY	40 To 45 HP Tractor	524.09	
		For Half Day Usage, Deduct	*-163.78*	
01 22 23 00-0508	WK	40 To 45 HP Tractor	1,408.49	
01 22 23 00-0509	MO	40 To 45 HP Tractor	3,865.15	
		For >6 Months (>26 Weeks), Deduct	*-154.61*	
01 22 23 00-0510	DAY	80 To 89 HP Tractor	674.76	
		For Half Day Usage, Deduct	*-210.86*	
01 22 23 00-0511	WK	80 To 89 HP Tractor	1,913.58	
01 22 23 00-0512	MO	80 To 89 HP Tractor	5,479.12	
		For >6 Months (>26 Weeks), Deduct	*-219.16*	
01 22 23 00-0513	DAY	60" Rotary Mower Attachment For Tractors	211.82	
		For Half Day Usage, Deduct	*-66.19*	
01 22 23 00-0514	WK	60" Rotary Mower Attachment For Tractors	655.11	
01 22 23 00-0515	DAY	84" Rotary Mower Attachment For Tractors	231.47	
		For Half Day Usage, Deduct	*-72.33*	
01 22 23 00-0516	WK	84" Rotary Mower Attachment For Tractors	709.70	
01 22 23 00-0517	DAY	Under Deck Rotary Mower Attachment For Tractors	42.44	
		For Half Day Usage, Deduct	*-13.26*	
01 22 23 00-0518	WK	Under Deck Rotary Mower Attachment For Tractors	169.77	

01 22 23 00-0519 Trench Boxes/Trench Shields *(01 22 23 00-0278)*

Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.

01 22 23 00-0520	WK	4' x 6' Trench Box With Up To 48" Spreaders	301.03	
01 22 23 00-0521	MO	4' x 6' Trench Box With Up To 48" Spreaders	903.08	
		For >6 Months (>26 Weeks), Deduct	*-36.12*	
01 22 23 00-0522	WK	6' x 6' Trench Box With Up To 48" Spreaders	339.87	
01 22 23 00-0523	MO	6' x 6' Trench Box With Up To 48" Spreaders	1,019.60	
		For >6 Months (>26 Weeks), Deduct	*-40.78*	
01 22 23 00-0524	WK	8' x 6' Trench Box With Up To 48" Spreaders	359.29	
01 22 23 00-0525	MO	8' x 6' Trench Box With Up To 48" Spreaders	1,077.87	
		For >6 Months (>26 Weeks), Deduct	*-43.11*	
01 22 23 00-0526	WK	4' x 8' Trench Box With Up To 48" Spreaders	330.16	
01 22 23 00-0527	MO	4' x 8' Trench Box With Up To 48" Spreaders	990.47	
		For >6 Months (>26 Weeks), Deduct	*-39.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0528	WK	6' x 8' Trench Box With Up To 48" Spreaders	388.42	
01 22 23 00-0529	MO	6' x 8' Trench Box With Up To 48" Spreaders	1,165.26	
		For >6 Months (>26 Weeks), Deduct	*-46.61*	
01 22 23 00-0530	WK	8' x 8' Trench Box With Up To 48" Spreaders	436.97	
01 22 23 00-0531	MO	8' x 8' Trench Box With Up To 48" Spreaders	1,310.92	
		For >6 Months (>26 Weeks), Deduct	*-52.44*	
01 22 23 00-0532	WK	4' x 10' Trench Box With Up To 48" Spreaders	369.00	
01 22 23 00-0533	MO	4' x 10' Trench Box With Up To 48" Spreaders	1,107.00	
		For >6 Months (>26 Weeks), Deduct	*-44.28*	
01 22 23 00-0534	WK	6' x 10' Trench Box With Up To 48" Spreaders	436.97	
01 22 23 00-0535	MO	6' x 10' Trench Box With Up To 48" Spreaders	1,310.92	
		For >6 Months (>26 Weeks), Deduct	*-52.44*	
01 22 23 00-0536	WK	8' x 10' Trench Box With Up To 48" Spreaders	534.08	
01 22 23 00-0537	MO	8' x 10' Trench Box With Up To 48" Spreaders	1,592.52	
		For >6 Months (>26 Weeks), Deduct	*-63.70*	
01 22 23 00-0538	WK	4' x 12' Trench Box With Up To 48" Spreaders	436.97	
01 22 23 00-0539	MO	4' x 12' Trench Box With Up To 48" Spreaders	1,310.92	
		For >6 Months (>26 Weeks), Deduct	*-52.44*	
01 22 23 00-0540	WK	6' x 12' Trench Box With Up To 48" Spreaders	534.08	
01 22 23 00-0541	MO	6' x 12' Trench Box With Up To 48" Spreaders	1,602.23	
		For >6 Months (>26 Weeks), Deduct	*-64.09*	
01 22 23 00-0542	WK	8' x 12' Trench Box With Up To 48" Spreaders	679.74	
01 22 23 00-0543	MO	8' x 12' Trench Box With Up To 48" Spreaders	2,039.20	
		For >6 Months (>26 Weeks), Deduct	*-81.57*	
01 22 23 00-0544	WK	4' x 14' Trench Box With Up To 48" Spreaders	485.52	
01 22 23 00-0545	MO	4' x 14' Trench Box With Up To 48" Spreaders	1,456.58	
		For >6 Months (>26 Weeks), Deduct	*-58.26*	
01 22 23 00-0546	WK	6' x 14' Trench Box With Up To 48" Spreaders	631.18	
01 22 23 00-0547	MO	6' x 14' Trench Box With Up To 48" Spreaders	1,893.55	
		For >6 Months (>26 Weeks), Deduct	*-75.74*	
01 22 23 00-0548	WK	8' x 14' Trench Box With Up To 48" Spreaders	776.84	
01 22 23 00-0549	MO	8' x 14' Trench Box With Up To 48" Spreaders	2,330.52	
		For >6 Months (>26 Weeks), Deduct	*-93.22*	
01 22 23 00-0550	WK	4' x 16' Trench Box With Up To 48" Spreaders	534.08	
01 22 23 00-0551	MO	4' x 16' Trench Box With Up To 48" Spreaders	1,602.23	
		For >6 Months (>26 Weeks), Deduct	*-64.09*	
01 22 23 00-0552	WK	6' x 16' Trench Box With Up To 48" Spreaders	728.29	
01 22 23 00-0553	MO	6' x 16' Trench Box With Up To 48" Spreaders	2,184.86	
		For >6 Months (>26 Weeks), Deduct	*-87.39*	
01 22 23 00-0554	WK	8' x 16' Trench Box With Up To 48" Spreaders	873.94	
01 22 23 00-0555	MO	8' x 16' Trench Box With Up To 48" Spreaders	2,621.84	
		For >6 Months (>26 Weeks), Deduct	*-104.87*	
01 22 23 00-0556	WK	4' x 20' Trench Box With Up To 48" Spreaders	631.18	
01 22 23 00-0557	MO	4' x 20' Trench Box With Up To 48" Spreaders	1,893.55	
		For >6 Months (>26 Weeks), Deduct	*-75.74*	
01 22 23 00-0558	WK	6' x 20' Trench Box With Up To 48" Spreaders	873.94	
01 22 23 00-0559	MO	6' x 20' Trench Box With Up To 48" Spreaders	2,621.84	
		For >6 Months (>26 Weeks), Deduct	*-104.87*	
01 22 23 00-0560	WK	8' x 20' Trench Box With Up To 48" Spreaders	1,019.60	
01 22 23 00-0561	MO	8' x 20' Trench Box With Up To 48" Spreaders	3,058.81	
		For >6 Months (>26 Weeks), Deduct	*-122.35*	
01 22 23 00-0562	WK	4' x 24' Trench Box With Up To 48" Spreaders	873.94	
01 22 23 00-0563	MO	4' x 24' Trench Box With Up To 48" Spreaders	2,621.84	
		For >6 Months (>26 Weeks), Deduct	*-104.87*	
01 22 23 00-0564	WK	6' x 24' Trench Box With Up To 48" Spreaders	1,068.16	
01 22 23 00-0565	MO	6' x 24' Trench Box With Up To 48" Spreaders	3,204.46	
		For >6 Months (>26 Weeks), Deduct	*-128.18*	
01 22 23 00-0566	WK	8' x 24' Trench Box With Up To 48" Spreaders	1,165.26	
01 22 23 00-0567	MO	8' x 24' Trench Box With Up To 48" Spreaders	3,495.78	
		For >6 Months (>26 Weeks), Deduct	*-139.83*	
01 22 23 00-0568	WK	For Spreaders >48" To 84", Add	29.13	
01 22 23 00-0569	MO	For Spreaders >48" To 84", Add	87.39	
		For >6 Months (>26 Weeks), Deduct	*-3.50*	
01 22 23 00-0570	WK	For Spreaders >84" To 120", Add	174.79	
01 22 23 00-0571	MO	For Spreaders >84" To 120", Add	524.37	
		For >6 Months (>26 Weeks), Deduct	*-20.97*	
01 22 23 00-0572	WK	For Spreaders >120", Add	369.00	
01 22 23 00-0573	MO	For Spreaders >120", Add	1,107.00	
		For >6 Months (>26 Weeks), Deduct	*-44.28*	
01 22 23 00-0574	WK	8' x 4' Manhole Box	458.82	
01 22 23 00-0575	MO	8' x 4' Manhole Box	1,376.46	
		For >6 Months (>26 Weeks), Deduct	*-55.06*	
01 22 23 00-0576	WK	8' x 8' Manhole Box	655.46	
01 22 23 00-0577	MO	8' x 8' Manhole Box	1,966.38	
		For >6 Months (>26 Weeks), Deduct	*-78.66*	

01 22 23 00-0578 Trenchers *(01 22 23 00-0278)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0579	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,353.91	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-611.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0580	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	6,212.71	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-0581	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	25,040.10	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-131.02*	
01 22 23 00-0582	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,943.51	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-795.69*	
01 22 23 00-0583	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	8,199.87	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-0584	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	30,499.35	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-349.39*	

01 22 23 00-0585 Telescopic Hydraulic Excavators (Gradall) *(01 22 23 00-0278)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0586	DAY	Telescopic Hydraulic Excavator (Gradall) With Full-Time Operator	4,426.62	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,580.00*	
01 22 23 00-0587	WK	Telescopic Hydraulic Excavator (Gradall) With Full-Time Operator	13,183.38	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0588	MO	Telescopic Hydraulic Excavator (Gradall) With Full-Time Operator	51,061.43	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-1,133.35*	

01 22 23 00-0589 Road Graders *(01 22 23 00-0278)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0590	DAY	50 To 60 HP Road Grader With Full-Time Operator	2,384.05	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-941.70*	
01 22 23 00-0591	WK	50 To 60 HP Road Grader With Full-Time Operator	8,716.03	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0592	MO	50 To 60 HP Road Grader With Full-Time Operator	32,073.13	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-373.82*	
01 22 23 00-0593	DAY	80 To 100 HP Road Grader With Full-Time Operator	3,042.68	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,147.52*	
01 22 23 00-0594	WK	80 To 100 HP Road Grader With Full-Time Operator	10,175.71	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0595	MO	80 To 100 HP Road Grader With Full-Time Operator	36,523.39	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-551.83*	
01 22 23 00-0596	DAY	130 To 140 HP Road Grader With Full-Time Operator	3,533.69	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,300.96*	
01 22 23 00-0597	WK	130 To 140 HP Road Grader With Full-Time Operator	11,630.05	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0598	MO	130 To 140 HP Road Grader With Full-Time Operator	41,885.94	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-766.33*	
01 22 23 00-0599	DAY	170 To 185 HP Road Grader With Full-Time Operator	4,279.85	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,534.14*	
01 22 23 00-0600	WK	170 To 185 HP Road Grader With Full-Time Operator	18,168.36	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0601	MO	170 To 185 HP Road Grader With Full-Time Operator	67,959.91	
		For Equipment Without Operator, Deduct	*-22,727.57*	
		For >6 Months (>26 Weeks), Deduct	*-1,809.29*	

01 22 23 00-0602 Motor Scraper *(01 22 23 00-0278)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0603	DAY	11 CY Motor Scraper-Hauler With Full-Time Operator	2,348.44	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-930.57*	
01 22 23 00-0604	WK	11 CY Motor Scraper-Hauler With Full-Time Operator	10,442.72	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0605	MO	11 CY Motor Scraper-Hauler With Full-Time Operator	38,303.49	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-623.04*	
01 22 23 00-0606	DAY	18 CY Motor Scraper-Hauler With Full-Time Operator	2,873.57	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,094.67*	
01 22 23 00-0607	WK	18 CY Motor Scraper-Hauler With Full-Time Operator	12,543.24	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0608	MO	18 CY Motor Scraper-Hauler With Full-Time Operator	44,622.84	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-875.81*	
01 22 23 00-0609	DAY	24 CY Motor Scraper-Hauler With Full-Time Operator	3,380.90	
		For Equipment Without Operator, Deduct	*-1,048.97*	
		For Half Day Usage, Deduct	*-1,253.21*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0610	WK	24 CY Motor Scraper-Hauler With Full-Time Operator	14,563.65	
		For Equipment Without Operator, Deduct	*-5,244.83*	
01 22 23 00-0611	MO	24 CY Motor Scraper-Hauler With Full-Time Operator	50,675.18	
		For Equipment Without Operator, Deduct	*-22,727.61*	
		For >6 Months (>26 Weeks), Deduct	*-1,117.90*	

01 22 23 00-0612 Portable Sediment Tank *(01 22 23 00-0278)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0613	WK	Portable Sediment Tank	212.21	
01 22 23 00-0614	MO	Portable Sediment Tank	622.49	
		For >6 Months (>26 Weeks), Deduct	*-24.90*	

01 22 23 00-0615 Heavy Equipment (Ground Protection) Mats *(01 22 23 00-0278)*

Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0278 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

01 22 23 00-0616	DAY	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	28.12	
		For Half Day Usage, Deduct	*-8.79*	
01 22 23 00-0617	WK	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	66.94	
01 22 23 00-0618	MO	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	140.58	
		For >6 Months (>26 Weeks), Deduct	*-5.62*	
01 22 23 00-0619	DAY	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	29.52	
		For Half Day Usage, Deduct	*-9.23*	
01 22 23 00-0620	WK	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	70.29	
01 22 23 00-0621	MO	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	147.61	
		For >6 Months (>26 Weeks), Deduct	*-5.90*	
01 22 23 00-0622	Day	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	23.90	
		For Half Day Usage, Deduct	*-7.47*	
01 22 23 00-0623	WK	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	56.23	
01 22 23 00-0624	MO	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	119.49	
		For >6 Months (>26 Weeks), Deduct	*-4.78*	
01 22 23 00-0625	Day	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	26.71	
		For Half Day Usage, Deduct	*-8.35*	
01 22 23 00-0626	WK	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	63.26	
01 22 23 00-0627	MO	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	133.55	
		For >6 Months (>26 Weeks), Deduct	*-5.34*	
01 22 23 00-0628	Day	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	29.52	
		For Half Day Usage, Deduct	*-9.23*	
01 22 23 00-0629	WK	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	70.29	
01 22 23 00-0630	MO	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	147.61	
		For >6 Months (>26 Weeks), Deduct	*-5.90*	
01 22 23 00-0631	Day	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	32.33	
		For Half Day Usage, Deduct	*-10.10*	
01 22 23 00-0632	WK	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	76.98	
01 22 23 00-0633	MO	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	161.67	
		For >6 Months (>26 Weeks), Deduct	*-6.47*	
01 22 23 00-0634	Day	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	25.30	
		For Half Day Usage, Deduct	*-7.91*	
01 22 23 00-0635	WK	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	70.29	
01 22 23 00-0636	MO	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	126.52	
		For >6 Months (>26 Weeks), Deduct	*-5.06*	
01 22 23 00-0637	Day	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	29.52	
		For Half Day Usage, Deduct	*-9.23*	
01 22 23 00-0638	WK	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	70.29	
01 22 23 00-0639	MO	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	147.61	
		For >6 Months (>26 Weeks), Deduct	*-5.90*	
01 22 23 00-0640	Day	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	35.14	
		For Half Day Usage, Deduct	*-10.98*	
01 22 23 00-0641	WK	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	77.32	
01 22 23 00-0642	MO	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	175.72	
		For >6 Months (>26 Weeks), Deduct	*-7.03*	
01 22 23 00-0643	Day	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	37.96	
		For Half Day Usage, Deduct	*-11.86*	
01 22 23 00-0644	WK	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	90.37	
01 22 23 00-0645	MO	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	189.78	
		For >6 Months (>26 Weeks), Deduct	*-7.59*	
01 22 23 00-0646	Day	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	40.77	
		For Half Day Usage, Deduct	*-12.74*	
01 22 23 00-0647	WK	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	97.07	
01 22 23 00-0648	MO	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	203.84	
		For >6 Months (>26 Weeks), Deduct	*-8.15*	
01 22 23 00-0649	Day	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	42.17	
		For Half Day Usage, Deduct	*-13.18*	
01 22 23 00-0650	WK	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	100.41	
01 22 23 00-0651	MO	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	210.87	
		For >6 Months (>26 Weeks), Deduct	*-8.43*	
01 22 23 00-0652	Day	14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	13.52	
		For Half Day Usage, Deduct	*-4.23*	
01 22 23 00-0653	WK	14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	33.81	
01 22 23 00-0654	MO	14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	101.43	
		For >6 Months (>26 Weeks), Deduct	*-4.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0655	Day	14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	16.17	
		For Half Day Usage, Deduct	*-5.05*	
01 22 23 00-0656	WK	14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	40.42	
01 22 23 00-0657	MO	14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	121.25	
		For >6 Months (>26 Weeks), Deduct	*-4.85*	
01 22 23 00-0658	Day	16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	18.46	
		For Half Day Usage, Deduct	*-5.77*	
01 22 23 00-0659	WK	16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	46.16	
01 22 23 00-0660	MO	16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	138.47	
		For >6 Months (>26 Weeks), Deduct	*-5.54*	
01 22 23 00-0661	Day	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	19.68	
		For Half Day Usage, Deduct	*-6.15*	
01 22 23 00-0662	WK	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	49.20	
01 22 23 00-0663	MO	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	147.61	
		For >6 Months (>26 Weeks), Deduct	*-5.90*	
01 22 23 00-0664	Day	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	22.49	
		For Half Day Usage, Deduct	*-7.03*	
01 22 23 00-0665	WK	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	56.23	
01 22 23 00-0666	MO	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	168.70	
		For >6 Months (>26 Weeks), Deduct	*-6.75*	
01 22 23 00-0667	Day	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	25.85	
		For Half Day Usage, Deduct	*-8.08*	
01 22 23 00-0668	WK	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	64.62	
01 22 23 00-0669	MO	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	193.86	
		For >6 Months (>26 Weeks), Deduct	*-7.75*	
01 22 23 00-0670	Day	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	19.89	
		For Half Day Usage, Deduct	*-6.22*	
01 22 23 00-0671	WK	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	49.72	
01 22 23 00-0672	MO	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	149.16	
		For >6 Months (>26 Weeks), Deduct	*-5.97*	
01 22 23 00-0673	Day	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	26.93	
		For Half Day Usage, Deduct	*-8.42*	
01 22 23 00-0674	WK	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	67.31	
01 22 23 00-0675	MO	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	201.94	
		For >6 Months (>26 Weeks), Deduct	*-8.08*	
01 22 23 00-0676	Day	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	23.28	
		For Half Day Usage, Deduct	*-7.28*	
01 22 23 00-0677	WK	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	58.20	
01 22 23 00-0678	MO	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	174.60	
		For >6 Months (>26 Weeks), Deduct	*-6.98*	
01 22 23 00-0679	Day	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	38.83	
		For Half Day Usage, Deduct	*-12.13*	
01 22 23 00-0680	WK	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	97.07	
01 22 23 00-0681	MO	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	291.20	
		For >6 Months (>26 Weeks), Deduct	*-11.65*	
01 22 23 00-0682	Day	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	41.39	
		For Half Day Usage, Deduct	*-12.93*	
01 22 23 00-0683	WK	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	103.47	
01 22 23 00-0684	MO	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	310.40	
		For >6 Months (>26 Weeks), Deduct	*-12.42*	

01 22 23 00-0685 Truck Mounted Vacuum Excavator *(01 22 23 00-0278)*

Note: Includes driver, delivery, and removal.

01 22 23 00-0686	DAY	Truck Mounted Vacuum Excavator With Full-time Operator	8,684.65	
		For Half Day Usage, Deduct	*-2,910.64*	

01 22 23 00-0687 Electrical Equipment *(01 22 23)*

01 22 23 00-0688 Tripod Mounted Floodlights *(01 22 23 00-0687)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0689	DAY	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	66.52	
		For Half Day Usage, Deduct	*-20.79*	
01 22 23 00-0690	WK	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	157.37	
01 22 23 00-0691	MO	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	332.59	
		For >6 Months (>26 Weeks), Deduct	*-13.30*	
01 22 23 00-0692	DAY	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	66.52	
		For Half Day Usage, Deduct	*-20.79*	
01 22 23 00-0693	WK	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	194.69	
01 22 23 00-0694	MO	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	575.95	
		For >6 Months (>26 Weeks), Deduct	*-23.04*	
01 22 23 00-0695	DAY	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	74.63	
		For Half Day Usage, Deduct	*-23.32*	
01 22 23 00-0696	WK	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	202.80	
01 22 23 00-0697	MO	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	494.83	
		For >6 Months (>26 Weeks), Deduct	*-19.79*	

01 22 23 00-0698 Trailer Mounted Floodlights *(01 22 23 00-0687)*

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-0699	DAY	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	186.58	
		For Half Day Usage, Deduct	*-58.31*	
01 22 23 00-0700	WK	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	413.71	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0701	MO	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	892.32	
		For >6 Months (>26 Weeks), Deduct	*-35.69*	

01 22 23 00-0702 Generator Sets *(01 22 23 00-0687)*

01 22 23 00-0703 Portable, Gas Powered Generator Sets *(01 22 23 00-0702)*

Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0890 for reimbursable fuel fees.

01 22 23 00-0704	DAY	3.6 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 0.54 gallons per hour	53.75	
		For LP Or NG Gas, Add	*6.72*	
		For Half Day Usage, Deduct	*-16.80*	
01 22 23 00-0705	WK	3.6 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 0.54 gallons per hour	193.73	
		For LP Or NG Gas, Add	*24.22*	
01 22 23 00-0706	MO	3.6 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 0.54 gallons per hour	537.46	
		For LP Or NG Gas, Add	*67.18*	
		For >6 Months (>26 Weeks), Deduct	*-21.50*	
01 22 23 00-0707	DAY	5 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 0.75 gallons per hour	76.24	
		For LP Or NG Gas, Add	*9.53*	
		For Half Day Usage, Deduct	*-23.83*	
01 22 23 00-0708	WK	5 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 0.75 gallons per hour	243.73	
		For LP Or NG Gas, Add	*30.47*	
01 22 23 00-0709	MO	5 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 0.75 gallons per hour	556.21	
		For LP Or NG Gas, Add	*69.53*	
		For >6 Months (>26 Weeks), Deduct	*-22.25*	
01 22 23 00-0710	DAY	6.5 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 0.975 gallons per hour	97.49	
		For LP Or NG Gas, Add	*12.19*	
		For Half Day Usage, Deduct	*-30.47*	
01 22 23 00-0711	WK	6.5 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 0.975 gallons per hour	262.48	
		For LP Or NG Gas, Add	*32.81*	
01 22 23 00-0712	MO	6.5 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 0.975 gallons per hour	724.94	
		For LP Or NG Gas, Add	*90.62*	
		For >6 Months (>26 Weeks), Deduct	*-29.00*	
01 22 23 00-0713	DAY	10 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 1.35 gallons per hour	108.74	
		For LP Or NG Gas, Add	*13.59*	
		For Half Day Usage, Deduct	*-33.98*	
01 22 23 00-0714	WK	10 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 1.35 gallons per hour	293.73	
		For LP Or NG Gas, Add	*36.72*	
01 22 23 00-0715	MO	10 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 1.35 gallons per hour	843.68	
		For LP Or NG Gas, Add	*105.46*	
		For >6 Months (>26 Weeks), Deduct	*-33.75*	
01 22 23 00-0716	DAY	15 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 1.70 gallons per hour	199.11	
		For LP Or NG Gas, Add	*24.89*	
		For Half Day Usage, Deduct	*-62.22*	
01 22 23 00-0717	WK	15 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 1.6 gallons per hour	565.63	
		For LP Or NG Gas, Add	*70.70*	
01 22 23 00-0718	MO	15 KW Gas Powered Generator Set Note: Fuel consumption: 100% load – 1.6 gallons per hour	1,221.78	
		For LP Or NG Gas, Add	*152.72*	
		For >6 Months (>26 Weeks), Deduct	*-48.87*	

01 22 23 00-0719 Towable, Diesel Powered Generator Sets *(01 22 23 00-0702)*

Note: Includes 24 hour day-tank on sizes up to 180 KW, 40 hour day-tank for sizes greater than 180 KW To 300 KW and 1,000 gallon for sizes greater than 300 KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0890 for reimbursable fuel fees.

01 22 23 00-0720	DAY	20 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.	223.73	
		For >8 To 16 Hours Usage Per Day, Add	*89.49*	
		For >16 To 24 Hours Usage Per Day, Add	*178.98*	
		For Tier 4 Diesel Generator, Add	*81.66*	
01 22 23 00-0721	WK	20 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.	584.95	
		For >40 To 80 Hours Usage Per Week, Add	*233.98*	
		For >80 Hours Usage Per Week, Add	*467.96*	
		For Tier 4 Diesel Generator, Add	*213.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0722	MO	20 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.	1,593.62	
		For >160 To 320 Hours Usage Per Month, Add	*637.45*	
		For >320 Hours Usage Per Month, Add	*1,274.90*	
		For >6 Months (>26 Weeks), Deduct	*-63.74*	
		For Tier 4 Diesel Generator, Add	*581.67*	
01 22 23 00-0723	DAY	30 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.	387.31	
		For >8 To 16 Hours Usage Per Day, Add	*154.92*	
		For >16 To 24 Hours Usage Per Day, Add	*309.85*	
		For Tier 4 Diesel Generator, Add	*141.37*	
01 22 23 00-0724	WK	30 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.	1,149.45	
		For >40 To 80 Hours Usage Per Week, Add	*459.78*	
		For >80 Hours Usage Per Week, Add	*919.56*	
		For Tier 4 Diesel Generator, Add	*419.55*	
01 22 23 00-0725	MO	30 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.	2,373.86	
		For >160 To 320 Hours Usage Per Month, Add	*949.54*	
		For >320 Hours Usage Per Month, Add	*1,899.09*	
		For >6 Months (>26 Weeks), Deduct	*-94.95*	
		For Tier 4 Diesel Generator, Add	*866.46*	
01 22 23 00-0726	DAY	40.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.	424.80	
		For >8 To 16 Hours Usage Per Day, Add	*169.92*	
		For >16 To 24 Hours Usage Per Day, Add	*339.84*	
		For Tier 4 Diesel Generator, Add	*155.05*	
01 22 23 00-0727	WK	40.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.	1,186.93	
		For >40 To 80 Hours Usage Per Week, Add	*474.77*	
		For >80 Hours Usage Per Week, Add	*949.54*	
		For Tier 4 Diesel Generator, Add	*433.23*	
01 22 23 00-0728	MO	40.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.	2,623.74	
		For >160 To 320 Hours Usage Per Month, Add	*1,049.50*	
		For >320 Hours Usage Per Month, Add	*2,098.99*	
		For >6 Months (>26 Weeks), Deduct	*-104.95*	
		For Tier 4 Diesel Generator, Add	*957.67*	
01 22 23 00-0729	DAY	55.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.	456.03	
		For >8 To 16 Hours Usage Per Day, Add	*182.41*	
		For >16 To 24 Hours Usage Per Day, Add	*364.82*	
		For Tier 4 Diesel Generator, Add	*166.45*	
01 22 23 00-0730	WK	55.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.	1,249.40	
		For >40 To 80 Hours Usage Per Week, Add	*499.76*	
		For >80 Hours Usage Per Week, Add	*999.52*	
		For Tier 4 Diesel Generator, Add	*456.03*	
01 22 23 00-0731	MO	55.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.	2,998.56	
		For >160 To 320 Hours Usage Per Month, Add	*1,199.42*	
		For >320 Hours Usage Per Month, Add	*2,398.85*	
		For >6 Months (>26 Weeks), Deduct	*-119.94*	
		For Tier 4 Diesel Generator, Add	*1,094.47*	
01 22 23 00-0732	DAY	70.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.	499.76	
		For >8 To 16 Hours Usage Per Day, Add	*199.90*	
		For >16 To 24 Hours Usage Per Day, Add	*399.81*	
		For Tier 4 Diesel Generator, Add	*182.41*	
01 22 23 00-0733	WK	70.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.	1,418.07	
		For >40 To 80 Hours Usage Per Week, Add	*567.23*	
		For >80 Hours Usage Per Week, Add	*1,134.46*	
		For Tier 4 Diesel Generator, Add	*517.60*	
01 22 23 00-0734	MO	70.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.	3,373.38	
		For >160 To 320 Hours Usage Per Month, Add	*1,349.35*	
		For >320 Hours Usage Per Month, Add	*2,698.70*	
		For >6 Months (>26 Weeks), Deduct	*-134.94*	
		For Tier 4 Diesel Generator, Add	*1,231.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0735	DAY	80.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.	562.23	
		For >8 To 16 Hours Usage Per Day, Add	*224.89*	
		For >16 To 24 Hours Usage Per Day, Add	*449.78*	
		For Tier 4 Diesel Generator, Add	*205.21*	
01 22 23 00-0736	WK	80.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.	1,499.28	
		For >40 To 80 Hours Usage Per Week, Add	*599.71*	
		For >80 Hours Usage Per Week, Add	*1,199.42*	
		For Tier 4 Diesel Generator, Add	*547.24*	
01 22 23 00-0737	MO	80.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.	3,748.20	
		For >160 To 320 Hours Usage Per Month, Add	*1,499.28*	
		For >320 Hours Usage Per Month, Add	*2,998.56*	
		For >6 Months (>26 Weeks), Deduct	*-149.93*	
		For Tier 4 Diesel Generator, Add	*1,368.09*	
01 22 23 00-0738	DAY	100.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.	580.97	
		For >8 To 16 Hours Usage Per Day, Add	*232.39*	
		For >16 To 24 Hours Usage Per Day, Add	*464.78*	
		For Tier 4 Diesel Generator, Add	*183.01*	
01 22 23 00-0739	WK	100.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.	1,561.75	
		For >40 To 80 Hours Usage Per Week, Add	*624.70*	
		For >80 Hours Usage Per Week, Add	*1,249.40*	
		For Tier 4 Diesel Generator, Add	*491.95*	
01 22 23 00-0740	MO	100.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.	4,247.96	
		For >160 To 320 Hours Usage Per Month, Add	*1,699.18*	
		For >320 Hours Usage Per Month, Add	*3,398.37*	
		For >6 Months (>26 Weeks), Deduct	*-169.92*	
		For Tier 4 Diesel Generator, Add	*1,338.11*	
01 22 23 00-0741	DAY	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.	655.94	
		For >8 To 16 Hours Usage Per Day, Add	*262.38*	
		For >16 To 24 Hours Usage Per Day, Add	*524.75*	
		For Tier 4 Diesel Generator, Add	*206.62*	
01 22 23 00-0742	WK	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.	1,811.63	
		For >40 To 80 Hours Usage Per Week, Add	*724.65*	
		For >80 Hours Usage Per Week, Add	*1,449.30*	
		For Tier 4 Diesel Generator, Add	*570.66*	
01 22 23 00-0743	MO	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.	4,872.66	
		For >160 To 320 Hours Usage Per Month, Add	*1,949.06*	
		For >320 Hours Usage Per Month, Add	*3,898.13*	
		For >6 Months (>26 Weeks), Deduct	*-194.91*	
		For Tier 4 Diesel Generator, Add	*1,534.89*	
01 22 23 00-0744	DAY	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.	687.17	
		For >8 To 16 Hours Usage Per Day, Add	*274.87*	
		For >16 To 24 Hours Usage Per Day, Add	*549.74*	
		For Tier 4 Diesel Generator, Add	*216.46*	
01 22 23 00-0745	WK	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.	1,905.34	
		For >40 To 80 Hours Usage Per Week, Add	*762.14*	
		For >80 Hours Usage Per Week, Add	*1,524.27*	
		For Tier 4 Diesel Generator, Add	*600.18*	
01 22 23 00-0746	MO	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.	5,372.42	
		For >160 To 320 Hours Usage Per Month, Add	*2,148.97*	
		For >320 Hours Usage Per Month, Add	*4,297.94*	
		For >6 Months (>26 Weeks), Deduct	*-214.90*	
		For Tier 4 Diesel Generator, Add	*1,692.31*	
01 22 23 00-0747	DAY	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.	718.40	
		For >8 To 16 Hours Usage Per Day, Add	*287.36*	
		For >16 To 24 Hours Usage Per Day, Add	*574.72*	
		For Tier 4 Diesel Generator, Add	*226.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0748	WK	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.	2,061.51	
		For >40 To 80 Hours Usage Per Week, Add	*824.60*	
		For >80 Hours Usage Per Week, Add	*1,649.21*	
		For Tier 4 Diesel Generator, Add	*649.38*	
01 22 23 00-0749	MO	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.	5,622.30	
		For >160 To 320 Hours Usage Per Month, Add	*2,248.92*	
		For >320 Hours Usage Per Month, Add	*4,497.84*	
		For >6 Months (>26 Weeks), Deduct	*-224.89*	
		For Tier 4 Diesel Generator, Add	*1,771.02*	
01 22 23 00-0750	DAY	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.	749.64	
		For >8 To 16 Hours Usage Per Day, Add	*299.86*	
		For >16 To 24 Hours Usage Per Day, Add	*599.71*	
		For Tier 4 Diesel Generator, Add	*236.14*	
01 22 23 00-0751	WK	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.	2,186.45	
		For >40 To 80 Hours Usage Per Week, Add	*874.58*	
		For >80 Hours Usage Per Week, Add	*1,749.16*	
		For Tier 4 Diesel Generator, Add	*688.73*	
01 22 23 00-0752	MO	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.	5,872.18	
		For >160 To 320 Hours Usage Per Month, Add	*2,348.87*	
		For >320 Hours Usage Per Month, Add	*4,697.74*	
		For >6 Months (>26 Weeks), Deduct	*-234.89*	
		For Tier 4 Diesel Generator, Add	*1,849.74*	
01 22 23 00-0753	DAY	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.	749.64	
		For >8 To 16 Hours Usage Per Day, Add	*299.86*	
		For >16 To 24 Hours Usage Per Day, Add	*599.71*	
		For Tier 4 Diesel Generator, Add	*236.14*	
01 22 23 00-0754	WK	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.	2,186.45	
		For >40 To 80 Hours Usage Per Week, Add	*874.58*	
		For >80 Hours Usage Per Week, Add	*1,749.16*	
		For Tier 4 Diesel Generator, Add	*688.73*	
01 22 23 00-0755	MO	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.	5,872.18	
		For >160 To 320 Hours Usage Per Month, Add	*2,348.87*	
		For >320 Hours Usage Per Month, Add	*4,697.74*	
		For >6 Months (>26 Weeks), Deduct	*-234.89*	
		For Tier 4 Diesel Generator, Add	*1,849.74*	
01 22 23 00-0756	DAY	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.	1,030.76	
		For >8 To 16 Hours Usage Per Day, Add	*412.30*	
		For >16 To 24 Hours Usage Per Day, Add	*824.61*	
		For Tier 4 Diesel Generator, Add	*324.69*	
01 22 23 00-0757	WK	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.	2,561.27	
		For >40 To 80 Hours Usage Per Week, Add	*1,024.51*	
		For >80 Hours Usage Per Week, Add	*2,049.02*	
		For Tier 4 Diesel Generator, Add	*806.80*	
01 22 23 00-0758	MO	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.	7,496.40	
		For >160 To 320 Hours Usage Per Month, Add	*2,998.56*	
		For >320 Hours Usage Per Month, Add	*5,997.12*	
		For >6 Months (>26 Weeks), Deduct	*-299.86*	
		For Tier 4 Diesel Generator, Add	*2,361.37*	
01 22 23 00-0759	DAY	250.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.	1,093.22	
		For >8 To 16 Hours Usage Per Day, Add	*437.29*	
		For >16 To 24 Hours Usage Per Day, Add	*874.58*	
		For Tier 4 Diesel Generator, Add	*295.17*	
01 22 23 00-0760	WK	250.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.	2,623.74	
		For >40 To 80 Hours Usage Per Week, Add	*1,049.50*	
		For >80 Hours Usage Per Week, Add	*2,098.99*	
		For Tier 4 Diesel Generator, Add	*708.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0761	MO	250.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.	7,746.28	
		For >160 To 320 Hours Usage Per Month, Add	*3,098.51*	
		For >320 Hours Usage Per Month, Add	*6,197.02*	
		For >6 Months (>26 Weeks), Deduct	*-309.85*	
		For Tier 4 Diesel Generator, Add	*2,091.50*	
01 22 23 00-0762	DAY	275.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.	1,155.70	
		For >8 To 16 Hours Usage Per Day, Add	*462.28*	
		For >16 To 24 Hours Usage Per Day, Add	*924.56*	
		For Tier 4 Diesel Generator, Add	*312.04*	
01 22 23 00-0763	WK	275.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.	2,686.21	
		For >40 To 80 Hours Usage Per Week, Add	*1,074.48*	
		For >80 Hours Usage Per Week, Add	*2,148.97*	
		For Tier 4 Diesel Generator, Add	*725.28*	
01 22 23 00-0764	MO	275.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.	7,996.16	
		For >160 To 320 Hours Usage Per Month, Add	*3,198.46*	
		For >320 Hours Usage Per Month, Add	*6,396.93*	
		For >6 Months (>26 Weeks), Deduct	*-319.85*	
		For Tier 4 Diesel Generator, Add	*2,158.96*	
01 22 23 00-0765	DAY	300.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.	1,193.18	
		For >8 To 16 Hours Usage Per Day, Add	*477.27*	
		For >16 To 24 Hours Usage Per Day, Add	*954.54*	
		For Tier 4 Diesel Generator, Add	*322.16*	
01 22 23 00-0766	WK	300.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.	2,873.62	
		For >40 To 80 Hours Usage Per Week, Add	*1,149.45*	
		For >80 Hours Usage Per Week, Add	*2,298.90*	
		For Tier 4 Diesel Generator, Add	*775.88*	
01 22 23 00-0767	MO	300.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.	8,495.92	
		For >160 To 320 Hours Usage Per Month, Add	*3,398.37*	
		For >320 Hours Usage Per Month, Add	*6,796.74*	
		For >6 Months (>26 Weeks), Deduct	*-339.84*	
		For Tier 4 Diesel Generator, Add	*2,293.90*	
01 22 23 00-0768	DAY	350.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.	1,249.40	
		For >8 To 16 Hours Usage Per Day, Add	*499.76*	
		For >16 To 24 Hours Usage Per Day, Add	*999.52*	
		For Tier 4 Diesel Generator, Add	*337.34*	
01 22 23 00-0769	WK	350.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.	3,248.44	
		For >40 To 80 Hours Usage Per Week, Add	*1,299.38*	
		For >80 Hours Usage Per Week, Add	*2,598.75*	
		For Tier 4 Diesel Generator, Add	*877.08*	
01 22 23 00-0770	MO	350.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.	9,370.50	
		For >160 To 320 Hours Usage Per Month, Add	*3,748.20*	
		For >320 Hours Usage Per Month, Add	*7,496.40*	
		For >6 Months (>26 Weeks), Deduct	*-374.82*	
		For Tier 4 Diesel Generator, Add	*2,530.04*	
01 22 23 00-0771	DAY	400.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.	2,108.92	
		For >8 To 16 Hours Usage Per Day, Add	*843.57*	
		For >16 To 24 Hours Usage Per Day, Add	*1,687.14*	
		For Tier 4 Diesel Generator, Add	*569.41*	
01 22 23 00-0772	WK	400.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.	5,452.56	
		For >40 To 80 Hours Usage Per Week, Add	*2,181.02*	
		For >80 Hours Usage Per Week, Add	*4,362.05*	
		For Tier 4 Diesel Generator, Add	*1,472.19*	
01 22 23 00-0773	MO	400.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.	14,420.00	
		For >160 To 320 Hours Usage Per Month, Add	*5,768.00*	
		For >320 Hours Usage Per Month, Add	*11,536.00*	
		For >6 Months (>26 Weeks), Deduct	*-576.80*	
		For Tier 4 Diesel Generator, Add	*3,893.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0774	DAY	500.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.	2,703.75	
		For >8 To 16 Hours Usage Per Day, Add	*1,081.50*	
		For >16 To 24 Hours Usage Per Day, Add	*2,163.00*	
		For Tier 4 Diesel Generator, Add	*730.01*	
01 22 23 00-0775	WK	500.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.	7,029.75	
		For >40 To 80 Hours Usage Per Week, Add	*2,811.90*	
		For >80 Hours Usage Per Week, Add	*5,623.80*	
		For Tier 4 Diesel Generator, Add	*1,898.03*	
01 22 23 00-0776	MO	500.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.	16,222.50	
		For >160 To 320 Hours Usage Per Month, Add	*6,489.00*	
		For >320 Hours Usage Per Month, Add	*12,978.00*	
		For >6 Months (>26 Weeks), Deduct	*-648.90*	
		For Tier 4 Diesel Generator, Add	*4,380.08*	
01 22 23 00-0777	DAY	640.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.	3,343.64	
		For >8 To 16 Hours Usage Per Day, Add	*1,337.46*	
		For >16 To 24 Hours Usage Per Day, Add	*2,674.91*	
		For Tier 4 Diesel Generator, Add	*819.19*	
01 22 23 00-0778	WK	640.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.	8,832.25	
		For >40 To 80 Hours Usage Per Week, Add	*3,532.90*	
		For >80 Hours Usage Per Week, Add	*7,065.80*	
		For Tier 4 Diesel Generator, Add	*2,163.90*	
01 22 23 00-0779	MO	640.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.	21,630.00	
		For >160 To 320 Hours Usage Per Month, Add	*8,652.00*	
		For >320 Hours Usage Per Month, Add	*17,304.00*	
		For >6 Months (>26 Weeks), Deduct	*-865.20*	
		For Tier 4 Diesel Generator, Add	*5,299.35*	
01 22 23 00-0780	DAY	750.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.	3,614.01	
		For >8 To 16 Hours Usage Per Day, Add	*1,445.60*	
		For >16 To 24 Hours Usage Per Day, Add	*2,891.21*	
		For Tier 4 Diesel Generator, Add	*885.43*	
01 22 23 00-0781	WK	750.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.	8,327.55	
		For >40 To 80 Hours Usage Per Week, Add	*3,331.02*	
		For >80 Hours Usage Per Week, Add	*6,662.04*	
		For Tier 4 Diesel Generator, Add	*2,040.25*	
01 22 23 00-0782	MO	750.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.	24,982.65	
		For >160 To 320 Hours Usage Per Month, Add	*9,993.06*	
		For >320 Hours Usage Per Month, Add	*19,986.12*	
		For >6 Months (>26 Weeks), Deduct	*-999.31*	
		For Tier 4 Diesel Generator, Add	*6,120.75*	
01 22 23 00-0783	DAY	1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.	4,100.69	
		For >8 To 16 Hours Usage Per Day, Add	*1,640.28*	
		For >16 To 24 Hours Usage Per Day, Add	*3,280.55*	
		For Tier 4 Diesel Generator, Add	*1,004.67*	
01 22 23 00-0784	WK	1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.	10,715.86	
		For >40 To 80 Hours Usage Per Week, Add	*4,286.34*	
		For >80 Hours Usage Per Week, Add	*8,572.69*	
		For Tier 4 Diesel Generator, Add	*2,625.39*	
01 22 23 00-0785	MO	1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.	29,353.71	
		For >160 To 320 Hours Usage Per Month, Add	*11,741.48*	
		For >320 Hours Usage Per Month, Add	*23,482.97*	
		For >6 Months (>26 Weeks), Deduct	*-1,174.15*	
		For Tier 4 Diesel Generator, Add	*7,191.66*	
01 22 23 00-0786	DAY	1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.	5,407.50	
		For >8 To 16 Hours Usage Per Day, Add	*2,163.00*	
		For >16 To 24 Hours Usage Per Day, Add	*4,326.00*	
		For Tier 4 Diesel Generator, Add	*1,000.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0787	WK	1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.	16,222.50	
		For >40 To 80 Hours Usage Per Week, Add	*6,489.00*	
		For >80 Hours Usage Per Week, Add	*12,978.00*	
		For Tier 4 Diesel Generator, Add	*3,001.16*	
01 22 23 00-0788	MO	1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.	46,513.51	
		For >160 To 320 Hours Usage Per Month, Add	*18,605.40*	
		For >320 Hours Usage Per Month, Add	*37,210.81*	
		For Tier 4 Diesel Generator, Add	*8,605.00*	
01 22 23 00-0789	DAY	2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.	7,128.89	
		For >8 To 16 Hours Usage Per Day, Add	*2,851.56*	
		For >16 To 24 Hours Usage Per Day, Add	*5,703.11*	
		For Tier 4 Diesel Generator, Add	*1,318.84*	
01 22 23 00-0790	WK	2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.	17,826.72	
		For >40 To 80 Hours Usage Per Week, Add	*7,130.69*	
		For >80 Hours Usage Per Week, Add	*14,261.38*	
		For Tier 4 Diesel Generator, Add	*3,297.94*	
01 22 23 00-0791	MO	2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.	48,667.50	
		For >160 To 320 Hours Usage Per Month, Add	*19,467.00*	
		For >320 Hours Usage Per Month, Add	*38,934.00*	
		For >6 Months (>26 Weeks), Deduct	*-1,946.70*	
		For Tier 4 Diesel Generator, Add	*9,003.49*	
01 22 23 00-0792	EA	Delivery, Set-up, Testing And Pick-up For Up To 160 KW Towable Generator Set Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.	961.01	
01 22 23 00-0793	EA	Delivery, Set-up, Testing And Pick-up For 175 To 300 KW Towable Generator Set Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.	1,304.07	
01 22 23 00-0794	EA	Delivery, Set-up, Testing And Pick-up For 350 To 450 KW Towable Generator Set Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.	1,697.12	
01 22 23 00-0795	EA	Delivery, Set-up, Testing And Pick-up For 500 To 750 KW Towable Generator Set Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.	2,149.25	
01 22 23 00-0796	EA	Delivery, Set-up, Testing And Pick-up For 1,000 To 2,000 KW Towable Generator Set Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.	2,969.43	

01 22 23 00-0797 Generator Accessories *(01 22 23 00-0702)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0798 Step Down Transformer *(01 22 23 00-0797)*

01 22 23 00-0799	WK	75 KVA, 480-208 Volt, Step Down Transformer	368.57	
01 22 23 00-0800	MO	75 KVA, 480-208 Volt, Step Down Transformer	1,030.76	
		For >6 Months (>26 Weeks), Deduct	*-41.23*	
01 22 23 00-0801	WK	150 KVA, 480-208 Volt, Step Down Transformer	590.97	
01 22 23 00-0802	MO	150 KVA, 480-208 Volt, Step Down Transformer	1,771.65	
		For >6 Months (>26 Weeks), Deduct	*-70.87*	
01 22 23 00-0803	WK	225 KVA, 480-208 Volt, Step Down Transformer	787.12	
01 22 23 00-0804	MO	225 KVA, 480-208 Volt, Step Down Transformer	2,361.37	
		For >6 Months (>26 Weeks), Deduct	*-94.45*	
01 22 23 00-0805	WK	500 KVA, 480-208 Volt, Step Down Transformer	937.05	
01 22 23 00-0806	MO	500 KVA, 480-208 Volt, Step Down Transformer	2,811.15	
		For >6 Months (>26 Weeks), Deduct	*-112.45*	
01 22 23 00-0807	WK	1,000 KVA, 4,160/480 Volt, Step Down Transformer	1,399.33	
01 22 23 00-0808	MO	1,000 KVA, 4,160/480 Volt, Step Down Transformer	4,179.24	
		For >6 Months (>26 Weeks), Deduct	*-167.17*	
01 22 23 00-0809	WK	1,500 KVA, 4,160/480 Volt, Step Down Transformer	2,273.91	
01 22 23 00-0810	MO	1,500 KVA, 4,160/480 Volt, Step Down Transformer	6,815.48	
		For >6 Months (>26 Weeks), Deduct	*-272.62*	
01 22 23 00-0811	WK	2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	2,623.74	
01 22 23 00-0812	MO	2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	7,871.22	
		For >6 Months (>26 Weeks), Deduct	*-314.85*	

01 22 23 00-0813 Portable Panel *(01 22 23 00-0797)*

01 22 23 00-0814	WK	100 Amperes, Portable Panel	293.61	
01 22 23 00-0815	MO	100 Amperes, Portable Panel	749.64	
		For >6 Months (>26 Weeks), Deduct	*-29.99*	
01 22 23 00-0816	WK	200 Amperes, Portable Panel	351.08	
01 22 23 00-0817	MO	200 Amperes, Portable Panel	937.05	
		For >6 Months (>26 Weeks), Deduct	*-37.48*	
01 22 23 00-0818	WK	400 Amperes, Portable Panel	374.82	
01 22 23 00-0819	MO	400 Amperes, Portable Panel	1,124.46	
		For >6 Months (>26 Weeks), Deduct	*-44.98*	

01 22 23 00-0820 Portable Fusible Disconnect *(01 22 23 00-0797)*

01 22 23 00-0821	WK	100 - 200 Amperes, Portable Fusible Disconnect	131.19	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0822	MO	100 - 200 Amperes, Portable Fusible Disconnect	393.56	
		For >6 Months (>26 Weeks), Deduct	*-15.74*	
01 22 23 00-0823	WK	300 - 400 Amperes, Portable Fusible Disconnect	262.37	
01 22 23 00-0824	MO	300 - 400 Amperes, Portable Fusible Disconnect	787.12	
		For >6 Months (>26 Weeks), Deduct	*-31.48*	
01 22 23 00-0825		**Portable Transfer Switch** *(01 22 23 00-0797)*		
01 22 23 00-0826	WK	100 Amperes, 480 Volt, Portable Transfer Switch	393.56	
01 22 23 00-0827	MO	100 Amperes, 480 Volt, Portable Transfer Switch	1,180.68	
		For >6 Months (>26 Weeks), Deduct	*-47.23*	
01 22 23 00-0828	WK	200 Amperes, 480 Volt, Portable Transfer Switch	524.75	
01 22 23 00-0829	MO	200 Amperes, 480 Volt, Portable Transfer Switch	1,574.24	
		For >6 Months (>26 Weeks), Deduct	*-62.97*	
01 22 23 00-0830	WK	400 Amperes, 480 Volt, Portable Transfer Switch	655.94	
01 22 23 00-0831	MO	400 Amperes, 480 Volt, Portable Transfer Switch	1,967.80	
		For >6 Months (>26 Weeks), Deduct	*-78.71*	
01 22 23 00-0832		**Cabling For Generator Sets** *(01 22 23 00-0702)*		
		Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0833	DAY	#1 Banded Cable, 50' With Camlock Ends For Generator Set	27.49	
		For Half Day Usage, Deduct	*-8.59*	
01 22 23 00-0834	WK	#1 Banded Cable, 50' With Camlock Ends For Generator Set	48.10	
01 22 23 00-0835	MO	#1 Banded Cable, 50' With Camlock Ends For Generator Set	144.31	
		For >6 Months (>26 Weeks), Deduct	*-5.77*	
01 22 23 00-0836	DAY	50', 4/0 Cable With Camlock Ends For Generator Set	13.74	
		For Half Day Usage, Deduct	*-4.29*	
01 22 23 00-0837	WK	50', 4/0 Cable With Camlock Ends For Generator Set	39.98	
01 22 23 00-0838	MO	50', 4/0 Cable With Camlock Ends For Generator Set	111.20	
		For >6 Months (>26 Weeks), Deduct	*-4.45*	
01 22 23 00-0839		**Resistive Load Banks For Generator Sets** *(01 22 23 00-0702)*		
		Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0890 for reimbursable fuel fees.		
01 22 23 00-0840	DAY	100 KW A/C Resistive Load Bank	250.00	
01 22 23 00-0841	WK	100 KW A/C Resistive Load Bank	570.00	
01 22 23 00-0842	MO	100 KW A/C Resistive Load Bank	1,710.00	
		For >6 Months (>26 Weeks), Deduct	*-68.40*	
01 22 23 00-0843	DAY	250 KW A/C Resistive Load Bank	313.00	
01 22 23 00-0844	WK	250 KW A/C Resistive Load Bank	690.00	
01 22 23 00-0845	MO	250 KW A/C Resistive Load Bank	2,068.00	
01 22 23 00-0846	DAY	400 KW A/C Resistive Load Bank	390.00	
01 22 23 00-0847	WK	400 KW A/C Resistive Load Bank	835.00	
01 22 23 00-0848	MO	400 KW A/C Resistive Load Bank	2,505.00	
01 22 23 00-0849	DAY	500 KW A/C Resistive Load Bank	457.00	
01 22 23 00-0850	WK	500 KW A/C Resistive Load Bank	1,250.00	
01 22 23 00-0851	MO	500 KW A/C Resistive Load Bank	3,750.00	
01 22 23 00-0852	DAY	650 KW A/C Resistive Load Bank	517.00	
01 22 23 00-0853	WK	650 KW A/C Resistive Load Bank	1,565.00	
01 22 23 00-0854	MO	650 KW A/C Resistive Load Bank	4,695.00	
		For >6 Months (>26 Weeks), Deduct	*-187.80*	
01 22 23 00-0855	DAY	750 KW A/C Resistive Load Bank	549.00	
01 22 23 00-0856	WK	750 KW A/C Resistive Load Bank	1,733.00	
01 22 23 00-0857	MO	750 KW A/C Resistive Load Bank	5,199.00	
		For >6 Months (>26 Weeks), Deduct	*-207.96*	
01 22 23 00-0858	DAY	1,000 KW A/C Resistive Load Bank	597.00	
01 22 23 00-0859	WK	1,000 KW A/C Resistive Load Bank	1,985.00	
01 22 23 00-0860	MO	1,000 KW A/C Resistive Load Bank	5,955.00	
01 22 23 00-0861	DAY	1,250 KW A/C Resistive Load Bank	657.00	
01 22 23 00-0862	WK	1,250 KW A/C Resistive Load Bank	2,300.00	
01 22 23 00-0863	MO	1,250 KW A/C Resistive Load Bank	6,900.00	
01 22 23 00-0864	DAY	1,500 KW A/C Resistive Load Bank	1,191.00	
01 22 23 00-0865	WK	1,500 KW A/C Resistive Load Bank	4,096.00	
01 22 23 00-0866	MO	1,500 KW A/C Resistive Load Bank	13,337.00	
01 22 23 00-0867	DAY	2,000 KW A/C Resistive Load Bank	1,445.00	
01 22 23 00-0868	WK	2,000 KW A/C Resistive Load Bank	5,000.00	
01 22 23 00-0869	MO	2,000 KW A/C Resistive Load Bank	16,500.00	
01 22 23 00-0870	DAY	2,500 KW A/C Resistive Load Bank	1,964.00	
01 22 23 00-0871	WK	2,500 KW A/C Resistive Load Bank	6,875.00	
01 22 23 00-0872	MO	2,500 KW A/C Resistive Load Bank	20,625.00	
01 22 23 00-0873	DAY	3,000 KW A/C Resistive Load Bank	2,310.00	
01 22 23 00-0874	WK	3,000 KW A/C Resistive Load Bank	7,500.00	
01 22 23 00-0875	MO	3,000 KW A/C Resistive Load Bank	22,500.00	
01 22 23 00-0876		**Sub-Distribution Panels (Spider Box) For Generator Sets** *(01 22 23 00-0702)*		
		Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0877	DAY	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	67.47	
		For Half Day Usage, Deduct	*-21.08*	
01 22 23 00-0878	WK	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	174.92	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0879	MO	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	493.51	
		For >6 Months (>26 Weeks), Deduct	*-19.74*	

01 22 23 00-0880 Portable Distribution Panels For Generator Sets *(01 22 23 00-0702)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0881	DAY	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	149.93	
		For Half Day Usage, Deduct	*-46.85*	
01 22 23 00-0882	WK	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	406.06	
01 22 23 00-0883	MO	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	1,136.95	
		For >6 Months (>26 Weeks), Deduct	*-45.48*	
01 22 23 00-0884	DAY	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	122.44	
		For Half Day Usage, Deduct	*-38.26*	
01 22 23 00-0885	WK	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	318.60	
01 22 23 00-0886	MO	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	905.82	
		For >6 Months (>26 Weeks), Deduct	*-36.23*	
01 22 23 00-0887	DAY	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	156.18	
		For Half Day Usage, Deduct	*-48.81*	
01 22 23 00-0888	WK	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	393.56	
01 22 23 00-0889	MO	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	1,068.24	
		For >6 Months (>26 Weeks), Deduct	*-42.73*	

01 22 23 00-0890 Fuel Reimbursement For Generators *(01 22 23 00-0702)*

01 22 23 00-0891	EA	Fuel Reimbursement For Generators	1.00

Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is $1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = $125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.

01 22 23 00-0892 Welding Machines *(01 22 23 00-0687)*

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-0893 Diesel Powered Towable Welding Machines *(01 22 23 00-0892)*

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-0894	DAY	250 To 299 Amperes, Diesel Powered Towable Welding Machine	144.17	
		For Half Day Usage, Deduct	*-45.05*	
01 22 23 00-0895	WK	250 To 299 Amperes, Diesel Powered Towable Welding Machine	352.42	
01 22 23 00-0896	MO	250 To 299 Amperes, Diesel Powered Towable Welding Machine	841.00	
		For >6 Months (>26 Weeks), Deduct	*-33.64*	
01 22 23 00-0897	DAY	300 To 349 Amperes, Diesel Powered Towable Welding Machine	192.23	
		For Half Day Usage, Deduct	*-60.07*	
01 22 23 00-0898	WK	300 To 349 Amperes, Diesel Powered Towable Welding Machine	376.45	
01 22 23 00-0899	MO	300 To 349 Amperes, Diesel Powered Towable Welding Machine	879.44	
		For >6 Months (>26 Weeks), Deduct	*-35.18*	
01 22 23 00-0900	DAY	350 To 399 Amperes, Diesel Powered Towable Welding Machine	200.24	
		For Half Day Usage, Deduct	*-62.58*	
01 22 23 00-0901	WK	350 To 399 Amperes, Diesel Powered Towable Welding Machine	400.48	
01 22 23 00-0902	MO	350 To 399 Amperes, Diesel Powered Towable Welding Machine	977.16	
		For >6 Months (>26 Weeks), Deduct	*-39.09*	

01 22 23 00-0903 CC/CV Inverter Welder *(01 22 23 00-0892)*

Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0890 for reimbursable fuel fees.

01 22 23 00-0904	DAY	250 Amperes, CC Inverter Welder	44.85	
		For Half Day Usage, Deduct	*-14.02*	
01 22 23 00-0905	WK	250 Amperes, CC Inverter Welder	97.72	
01 22 23 00-0906	MO	250 Amperes, CC Inverter Welder	296.35	
		For >6 Months (>26 Weeks), Deduct	*-11.85*	
01 22 23 00-0907	DAY	300 Amperes, CC/CV Inverter Welder	51.26	
		For Half Day Usage, Deduct	*-16.02*	
01 22 23 00-0908	WK	300 Amperes, CC/CV Inverter Welder	136.16	
01 22 23 00-0909	MO	300 Amperes, CC/CV Inverter Welder	360.43	
		For >6 Months (>26 Weeks), Deduct	*-14.42*	
01 22 23 00-0910	DAY	350 Amperes, CC/CV Inverter Welder	52.86	
		For Half Day Usage, Deduct	*-16.52*	
01 22 23 00-0911	WK	350 Amperes, CC/CV Inverter Welder	139.37	
01 22 23 00-0912	MO	350 Amperes, CC/CV Inverter Welder	392.47	
		For >6 Months (>26 Weeks), Deduct	*-15.70*	

01 22 23 00-0913 MIG Welder *(01 22 23 00-0892)*

Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0890 for reimbursable fuel fees.

01 22 23 00-0914	DAY	115 Volt MIG Welder	76.89	
		For Half Day Usage, Deduct	*-24.03*	
01 22 23 00-0915	WK	115 Volt MIG Welder	200.24	
01 22 23 00-0916	MO	115 Volt MIG Welder	544.65	
		For >6 Months (>26 Weeks), Deduct	*-21.79*	

01 22 23 00-0917 General Equipment *(01 22 23)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0918		**Torch Burning** *(01 22 23 00-0917)*		
		Note: Includes delivery to job site, set-up, pick-up when complete and full time operator.		
01 22 23 00-0919	DAY	Torch Burning Package With Full Time Operator	998.25	
		Note: Includes torch set, regulator, hoses, oxygen tank and acetylene tank.		
		For Equipment Without Operator, Deduct	*-958.20*	
		For Half Day Usage, Deduct	*-491.62*	
01 22 23 00-0920	WK	Torch Burning Package With Full Time Operator	4,911.14	
		Note: Includes torch set, regulator, hoses, oxygen tank and acetylene tank.		
		For Equipment Without Operator, Deduct	*-4,791.00*	
01 22 23 00-0921	MO	Torch Burning Package With Full Time Operator	21,121.40	
		Note: Includes torch set, regulator, hoses, oxygen tank and acetylene tank.		
		For Equipment Without Operator, Deduct	*-20,760.97*	
		For >6 Months (>26 Weeks), Deduct	*-14.42*	
01 22 23 00-0922		**Mowers** *(01 22 23 00-0917)*		
		Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0923	DAY	21" Walk Behind Lawn Mower	99.20	
		For Half Day Usage, Deduct	*-31.00*	
01 22 23 00-0924	WK	21" Walk Behind Lawn Mower	285.19	
01 22 23 00-0925	MO	21" Walk Behind Lawn Mower	582.78	
		For >6 Months (>26 Weeks), Deduct	*-23.31*	
01 22 23 00-0926	DAY	32" Walk Behind Lawn Mower	124.00	
		For Half Day Usage, Deduct	*-38.75*	
01 22 23 00-0927	WK	32" Walk Behind Lawn Mower	297.59	
01 22 23 00-0928	MO	32" Walk Behind Lawn Mower	619.98	
		For >6 Months (>26 Weeks), Deduct	*-24.80*	
01 22 23 00-0929	DAY	36" To 48" Walk Behind Deck Mower	223.19	
		For Half Day Usage, Deduct	*-69.75*	
01 22 23 00-0930	WK	36" To 48" Walk Behind Deck Mower	619.98	
01 22 23 00-0931	MO	36" To 48" Walk Behind Deck Mower	1,797.93	
		For >6 Months (>26 Weeks), Deduct	*-71.92*	
01 22 23 00-0932	DAY	61" To 72" Walk Behind Deck Mower	223.19	
		For Half Day Usage, Deduct	*-69.75*	
01 22 23 00-0933	WK	61" To 72" Walk Behind Deck Mower	619.98	
01 22 23 00-0934	MO	61" To 72" Walk Behind Deck Mower	1,797.93	
		For >6 Months (>26 Weeks), Deduct	*-71.92*	
01 22 23 00-0935		**Jacks And Bracing** *(01 22 23 00-0917)*		
		Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0936		**Manual Hydraulic Jacks** *(01 22 23 00-0935)*		
01 22 23 00-0937	DAY	12 Ton Manual Hydraulic Bottle Jack	1.67	
		For Half Day Usage, Deduct	*-0.52*	
01 22 23 00-0938	WK	12 Ton Manual Hydraulic Bottle Jack	7.93	
01 22 23 00-0939	MO	12 Ton Manual Hydraulic Bottle Jack	28.50	
		For >6 Months (>26 Weeks), Deduct	*-1.14*	
01 22 23 00-0940	DAY	20 Ton Manual Hydraulic Bottle Jack	2.92	
		For Half Day Usage, Deduct	*-0.91*	
01 22 23 00-0941	WK	20 Ton Manual Hydraulic Bottle Jack	9.18	
01 22 23 00-0942	MO	20 Ton Manual Hydraulic Bottle Jack	34.76	
		For >6 Months (>26 Weeks), Deduct	*-1.39*	
01 22 23 00-0943	DAY	50 Ton Manual Hydraulic Bottle Jack	10.43	
		For Half Day Usage, Deduct	*-3.26*	
01 22 23 00-0944	WK	50 Ton Manual Hydraulic Bottle Jack	40.49	
01 22 23 00-0945	MO	50 Ton Manual Hydraulic Bottle Jack	145.66	
		For >6 Months (>26 Weeks), Deduct	*-5.83*	
01 22 23 00-0946	DAY	100 Ton Manual Hydraulic Bottle Jack	14.61	
		For Half Day Usage, Deduct	*-4.57*	
01 22 23 00-0947	WK	100 Ton Manual Hydraulic Bottle Jack	58.43	
01 22 23 00-0948	MO	100 Ton Manual Hydraulic Bottle Jack	210.46	
		For >6 Months (>26 Weeks), Deduct	*-8.42*	
01 22 23 00-0949		**Manual Screw Jacks** *(01 22 23 00-0935)*		
01 22 23 00-0950	DAY	10 To 20 Ton Manual Screw Jack	19.16	
		For Half Day Usage, Deduct	*-5.99*	
01 22 23 00-0951	WK	10 To 20 Ton Manual Screw Jack	50.71	
01 22 23 00-0952	MO	10 To 20 Ton Manual Screw Jack	152.12	
		For >6 Months (>26 Weeks), Deduct	*-6.08*	
01 22 23 00-0953		**Shores/Braces** *(01 22 23 00-0935)*		
01 22 23 00-0954	MO	Up To 5' Height, Adjustable Tubular Steel Shoring	15.78	
01 22 23 00-0955	MO	Up To 10' Height, Adjustable Tubular Steel Shoring	20.28	
01 22 23 00-0956	MO	>10' To 16' Height, Adjustable Tubular Steel Shoring	27.04	
01 22 23 00-0957	MO	Up To 10' Height, Adjustable Wood Shoring	6.42	
01 22 23 00-0958	MO	>10' To 16' Height, Adjustable Wood Shoring	8.56	
01 22 23 00-0959	EA	Erect And Strip Shores To 10'	11.99	
		For >20 To 50, Deduct	*-1.80*	
		For >50 To 100, Deduct	*-4.20*	
		For >100, Deduct	*-6.59*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0960	EA	Erect And Strip Shores To 13'	14.39	
		For >20 To 50, Deduct	*-2.16*	
		For >50 To 100, Deduct	*-5.04*	
		For >100, Deduct	*-7.91*	
01 22 23 00-0961	EA	Erect And Strip Shores To 16'	16.78	
		For >20 To 50, Deduct	*-2.52*	
		For >50 To 100, Deduct	*-5.87*	
		For >100, Deduct	*-9.23*	

01 22 23 00-0962 Pressure Washers *(01 22 23 00-0917)*

Note: Includes delivery to job site, pick-up when complete and full time operator.

01 22 23 00-0963	DAY	2,000 PSI Pressure Washer With Full-Time Operator	872.29	
		For Equipment Without Operator, Deduct	*-762.33*	
		For Half Day Usage, Deduct	*-415.53*	
01 22 23 00-0964	WK	2,000 PSI Pressure Washer With Full-Time Operator	4,090.79	
		For Equipment Without Operator, Deduct	*-3,811.66*	
01 22 23 00-0965	MO	2,000 PSI Pressure Washer With Full-Time Operator	17,227.69	
		For Equipment Without Operator, Deduct	*-16,517.18*	
		For >6 Months (>26 Weeks), Deduct	*-28.42*	
01 22 23 00-0966	DAY	2,500 PSI Pressure Washer With Full-Time Operator	872.29	
		For Equipment Without Operator, Deduct	*-762.33*	
		For Half Day Usage, Deduct	*-415.53*	
01 22 23 00-0967	WK	2,500 PSI Pressure Washer With Full-Time Operator	4,090.79	
		For Equipment Without Operator, Deduct	*-3,811.66*	
01 22 23 00-0968	MO	2,500 PSI Pressure Washer With Full-Time Operator	17,227.69	
		For Equipment Without Operator, Deduct	*-16,517.18*	
		For >6 Months (>26 Weeks), Deduct	*-28.42*	
01 22 23 00-0969	DAY	3,000 PSI Pressure Washer With Full-Time Operator	872.29	
		For Equipment Without Operator, Deduct	*-762.33*	
		For Half Day Usage, Deduct	*-415.53*	
01 22 23 00-0970	WK	3,000 PSI Pressure Washer With Full-Time Operator	4,090.79	
		For Equipment Without Operator, Deduct	*-3,811.66*	
01 22 23 00-0971	MO	3,000 PSI Pressure Washer With Full-Time Operator	17,227.69	
		For Equipment Without Operator, Deduct	*-16,517.18*	
		For >6 Months (>26 Weeks), Deduct	*-28.42*	
01 22 23 00-0972	DAY	3,500 PSI Pressure Washer With Full-Time Operator	880.75	
		For Equipment Without Operator, Deduct	*-762.33*	
		For Half Day Usage, Deduct	*-418.17*	
01 22 23 00-0973	WK	3,500 PSI Pressure Washer With Full-Time Operator	4,116.17	
		For Equipment Without Operator, Deduct	*-3,811.66*	
01 22 23 00-0974	MO	3,500 PSI Pressure Washer With Full-Time Operator	17,295.36	
		For Equipment Without Operator, Deduct	*-16,517.18*	
		For >6 Months (>26 Weeks), Deduct	*-31.13*	
01 22 23 00-0975	DAY	4,000 PSI Pressure Washer With Full-Time Operator	914.58	
		For Equipment Without Operator, Deduct	*-762.33*	
		For Half Day Usage, Deduct	*-428.74*	
01 22 23 00-0976	WK	4,000 PSI Pressure Washer With Full-Time Operator	4,226.13	
		For Equipment Without Operator, Deduct	*-3,811.66*	
01 22 23 00-0977	MO	4,000 PSI Pressure Washer With Full-Time Operator	17,675.99	
		For Equipment Without Operator, Deduct	*-16,517.18*	
		For >6 Months (>26 Weeks), Deduct	*-46.35*	
01 22 23 00-0978	DAY	5,000 PSI Pressure Washer With Full-Time Operator	931.50	
		For Equipment Without Operator, Deduct	*-762.33*	
		For Half Day Usage, Deduct	*-434.03*	
01 22 23 00-0979	WK	5,000 PSI Pressure Washer With Full-Time Operator	4,268.42	
		For Equipment Without Operator, Deduct	*-3,811.66*	
01 22 23 00-0980	MO	5,000 PSI Pressure Washer With Full-Time Operator	17,802.87	
		For Equipment Without Operator, Deduct	*-16,517.18*	
		For >6 Months (>26 Weeks), Deduct	*-51.43*	

01 22 23 00-0981 Confined Space Entry Equipment *(01 22 23 00-0917)*

Note: Includes delivery to job site, set-up, and pick-up when complete.

01 22 23 00-0982	DAY	Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	43.28	
		For Half Day Usage, Deduct	*-13.53*	
01 22 23 00-0983	WK	Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	129.84	
01 22 23 00-0984	MO	Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	387.47	
		For >6 Months (>26 Weeks), Deduct	*-15.50*	
01 22 23 00-0985	DAY	Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	67.81	
		For Half Day Usage, Deduct	*-21.19*	
01 22 23 00-0986	WK	Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	203.44	
01 22 23 00-0987	MO	Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	610.31	
		For >6 Months (>26 Weeks), Deduct	*-24.41*	
01 22 23 00-0988	DAY	Confined Space Air Monitor Personnel Note: Per person day.	762.33	
		For Half Day Usage, Deduct	*-381.17*	

01 22 23 00-0989 High Volume Vacuums *(01 22 23 00-0917)*

Note: Includes delivery to job site, set-up, pick-up when complete and full time operator.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0990	DAY	500 Gallon High Volume Vacuum With Full-Time Operator	1,606.40	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-690.35*	
01 22 23 00-0991	WK	500 Gallon High Volume Vacuum With Full-Time Operator	6,707.84	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-0992	MO	500 Gallon High Volume Vacuum With Full-Time Operator	27,542.55	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-231.12*	

01 22 23 00-0993 Portable Floor Drying Fans *(01 22 23 00-0917)*

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-0994	DAY	2,250 CFM Portable Floor Drying Fan	23.26	
		For Half Day Usage, Deduct	*-7.27*	
01 22 23 00-0995	WK	2,250 CFM Portable Floor Drying Fan	107.60	
01 22 23 00-0996	MO	2,250 CFM Portable Floor Drying Fan	356.23	
		For >6 Months (>26 Weeks), Deduct	*-14.25*	

01 22 23 00-0997 Portable Dehumidifiers *(01 22 23 00-0917)*

Note: Includes delivery to job site, set-up, and pick-up when complete. Excludes operator.

01 22 23 00-0998	DAY	7.5 To 10 Gallons Per Day, Portable Dehumidifier	187.14	
		For Half Day Usage, Deduct	*-58.48*	
01 22 23 00-0999	WK	7.5 To 10 Gallons Per Day, Portable Dehumidifier	601.52	
01 22 23 00-1000	MO	7.5 To 10 Gallons Per Day, Portable Dehumidifier	1,831.28	
		For >6 Months (>26 Weeks), Deduct	*-73.25*	
01 22 23 00-1001	DAY	16 To 25 Gallons Per Day, Portable Dehumidifier	334.18	
		For Half Day Usage, Deduct	*-104.43*	
01 22 23 00-1002	WK	16 To 25 Gallons Per Day, Portable Dehumidifier	1,002.52	
01 22 23 00-1003	MO	16 To 25 Gallons Per Day, Portable Dehumidifier	2,339.22	
		For >6 Months (>26 Weeks), Deduct	*-93.57*	

01 22 23 00-1004 Portable Fume Extractors *(01 22 23 00-0917)*

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-1005	DAY	Portable Fume Extractor	27.82	
		For Half Day Usage, Deduct	*-8.69*	
01 22 23 00-1006	WK	Portable Fume Extractor	83.47	

01 22 23 00-1007 Direct Fired Space Heaters *(01 22 23 00-0917)*

Note: Includes delivery to job site, set-up, and pick-up when complete. Excludes operator.

01 22 23 00-1008	DAY	150,000 BTU/Hour Space Heater	68.00	
		For Half Day Usage, Deduct	*-21.25*	
01 22 23 00-1009	WK	150,000 BTU/Hour Space Heater	195.50	
01 22 23 00-1010	MO	150,000 BTU/Hour Space Heater	552.50	
		For >6 Months (>26 Weeks), Deduct	*-22.10*	
01 22 23 00-1011	DAY	500,000 BTU/Hour Space Heater	144.50	
		For Half Day Usage, Deduct	*-45.16*	
01 22 23 00-1012	WK	500,000 BTU/Hour Space Heater	357.00	
01 22 23 00-1013	MO	500,000 BTU/Hour Space Heater	902.70	
		For >6 Months (>26 Weeks), Deduct	*-36.11*	

01 22 23 00-1014 Trailer Mounted Brush Chipper *(01 22 23 00-0917)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-1015	DAY	4" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	192.25	
		For Half Day Usage, Deduct	*-60.08*	
01 22 23 00-1016	WK	4" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	459.72	
01 22 23 00-1017	MO	4" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	1,412.59	
		For >6 Months (>26 Weeks), Deduct	*-56.50*	
01 22 23 00-1018	DAY	6" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	250.76	
		For Half Day Usage, Deduct	*-78.36*	
01 22 23 00-1019	WK	6" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	565.03	
01 22 23 00-1020	MO	6" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	1,504.53	
		For >6 Months (>26 Weeks), Deduct	*-60.18*	
01 22 23 00-1021	DAY	9" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	468.08	
		For Half Day Usage, Deduct	*-146.28*	
01 22 23 00-1022	WK	9" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	1,053.17	
01 22 23 00-1023	MO	9" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	2,808.46	
		For >6 Months (>26 Weeks), Deduct	*-112.34*	
01 22 23 00-1024	DAY	12" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	498.35	
		For Half Day Usage, Deduct	*-155.73*	
01 22 23 00-1025	WK	12" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	1,121.28	
01 22 23 00-1026	MO	12" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	2,990.09	
		For >6 Months (>26 Weeks), Deduct	*-119.60*	

01 22 23 00-1027 Marine Equipment *(01 22 23)*

01 22 23 00-1028 Barge And Tug Boat Rental *(01 22 23 00-1027)*

01 22 23 00-1029	DAY	50' Deck Cargo Barge	1,225.45	
		For Half Day Usage, Deduct	*-382.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1030	DAY	90' Deck Cargo Barge	1,739.70	
		For Half Day Usage, Deduct	*-543.66*	
01 22 23 00-1031	DAY	160' Deck Cargo Barge	2,560.31	
		For Half Day Usage, Deduct	*-800.10*	
01 22 23 00-1032	DAY	200' Deck Cargo Barge	3,884.23	
		For Half Day Usage, Deduct	*-1,213.82*	
01 22 23 00-1033	DAY	Barge Rental With Mounted Crane And Full-time Operator Note: Including barge.	2,808.19	
		For Half Day Usage, Deduct	*-1,074.24*	
01 22 23 00-1034	HR	250 HP Tug Boat With Operator	256.57	
01 22 23 00-1035	HR	400 HP Tug Boat With Operator	457.33	
01 22 23 00-1036	HR	500 To 800 HP Tug Boat With Operator	572.71	
01 22 23 00-1037	HR	16' Work Boat With Operator	136.64	
01 22 23 00-1038	HR	48' Work Boat With Operator	442.86	

01 22 23 00-1039 Manual Powered, Deck Cargo Barges *(01 22 23 00-1027)*

Note: Excludes captain and crew.

01 22 23 00-1040	DAY	50' Length, 35' Beam, 9' Depth, 313 Short Tons, Manual Powered, Deck Cargo Barge	1,281.54	
		For Half Day Usage, Deduct	*-400.48*	
01 22 23 00-1041	WK	50' Length, 35' Beam, 9' Depth, 313 Short Tons, Manual Powered, Deck Cargo Barge	5,104.80	
01 22 23 00-1042	MO	50' Length, 35' Beam, 9' Depth, 313 Short Tons, Manual Powered, Deck Cargo Barge	18,219.23	
		For >6 Months (>26 Weeks), Deduct	*-728.77*	
01 22 23 00-1043	HR	Operating Cost For 50' Length, 35' Beam, 9' Depth, 313 Short Tons, Manual Powered, Deck Cargo Barge	20.61	
01 22 23 00-1044	DAY	90' Length, 35' Beam, 9' Depth, 564 Short Tons, Manual Powered, Deck Cargo Barge	1,847.55	
		For Half Day Usage, Deduct	*-577.36*	
01 22 23 00-1045	WK	90' Length, 35' Beam, 9' Depth, 564 Short Tons, Manual Powered, Deck Cargo Barge	7,379.53	
01 22 23 00-1046	MO	90' Length, 35' Beam, 9' Depth, 564 Short Tons, Manual Powered, Deck Cargo Barge	26,357.01	
		For >6 Months (>26 Weeks), Deduct	*-1,054.28*	
01 22 23 00-1047	HR	Operating Cost For 90' Length, 35' Beam, 9' Depth, 564 Short Tons, Manual Powered, Deck Cargo Barge	38.55	
01 22 23 00-1048	DAY	120' Length, 45' Beam, 10' Depth, 1,074 Short Tons, Manual Powered, Deck Cargo Barge	2,264.05	
		For Half Day Usage, Deduct	*-707.52*	
01 22 23 00-1049	WK	120' Length, 45' Beam, 10' Depth, 1,074 Short Tons, Manual Powered, Deck Cargo Barge	9,056.22	
01 22 23 00-1050	MO	120' Length, 45' Beam, 10' Depth, 1,074 Short Tons, Manual Powered, Deck Cargo Barge	32,358.88	
		For >6 Months (>26 Weeks), Deduct	*-1,294.36*	
01 22 23 00-1051	HR	Operating Cost For 120' Length, 45' Beam, 10' Depth, 1,074 Short Tons, Manual Powered, Deck Cargo Barge	46.88	
01 22 23 00-1052	DAY	140' Length, 45' Beam, 10' Depth, 1,253 Short Tons, Manual Powered, Deck Cargo Barge	2,434.93	
		For Half Day Usage, Deduct	*-760.92*	
01 22 23 00-1053	WK	140' Length, 45' Beam, 10' Depth, 1,253 Short Tons, Manual Powered, Deck Cargo Barge	9,718.34	
01 22 23 00-1054	MO	140' Length, 45' Beam, 10' Depth, 1,253 Short Tons, Manual Powered, Deck Cargo Barge	34,708.38	
		For >6 Months (>26 Weeks), Deduct	*-1,388.34*	
01 22 23 00-1055	HR	Operating Cost For 140' Length, 45' Beam, 10' Depth, 1,253 Short Tons, Manual Powered, Deck Cargo Barge	52.12	
01 22 23 00-1056	DAY	160' Length, 45' Beam, 11' Depth, 1,575 Short Tons, Manual Powered, Deck Cargo Barge	2,723.27	
		For Half Day Usage, Deduct	*-851.02*	
01 22 23 00-1057	WK	160' Length, 45' Beam, 11' Depth, 1,575 Short Tons, Manual Powered, Deck Cargo Barge	10,893.09	
01 22 23 00-1058	MO	160' Length, 45' Beam, 11' Depth, 1,575 Short Tons, Manual Powered, Deck Cargo Barge	38,916.10	
		For >6 Months (>26 Weeks), Deduct	*-1,556.64*	
01 22 23 00-1059	HR	Operating Cost For 160' Length, 45' Beam, 11' Depth, 1,575 Short Tons, Manual Powered, Deck Cargo Barge	61.51	
01 22 23 00-1060	DAY	170' Length, 45' Beam, 11' Depth, 1,673 Short Tons, Manual Powered, Deck Cargo Barge	2,819.39	
		For Half Day Usage, Deduct	*-881.06*	
01 22 23 00-1061	WK	170' Length, 45' Beam, 11' Depth, 1,673 Short Tons, Manual Powered, Deck Cargo Barge	11,256.19	
01 22 23 00-1062	MO	170' Length, 45' Beam, 11' Depth, 1,673 Short Tons, Manual Powered, Deck Cargo Barge	40,197.64	
		For >6 Months (>26 Weeks), Deduct	*-1,607.91*	
01 22 23 00-1063	HR	Operating Cost For 170' Length, 45' Beam, 11' Depth, 1,673 Short Tons, Manual Powered, Deck Cargo Barge	64.29	
01 22 23 00-1064	DAY	200' Length, 60' Beam, 13' Depth, 3,102 Short Tons, Manual Powered, Deck Cargo Barge	4,132.97	
		For Half Day Usage, Deduct	*-1,291.55*	
01 22 23 00-1065	WK	200' Length, 60' Beam, 13' Depth, 3,102 Short Tons, Manual Powered, Deck Cargo Barge	16,510.51	
01 22 23 00-1066	MO	200' Length, 60' Beam, 13' Depth, 3,102 Short Tons, Manual Powered, Deck Cargo Barge	58,982.88	
		For >6 Months (>26 Weeks), Deduct	*-2,359.32*	
01 22 23 00-1067	HR	Operating Cost For 200' Length, 60' Beam, 13' Depth, 3,102 Short Tons, Manual Powered, Deck Cargo Barge	106.05	
01 22 23 00-1068	DAY	240' Length, 60' Beam, 17' Depth, 4,867 Short Tons, Manual Powered, Deck Cargo Barge	5,745.57	
		For Half Day Usage, Deduct	*-1,795.49*	
01 22 23 00-1069	WK	240' Length, 60' Beam, 17' Depth, 4,867 Short Tons, Manual Powered, Deck Cargo Barge	22,992.96	
01 22 23 00-1070	MO	240' Length, 60' Beam, 17' Depth, 4,867 Short Tons, Manual Powered, Deck Cargo Barge	82,125.36	
		For >6 Months (>26 Weeks), Deduct	*-3,285.01*	
01 22 23 00-1071	HR	Operating Cost For 240' Length, 60' Beam, 17' Depth, 4,867 Short Tons, Manual Powered, Deck Cargo Barge	157.52	
01 22 23 00-1072	DAY	280' Length, 75' Beam, 18' Depth, 7,516 Short Tons, Manual Powered, Deck Cargo Barge	8,191.18	
		For Half Day Usage, Deduct	*-2,559.74*	
01 22 23 00-1073	WK	280' Length, 75' Beam, 18' Depth, 7,516 Short Tons, Manual Powered, Deck Cargo Barge	32,743.35	
01 22 23 00-1074	MO	280' Length, 75' Beam, 18' Depth, 7,516 Short Tons, Manual Powered, Deck Cargo Barge	116,929.85	
		For >6 Months (>26 Weeks), Deduct	*-4,677.19*	
01 22 23 00-1075	HR	Operating Cost For 280' Length, 75' Beam, 18' Depth, 7,516 Short Tons, Manual Powered, Deck Cargo Barge	234.84	
01 22 23 00-1076	DAY	300' Length, 75' Beam, 25' Depth, 11,184 Short Tons, Manual Powered, Deck Cargo Barge	11,555.22	
		For Half Day Usage, Deduct	*-3,611.01*	
01 22 23 00-1077	WK	300' Length, 75' Beam, 25' Depth, 11,184 Short Tons, Manual Powered, Deck Cargo Barge	46,220.88	
01 22 23 00-1078	MO	300' Length, 75' Beam, 25' Depth, 11,184 Short Tons, Manual Powered, Deck Cargo Barge	165,073.03	
		For >6 Months (>26 Weeks), Deduct	*-6,602.92*	
01 22 23 00-1079	HR	Operating Cost For 300' Length, 75' Beam, 25' Depth, 11,184 Short Tons, Manual Powered, Deck Cargo Barge	341.85	

01 22 23 00-1080 Inland Tug Boats *(01 22 23 00-1027)*

Note: Excludes captain and crew.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1081	DAY	16' Length, 100 HP, Shallow Draft, Inland Tug Boat	363.10	
		For Half Day Usage, Deduct	*-113.47*	
01 22 23 00-1082	WK	16' Length, 100 HP, Shallow Draft, Inland Tug Boat	1,463.09	
01 22 23 00-1083	MO	16' Length, 100 HP, Shallow Draft, Inland Tug Boat	5,222.28	
		For >6 Months (>26 Weeks), Deduct	*-208.89*	
01 22 23 00-1084	HR	Operating Cost For 16' Length, 100 HP, Shallow Draft, Inland Tug Boat	61.51	
01 22 23 00-1085	DAY	22' Length, 115 HP, Shallow Draft, Inland Tug Boat	437.86	
		For Half Day Usage, Deduct	*-136.83*	
01 22 23 00-1086	WK	22' Length, 115 HP, Shallow Draft, Inland Tug Boat	1,740.76	
01 22 23 00-1087	MO	22' Length, 115 HP, Shallow Draft, Inland Tug Boat	6,215.47	
		For >6 Months (>26 Weeks), Deduct	*-248.62*	
01 22 23 00-1088	HR	Operating Cost For 22' Length, 115 HP, Shallow Draft, Inland Tug Boat	67.92	
01 22 23 00-1089	DAY	18' Length, 175 HP, With Steering Nozzle, Inland Tug Boat	544.65	
		For Half Day Usage, Deduct	*-170.20*	
01 22 23 00-1090	WK	18' Length, 175 HP, With Steering Nozzle, Inland Tug Boat	2,189.30	
01 22 23 00-1091	MO	18' Length, 175 HP, With Steering Nozzle, Inland Tug Boat	7,817.39	
		For >6 Months (>26 Weeks), Deduct	*-312.70*	
01 22 23 00-1092	HR	Operating Cost For 18' Length, 175 HP, With Steering Nozzle, Inland Tug Boat	89.71	
01 22 23 00-1093	DAY	26' Length, 250 HP, With Steering Nozzle, Inland Tug Boat	651.45	
		For Half Day Usage, Deduct	*-203.58*	
01 22 23 00-1094	WK	26' Length, 250 HP, With Steering Nozzle, Inland Tug Boat	2,616.48	
01 22 23 00-1095	MO	26' Length, 250 HP, With Steering Nozzle, Inland Tug Boat	9,333.88	
		For >6 Months (>26 Weeks), Deduct	*-373.36*	
01 22 23 00-1096	HR	Operating Cost For 26' Length, 250 HP, With Steering Nozzle, Inland Tug Boat	116.19	
01 22 23 00-1097	DAY	40' Length, 380 HP, Standard Ruder, Inland Tug Boat	1,965.03	
		For Half Day Usage, Deduct	*-614.07*	
01 22 23 00-1098	WK	40' Length, 380 HP, Standard Ruder, Inland Tug Boat	7,870.79	
01 22 23 00-1099	MO	40' Length, 380 HP, Standard Ruder, Inland Tug Boat	28,097.76	
		For >6 Months (>26 Weeks), Deduct	*-1,123.91*	
01 22 23 00-1100	HR	Operating Cost For 40' Length, 380 HP, Standard Ruder, Inland Tug Boat	261.54	
01 22 23 00-1101	DAY	51' Length, 700 HP, Twin Screw, Inland Tug Boat	2,541.72	
		For Half Day Usage, Deduct	*-794.29*	
01 22 23 00-1102	WK	51' Length, 700 HP, Twin Screw, Inland Tug Boat	10,177.56	
01 22 23 00-1103	MO	51' Length, 700 HP, Twin Screw, Inland Tug Boat	36,331.66	
		For >6 Months (>26 Weeks), Deduct	*-1,453.27*	
01 22 23 00-1104	HR	Operating Cost For 51' Length, 700 HP, Twin Screw, Inland Tug Boat	376.35	

01 22 23 00-1105 Flat Hull, Push Boats *(01 22 23 00-1027)*

Note: Excludes captain and crew.

01 22 23 00-1106	DAY	48' Length, 20' Beam, 6'-6" Draft, 400 HP, Flat Hull, Push Boat	2,114.54	
		For Half Day Usage, Deduct	*-660.79*	
01 22 23 00-1107	WK	48' Length, 20' Beam, 6'-6" Draft, 400 HP, Flat Hull, Push Boat	8,447.48	
01 22 23 00-1108	MO	48' Length, 20' Beam, 6'-6" Draft, 400 HP, Flat Hull, Push Boat	30,180.27	
		For >6 Months (>26 Weeks), Deduct	*-1,207.21*	
01 22 23 00-1109	HR	Operating Cost For 48' Length, 20' Beam, 6'-6" Draft, 400 HP, Flat Hull, Push Boat	293.79	
01 22 23 00-1110	DAY	45' Length, 16' Beam, 5'-0" Draft, 435 HP, Flat Hull, Push Boat	1,698.04	
		For Half Day Usage, Deduct	*-530.64*	
01 22 23 00-1111	WK	45' Length, 16' Beam, 5'-0" Draft, 435 HP, Flat Hull, Push Boat	6,802.84	
01 22 23 00-1112	MO	45' Length, 16' Beam, 5'-0" Draft, 435 HP, Flat Hull, Push Boat	24,285.18	
		For >6 Months (>26 Weeks), Deduct	*-971.41*	
01 22 23 00-1113	HR	Operating Cost For 45' Length, 16' Beam, 5'-0" Draft, 435 HP, Flat Hull, Push Boat	290.59	
01 22 23 00-1114	DAY	58' Length, 21' Beam, 6'-0" Draft, 435 HP, Flat Hull, Push Boat	2,990.26	
		For Half Day Usage, Deduct	*-934.46*	
01 22 23 00-1115	WK	58' Length, 21' Beam, 6'-0" Draft, 435 HP, Flat Hull, Push Boat	11,939.68	
01 22 23 00-1116	MO	58' Length, 21' Beam, 6'-0" Draft, 435 HP, Flat Hull, Push Boat	42,643.24	
		For >6 Months (>26 Weeks), Deduct	*-1,705.73*	
01 22 23 00-1117	HR	Operating Cost For 58' Length, 21' Beam, 6'-0" Draft, 435 HP, Flat Hull, Push Boat	372.61	
01 22 23 00-1118	DAY	54' Length, 21' Beam, 6'-0" Draft, 525 HP, Flat Hull, Push Boat	2,381.53	
		For Half Day Usage, Deduct	*-744.23*	
01 22 23 00-1119	WK	54' Length, 21' Beam, 6'-0" Draft, 525 HP, Flat Hull, Push Boat	9,526.11	
01 22 23 00-1120	MO	54' Length, 21' Beam, 6'-0" Draft, 525 HP, Flat Hull, Push Boat	34,035.57	
		For >6 Months (>26 Weeks), Deduct	*-1,361.42*	
01 22 23 00-1121	HR	Operating Cost For 54' Length, 21' Beam, 6'-0" Draft, 525 HP, Flat Hull, Push Boat	379.12	
01 22 23 00-1122	DAY	58' Length, 24' Beam, 7'-6" Draft, 705 HP, Flat Hull, Push Boat	3,032.98	
		For Half Day Usage, Deduct	*-947.81*	
01 22 23 00-1123	WK	58' Length, 24' Beam, 7'-6" Draft, 705 HP, Flat Hull, Push Boat	12,110.55	
01 22 23 00-1124	MO	58' Length, 24' Beam, 7'-6" Draft, 705 HP, Flat Hull, Push Boat	43,251.98	
		For >6 Months (>26 Weeks), Deduct	*-1,730.08*	
01 22 23 00-1125	HR	Operating Cost For 58' Length, 24' Beam, 7'-6" Draft, 705 HP, Flat Hull, Push Boat	451.21	
01 22 23 00-1126	DAY	64' Length, 25' Beam, 8'-0" Draft, 870 HP, Flat Hull, Push Boat	3,235.89	
		For Half Day Usage, Deduct	*-1,011.22*	
01 22 23 00-1127	WK	64' Length, 25' Beam, 8'-0" Draft, 870 HP, Flat Hull, Push Boat	12,954.23	
01 22 23 00-1128	MO	64' Length, 25' Beam, 8'-0" Draft, 870 HP, Flat Hull, Push Boat	46,252.91	
		For >6 Months (>26 Weeks), Deduct	*-1,850.12*	
01 22 23 00-1129	HR	Operating Cost For 64' Length, 25' Beam, 8'-0" Draft, 870 HP, Flat Hull, Push Boat	505.25	
01 22 23 00-1130	DAY	100' Length, 35' Beam, 8'-0" Draft, 1,950 HP, Flat Hull, Push Boat	5,863.05	
		For Half Day Usage, Deduct	*-1,832.20*	
01 22 23 00-1131	WK	100' Length, 35' Beam, 8'-0" Draft, 1,950 HP, Flat Hull, Push Boat	23,462.86	
01 22 23 00-1132	MO	100' Length, 35' Beam, 8'-0" Draft, 1,950 HP, Flat Hull, Push Boat	83,791.36	
		For >6 Months (>26 Weeks), Deduct	*-3,351.65*	
01 22 23 00-1133	HR	Operating Cost For 100' Length, 35' Beam, 8'-0" Draft, 1,950 HP, Flat Hull, Push Boat	1,099.24	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1134	DAY	138' Length, 35' Beam, 8'-6" Draft, 3,900 HP, Flat Hull, Push Boat	7,625.16	
		For Half Day Usage, Deduct	*-2,382.86*	
01 22 23 00-1135	WK	138' Length, 35' Beam, 8'-6" Draft, 3,900 HP, Flat Hull, Push Boat	30,479.29	
01 22 23 00-1136	MO	138' Length, 35' Beam, 8'-6" Draft, 3,900 HP, Flat Hull, Push Boat	108,866.82	
		For >6 Months (>26 Weeks), Deduct	*-4,354.67*	
01 22 23 00-1137	HR	Operating Cost For 138' Length, 35' Beam, 8'-6" Draft, 3,900 HP, Flat Hull, Push Boat	1,786.25	
01 22 23 00-1138	DAY	140' Length, 42' Beam, 8'-6" Draft, 3,900 HP, Flat Hull, Push Boat	15,164.89	
		For Half Day Usage, Deduct	*-4,739.03*	
01 22 23 00-1139	WK	140' Length, 42' Beam, 8'-6" Draft, 3,900 HP, Flat Hull, Push Boat	60,670.24	
01 22 23 00-1140	MO	140' Length, 42' Beam, 8'-6" Draft, 3,900 HP, Flat Hull, Push Boat	216,697.73	
		For >6 Months (>26 Weeks), Deduct	*-8,667.91*	
01 22 23 00-1141	HR	Operating Cost For 140' Length, 42' Beam, 8'-6" Draft, 3,900 HP, Flat Hull, Push Boat	2,067.55	
01 22 23 00-1142	DAY	140' Length, 54' Beam, 8'-9" Draft, 5,200 HP, Flat Hull, Push Boat	16,072.65	
		For Half Day Usage, Deduct	*-5,022.70*	
01 22 23 00-1143	WK	140' Length, 54' Beam, 8'-9" Draft, 5,200 HP, Flat Hull, Push Boat	64,301.27	
01 22 23 00-1144	MO	140' Length, 54' Beam, 8'-9" Draft, 5,200 HP, Flat Hull, Push Boat	229,651.97	
		For >6 Months (>26 Weeks), Deduct	*-9,186.08*	
01 22 23 00-1145	HR	Operating Cost For 140' Length, 54' Beam, 8'-9" Draft, 5,200 HP, Flat Hull, Push Boat	2,472.30	

01 22 23 00-1146 Steel Tow Boats *(01 22 23 00-1027)*

Note: Excludes captain and crew.

01 22 23 00-1147	DAY	55' Length, 20' Beam, 5'-0" Draft, 870 HP, Steel Tow Boat	2,573.76	
		For Half Day Usage, Deduct	*-804.30*	
01 22 23 00-1148	WK	55' Length, 20' Beam, 5'-0" Draft, 870 HP, Steel Tow Boat	10,273.68	
01 22 23 00-1149	MO	55' Length, 20' Beam, 5'-0" Draft, 870 HP, Steel Tow Boat	36,705.44	
		For >6 Months (>26 Weeks), Deduct	*-1,468.22*	
01 22 23 00-1150	HR	Operating Cost For 55' Length, 20' Beam, 5'-0" Draft, 870 HP, Steel Tow Boat	471.29	
01 22 23 00-1151	DAY	60' Length, 18' Beam, 5'-0" Draft, 1,050 HP, Steel Tow Boat	2,669.88	
		For Half Day Usage, Deduct	*-834.34*	
01 22 23 00-1152	WK	60' Length, 18' Beam, 5'-0" Draft, 1,050 HP, Steel Tow Boat	10,690.18	
01 22 23 00-1153	MO	60' Length, 18' Beam, 5'-0" Draft, 1,050 HP, Steel Tow Boat	38,189.89	
		For >6 Months (>26 Weeks), Deduct	*-1,527.60*	
01 22 23 00-1154	HR	Operating Cost For 60' Length, 18' Beam, 5'-0" Draft, 1,050 HP, Steel Tow Boat	524.26	
01 22 23 00-1155	DAY	60' Length, 21' Beam, 5'-0" Draft, 1,050 HP, Steel Tow Boat	2,915.50	
		For Half Day Usage, Deduct	*-911.09*	
01 22 23 00-1156	WK	60' Length, 21' Beam, 5'-0" Draft, 1,050 HP, Steel Tow Boat	11,651.33	
01 22 23 00-1157	MO	60' Length, 21' Beam, 5'-0" Draft, 1,050 HP, Steel Tow Boat	41,596.65	
		For >6 Months (>26 Weeks), Deduct	*-1,663.87*	
01 22 23 00-1158	HR	Operating Cost For 60' Length, 21' Beam, 5'-0" Draft, 1,050 HP, Steel Tow Boat	531.41	
01 22 23 00-1159	DAY	62' Length, 22' Beam, 5'-0" Draft, 870 HP, Steel Tow Boat	3,289.29	
		For Half Day Usage, Deduct	*-1,027.90*	
01 22 23 00-1160	WK	62' Length, 22' Beam, 5'-0" Draft, 870 HP, Steel Tow Boat	13,146.46	
01 22 23 00-1161	MO	62' Length, 22' Beam, 5'-0" Draft, 870 HP, Steel Tow Boat	46,936.40	
		For >6 Months (>26 Weeks), Deduct	*-1,877.46*	
01 22 23 00-1162	HR	Operating Cost For 62' Length, 22' Beam, 5'-0" Draft, 870 HP, Steel Tow Boat	492.75	
01 22 23 00-1163	DAY	65' Length, 22' Beam, 7'-6" Draft, 870 HP, Steel Tow Boat	4,570.83	
		For Half Day Usage, Deduct	*-1,428.38*	
01 22 23 00-1164	WK	65' Length, 22' Beam, 7'-6" Draft, 870 HP, Steel Tow Boat	18,283.30	
01 22 23 00-1165	MO	65' Length, 22' Beam, 7'-6" Draft, 870 HP, Steel Tow Boat	65,283.78	
		For >6 Months (>26 Weeks), Deduct	*-2,611.35*	
01 22 23 00-1166	HR	Operating Cost For 65' Length, 22' Beam, 7'-6" Draft, 870 HP, Steel Tow Boat	636.93	
01 22 23 00-1167	DAY	70' Length, 24' Beam, 7'-6" Draft, 1,350 HP, Steel Tow Boat	4,923.25	
		For Half Day Usage, Deduct	*-1,538.52*	
01 22 23 00-1168	WK	70' Length, 24' Beam, 7'-6" Draft, 1,350 HP, Steel Tow Boat	19,703.68	
01 22 23 00-1169	MO	70' Length, 24' Beam, 7'-6" Draft, 1,350 HP, Steel Tow Boat	70,377.90	
		For >6 Months (>26 Weeks), Deduct	*-2,815.12*	
01 22 23 00-1170	HR	Operating Cost For 70' Length, 24' Beam, 7'-6" Draft, 1,350 HP, Steel Tow Boat	780.67	
01 22 23 00-1171	DAY	70' Length, 30' Beam, 7'-6" Draft, 1,350 HP, Steel Tow Boat	5,275.67	
		For Half Day Usage, Deduct	*-1,648.65*	
01 22 23 00-1172	WK	70' Length, 30' Beam, 7'-6" Draft, 1,350 HP, Steel Tow Boat	21,081.33	
01 22 23 00-1173	MO	70' Length, 30' Beam, 7'-6" Draft, 1,350 HP, Steel Tow Boat	75,290.48	
		For >6 Months (>26 Weeks), Deduct	*-3,011.62*	
01 22 23 00-1174	HR	Operating Cost For 70' Length, 30' Beam, 7'-6" Draft, 1,350 HP, Steel Tow Boat	791.03	
01 22 23 00-1175	DAY	115' Length, 28' Beam, 8'-0" Draft, 1,950 HP, Steel Tow Boat	10,754.26	
		For Half Day Usage, Deduct	*-3,360.71*	
01 22 23 00-1176	WK	115' Length, 28' Beam, 8'-0" Draft, 1,950 HP, Steel Tow Boat	43,027.71	
01 22 23 00-1177	MO	115' Length, 28' Beam, 8'-0" Draft, 1,950 HP, Steel Tow Boat	153,688.68	
		For >6 Months (>26 Weeks), Deduct	*-6,147.55*	
01 22 23 00-1178	HR	Operating Cost For 115' Length, 28' Beam, 8'-0" Draft, 1,950 HP, Steel Tow Boat	1,261.25	
01 22 23 00-1179	DAY	120' Length, 34' Beam, 8'-0" Draft, 2,000 HP, Steel Tow Boat	12,505.69	
		For Half Day Usage, Deduct	*-3,908.03*	
01 22 23 00-1180	WK	120' Length, 34' Beam, 8'-0" Draft, 2,000 HP, Steel Tow Boat	50,022.78	
01 22 23 00-1181	MO	120' Length, 34' Beam, 8'-0" Draft, 2,000 HP, Steel Tow Boat	178,657.36	
		For >6 Months (>26 Weeks), Deduct	*-7,146.29*	
01 22 23 00-1182	HR	Operating Cost For 120' Length, 34' Beam, 8'-0" Draft, 2,000 HP, Steel Tow Boat	1,331.41	
01 22 23 00-1183	DAY	140' Length, 45' Beam, 8'-0" Draft, 5,250 HP, Steel Tow Boat	15,859.06	
		For Half Day Usage, Deduct	*-4,955.96*	
01 22 23 00-1184	WK	140' Length, 45' Beam, 8'-0" Draft, 5,250 HP, Steel Tow Boat	63,425.55	
01 22 23 00-1185	MO	140' Length, 45' Beam, 8'-0" Draft, 5,250 HP, Steel Tow Boat	226,533.55	
		For >6 Months (>26 Weeks), Deduct	*-9,061.34*	
01 22 23 00-1186	HR	Operating Cost For 140' Length, 45' Beam, 8'-0" Draft, 5,250 HP, Steel Tow Boat	2,722.10	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1187		**Material Handling Equipment** *(01 22 23)*		
01 22 23 00-1188		**Truck Mounted Hydraulic Cranes** *(01 22 23 00-1187)* Note: Includes full-time operator, delivery, set-up, rigging, all necessary counter weights and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-1189	DAY	6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,560.69	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-688.79*	
01 22 23 00-1190	WK	6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,841.26	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1191	MO	6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	27,687.59	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-178.08*	
01 22 23 00-1192	DAY	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,689.94	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-729.19*	
01 22 23 00-1193	WK	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,225.42	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1194	MO	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	28,836.47	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-224.03*	
01 22 23 00-1195	DAY	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,819.19	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-769.58*	
01 22 23 00-1196	WK	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,609.58	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1197	MO	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	29,985.35	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-269.99*	
01 22 23 00-1198	DAY	20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,991.52	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-823.43*	
01 22 23 00-1199	WK	20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	8,126.57	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1200	MO	20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	31,529.16	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-331.74*	
01 22 23 00-1201	DAY	30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,149.50	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-872.80*	
01 22 23 00-1202	WK	30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,196.47	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1203	MO	30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	34,735.97	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-460.01*	
01 22 23 00-1204	DAY	40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,522.88	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-989.48*	
01 22 23 00-1205	WK	40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,532.04	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1206	MO	40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	38,745.56	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-620.40*	
01 22 23 00-1207	DAY	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,759.84	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-1,063.53*	
01 22 23 00-1208	WK	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,364.98	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1209	MO	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	41,250.12	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-720.58*	
01 22 23 00-1210	DAY	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,946.53	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-1,121.87*	
01 22 23 00-1211	WK	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	12,039.94	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1212	MO	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	43,272.15	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-801.46*	
01 22 23 00-1213	DAY	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,133.22	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-1,180.21*	
01 22 23 00-1214	WK	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	12,714.91	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1215	MO	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	45,294.18	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-882.34*	
01 22 23 00-1216	DAY	85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,255.29	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-1,218.36*	
01 22 23 00-1217	WK	85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	13,131.38	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1218	MO	85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	46,557.94	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-932.89*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1219	DAY	100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,420.44	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-1,269.97*	
01 22 23 00-1220	WK	100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	13,748.90	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1221	MO	100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	48,396.15	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,006.42*	
01 22 23 00-1222	DAY	120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,951.80	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-1,436.02*	
01 22 23 00-1223	WK	120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	15,439.91	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1224	MO	120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	53,469.18	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,209.34*	
01 22 23 00-1225	DAY	140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,318.01	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-1,550.46*	
01 22 23 00-1226	WK	140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	16,721.63	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1227	MO	140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	57,314.33	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,363.15*	
01 22 23 00-1228	DAY	175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,978.61	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-1,756.89*	
01 22 23 00-1229	WK	175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	19,033.75	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1230	MO	175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	64,250.70	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,640.60*	
01 22 23 00-1231	DAY	200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,438.16	
		For Equipment Without Operator, Deduct	*-1,072.42*	
		For Half Day Usage, Deduct	*-1,900.50*	
01 22 23 00-1232	WK	200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	20,642.18	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1233	MO	200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	69,075.99	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,833.61*	

01 22 23 00-1234 Cable Controlled Lattice Boom, Mechanical Cranes *(01 22 23 00-1187)*

Note: Includes full-time operator and counterweights. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0006 for lattice crane delivery.

01 22 23 00-1235	DAY	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	2,795.74	
		For Equipment Without Operator, Deduct	*-1,072.42*	
01 22 23 00-1236	WK	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	11,508.59	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1237	MO	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	41,675.20	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-737.58*	
01 22 23 00-1238	DAY	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	4,124.13	
		For Equipment Without Operator, Deduct	*-1,072.42*	
01 22 23 00-1239	WK	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	13,720.18	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1240	MO	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	48,309.99	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,002.97*	
01 22 23 00-1241	DAY	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	4,339.55	
		For Equipment Without Operator, Deduct	*-1,072.42*	
01 22 23 00-1242	WK	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	15,292.71	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1243	MO	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	53,026.14	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,191.62*	
01 22 23 00-1244	DAY	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	4,770.38	
		For Equipment Without Operator, Deduct	*-1,072.42*	
01 22 23 00-1245	WK	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	16,865.24	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1246	MO	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	57,736.55	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,380.03*	
01 22 23 00-1247	DAY	200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,975.02	
		For Equipment Without Operator, Deduct	*-1,072.42*	
01 22 23 00-1248	WK	200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	18,437.77	
		For Equipment Without Operator, Deduct	*-5,362.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1249	MO	200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	62,458.44	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,568.91*	
01 22 23 00-1250	DAY	250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	5,179.67	
		For Equipment Without Operator, Deduct	*-1,072.42*	
01 22 23 00-1251	WK	250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	20,010.30	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1252	MO	250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	67,180.34	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-1,757.79*	
01 22 23 00-1253	DAY	300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	5,854.63	
		For Equipment Without Operator, Deduct	*-1,072.42*	
01 22 23 00-1254	WK	300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	22,430.13	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1255	MO	300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	74,429.77	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-2,047.76*	
01 22 23 00-1256	DAY	500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	10,004.96	
		For Equipment Without Operator, Deduct	*-1,072.42*	
01 22 23 00-1257	WK	500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	37,221.96	
		For Equipment Without Operator, Deduct	*-5,362.08*	
01 22 23 00-1258	MO	500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	118,822.50	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-3,823.47*	

01 22 23 00-1259 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts *(01 22 23 00-1187)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-1260	DAY	5,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,633.08	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-698.69*	
01 22 23 00-1261	WK	5,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,560.90	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-1262	MO	5,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	25,072.75	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-132.33*	
01 22 23 00-1263	DAY	6,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,699.24	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-719.36*	
01 22 23 00-1264	WK	6,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,709.77	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-1265	MO	6,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	25,403.57	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-145.56*	
01 22 23 00-1266	DAY	8,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,682.70	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-714.19*	
01 22 23 00-1267	WK	8,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,784.21	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-1268	MO	8,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	25,899.80	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-165.41*	
01 22 23 00-1269	DAY	10,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,872.92	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Half Day Usage, Deduct	*-773.64*	
01 22 23 00-1270	WK	10,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	7,280.44	
		For Equipment Without Operator, Deduct	*-5,022.59*	
01 22 23 00-1271	MO	10,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	27,057.67	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For >6 Months (>26 Weeks), Deduct	*-211.72*	

01 22 23 00-1272 Straight Mast, Rough Terrain Construction Forklifts *(01 22 23 00-1187)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-1273	DAY	5,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,413.08	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Propane Instead Of Gas Or Diesel, Add	*81.71*	
		For Half Day Usage, Deduct	*-629.94*	
01 22 23 00-1274	WK	5,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,138.28	
		For Equipment Without Operator, Deduct	*-5,022.59*	
		For Propane Instead Of Gas Or Diesel, Add	*223.14*	
01 22 23 00-1275	MO	5,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	24,318.07	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For Propane Instead Of Gas Or Diesel, Add	*510.70*	
		For >6 Months (>26 Weeks), Deduct	*-102.14*	
01 22 23 00-1276	DAY	6,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,434.59	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Propane Instead Of Gas Or Diesel, Add	*86.01*	
		For Half Day Usage, Deduct	*-636.66*	
01 22 23 00-1277	WK	6,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,197.00	
		For Equipment Without Operator, Deduct	*-5,022.59*	
		For Propane Instead Of Gas Or Diesel, Add	*234.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1278	MO	6,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	24,452.46	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For Propane Instead Of Gas Or Diesel, Add	*537.58*	
		For >6 Months (>26 Weeks), Deduct	*-107.52*	
01 22 23 00-1279	DAY	8,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,550.37	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Propane Instead Of Gas Or Diesel, Add	*109.17*	
		For Half Day Usage, Deduct	*-672.84*	
01 22 23 00-1280	WK	8,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,519.55	
		For Equipment Without Operator, Deduct	*-5,022.59*	
		For Propane Instead Of Gas Or Diesel, Add	*299.39*	
01 22 23 00-1281	MO	8,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	25,196.81	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For Propane Instead Of Gas Or Diesel, Add	*686.45*	
		For >6 Months (>26 Weeks), Deduct	*-137.29*	
01 22 23 00-1282	DAY	10,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,614.14	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Propane Instead Of Gas Or Diesel, Add	*121.92*	
		For Half Day Usage, Deduct	*-692.77*	
01 22 23 00-1283	WK	10,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,491.93	
		For Equipment Without Operator, Deduct	*-5,022.59*	
		For Propane Instead Of Gas Or Diesel, Add	*293.87*	
01 22 23 00-1284	MO	10,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	25,422.26	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For Propane Instead Of Gas Or Diesel, Add	*731.54*	
		For >6 Months (>26 Weeks), Deduct	*-146.31*	

01 22 23 00-1285 Straight Mast, Industrial Warehouse Forklifts *(01 22 23 00-1187)*

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-1286	DAY	5,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,351.88	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Propane Instead Of Gas Or Diesel, Add	*69.47*	
		For Half Day Usage, Deduct	*-610.81*	
01 22 23 00-1287	WK	5,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,816.56	
		For Equipment Without Operator, Deduct	*-5,022.59*	
		For Propane Instead Of Gas Or Diesel, Add	*158.79*	
01 22 23 00-1288	MO	5,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	23,666.77	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For Propane Instead Of Gas Or Diesel, Add	*380.44*	
		For >6 Months (>26 Weeks), Deduct	*-76.09*	
01 22 23 00-1289	DAY	6,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,360.15	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Propane Instead Of Gas Or Diesel, Add	*71.13*	
		For Half Day Usage, Deduct	*-613.39*	
01 22 23 00-1290	WK	6,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,841.37	
		For Equipment Without Operator, Deduct	*-5,022.59*	
		For Propane Instead Of Gas Or Diesel, Add	*163.76*	
01 22 23 00-1291	MO	6,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	23,724.66	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For Propane Instead Of Gas Or Diesel, Add	*392.02*	
		For >6 Months (>26 Weeks), Deduct	*-78.40*	
01 22 23 00-1292	DAY	8,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,533.83	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Propane Instead Of Gas Or Diesel, Add	*105.86*	
		For Half Day Usage, Deduct	*-667.67*	
01 22 23 00-1293	WK	8,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	6,221.81	
		For Equipment Without Operator, Deduct	*-5,022.59*	
		For Propane Instead Of Gas Or Diesel, Add	*239.84*	
01 22 23 00-1294	MO	8,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	24,659.23	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For Propane Instead Of Gas Or Diesel, Add	*578.94*	
		For >6 Months (>26 Weeks), Deduct	*-115.79*	
01 22 23 00-1295	DAY	12,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,550.37	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Propane Instead Of Gas Or Diesel, Add	*109.17*	
		For Half Day Usage, Deduct	*-672.84*	
01 22 23 00-1296	WK	12,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	6,362.41	
		For Equipment Without Operator, Deduct	*-5,022.59*	
		For Propane Instead Of Gas Or Diesel, Add	*267.96*	
01 22 23 00-1297	MO	12,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	25,155.45	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For Propane Instead Of Gas Or Diesel, Add	*678.18*	
		For >6 Months (>26 Weeks), Deduct	*-135.64*	
01 22 23 00-1298	DAY	15,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,699.24	
		For Equipment Without Operator, Deduct	*-1,004.52*	
		For Propane Instead Of Gas Or Diesel, Add	*138.94*	
		For Half Day Usage, Deduct	*-719.36*	
01 22 23 00-1299	WK	15,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	6,602.26	
		For Equipment Without Operator, Deduct	*-5,022.59*	
		For Propane Instead Of Gas Or Diesel, Add	*315.93*	
01 22 23 00-1300	MO	15,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	25,568.98	
		For Equipment Without Operator, Deduct	*-21,764.55*	
		For Propane Instead Of Gas Or Diesel, Add	*760.89*	
		For >6 Months (>26 Weeks), Deduct	*-152.18*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 22 23 00-1301 Chain Hoists *(01 22 23 00-1187)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-1302	DAY	1 Ton, 20' Lift, Manual Chain Hoist	12.52
		For Half Day Usage, Deduct	*-3.91*
01 22 23 00-1303	WK	1 Ton, 20' Lift, Manual Chain Hoist	32.55
01 22 23 00-1304	MO	1 Ton, 20' Lift, Manual Chain Hoist	96.40
		For >6 Months (>26 Weeks), Deduct	*-3.86*
01 22 23 00-1305	DAY	3 Ton, 20' Lift, Manual Chain Hoist	35.06
		For Half Day Usage, Deduct	*-10.96*
01 22 23 00-1306	WK	3 Ton, 20' Lift, Manual Chain Hoist	82.63
01 22 23 00-1307	MO	3 Ton, 20' Lift, Manual Chain Hoist	231.62
		For >6 Months (>26 Weeks), Deduct	*-9.26*
01 22 23 00-1308	DAY	5 Ton, 20' Lift, Manual Chain Hoist	45.07
		For Half Day Usage, Deduct	*-14.08*
01 22 23 00-1309	WK	5 Ton, 20' Lift, Manual Chain Hoist	121.44
01 22 23 00-1310	MO	5 Ton, 20' Lift, Manual Chain Hoist	338.04
		For >6 Months (>26 Weeks), Deduct	*-13.52*
01 22 23 00-1311	DAY	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	88.89
		For Half Day Usage, Deduct	*-27.78*
01 22 23 00-1312	WK	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	231.62
01 22 23 00-1313	MO	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	626.00
		For >6 Months (>26 Weeks), Deduct	*-25.04*
01 22 23 00-1314	DAY	3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	90.14
		For Half Day Usage, Deduct	*-28.17*
01 22 23 00-1315	WK	3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	241.01
01 22 23 00-1316	MO	3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	657.30
		For >6 Months (>26 Weeks), Deduct	*-26.29*
01 22 23 00-1317	DAY	5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	92.65
		For Half Day Usage, Deduct	*-28.95*
01 22 23 00-1318	WK	5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	259.79
01 22 23 00-1319	MO	5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	719.90
		For >6 Months (>26 Weeks), Deduct	*-28.80*

01 22 23 00-1320 Roof Swing Hoist *(01 22 23 00-1187)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-1321	DAY	Up To 400 Lb., Manual Swing Roof Hoist	106.00
		For Half Day Usage, Deduct	*-33.13*
01 22 23 00-1322	WK	Up To 400 Lb., Manual Swing Roof Hoist	371.02
01 22 23 00-1323	MO	Up To 400 Lb., Manual Swing Roof Hoist	1,272.06
		For >6 Months (>26 Weeks), Deduct	*-50.88*

01 22 23 00-1324 Truck Mounted Digger Derrick *(01 22 23 00-1187)*

Note: Includes full-time operator, delivery, set-up, and removal time in rental period. Lifting capacity is reduced.

01 22 23 00-1325	DAY	Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,752.24
		Note: Includes lifting boom, grapple arm and auger drill.	
		For Equipment Without Operator, Deduct	*-1,072.42*
		For Half Day Usage, Deduct	*-748.65*
01 22 23 00-1326	WK	Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	7,401.54
		Note: Includes lifting boom, grapple arm and auger drill.	
		For Equipment Without Operator, Deduct	*-5,362.08*
01 22 23 00-1327	MO	Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	28,674.24
		Note: Includes lifting boom, grapple arm and auger drill.	
		For Equipment Without Operator, Deduct	*-23,235.68*
		For >6 Months (>26 Weeks), Deduct	*-217.54*
01 22 23 00-1328	DAY	Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,891.97
		Note: Includes lifting boom, grapple arm and auger drill.	
		For Equipment Without Operator, Deduct	*-1,072.42*
		For Half Day Usage, Deduct	*-792.32*
01 22 23 00-1329	WK	Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	7,820.73
		Note: Includes lifting boom, grapple arm and auger drill.	
		For Equipment Without Operator, Deduct	*-5,362.08*
01 22 23 00-1330	MO	Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	29,792.09
		Note: Includes lifting boom, grapple arm and auger drill.	
		For Equipment Without Operator, Deduct	*-23,235.68*
		For >6 Months (>26 Weeks), Deduct	*-262.26*
01 22 23 00-1331	DAY	Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	2,755.43
		Note: Includes lifting boom, grapple arm and auger drill.	
		For Equipment Without Operator, Deduct	*-1,072.42*
		For Half Day Usage, Deduct	*-1,062.15*
01 22 23 00-1332	WK	Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	10,411.11
		Note: Includes lifting boom, grapple arm and auger drill.	
		For Equipment Without Operator, Deduct	*-5,362.08*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1333	MO	Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator Note: Includes lifting boom, grapple arm and auger drill.	36,699.76	
		For Equipment Without Operator, Deduct	*-23,235.68*	
		For >6 Months (>26 Weeks), Deduct	*-538.56*	

01 22 23 00-1334 Pumping Equipment *(01 22 23)*

01 22 23 00-1335 Gas Powered Portable Centrifugal Pumps *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1359 for larger diameter pumps.

01 22 23 00-1336	DAY	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	85.33	
		For >8 To 16 Hours Usage Per Day, Add	*34.13*	
		For >16 To 24 Hours Usage Per Day, Add	*68.26*	
01 22 23 00-1337	WK	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	192.00	
		For >40 To 80 Hours Usage Per Week, Add	*76.80*	
		For >80 Hours Usage Per Week, Add	*153.60*	
01 22 23 00-1338	MO	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	511.99	
		For >160 To 320 Hours Usage Per Month, Add	*204.80*	
		For >320 Hours Usage Per Month, Add	*409.59*	
		For >6 Months (>26 Weeks), Deduct	*-20.48*	
01 22 23 00-1339	DAY	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	102.40	
		For >8 To 16 Hours Usage Per Day, Add	*40.96*	
		For >16 To 24 Hours Usage Per Day, Add	*81.92*	
01 22 23 00-1340	WK	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	230.40	
		For >40 To 80 Hours Usage Per Week, Add	*92.16*	
		For >80 Hours Usage Per Week, Add	*184.32*	
01 22 23 00-1341	MO	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	614.39	
		For >160 To 320 Hours Usage Per Month, Add	*245.76*	
		For >320 Hours Usage Per Month, Add	*491.51*	
		For >6 Months (>26 Weeks), Deduct	*-24.58*	

01 22 23 00-1342 Gas Powered Portable Diaphragm Pumps *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1343	DAY	3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	98.13	
		For >8 To 16 Hours Usage Per Day, Add	*39.25*	
		For >16 To 24 Hours Usage Per Day, Add	*78.50*	
01 22 23 00-1344	WK	3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	277.33	
		For >40 To 80 Hours Usage Per Week, Add	*110.93*	
		For >80 Hours Usage Per Week, Add	*221.86*	
01 22 23 00-1345	MO	3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	703.99	
		For >160 To 320 Hours Usage Per Month, Add	*281.60*	
		For >320 Hours Usage Per Month, Add	*563.19*	
		For >6 Months (>26 Weeks), Deduct	*-28.16*	
01 22 23 00-1346	DAY	5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	119.46	
		For >8 To 16 Hours Usage Per Day, Add	*47.78*	
		For >16 To 24 Hours Usage Per Day, Add	*95.57*	
01 22 23 00-1347	WK	5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	320.00	
		For >40 To 80 Hours Usage Per Week, Add	*128.00*	
		For >80 Hours Usage Per Week, Add	*256.00*	
01 22 23 00-1348	MO	5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	906.65	
		For >160 To 320 Hours Usage Per Month, Add	*362.66*	
		For >320 Hours Usage Per Month, Add	*725.32*	
		For >6 Months (>26 Weeks), Deduct	*-36.27*	

01 22 23 00-1349 Gas Powered Portable Trash Pumps *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1350	DAY	12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	123.73	
		For >8 To 16 Hours Usage Per Day, Add	*49.49*	
		For >16 To 24 Hours Usage Per Day, Add	*98.98*	
01 22 23 00-1351	WK	12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	256.00	
		For >40 To 80 Hours Usage Per Week, Add	*102.40*	
		For >80 Hours Usage Per Week, Add	*204.80*	
01 22 23 00-1352	MO	12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	767.99	
		For >160 To 320 Hours Usage Per Month, Add	*307.20*	
		For >320 Hours Usage Per Month, Add	*614.39*	
		For >6 Months (>26 Weeks), Deduct	*-30.72*	
01 22 23 00-1353	DAY	25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	123.73	
		For >8 To 16 Hours Usage Per Day, Add	*49.49*	
		For >16 To 24 Hours Usage Per Day, Add	*98.98*	
01 22 23 00-1354	WK	25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	330.66	
		For >40 To 80 Hours Usage Per Week, Add	*132.26*	
		For >80 Hours Usage Per Week, Add	*264.53*	
01 22 23 00-1355	MO	25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	906.65	
		For >160 To 320 Hours Usage Per Month, Add	*362.66*	
		For >320 Hours Usage Per Month, Add	*725.32*	
		For >6 Months (>26 Weeks), Deduct	*-36.27*	
01 22 23 00-1356	DAY	35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	196.26	
		For >8 To 16 Hours Usage Per Day, Add	*78.50*	
		For >16 To 24 Hours Usage Per Day, Add	*157.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1357	WK	35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	554.66	
		For >40 To 80 Hours Usage Per Week, Add	*221.86*	
		For >80 Hours Usage Per Week, Add	*443.73*	
01 22 23 00-1358	MO	35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	1,610.64	
		For >160 To 320 Hours Usage Per Month, Add	*644.26*	
		For >320 Hours Usage Per Month, Add	*1,288.51*	
		For >6 Months (>26 Weeks), Deduct	*-64.43*	

01 22 23 00-1359 Diesel Powered Portable Trash Pumps *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1360	DAY	63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	383.99	
		For >8 To 16 Hours Usage Per Day, Add	*153.60*	
		For >16 To 24 Hours Usage Per Day, Add	*307.19*	
01 22 23 00-1361	WK	63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	1,045.32	
		For >40 To 80 Hours Usage Per Week, Add	*418.13*	
		For >80 Hours Usage Per Week, Add	*836.26*	
01 22 23 00-1362	MO	63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	4,554.60	
		For >160 To 320 Hours Usage Per Month, Add	*1,821.84*	
		For >320 Hours Usage Per Month, Add	*3,643.68*	
		For >6 Months (>26 Weeks), Deduct	*-182.18*	
01 22 23 00-1363	DAY	156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	586.66	
		For >8 To 16 Hours Usage Per Day, Add	*234.66*	
		For >16 To 24 Hours Usage Per Day, Add	*469.33*	
01 22 23 00-1364	WK	156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,535.98	
		For >40 To 80 Hours Usage Per Week, Add	*614.39*	
		For >80 Hours Usage Per Week, Add	*1,228.78*	
01 22 23 00-1365	MO	156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,085.27	
		For >160 To 320 Hours Usage Per Month, Add	*1,634.11*	
		For >320 Hours Usage Per Month, Add	*3,268.22*	
		For >6 Months (>26 Weeks), Deduct	*-163.41*	
01 22 23 00-1366	DAY	246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	797.85	
		For >8 To 16 Hours Usage Per Day, Add	*319.14*	
		For >16 To 24 Hours Usage Per Day, Add	*638.28*	
01 22 23 00-1367	WK	246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	2,135.43	
		For >40 To 80 Hours Usage Per Week, Add	*854.17*	
		For >80 Hours Usage Per Week, Add	*1,708.34*	
01 22 23 00-1368	MO	246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	5,712.98	
		For >160 To 320 Hours Usage Per Month, Add	*2,285.19*	
		For >320 Hours Usage Per Month, Add	*4,570.38*	
		For >6 Months (>26 Weeks), Deduct	*-228.52*	
01 22 23 00-1369	DAY	379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	1,032.52	
		For >8 To 16 Hours Usage Per Day, Add	*413.01*	
		For >16 To 24 Hours Usage Per Day, Add	*826.02*	
01 22 23 00-1370	WK	379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,636.76	
		For >40 To 80 Hours Usage Per Week, Add	*1,054.70*	
		For >80 Hours Usage Per Week, Add	*2,109.41*	
01 22 23 00-1371	MO	379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	7,743.88	
		For >160 To 320 Hours Usage Per Month, Add	*3,097.55*	
		For >320 Hours Usage Per Month, Add	*6,195.10*	
		For >6 Months (>26 Weeks), Deduct	*-309.76*	

01 22 23 00-1372 Diesel Powered Portable High Head Trash Pumps *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1373	DAY	27,000 GPH, 3" Suction, 3" Discharge, 300' Maximum Head, Diesel Powered Portable High Head Trash Pump	511.99	
		For >8 To 16 Hours Usage Per Day, Add	*204.80*	
		For >16 To 24 Hours Usage Per Day, Add	*409.59*	
01 22 23 00-1374	WK	27,000 GPH, 3" Suction, 3" Discharge, 300' Maximum Head, Diesel Powered Portable High Head Trash Pump	1,151.98	
		For >40 To 80 Hours Usage Per Week, Add	*460.79*	
		For >80 Hours Usage Per Week, Add	*921.58*	
01 22 23 00-1375	MO	27,000 GPH, 3" Suction, 3" Discharge, 300' Maximum Head, Diesel Powered Portable High Head Trash Pump	3,071.95	
		For >160 To 320 Hours Usage Per Month, Add	*1,228.78*	
		For >320 Hours Usage Per Month, Add	*2,457.56*	
		For >6 Months (>26 Weeks), Deduct	*-122.88*	
01 22 23 00-1376	DAY	90,000 GPH, 6" Suction, 4" Discharge, 330' Maximum Head, Diesel Powered Portable High Head Trash Pump	767.99	
		For >8 To 16 Hours Usage Per Day, Add	*307.20*	
		For >16 To 24 Hours Usage Per Day, Add	*614.39*	
01 22 23 00-1377	WK	90,000 GPH, 6" Suction, 4" Discharge, 330' Maximum Head, Diesel Powered Portable High Head Trash Pump	2,054.37	
		For >40 To 80 Hours Usage Per Week, Add	*821.75*	
		For >80 Hours Usage Per Week, Add	*1,643.50*	
01 22 23 00-1378	MO	90,000 GPH, 6" Suction, 4" Discharge, 330' Maximum Head, Diesel Powered Portable High Head Trash Pump	5,759.91	
		For >160 To 320 Hours Usage Per Month, Add	*2,303.96*	
		For >320 Hours Usage Per Month, Add	*4,607.93*	
		For >6 Months (>26 Weeks), Deduct	*-230.40*	
01 22 23 00-1379	DAY	135,000 GPH, 8" Suction, 6" Discharge, 320' Maximum Head, Diesel Powered Portable High Head Trash Pump	938.65	
		For >8 To 16 Hours Usage Per Day, Add	*375.46*	
		For >16 To 24 Hours Usage Per Day, Add	*750.92*	
		For Half Day Usage, Deduct	*-293.33*	
01 22 23 00-1380	WK	135,000 GPH, 8" Suction, 6" Discharge, 320' Maximum Head, Diesel Powered Portable High Head Trash Pump	2,111.97	
		For >40 To 80 Hours Usage Per Week, Add	*844.79*	
		For >80 Hours Usage Per Week, Add	*1,689.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1381	MO	135,000 GPH, 8" Suction, 6" Discharge, 320' Maximum Head, Diesel Powered Portable High Head Trash Pump	5,631.91	
		For >160 To 320 Hours Usage Per Month, Add	*2,252.76*	
		For >320 Hours Usage Per Month, Add	*4,505.53*	
		For >6 Months (>26 Weeks), Deduct	*-225.28*	

01 22 23 00-1382 Diesel Powered Portable Silenced Environmental Trash Pumps *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1383	DAY	90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	548.26	
		For >8 To 16 Hours Usage Per Day, Add	*219.30*	
		For >16 To 24 Hours Usage Per Day, Add	*438.61*	
01 22 23 00-1384	WK	90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,247.98	
		For >40 To 80 Hours Usage Per Week, Add	*499.19*	
		For >80 Hours Usage Per Week, Add	*998.38*	
01 22 23 00-1385	MO	90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,891.14	
		For >160 To 320 Hours Usage Per Month, Add	*1,556.46*	
		For >320 Hours Usage Per Month, Add	*3,112.91*	
		For >6 Months (>26 Weeks), Deduct	*-155.65*	
01 22 23 00-1386	DAY	136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	671.99	
		For >8 To 16 Hours Usage Per Day, Add	*268.80*	
		For >16 To 24 Hours Usage Per Day, Add	*537.59*	
01 22 23 00-1387	WK	136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,674.64	
		For >40 To 80 Hours Usage Per Week, Add	*669.86*	
		For >80 Hours Usage Per Week, Add	*1,339.71*	
01 22 23 00-1388	MO	136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	4,554.60	
		For >160 To 320 Hours Usage Per Month, Add	*1,821.84*	
		For >320 Hours Usage Per Month, Add	*3,643.68*	
		For >6 Months (>26 Weeks), Deduct	*-182.18*	
01 22 23 00-1389	DAY	246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	810.65	
		For >8 To 16 Hours Usage Per Day, Add	*324.26*	
		For >16 To 24 Hours Usage Per Day, Add	*648.52*	
01 22 23 00-1390	WK	246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,397.83	
		For >40 To 80 Hours Usage Per Week, Add	*959.13*	
		For >80 Hours Usage Per Week, Add	*1,918.26*	
01 22 23 00-1391	MO	246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	6,687.90	
		For >160 To 320 Hours Usage Per Month, Add	*2,675.16*	
		For >320 Hours Usage Per Month, Add	*5,350.32*	
		For >6 Months (>26 Weeks), Deduct	*-267.52*	
01 22 23 00-1392	DAY	510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,220.25	
		For >8 To 16 Hours Usage Per Day, Add	*488.10*	
		For >16 To 24 Hours Usage Per Day, Add	*976.20*	
01 22 23 00-1393	WK	510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,116.75	
		For >40 To 80 Hours Usage Per Week, Add	*1,246.70*	
		For >80 Hours Usage Per Week, Add	*2,493.40*	
01 22 23 00-1394	MO	510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	9,151.86	
		For >160 To 320 Hours Usage Per Month, Add	*3,660.74*	
		For >320 Hours Usage Per Month, Add	*7,321.49*	
		For >6 Months (>26 Weeks), Deduct	*-366.07*	

01 22 23 00-1395 3 Phase Electric Submersible Pumps *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1396	DAY	24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	213.33	
01 22 23 00-1397	WK	24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	533.32	
01 22 23 00-1398	MO	24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,599.98	
		For >6 Months (>26 Weeks), Deduct	*-64.00*	
01 22 23 00-1399	DAY	49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	281.60	
01 22 23 00-1400	WK	49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	703.99	
01 22 23 00-1401	MO	49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	2,111.97	
		For >6 Months (>26 Weeks), Deduct	*-84.48*	

01 22 23 00-1402 Suction Hose With Couplings *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal.

01 22 23 00-1403	DAY	Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	4.67	
		For Half Day Usage, Deduct	*-1.46*	
01 22 23 00-1404	WK	Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	11.67	
01 22 23 00-1405	MO	Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	35.79	
		For >6 Months (>26 Weeks), Deduct	*-1.43*	
01 22 23 00-1406	DAY	3" Inside Diameter, 20' Length, Suction Hose With Couplings	12.45	
		For Half Day Usage, Deduct	*-3.89*	
01 22 23 00-1407	WK	3" Inside Diameter, 20' Length, Suction Hose With Couplings	31.90	
01 22 23 00-1408	MO	3" Inside Diameter, 20' Length, Suction Hose With Couplings	97.25	
		For >6 Months (>26 Weeks), Deduct	*-3.89*	
01 22 23 00-1409	DAY	4" Inside Diameter, 20' Length, Suction Hose With Couplings	18.67	
		For Half Day Usage, Deduct	*-5.83*	
01 22 23 00-1410	WK	4" Inside Diameter, 20' Length, Suction Hose With Couplings	47.46	
01 22 23 00-1411	MO	4" Inside Diameter, 20' Length, Suction Hose With Couplings	143.93	
		For >6 Months (>26 Weeks), Deduct	*-5.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1412	DAY	6" Inside Diameter, 20' Length, Suction Hose With Couplings	23.34	
		For Half Day Usage, Deduct	*-7.29*	
01 22 23 00-1413	WK	6" Inside Diameter, 20' Length, Suction Hose With Couplings	58.35	
01 22 23 00-1414	MO	6" Inside Diameter, 20' Length, Suction Hose With Couplings	171.16	
		For >6 Months (>26 Weeks), Deduct	*-6.85*	
01 22 23 00-1415	DAY	10" Inside Diameter, 20' Length, Suction Hose With Couplings	54.46	
		For Half Day Usage, Deduct	*-17.02*	
01 22 23 00-1416	WK	10" Inside Diameter, 20' Length, Suction Hose With Couplings	140.04	
01 22 23 00-1417	MO	10" Inside Diameter, 20' Length, Suction Hose With Couplings	412.34	
		For >6 Months (>26 Weeks), Deduct	*-16.49*	
01 22 23 00-1418	DAY	12" Inside Diameter, 20' Length, Suction Hose With Couplings	73.13	
		For Half Day Usage, Deduct	*-22.85*	
01 22 23 00-1419	WK	12" Inside Diameter, 20' Length, Suction Hose With Couplings	159.49	
01 22 23 00-1420	MO	12" Inside Diameter, 20' Length, Suction Hose With Couplings	478.47	
		For >6 Months (>26 Weeks), Deduct	*-19.14*	

01 22 23 00-1421 Discharge Hose With Couplings *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal.

01 22 23 00-1422	DAY	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	4.67	
		For Half Day Usage, Deduct	*-1.46*	
01 22 23 00-1423	WK	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	11.67	
01 22 23 00-1424	MO	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	35.79	
		For >6 Months (>26 Weeks), Deduct	*-1.43*	
01 22 23 00-1425	DAY	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	5.45	
		For Half Day Usage, Deduct	*-1.70*	
01 22 23 00-1426	WK	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	13.23	
01 22 23 00-1427	MO	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	41.23	
		For >6 Months (>26 Weeks), Deduct	*-1.65*	
01 22 23 00-1428	DAY	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	6.22	
		For Half Day Usage, Deduct	*-1.94*	
01 22 23 00-1429	WK	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	15.56	
01 22 23 00-1430	MO	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	47.46	
		For >6 Months (>26 Weeks), Deduct	*-1.90*	
01 22 23 00-1431	DAY	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	16.34	
		For Half Day Usage, Deduct	*-5.11*	
01 22 23 00-1432	WK	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	42.01	
01 22 23 00-1433	MO	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	120.59	
		For >6 Months (>26 Weeks), Deduct	*-4.82*	
01 22 23 00-1434	DAY	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	20.23	
		For Half Day Usage, Deduct	*-6.32*	
01 22 23 00-1435	WK	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	55.24	
01 22 23 00-1436	MO	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	151.71	
		For >6 Months (>26 Weeks), Deduct	*-6.07*	
01 22 23 00-1437	DAY	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	15.56	
		For Half Day Usage, Deduct	*-4.86*	
01 22 23 00-1438	WK	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	38.90	
01 22 23 00-1439	MO	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	116.70	
		For >6 Months (>26 Weeks), Deduct	*-4.67*	
01 22 23 00-1440	DAY	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	39.68	
		For Half Day Usage, Deduct	*-12.40*	
01 22 23 00-1441	WK	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	101.14	
01 22 23 00-1442	MO	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	299.53	
		For >6 Months (>26 Weeks), Deduct	*-11.98*	

01 22 23 00-1443 Hydraulic Submersible Pumps *(01 22 23 00-1334)*

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1444 Hydraulic Submersible Pumps *(01 22 23 00-1443)*

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1445	DAY	60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	140.80	
		For >8 To 16 Hours Usage Per Day, Add	*56.32*	
		For >16 To 24 Hours Usage Per Day, Add	*112.64*	
01 22 23 00-1446	WK	60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	377.59	
		For >40 To 80 Hours Usage Per Week, Add	*151.04*	
		For >80 Hours Usage Per Week, Add	*302.07*	
01 22 23 00-1447	MO	60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	1,055.98	
		For >160 To 320 Hours Usage Per Month, Add	*422.39*	
		For >320 Hours Usage Per Month, Add	*844.78*	
		For >6 Months (>26 Weeks), Deduct	*-42.24*	
01 22 23 00-1448	DAY	132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	179.20	
		For >8 To 16 Hours Usage Per Day, Add	*71.68*	
		For >16 To 24 Hours Usage Per Day, Add	*143.36*	
01 22 23 00-1449	WK	132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	460.79	
		For >40 To 80 Hours Usage Per Week, Add	*184.32*	
		For >80 Hours Usage Per Week, Add	*368.63*	
01 22 23 00-1450	MO	132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	1,407.98	
		For >160 To 320 Hours Usage Per Month, Add	*563.19*	
		For >320 Hours Usage Per Month, Add	*1,126.38*	
		For >6 Months (>26 Weeks), Deduct	*-56.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1451		**Hydraulic Submersible Pump Diesel Power Packs** *(01 22 23 00-1443)*		
		Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1452	DAY	100 HP, Hydraulic Submersible Pump Diesel Power Pack	325.33	
		For >8 To 16 Hours Usage Per Day, Add	*130.13*	
		For >16 To 24 Hours Usage Per Day, Add	*260.26*	
01 22 23 00-1453	WK	100 HP, Hydraulic Submersible Pump Diesel Power Pack	970.65	
		For >40 To 80 Hours Usage Per Week, Add	*388.26*	
		For >80 Hours Usage Per Week, Add	*776.52*	
01 22 23 00-1454	MO	100 HP, Hydraulic Submersible Pump Diesel Power Pack	2,559.96	
		For >160 To 320 Hours Usage Per Month, Add	*1,023.98*	
		For >320 Hours Usage Per Month, Add	*2,047.97*	
		For >6 Months (>26 Weeks), Deduct	*-102.40*	
01 22 23 00-1455		**HDPE Pipe With Couplings** *(01 22 23 00-1334)*		
		Note: Includes delivery, set-up, and removal.		
01 22 23 00-1456	DAY	4" Diameter x 50' Length, HDPE Pipe With Couplings	14.70	
		For Half Day Usage, Deduct	*-4.59*	
01 22 23 00-1457	WK	4" Diameter x 50' Length, HDPE Pipe With Couplings	35.27	
01 22 23 00-1458	MO	4" Diameter x 50' Length, HDPE Pipe With Couplings	108.75	
		For >6 Months (>26 Weeks), Deduct	*-4.35*	
01 22 23 00-1459	DAY	6" Diameter x 50' Length, HDPE Pipe With Couplings	23.51	
		For Half Day Usage, Deduct	*-7.35*	
01 22 23 00-1460	WK	6" Diameter x 50' Length, HDPE Pipe With Couplings	58.79	
01 22 23 00-1461	MO	6" Diameter x 50' Length, HDPE Pipe With Couplings	179.30	
		For >6 Months (>26 Weeks), Deduct	*-7.17*	
01 22 23 00-1462	DAY	8" Diameter x 50' Length, HDPE Pipe With Couplings	38.21	
		For Half Day Usage, Deduct	*-11.94*	
01 22 23 00-1463	WK	8" Diameter x 50' HDPE Length, HDPE With Couplings	99.94	
01 22 23 00-1464	MO	8" Diameter x 50' Length, HDPE Pipe With Couplings	296.87	
		For >6 Months (>26 Weeks), Deduct	*-11.87*	
01 22 23 00-1465	DAY	10" Diameter x 50' Length, HDPE Pipe With Couplings	47.03	
		For Half Day Usage, Deduct	*-14.70*	
01 22 23 00-1466	WK	10" Diameter x 50' Length, HDPE Pipe With Couplings	120.51	
01 22 23 00-1467	MO	10" Diameter x 50' Length, HDPE Pipe With Couplings	367.41	
		For >6 Months (>26 Weeks), Deduct	*-14.70*	
01 22 23 00-1468	DAY	12" Diameter x 20' Length, HDPE Pipe With Couplings	35.27	
		For Half Day Usage, Deduct	*-11.02*	
01 22 23 00-1469	WK	12" Diameter x 20' Length, HDPE Pipe With Couplings	97.00	
01 22 23 00-1470	MO	12" Diameter x 20' Length, HDPE Pipe With Couplings	293.93	
		For >6 Months (>26 Weeks), Deduct	*-11.76*	
01 22 23 00-1471	DAY	4" Diameter Elbow For HDPE Pipe, Quick Connect	35.27	
		For Half Day Usage, Deduct	*-11.02*	
01 22 23 00-1472	WK	4" Diameter Elbow For HDPE Pipe, Quick Connect	91.12	
01 22 23 00-1473	MO	4" Diameter Elbow For HDPE Pipe, Quick Connect	270.42	
		For >6 Months (>26 Weeks), Deduct	*-10.82*	
01 22 23 00-1474	DAY	6" Diameter Elbow For HDPE Pipe, Quick Connect	41.15	
		For Half Day Usage, Deduct	*-12.86*	
01 22 23 00-1475	WK	6" Diameter Elbow For HDPE Pipe, Quick Connect	105.81	
01 22 23 00-1476	MO	6" Diameter Elbow For HDPE Pipe, Quick Connect	323.32	
		For >6 Months (>26 Weeks), Deduct	*-12.93*	
01 22 23 00-1477	DAY	8" Diameter Elbow For HDPE Pipe, Quick Connect	47.03	
		For Half Day Usage, Deduct	*-14.70*	
01 22 23 00-1478	WK	8" Diameter Elbow For HDPE Pipe, Quick Connect	120.51	
01 22 23 00-1479	MO	8" Diameter Elbow For HDPE Pipe, Quick Connect	367.41	
		For >6 Months (>26 Weeks), Deduct	*-14.70*	
01 22 23 00-1480	DAY	10" Diameter Elbow For HDPE Pipe, Quick Connect	58.79	
		For Half Day Usage, Deduct	*-18.37*	
01 22 23 00-1481	WK	10" Diameter Elbow For HDPE Pipe, Quick Connect	149.90	
01 22 23 00-1482	MO	10" Diameter Elbow For HDPE Pipe, Quick Connect	455.59	
		For >6 Months (>26 Weeks), Deduct	*-18.22*	
01 22 23 00-1483	DAY	12" Diameter Elbow For HDPE Pipe, Quick Connect	58.79	
		For Half Day Usage, Deduct	*-18.37*	
01 22 23 00-1484	WK	12" Diameter Elbow For HDPE Pipe, Quick Connect	149.90	
01 22 23 00-1485	MO	12" Diameter Elbow For HDPE Pipe, Quick Connect	455.59	
		For >6 Months (>26 Weeks), Deduct	*-18.22*	
01 22 23 00-1486	DAY	4" Diameter Tee For HDPE Pipe, Quick Connect	35.27	
		For Half Day Usage, Deduct	*-11.02*	
01 22 23 00-1487	WK	4" Diameter Tee For HDPE Pipe, Quick Connect	91.12	
01 22 23 00-1488	MO	4" Diameter Tee For HDPE Pipe, Quick Connect	270.42	
		For >6 Months (>26 Weeks), Deduct	*-10.82*	
01 22 23 00-1489	DAY	6" Diameter Tee For HDPE Pipe, Quick Connect	47.03	
		For Half Day Usage, Deduct	*-14.70*	
01 22 23 00-1490	WK	6" Diameter Tee For HDPE Pipe, Quick Connect	120.51	
01 22 23 00-1491	MO	6" Diameter Tee For HDPE Pipe, Quick Connect	367.41	
		For >6 Months (>26 Weeks), Deduct	*-14.70*	
01 22 23 00-1492	DAY	8" Diameter Tee For HDPE Pipe, Quick Connect	58.79	
		For Half Day Usage, Deduct	*-18.37*	
01 22 23 00-1493	WK	8" Diameter Tee For HDPE Pipe, Quick Connect	149.90	
01 22 23 00-1494	MO	8" Diameter Tee For HDPE Pipe, Quick Connect	455.59	
		For >6 Months (>26 Weeks), Deduct	*-18.22*	
01 22 23 00-1495	DAY	10" Diameter Tee For HDPE Pipe, Quick Connect	70.54	
		For Half Day Usage, Deduct	*-22.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1496	WK	10" Diameter Tee For HDPE Pipe, Quick Connect	179.30	
01 22 23 00-1497	MO	10" Diameter Tee For HDPE Pipe, Quick Connect	543.77	
		For >6 Months (>26 Weeks), Deduct	*-21.75*	
01 22 23 00-1498	DAY	12" Diameter Tee For HDPE Pipe, Quick Connect	70.54	
		For Half Day Usage, Deduct	*-22.04*	
01 22 23 00-1499	WK	12" Diameter Tee For HDPE Pipe, Quick Connect	179.30	
01 22 23 00-1500	MO	12" Diameter Tee For HDPE Pipe, Quick Connect	543.77	
		For >6 Months (>26 Weeks), Deduct	*-21.75*	
01 22 23 00-1501	DAY	4" Diameter Cap For HDPE Pipe, Quick Connect	5.88	
		For Half Day Usage, Deduct	*-1.84*	
01 22 23 00-1502	WK	4" Diameter Cap For HDPE Pipe, Quick Connect	17.64	
01 22 23 00-1503	MO	4" Diameter Cap For HDPE Pipe, Quick Connect	52.91	
		For >6 Months (>26 Weeks), Deduct	*-2.12*	
01 22 23 00-1504	DAY	6" Diameter Cap For HDPE Pipe, Quick Connect	5.88	
		For Half Day Usage, Deduct	*-1.84*	
01 22 23 00-1505	WK	6" Diameter Cap For HDPE Pipe, Quick Connect	17.64	
01 22 23 00-1506	MO	6" Diameter Cap For HDPE Pipe, Quick Connect	52.91	
		For >6 Months (>26 Weeks), Deduct	*-2.12*	
01 22 23 00-1507	DAY	8" Diameter Cap For HDPE Pipe, Quick Connect	5.88	
		For Half Day Usage, Deduct	*-1.84*	
01 22 23 00-1508	WK	8" Diameter Cap For HDPE Pipe, Quick Connect	17.64	
01 22 23 00-1509	MO	8" Diameter Cap For HDPE Pipe, Quick Connect	52.91	
		For >6 Months (>26 Weeks), Deduct	*-2.12*	
01 22 23 00-1510	DAY	10" Diameter Cap For HDPE Pipe, Quick Connect	5.88	
		For Half Day Usage, Deduct	*-1.84*	
01 22 23 00-1511	WK	10" Diameter Cap For HDPE Pipe, Quick Connect	17.64	
01 22 23 00-1512	MO	10" Diameter Cap For HDPE Pipe, Quick Connect	52.91	
		For >6 Months (>26 Weeks), Deduct	*-2.12*	
01 22 23 00-1513	DAY	12" Diameter Cap For HDPE Pipe, Quick Connect	5.88	
		For Half Day Usage, Deduct	*-1.84*	
01 22 23 00-1514	WK	12" Diameter Cap For HDPE Pipe, Quick Connect	17.64	
01 22 23 00-1515	MO	12" Diameter Cap For HDPE Pipe, Quick Connect	52.91	
		For >6 Months (>26 Weeks), Deduct	*-2.12*	
01 22 23 00-1516	DAY	4" Diameter Wye For HDPE Pipe, Quick Connect	17.64	
		For Half Day Usage, Deduct	*-5.51*	
01 22 23 00-1517	WK	4" Diameter Wye For HDPE Pipe, Quick Connect	44.09	
01 22 23 00-1518	MO	4" Diameter Wye For HDPE Pipe, Quick Connect	135.21	
		For >6 Months (>26 Weeks), Deduct	*-5.41*	
01 22 23 00-1519	DAY	6" Diameter Wye For HDPE Pipe, Quick Connect	20.58	
		For Half Day Usage, Deduct	*-6.43*	
01 22 23 00-1520	WK	6" Diameter Wye For HDPE Pipe, Quick Connect	52.91	
01 22 23 00-1521	MO	6" Diameter Wye For HDPE Pipe, Quick Connect	161.66	
		For >6 Months (>26 Weeks), Deduct	*-6.47*	
01 22 23 00-1522	DAY	8" Diameter Wye For HDPE Pipe, Quick Connect	35.27	
		For Half Day Usage, Deduct	*-11.02*	
01 22 23 00-1523	WK	8" Diameter Wye For HDPE Pipe, Quick Connect	91.12	
01 22 23 00-1524	MO	8" Diameter Wye For HDPE Pipe, Quick Connect	270.42	
		For >6 Months (>26 Weeks), Deduct	*-10.82*	
01 22 23 00-1525	DAY	10" Diameter Wye For HDPE Pipe, Quick Connect	52.91	
		For Half Day Usage, Deduct	*-16.53*	
01 22 23 00-1526	WK	10" Diameter Wye For HDPE Pipe, Quick Connect	135.21	
01 22 23 00-1527	MO	10" Diameter Wye For HDPE Pipe, Quick Connect	411.50	
		For >6 Months (>26 Weeks), Deduct	*-16.46*	
01 22 23 00-1528	DAY	12" Diameter Wye For HDPE Pipe, Quick Connect	52.91	
		For Half Day Usage, Deduct	*-16.53*	
01 22 23 00-1529	WK	12" Diameter Wye For HDPE Pipe, Quick Connect	135.21	
01 22 23 00-1530	MO	12" Diameter Wye For HDPE Pipe, Quick Connect	411.50	
		For >6 Months (>26 Weeks), Deduct	*-16.46*	

01 22 23 00-1531 Temporary Building Services *(01 22 23)*

01 22 23 00-1532 Boilers *(01 22 23 00-1531)*

Note: Excludes operator, delivery, set-up, and removal.

01 22 23 00-1533 Electric Boilers *(01 22 23 00-1532)*

01 22 23 00-1534	MO	40 MBH, 12 KW Electric Boiler Rental	2,882.75
01 22 23 00-1535	MO	60 MBH, 20 KW Electric Boiler Rental	3,144.86
01 22 23 00-1536	MO	95 MBH, 30 KW Electric Boiler Rental	3,275.92
01 22 23 00-1537	MO	135 MBH, 40 KW Electric Boiler Rental	3,668.96
01 22 23 00-1538	MO	165 MBH, 50 KW Electric Boiler Rental	5,110.33
01 22 23 00-1539	MO	215 MBH, 60 KW Electric Boiler Rental	5,896.56
01 22 23 00-1540	MO	365 MBH, 100 KW Electric Boiler Rental	7,731.10
01 22 23 00-1541	MO	510 MBH, 150 KW Electric Boiler Rental	9,434.58

01 22 23 00-1542 Oil Fired Hot Water Boilers *(01 22 23 00-1532)*

01 22 23 00-1543	MO	500 MBH, 15 HP, Oil Fired Hot Water Boiler Rental	2,536.21
01 22 23 00-1544	MO	1,000 MBH, 30 HP, Oil Fired Hot Water Boiler Rental	3,099.15
01 22 23 00-1545	MO	1,500 MBH, 45 HP, Oil Fired Hot Water Boiler Rental	3,663.41
01 22 23 00-1546	MO	2,000 MBH, 60 HP, Oil Fired Hot Water Boiler Rental	4,227.03
01 22 23 00-1547	MO	2,500 MBH, 75 HP, Oil Fired Hot Water Boiler Rental	4,790.64
01 22 23 00-1548	MO	3,000 MBH, 90 HP, Oil Fired Hot Water Boiler Rental	5,354.22

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1549	MO	3,500 MBH, 105 HP, Oil Fired Hot Water Boiler Rental	6,763.23	
01 22 23 00-1550	MO	4,000 MBH, 120 HP, Oil Fired Hot Water Boiler Rental	7,890.44	
01 22 23 00-1551	MO	4,500 MBH, 135 HP, Oil Fired Hot Water Boiler Rental	7,980.11	
01 22 23 00-1552	MO	5,000 MBH, 150 HP, Oil Fired Hot Water Boiler Rental	8,069.77	
01 22 23 00-1553	MO	5,500 MBH, 165 HP, Oil Fired Hot Water Boiler Rental	8,454.04	
01 22 23 00-1554	MO	6,000 MBH, 180 HP, Oil Fired Hot Water Boiler Rental	8,966.40	
01 22 23 00-1555	MO	6,500 MBH, 195 HP, Oil Fired Hot Water Boiler Rental	9,478.77	
01 22 23 00-1556	MO	7,000 MBH, 210 HP, Oil Fired Hot Water Boiler Rental	9,991.14	
01 22 23 00-1557	MO	7,500 MBH, 225 HP, Oil Fired Hot Water Boiler Rental	10,503.51	
01 22 23 00-1558	MO	8,000 MBH, 240 HP, Oil Fired Hot Water Boiler Rental	11,015.87	
01 22 23 00-1559	MO	8,500 MBH, 255 HP, Oil Fired Hot Water Boiler Rental	11,528.24	
01 22 23 00-1560	MO	9,000 MBH, 270 HP, Oil Fired Hot Water Boiler Rental	12,040.61	
01 22 23 00-1561	MO	9,500 MBH, 285 HP, Oil Fired Hot Water Boiler Rental	12,552.97	
01 22 23 00-1562	MO	10,000 MBH, 300 HP, Oil Fired Hot Water Boiler Rental	13,065.34	
01 22 23 00-1563	MO	10,500 MBH, 315 HP, Oil Fired Hot Water Boiler Rental	13,577.71	
01 22 23 00-1564	MO	11,000 MBH, 330 HP, Oil Fired Hot Water Boiler Rental	14,090.08	
01 22 23 00-1565	MO	11,500 MBH, 345 HP, Oil Fired Hot Water Boiler Rental	14,602.44	
01 22 23 00-1566	MO	12,000 MBH, 360 HP, Oil Fired Hot Water Boiler Rental	15,114.81	
01 22 23 00-1567	MO	12,500 MBH, 375 HP, Oil Fired Hot Water Boiler Rental	15,627.18	
01 22 23 00-1568	MO	13,000 MBH, 390 HP, Oil Fired Hot Water Boiler Rental	16,139.54	
01 22 23 00-1569	MO	13,500 MBH, 405 HP, Oil Fired Hot Water Boiler Rental	16,651.90	
01 22 23 00-1570	MO	14,000 MBH, 420 HP, Oil Fired Hot Water Boiler Rental	17,164.26	
01 22 23 00-1571	MO	14,500 MBH, 435 HP, Oil Fired Hot Water Boiler Rental	17,676.63	
01 22 23 00-1572	MO	15,000 MBH, 450 HP, Oil Fired Hot Water Boiler Rental	18,189.00	
01 22 23 00-1573	MO	15,500 MBH, 465 HP, Oil Fired Hot Water Boiler Rental	18,701.37	
01 22 23 00-1574	MO	16,000 MBH, 480 HP, Oil Fired Hot Water Boiler Rental	19,213.73	
01 22 23 00-1575	MO	16,500 MBH, 495 HP, Oil Fired Hot Water Boiler Rental	19,726.10	
01 22 23 00-1576	MO	17,000 MBH, 510 HP, Oil Fired Hot Water Boiler Rental	20,238.47	

01 22 23 00-1577 Boilers Set-up *(01 22 23 00-1532)*

01 22 23 00-1578	EA	Set-up Charge For Rental Boiler Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.	8,211.48	

01 22 23 00-1579 Chillers *(01 22 23 00-1531)*

Note: Excludes operator, delivery, set-up, and removal.

01 22 23 00-1580 Air-Cooled Chillers *(01 22 23 00-1579)*

01 22 23 00-1581	MO	25 Ton Air-Cooled Chiller Rental	2,552.14	
		For >3 To 6 Month Rental, Deduct	*-382.82*	
		For >6 Months (>26 Weeks), Deduct	*-638.04*	
01 22 23 00-1582	MO	40 Ton Air-Cooled Chiller Rental	4,083.43	
		For >3 To 6 Month Rental, Deduct	*-612.51*	
		For >6 Months (>26 Weeks), Deduct	*-1,020.86*	
01 22 23 00-1583	MO	60 Ton Air-Cooled Chiller Rental	4,994.49	
		For >3 To 6 Month Rental, Deduct	*-749.17*	
		For >6 Months (>26 Weeks), Deduct	*-1,248.62*	
01 22 23 00-1584	MO	80 Ton Air-Cooled Chiller Rental	5,905.56	
		For >3 To 6 Month Rental, Deduct	*-885.83*	
		For >6 Months (>26 Weeks), Deduct	*-1,476.39*	
01 22 23 00-1585	MO	100 Ton Air-Cooled Chiller Rental	6,816.62	
		For >3 To 6 Month Rental, Deduct	*-1,022.49*	
		For >6 Months (>26 Weeks), Deduct	*-1,704.16*	
01 22 23 00-1586	MO	125 Ton Air-Cooled Chiller Rental	7,897.19	
		For >3 To 6 Month Rental, Deduct	*-1,184.58*	
		For >6 Months (>26 Weeks), Deduct	*-1,974.30*	
01 22 23 00-1587	MO	155 Ton Air-Cooled Chiller Rental	9,553.67	
		For >3 To 6 Month Rental, Deduct	*-1,433.05*	
		For >6 Months (>26 Weeks), Deduct	*-2,388.42*	
01 22 23 00-1588	MO	170 Ton Air-Cooled Chiller Rental	10,216.26	
		For >3 To 6 Month Rental, Deduct	*-1,532.44*	
		For >6 Months (>26 Weeks), Deduct	*-2,554.07*	
01 22 23 00-1589	MO	200 Ton Air-Cooled Chiller Rental	11,735.99	
		For >3 To 6 Month Rental, Deduct	*-1,760.40*	
		For >6 Months (>26 Weeks), Deduct	*-2,934.00*	
01 22 23 00-1590	MO	250 Ton Air-Cooled Chiller Rental	13,964.54	
		For >3 To 6 Month Rental, Deduct	*-2,094.68*	
		For >6 Months (>26 Weeks), Deduct	*-3,491.14*	
01 22 23 00-1591	MO	300 Ton Air-Cooled Chiller Rental Note: Includes trailer.	16,295.18	
		For >3 To 6 Month Rental, Deduct	*-2,444.28*	
		For >6 Months (>26 Weeks), Deduct	*-4,073.80*	
01 22 23 00-1592	MO	400 Ton Air-Cooled Chiller Rental Note: Includes trailer, pump and 200' of 6" hose.	21,495.77	
		For >3 To 6 Month Rental, Deduct	*-3,224.37*	
		For >6 Months (>26 Weeks), Deduct	*-5,373.94*	
01 22 23 00-1593	MO	500 Ton Air-Cooled Chiller Rental Note: Includes trailer, pump and 200' of 6" hose.	26,607.75	
		For >3 To 6 Month Rental, Deduct	*-3,991.16*	
		For >6 Months (>26 Weeks), Deduct	*-6,651.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1594	EA	Set-up Charge For Air-Cooled Chiller Rental Unit Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded.	5,707.98	
01 22 23 00-1595		**Chiller Rental Accessories** *(01 22 23 00-1579)*		
01 22 23 00-1596	MO	4" x 25' Flexible Water Hose For Chiller Rental	45.48	
01 22 23 00-1597	MO	6" x 25' Flexible Water Hose For Chiller Rental	56.84	
01 22 23 00-1598		**Cooling Tower** *(01 22 23 00-1531)* Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1599	MO	100 Ton Cooling Tower Rental	3,702.23	
		For >3 To 6 Months Rental, Deduct	*-555.33*	
		For >6 Months (>26 Weeks), Deduct	*-925.56*	
01 22 23 00-1600	MO	200 Ton Cooling Tower Rental	6,739.50	
		For >3 To 6 Months Rental, Deduct	*-1,010.93*	
		For >6 Months (>26 Weeks), Deduct	*-1,684.88*	
01 22 23 00-1601	MO	250 Ton Cooling Tower Rental	7,632.17	
		For >3 To 6 Months Rental, Deduct	*-1,144.83*	
		For >6 Months (>26 Weeks), Deduct	*-1,908.04*	
01 22 23 00-1602	MO	300 Ton Cooling Tower Rental	8,626.56	
		For >3 To 6 Months Rental, Deduct	*-1,293.98*	
		For >6 Months (>26 Weeks), Deduct	*-2,156.64*	
01 22 23 00-1603	MO	400 Ton Cooling Tower Rental	10,783.20	
		For >3 To 6 Months Rental, Deduct	*-1,617.48*	
		For >6 Months (>26 Weeks), Deduct	*-2,695.80*	
01 22 23 00-1604	MO	500 Ton Cooling Tower Rental	12,607.41	
		For >3 To 6 Months Rental, Deduct	*-1,891.11*	
		For >6 Months (>26 Weeks), Deduct	*-3,151.85*	
01 22 23 00-1605	MO	Set-up Charge For Rental Cooling Tower Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.	5,707.98	
01 22 23 00-1606		**Emergency Cooler/Freezer** *(01 22 23 00-1531)* Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115 Volt or 230 Volt, freezer 208/230 Volt, combo 115 Volt or 230 Volt.		
01 22 23 00-1607	DAY	8 x 6 x 7 Emergency Cooler Rental	151.76	
		For Half Day Usage, Deduct	*-47.43*	
01 22 23 00-1608	WK	8 x 6 x 7 Emergency Cooler Rental	809.40	
01 22 23 00-1609	DAY	10 x 7 x 7 Emergency Cooler Rental	303.52	
		For Half Day Usage, Deduct	*-94.85*	
01 22 23 00-1610	WK	10 x 7 x 7 Emergency Cooler Rental	1,214.10	
01 22 23 00-1611	MO	10 x 7 x 7 Emergency Cooler Rental	3,035.25	
01 22 23 00-1612	DAY	10 x 7 x 7 Emergency Freezer Rental	354.11	
		For Half Day Usage, Deduct	*-110.66*	
01 22 23 00-1613	WK	10 x 7 x 7 Emergency Freezer Rental	1,416.45	
01 22 23 00-1614	MO	10 x 7 x 7 Emergency Freezer Rental	3,642.30	
01 22 23 00-1615	DAY	6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	404.70	
		For Half Day Usage, Deduct	*-126.47*	
01 22 23 00-1616	WK	6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	1,618.80	
01 22 23 00-1617	MO	6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	4,047.00	
01 22 23 00-1618		**Fuel Oil Tank** *(01 22 23 00-1531)* Note: Excludes delivery to job site and pick-up when complete. Excludes 0ff-road fuel costs. See CSI section 01 22 23 00-0890 for reimbursable fuel fees.		
01 22 23 00-1619	MO	100 Gallon Portable Double Wall Fuel Oil Tank Rental	396.94	
		For >6 Months (>26 Weeks), Deduct	*-15.88*	
01 22 23 00-1620	MO	275 Gallon Portable Double Wall Fuel Oil Tank Rental	617.46	
		For >6 Months (>26 Weeks), Deduct	*-24.70*	
01 22 23 00-1621	MO	500 Gallon Portable Double Wall Fuel Oil Tank Rental	1,543.66	
		For >6 Months (>26 Weeks), Deduct	*-61.75*	
01 22 23 00-1622	MO	1,000 Gallon Portable Double Wall Fuel Oil Tank Rental	2,572.76	
		For >6 Months (>26 Weeks), Deduct	*-102.91*	
01 22 23 00-1623	MO	2,300 Gallon Portable Double Wall Fuel Oil Tank Rental	3,396.05	
		For >6 Months (>26 Weeks), Deduct	*-135.84*	
01 22 23 00-1624	MO	5,000 Gallon Portable Double Wall Fuel Oil Tank Rental	6,066.82	
		For >6 Months (>26 Weeks), Deduct	*-242.67*	
01 22 23 00-1625		**Portable Spot Cooling Units** *(01 22 23 00-1531)* Note: Includes up to 20' duct. Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1626	DAY	1 Ton Portable Spot Cooling Unit	147.20	
		For Half Day Usage, Deduct	*-46.00*	
01 22 23 00-1627	WK	1 Ton Portable Spot Cooling Unit	318.94	
01 22 23 00-1628	MO	1 Ton Portable Spot Cooling Unit	753.94	
		For >6 Months (>26 Weeks), Deduct	*-30.16*	
01 22 23 00-1629	DAY	1.5 Ton Portable Spot Cooling Unit	192.49	
		For Half Day Usage, Deduct	*-60.15*	
01 22 23 00-1630	WK	1.5 Ton Portable Spot Cooling Unit	395.37	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1631	MO	1.5 Ton Portable Spot Cooling Unit	927.56	
		For >6 Months (>26 Weeks), Deduct	*-37.10*	
01 22 23 00-1632	DAY	2 Ton Portable Spot Cooling Unit	259.49	
		For Half Day Usage, Deduct	*-81.09*	
01 22 23 00-1633	WK	2 Ton Portable Spot Cooling Unit	542.57	
01 22 23 00-1634	MO	2 Ton Portable Spot Cooling Unit	1,004.93	
		For >6 Months (>26 Weeks), Deduct	*-40.20*	
01 22 23 00-1635	DAY	3 Ton Portable Spot Cooling Unit	271.76	
		For Half Day Usage, Deduct	*-84.93*	
01 22 23 00-1636	WK	3 Ton Portable Spot Cooling Unit	575.60	
01 22 23 00-1637	MO	3 Ton Portable Spot Cooling Unit	1,271.97	
		For >6 Months (>26 Weeks), Deduct	*-50.88*	
01 22 23 00-1638	DAY	5 Ton Portable Spot Cooling Unit	424.62	
		For Half Day Usage, Deduct	*-132.69*	
01 22 23 00-1639	WK	5 Ton Portable Spot Cooling Unit	858.68	
01 22 23 00-1640	MO	5 Ton Portable Spot Cooling Unit	1,784.35	
		For >6 Months (>26 Weeks), Deduct	*-71.37*	
01 22 23 00-1641	DAY	10 To 12 Ton Portable Spot Cooling Unit	554.84	
		For Half Day Usage, Deduct	*-173.39*	
01 22 23 00-1642	WK	10 To 12 Ton Portable Spot Cooling Unit	1,250.27	
01 22 23 00-1643	MO	10 To 12 Ton Portable Spot Cooling Unit	3,017.63	
		For >6 Months (>26 Weeks), Deduct	*-120.71*	
01 22 23 00-1644	DAY	20 Ton Portable Spot Cooling Unit	636.93	
		For Half Day Usage, Deduct	*-199.04*	
01 22 23 00-1645	WK	20 Ton Portable Spot Cooling Unit	1,462.58	
01 22 23 00-1646	MO	20 Ton Portable Spot Cooling Unit	4,076.35	
		For >6 Months (>26 Weeks), Deduct	*-163.05*	
01 22 23 00-1647	DAY	25 Ton Portable Spot Cooling Unit	905.86	
		For Half Day Usage, Deduct	*-283.08*	
01 22 23 00-1648	WK	25 Ton Portable Spot Cooling Unit	1,835.30	
01 22 23 00-1649	MO	25 Ton Portable Spot Cooling Unit	4,269.79	
		For >6 Months (>26 Weeks), Deduct	*-170.79*	
01 22 23 00-1650	EA	Set-up Charge For Rental Of Up To 5 Ton Portable Spot Cooler Note: Includes delivery, setup, connection to power outlet and conncection to duct and removal. Excludes electrical wiring.	274.20	
01 22 23 00-1651	EA	Set-up Charge For Rental Of 10 To 15 Ton Portable Spot Cooler Note: Includes delivery, setup, connection to power outlet and conncection to duct and removal. Excludes electrical wiring.	630.78	
01 22 23 00-1652	EA	Set-up Charge For Rental Of 20 To 25 Ton Portable Spot Cooler Note: Includes delivery, setup, connection to power outlet and conncection to duct and removal. Excludes electrical wiring.	931.54	

01 22 23 00-1653 Air Handling Unit (AHU) *(01 22 23 00-1531)*

Note: Excludes operator, delivery, set-up, and removal.

01 22 23 00-1654 Air Handling Unit (AHU) *(01 22 23 00-1653)*

01 22 23 00-1655	MO	5,000 CFM Air Handling Unit Rental	3,166.02	
		For >6 Months (>26 Weeks), Deduct	*-126.64*	
01 22 23 00-1656	MO	10,000 CFM Air Handling Unit Rental	3,273.75	
		For >6 Months (>26 Weeks), Deduct	*-130.95*	
01 22 23 00-1657	MO	25,000 CFM Air Handling Unit Rental	5,379.84	
		For >6 Months (>26 Weeks), Deduct	*-215.19*	

01 22 23 00-1658 Air Handling Unit Set-up *(01 22 23 00-1653)*

01 22 23 00-1659	EA	Set-up Charge For Rental Air Handling Unit Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.	1,117.61	
01 22 23 00-1660	MO	12" x 100' Flex Duct For AHU Rental Note: Includes four (4) 25' sections.	309.83	
01 22 23 00-1661	MO	20" x 100' Flex Duct For AHU Rental Note: Includes four (4) 25' sections.	374.64	

01 22 23 00-1662 Truck And Trailer Equipment *(01 22 23)*

01 22 23 00-1663 Trucks *(01 22 23 00-1662)*

Note: Includes driver, delivery to job site and pick-up when complete.

01 22 23 00-1664 Flat Bed Trucks *(01 22 23 00-1663)*

Note: Includes hydraulic tilt bed.

01 22 23 00-1665	DAY	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,097.73	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-494.23*	
01 22 23 00-1666	WK	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,795.59	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1667	MO	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	19,399.98	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-77.18*	
01 22 23 00-1668	DAY	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,223.75	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-533.61*	
01 22 23 00-1669	WK	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	5,118.51	
		For Equipment Without Operator, Deduct	*-4,031.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1670	MO	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	20,226.96	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-110.26*	
01 22 23 00-1671	DAY	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,314.16	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-561.86*	
01 22 23 00-1672	WK	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	5,464.11	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1673	MO	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	21,542.25	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-162.88*	

01 22 23 00-1674 Light Off-Road Utility Passenger Vehicles *(01 22 23 00-1663)*

01 22 23 00-1675	DAY	4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle	317.74	
		For Half Day Usage, Deduct	*-99.29*	
01 22 23 00-1676	WK	4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle	734.78	
01 22 23 00-1677	MO	4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle	1,588.72	
		For >6 Months (>26 Weeks), Deduct	*-63.55*	
01 22 23 00-1678	DAY	4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle	327.67	
		For Half Day Usage, Deduct	*-102.40*	
01 22 23 00-1679	WK	4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle	764.57	
01 22 23 00-1680	MO	4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle	1,688.02	
		For >6 Months (>26 Weeks), Deduct	*-67.52*	

01 22 23 00-1681 Light And Heavy Duty Trucks *(01 22 23 00-1663)*

01 22 23 00-1682	DAY	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	1,046.28	
		For Equipment Without Operator, Deduct	*-799.14*	
		For Half Day Usage, Deduct	*-476.80*	
01 22 23 00-1683	WK	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	4,806.60	
		For Equipment Without Operator, Deduct	*-3,995.68*	
01 22 23 00-1684	MO	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	19,013.68	
		For Equipment Without Operator, Deduct	*-17,314.62*	
		For >6 Months (>26 Weeks), Deduct	*-67.96*	
01 22 23 00-1685	DAY	3/4 Ton, 4 x 4 Heavy Duty Crew Cab Pickup Truck With Full-Time Truck Driver	1,092.61	
		For Equipment Without Operator, Deduct	*-799.14*	
		For Half Day Usage, Deduct	*-491.28*	
01 22 23 00-1686	WK	3/4 Ton, 4 x 4 Heavy Duty Crew Cab Pickup Truck With Full-Time Truck Driver	4,945.61	
		For Equipment Without Operator, Deduct	*-3,995.68*	
01 22 23 00-1687	MO	3/4 Ton, 4 x 4 Heavy Duty Crew Cab Pickup Truck With Full-Time Truck Driver	19,322.60	
		For Equipment Without Operator, Deduct	*-17,314.62*	
		For >6 Months (>26 Weeks), Deduct	*-80.32*	

01 22 23 00-1688 Rear Dump Trucks *(01 22 23 00-1663)*

01 22 23 00-1689	DAY	2.5 CY Rear Dump Truck With Full-Time Truck Driver	1,165.21	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-515.31*	
01 22 23 00-1690	WK	2.5 CY Rear Dump Truck With Full-Time Truck Driver	4,979.56	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1691	MO	2.5 CY Rear Dump Truck With Full-Time Truck Driver	20,372.70	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-116.09*	
01 22 23 00-1692	DAY	3 To 4 CY Rear Dump Truck With Full-Time Truck Driver	1,284.19	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-552.49*	
01 22 23 00-1693	WK	3 To 4 CY Rear Dump Truck With Full-Time Truck Driver	5,348.21	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1694	MO	3 To 4 CY Rear Dump Truck With Full-Time Truck Driver	20,883.74	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-136.54*	
01 22 23 00-1695	DAY	5 To 6 CY Rear Dump Truck With Full-Time Truck Driver	1,352.46	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-573.83*	
01 22 23 00-1696	WK	5 To 6 CY Rear Dump Truck With Full-Time Truck Driver	5,494.50	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1697	MO	5 To 6 CY Rear Dump Truck With Full-Time Truck Driver	20,981.26	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-140.44*	
01 22 23 00-1698	DAY	12 To 14 CY Rear Dump Truck With Full-Time Truck Driver	2,161.92	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-826.79*	
01 22 23 00-1699	WK	12 To 14 CY Rear Dump Truck With Full-Time Truck Driver	7,162.17	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1700	MO	12 To 14 CY Rear Dump Truck With Full-Time Truck Driver	25,662.46	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-327.68*	
01 22 23 00-1701	DAY	18 CY Rear Dump Truck With Full-Time Truck Driver	2,297.48	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-869.15*	
01 22 23 00-1702	WK	18 CY Rear Dump Truck With Full-Time Truck Driver	7,475.23	
		For Equipment Without Operator, Deduct	*-4,031.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1703	MO	18 CY Rear Dump Truck With Full-Time Truck Driver	26,481.67	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-360.45*	

01 22 23 00-1704 Tractor-Trailer Trucks *(01 22 23 00-1663)*

01 22 23 00-1705	DAY	Tractor, Truck, Diesel Powered, 4x2, 35,000 GVW, 329 HP, With Full Time Truck Driver	1,670.84	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-673.32*	
01 22 23 00-1706	WK	Tractor, Truck, Diesel Powered, 4x2, 35,000 GVW, 329 HP, With Full Time Truck Driver	7,489.73	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1707	MO	Tractor, Truck, Diesel Powered, 4x2, 35,000 GVW, 329 HP, With Full Time Truck Driver	29,828.50	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-494.33*	
01 22 23 00-1708	DAY	Tractor, Truck, Diesel Powered, 6x4, 75,000 GVW, 400 HP, With Full Time Truck Driver	1,948.64	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-760.14*	
01 22 23 00-1709	WK	Tractor, Truck, Diesel Powered, 6x4, 75,000 GVW, 400 HP, With Full Time Truck Driver	8,600.93	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1710	MO	Tractor, Truck, Diesel Powered, 6x4, 75,000 GVW, 400 HP, With Full Time Truck Driver	33,783.41	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-652.52*	

01 22 23 00-1711 Under-Bridge Inspection Trucks *(01 22 23 00-1663)*

01 22 23 00-1712	DAY	40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	4,854.68	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,668.27*	
01 22 23 00-1713	WK	40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	22,085.10	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1714	MO	40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	81,466.50	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-2,559.85*	
01 22 23 00-1715	DAY	50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	5,401.75	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,839.23*	
01 22 23 00-1716	WK	50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	23,179.24	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1717	MO	50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	85,595.29	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-2,725.00*	
01 22 23 00-1718	DAY	60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	5,730.00	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,941.81*	
01 22 23 00-1719	WK	60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	24,820.47	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1720	MO	60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	89,724.08	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-2,890.15*	
01 22 23 00-1721	DAY	75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	7,152.39	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-2,386.31*	
01 22 23 00-1722	WK	75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	31,385.37	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1723	MO	75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	110,367.99	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-3,715.91*	

01 22 23 00-1724 Vacuum Trucks *(01 22 23 00-1663)*

01 22 23 00-1725	DAY	1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	1,172.45	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-517.58*	
01 22 23 00-1726	WK	1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	5,122.83	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1727	MO	1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	20,693.73	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-128.93*	
01 22 23 00-1728	DAY	5,000 Gallon Vacuum Truck With Full-Time Truck Driver	2,152.16	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-823.74*	
01 22 23 00-1729	WK	5,000 Gallon Vacuum Truck With Full-Time Truck Driver	8,084.76	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1730	MO	5,000 Gallon Vacuum Truck With Full-Time Truck Driver	29,430.83	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-478.42*	

01 22 23 00-1731 Water Trucks *(01 22 23 00-1663)*

Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1421 for additional discharge hose, 01 22 23 00-1795 for water trailer.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1732	DAY	2,000 Gallon Water Truck With Full-Time Driver	1,452.43	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Each 1,000 Gallon Of Purchased Water, Add	*15.32*	
		For Half Day Usage, Deduct	*-605.07*	
01 22 23 00-1733	WK	2,000 Gallon Water Truck With Full-Time Driver	5,733.04	
		For Equipment Without Operator, Deduct	*-4,031.62*	
		For Each 1,000 Gallon Of Purchased Water, Add	*15.32*	
01 22 23 00-1734	MO	2,000 Gallon Water Truck With Full-Time Driver	21,490.60	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For Each 1,000 Gallon Of Purchased Water, Add	*15.32*	
		For >6 Months (>26 Weeks), Deduct	*-160.81*	
01 22 23 00-1735	DAY	3,700 To 4,000 Gallon Water Truck With Full-Time Truck Driver	1,768.31	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Each 1,000 Gallon Of Purchased Water, Add	*15.32*	
		For Half Day Usage, Deduct	*-703.78*	
01 22 23 00-1736	WK	3,700 To 4,000 Gallon Water Truck With Full-Time Truck Driver	6,680.67	
		For Equipment Without Operator, Deduct	*-4,031.62*	
		For Each 1,000 Gallon Of Purchased Water, Add	*15.32*	
01 22 23 00-1737	MO	3,700 To 4,000 Gallon Water Truck With Full-Time Truck Driver	23,931.46	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For Each 1,000 Gallon Of Purchased Water, Add	*15.32*	
		For >6 Months (>26 Weeks), Deduct	*-258.44*	

01 22 23 00-1738 Asphalt Distribution Trucks *(01 22 23 00-1663)*

01 22 23 00-1739	DAY	3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	2,156.27	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-825.02*	
01 22 23 00-1740	WK	3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	8,064.13	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1741	MO	3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	29,391.47	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-476.84*	

01 22 23 00-1742 Boom Trucks *(01 22 23 00-1663)*

01 22 23 00-1743	DAY	3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	1,348.98	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-572.74*	
01 22 23 00-1744	WK	3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	5,444.57	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1745	MO	3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	21,053.94	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-143.34*	

01 22 23 00-1746 Straight/Box Trucks *(01 22 23 00-1663)*

01 22 23 00-1747	DAY	18,000 Lb. Capacity, 24' Straight/Box Truck With Full-Time Truck Driver Note: Includes 2,500 Lb. lift gate.	930.76	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-442.05*	
01 22 23 00-1748	WK	18,000 Lb. Capacity, 24' Straight/Box Truck With Full-Time Truck Driver Note: Includes 2,500 Lb. lift gate.	4,653.82	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1749	MO	18,000 Lb. Capacity, 24' Straight/Box Truck With Full-Time Truck Driver Note: Includes 2,500 Lb. lift gate.	19,307.04	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-73.47*	

01 22 23 00-1750 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board *(01 22 23 00-1663)*

01 22 23 00-1751	DAY	Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	1,544.55	
		For Equipment Without Operator, Deduct	*-799.14*	
		For Half Day Usage, Deduct	*-632.51*	
01 22 23 00-1752	WK	Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	6,195.60	
		For Equipment Without Operator, Deduct	*-3,995.68*	
01 22 23 00-1753	MO	Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	22,657.05	
		For Equipment Without Operator, Deduct	*-17,314.62*	
		For >6 Months (>26 Weeks), Deduct	*-213.70*	

01 22 23 00-1754 Truck Mounted Scissor Platform Lifts *(01 22 23 00-1663)*

01 22 23 00-1755	DAY	14' Truck-Mounted Platform Lift With Full-Time Truck Driver	2,994.62	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,087.00*	
01 22 23 00-1756	WK	14' Truck-Mounted Platform Lift With Full-Time Truck Driver	9,502.37	
		For Equipment Without Operator, Deduct	*-4,031.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1757	MO	14' Truck-Mounted Platform Lift With Full-Time Truck Driver	32,788.46	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-612.72*	

01 22 23 00-1758 Vacuum Sweeper Trucks For Bridge Decks *(01 22 23 00-1663)*

01 22 23 00-1759	DAY	Vacuum Sweeper Truck, With Full-Time Truck Driver	2,152.16	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-823.74*	
01 22 23 00-1760	WK	Vacuum Sweeper Truck, With Full-Time Truck Driver	8,084.76	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1761	MO	Vacuum Sweeper Truck, With Full-Time Truck Driver	29,430.83	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-478.42*	

01 22 23 00-1762 Combination Jet/Vacuum Trucks *(01 22 23 00-1663)*

01 22 23 00-1763	DAY	500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,414.77	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,218.30*	
01 22 23 00-1764	WK	500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	16,242.33	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1765	DAY	1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,869.94	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,360.54*	
01 22 23 00-1766	WK	1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	18,890.18	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1767	DAY	2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	4,307.60	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,497.31*	
01 22 23 00-1768	WK	2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	21,538.02	
		For Equipment Without Operator, Deduct	*-4,031.62*	

01 22 23 00-1769 Truck Mounted Under-Bridge Aerial Access *(01 22 23 00-1663)*

01 22 23 00-1770	DAY	Truck Mounted Under-Bridge Aerial Access, 29.7' Horizontal, 21.5' Vertical, 990 Lb. Capacity At 35' With Full-Time Truck Driver	4,417.02	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,531.50*	
01 22 23 00-1771	WK	Truck Mounted Under-Bridge Aerial Access, 29.7' Horizontal, 21.5' Vertical, 990 Lb. Capacity At 35' With Full-Time Truck Driver	20,443.87	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1772	MO	Truck Mounted Under-Bridge Aerial Access, 29.7' Horizontal, 21.5' Vertical, 990 Lb. Capacity At 35' With Full-Time Truck Driver	83,848.79	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-2,655.14*	
01 22 23 00-1773	DAY	Truck Mounted Under-Bridge Aerial Access, 66' Horizontal, 31.4' Vertical, 1,760 Lb. Capacity At 35' With Full-Time Truck Driver	5,128.21	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,753.75*	
01 22 23 00-1774	WK	Truck Mounted Under-Bridge Aerial Access, 66' Horizontal, 31.4' Vertical, 1,760 Lb. Capacity At 35' With Full-Time Truck Driver	23,179.24	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1775	MO	Truck Mounted Under-Bridge Aerial Access, 66' Horizontal, 31.4' Vertical, 1,760 Lb. Capacity At 35' With Full-Time Truck Driver	93,331.43	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-3,034.44*	

01 22 23 00-1776 Truck Mounted Accessories *(01 22 23 00-1662)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-1777 Truck Mounted Arrow Boards *(01 22 23 00-1776)*

01 22 23 00-1778	DAY	Truck Mounted Arrow Board	48.77	
		For Half Day Usage, Deduct	*-15.24*	
01 22 23 00-1779	WK	Truck Mounted Arrow Board	193.99	
01 22 23 00-1780	MO	Truck Mounted Arrow Board	691.70	
		For >6 Months (>26 Weeks), Deduct	*-27.67*	

01 22 23 00-1781 Trailers *(01 22 23 00-1662)*

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-1782 Platform Trailers *(01 22 23 00-1781)*

01 22 23 00-1783	DAY	25 Ton Capacity Platform Trailer	172.07	
		For Half Day Usage, Deduct	*-53.77*	
01 22 23 00-1784	WK	25 Ton Capacity Platform Trailer	677.64	
01 22 23 00-1785	MO	25 Ton Capacity Platform Trailer	2,412.28	
		For >6 Months (>26 Weeks), Deduct	*-96.49*	
01 22 23 00-1786	DAY	40 Ton Capacity Platform Trailer	179.87	
		For Half Day Usage, Deduct	*-56.21*	
01 22 23 00-1787	WK	40 Ton Capacity Platform Trailer	714.18	
01 22 23 00-1788	MO	40 Ton Capacity Platform Trailer	2,559.50	
		For >6 Months (>26 Weeks), Deduct	*-102.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1789	DAY	50 Ton Capacity Platform Trailer	206.49	
		For Half Day Usage, Deduct	*-64.53*	
01 22 23 00-1790	WK	50 Ton Capacity Platform Trailer	815.29	
01 22 23 00-1791	MO	50 Ton Capacity Platform Trailer	2,912.22	
		For >6 Months (>26 Weeks), Deduct	*-116.49*	
01 22 23 00-1792	DAY	75 Ton Capacity Platform Trailer	269.64	
		For Half Day Usage, Deduct	*-84.26*	
01 22 23 00-1793	WK	75 Ton Capacity Platform Trailer	1,067.89	
01 22 23 00-1794	MO	75 Ton Capacity Platform Trailer	3,821.87	
		For >6 Months (>26 Weeks), Deduct	*-152.87*	

01 22 23 00-1795 Water Trailers With Pump *(01 22 23 00-1781)*

01 22 23 00-1796	DAY	500 To 600 Gallon Water Trailer With Pump	165.12	
		For Half Day Usage, Deduct	*-51.60*	
01 22 23 00-1797	WK	500 To 600 Gallon Water Trailer With Pump	423.56	
01 22 23 00-1798	MO	500 To 600 Gallon Water Trailer With Pump	1,134.28	
		For >6 Months (>26 Weeks), Deduct	*-45.37*	

01 22 23 00-1799 Manual Powered, Full, Rear Dump Trailer *(01 22 23 00-1781)*

01 22 23 00-1800	DAY	10 CY, Manual Powered, Full, Rear Dump Trailer	292.47	
		For Half Day Usage, Deduct	*-91.40*	
01 22 23 00-1801	WK	10 CY, Manual Powered, Full, Rear Dump Trailer	1,167.66	
01 22 23 00-1802	MO	10 CY, Manual Powered, Full, Rear Dump Trailer	4,182.66	
		For >6 Months (>26 Weeks), Deduct	*-167.31*	
01 22 23 00-1803	DAY	13 CY, Manual Powered, Full, Rear Dump Trailer	336.08	
		For Half Day Usage, Deduct	*-105.03*	
01 22 23 00-1804	WK	13 CY, Manual Powered, Full, Rear Dump Trailer	1,344.34	
01 22 23 00-1805	MO	13 CY, Manual Powered, Full, Rear Dump Trailer	4,797.50	
		For >6 Months (>26 Weeks), Deduct	*-191.90*	
01 22 23 00-1806	DAY	16 CY, Manual Powered, Full, Rear Dump Trailer	376.68	
		For Half Day Usage, Deduct	*-117.71*	
01 22 23 00-1807	WK	16 CY, Manual Powered, Full, Rear Dump Trailer	1,495.44	
01 22 23 00-1808	MO	16 CY, Manual Powered, Full, Rear Dump Trailer	5,322.69	
		For >6 Months (>26 Weeks), Deduct	*-212.91*	

01 22 23 00-1809 Hydraulic Lift, Rear Dump Trailers *(01 22 23 00-1781)*

01 22 23 00-1810	DAY	30 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	336.49	
		For Half Day Usage, Deduct	*-105.15*	
01 22 23 00-1811	WK	30 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	1,456.92	
01 22 23 00-1812	MO	30 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	5,455.57	
01 22 23 00-1813	DAY	40 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	416.33	
		For Half Day Usage, Deduct	*-130.10*	
01 22 23 00-1814	WK	40 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	1,811.01	
01 22 23 00-1815	DAY	40 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	6,759.13	
		For Half Day Usage, Deduct	*-2,112.23*	
01 22 23 00-1816	DAY	60 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	544.43	
		For Half Day Usage, Deduct	*-170.13*	
01 22 23 00-1817	WK	60 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	2,350.02	
01 22 23 00-1818	MO	60 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	8,779.88	
01 22 23 00-1819	DAY	80 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	575.10	
		For Half Day Usage, Deduct	*-179.72*	
01 22 23 00-1820	WK	80 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	2,469.55	
01 22 23 00-1821	MO	80 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	9,190.35	
01 22 23 00-1822	DAY	100 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	589.99	
		For Half Day Usage, Deduct	*-184.37*	
01 22 23 00-1823	WK	100 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	2,532.70	
01 22 23 00-1824	MO	100 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	9,454.22	

01 22 23 00-1825 Trailer Mounted Equipment *(01 22 23 00-1662)*

01 22 23 00-1826 Trailer Mounted Under-Bridge Aerial Access Platform *(01 22 23 00-1825)*

Note: Includes full-time operator. Excludes truck.

01 22 23 00-1827	DAY	Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	3,074.19	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,111.87*	
01 22 23 00-1828	WK	Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	10,835.24	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1829	MO	Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	36,369.31	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-755.96*	
01 22 23 00-1830	DAY	Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	3,300.98	
		For Equipment Without Operator, Deduct	*-806.32*	
		For Half Day Usage, Deduct	*-1,182.74*	
01 22 23 00-1831	WK	Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	11,515.61	
		For Equipment Without Operator, Deduct	*-4,031.62*	
01 22 23 00-1832	MO	Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	38,259.21	
		For Equipment Without Operator, Deduct	*-17,470.36*	
		For >6 Months (>26 Weeks), Deduct	*-831.55*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1833		Trailer Mounted Bridge Stripping Buggy *(01 22 23 00-1825)*		
01 22 23 00-1834	DAY	Trailer Mounted Bridge Overhang Stripping Buggy	257.34	
		For Half Day Usage, Deduct	*-80.42*	
01 22 23 00-1835	WK	Trailer Mounted Bridge Overhang Stripping Buggy	772.06	
01 22 23 00-1836	MO	Trailer Mounted Bridge Overhang Stripping Buggy	2,144.53	
		For >6 Months (>26 Weeks), Deduct	*-85.78*	
01 22 23 00-1837		Portable Trailer Mounted, CCTV Camera Systems *(01 22 23 00-1825)*		
		Note: Includes trailer. Excludes truck.		
01 22 23 00-1838	MO	Portable Trailer Mounted, Single Camera, CCTV Camera System	2,978.85	
		For >6 Months (>26 Weeks), Deduct	*-119.15*	
01 22 23 00-1839	MO	Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System	5,163.34	
		For >6 Months (>26 Weeks), Deduct	*-206.53*	
01 22 23 00-1840		CALTRANs Equipment Rental Rates *(01 22 23)*		
		Note: An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act. (These tasks will be requested specifically by the owner for miscellaneous work not covered in the Construction Task Catalog®)		
01 22 23 00-1841	EA	CALTRANs Equipment Rental Rates, Reimbursable	1.00	
		Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee. Per https://dot.ca.gov/programs/construction/equipment-rental-rates-and-labor-surcharge (Use most current dated PDF)		

01 30 Administrative Requirements *(01)*

01 31 Project Management and Coordination *(01 30)*

01 31 33 Project Minimum Labor Costs *(01 31)*

01 31 33 00-0001		Minimum Charge For Labor *(01 31 33)*		
		Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.		
01 31 33 00-0002	EA	Minimum Charge For Brick Layer	1,000.27	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0003	EA	Minimum Charge For Carpenter	1,257.52	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0004	EA	Minimum Charge For Carpet, Linoleum	1,018.74	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0005	EA	Minimum Charge For Cement Mason	892.14	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0006	EA	Minimum Charge For Drywall Finisher	1,111.67	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0007	EA	Minimum Charge For Drywall Installer	1,218.12	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0008	EA	Minimum Charge For Electrician	1,046.26	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0009	EA	Minimum Charge For Glazier	945.19	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0010	EA	Minimum Charge For Insulator	1,107.53	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0011	EA	Minimum Charge For Laborer	787.33	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0012	EA	Minimum Charge For Landscape Maintenance Worker	912.33	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0013	EA	Minimum Charge For Ornamental Metal Worker	1,098.48	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0014	EA	Minimum Charge For Painter, Ordinary	799.31	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0015	EA	Minimum Charge For Plasterer	1,114.02	
		Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 31 33 00-0016	EA	Minimum Charge For Plumber Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,228.39	
01 31 33 00-0017	EA	Minimum Charge For Roofer, Tile/Slate Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,211.15	
01 31 33 00-0018	EA	Minimum Charge For Roofer, Composite Built-Up Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,244.60	
01 31 33 00-0019	EA	Minimum Charge For Sheet Metal Worker Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,154.95	
01 31 33 00-0020	EA	Minimum Charge For Sprinkler Installer Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,035.36	
01 31 33 00-0021	EA	Minimum Charge For Tile Layer (Floor) Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	967.36	

01 35 Special Procedures *(01 30)*

01 35 29 Health, Safety, and Emergency Response Procedures *(01 35)*

See CSI section 02 90 00 00-0000 for disaster recovery task.

01 35 29 00-0001 Emergency Response *(01 35 29)*

See CSI section 01 22 20 00-0001 for labor services to load and unload shipping container, 01 22 20 00-0058 for security guards, 01 22 23 00-0000 for portable equipment usage (air compressors, generators, lighting, etc.), 01 52 13 00-0030 for container usage.

01 35 29 00-0002	MI	Trucking Delivery Of 20' Shipping Container	2.77
01 35 29 00-0003	MI	Trucking Delivery Of 40' Shipping Container	5.54

01 35 33 Infection Control Procedures *(01 35)*

See CSI section 02 87 19 00-0000 for Bio-Hazard And Infectious Disease Control Remediation.

01 40 Quality Requirements *(01)*

01 41 Regulatory Requirements *(01 40)*

01 41 26 Permit Requirements *(01 41)*

See CSI section 01 22 16 00-0001 for reimbursable fees.

01 42 References *(01 40)*

01 42 13 Abbreviations and Acronyms *(01 42)*

Note: For specification publishing. Review specifications for requirements.

01 42 13 00-0001	NTE	Abbreviations And Acronyms Note: For specification publishing. Review specifications for requirements.	0.00

01 42 16 Definitions *(01 42)*

Note: For specification publishing. Review specifications for requirements.

01 42 16 00-0001	NTE	Definitions Note: For specification publishing. Review specifications for requirements.	0.00

01 42 19 Reference Standards *(01 42)*

Note: For specification publishing. Review specifications for requirements.

01 42 19 00-0001	NTE	Reference Standards Note: For specification publishing. Review specifications for requirements.	0.00

01 42 21 Construction Suppliers or Venor List *(01 42)*

Note: For specification publishing. Review specifications for requirements.

01 42 21 00-0001	NTE	Construction Suppliers or Venor List Note: For specification publishing. Review specifications for requirements.	0.00

01 45 Quality Control *(01 40)*

Note: Refer to section specifications for testing included with other sections.

01 45 23 Testing and Inspecting Services *(01 45)*

Note: For application to existing materials/site conditions or additional testing over specifications stated tests. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.

01 45 23 00-0001 Soils/Aggregate Testing *(01 45 23)*

01 45 23 00-0002 Field Soils Tests *(01 45 23 00-0001)*

01 45 23 00-0003	EA	Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	362.89
01 45 23 00-0004	EA	4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	515.06
01 45 23 00-0005	EA	6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	585.30
01 45 23 00-0006	EA	Resistance (R) Value Soils Test, CA 301, Field Soils Test	468.24
01 45 23 00-0007	EA	Soils Classification Test, ASTM D-2487, Field Soils Test	702.36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0008	SET	Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test	1,404.23	
01 45 23 00-0009	EA	Moisture Content, Field Soils Test	52.66	
01 45 23 00-0010	EA	UBC Or Swell Test, Field Soils Test	140.47	
01 45 23 00-0011	EA	Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test	351.06	
01 45 23 00-0012	EA	Proctor Compaction 6" Standard Mold, Field Soils Test	438.82	
01 45 23 00-0013	EA	Density And Classification Test, Field Soils Test	106.93	
01 45 23 00-0014	EA	Percolation Test, Field Soils Test	267.32	
01 45 23 00-0015	EA	Infiltration Test, Field Soils Test	534.64	
01 45 23 00-0016		Aggregate Testing *(01 45 23 00-0001)*		
01 45 23 00-0017	EA	Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202	117.06	
01 45 23 00-0018	EA	Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202	210.71	
01 45 23 00-0019	EA	Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202	292.65	
01 45 23 00-0020	EA	Sieve Analysis, Pit Run, ASTM C136 Note: Includes wash.	173.76	
01 45 23 00-0021	EA	Specific Special Gravity, Course, ASTM C127 Note: Includes absorption test.	185.99	
01 45 23 00-0022	EA	Special Gravity, Fine, ASTM C127 Note: Includes absorption test.	166.75	
01 45 23 00-0023	EA	Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	247.99	
01 45 23 00-0024	EA	Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	234.12	
01 45 23 00-0025	EA	Aggregate Cleanness Value, ASTM C-128, CA 227	234.12	
01 45 23 00-0026	EA	Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217	175.59	
01 45 23 00-0027	EA	Fine Aggregate Durability Index, CA 229	187.30	
01 45 23 00-0028	EA	Sodium And Magnesium Soundness, ASTM C88	491.48	
01 45 23 00-0029	EA	Los Angeles Rattler, ASTM C-131, CA 211	374.59	
01 45 23 00-0030	EA	Los Angeles Rattler, ASTM C-535	374.59	
01 45 23 00-0031	EA	Unit Weight Of Aggregates, ASTM C29	105.35	
01 45 23 00-0032	EA	Organic Impurities In Sand, ASTM C40	105.32	
01 45 23 00-0033	EA	Crushed Particle, ASTM California Test Method	105.32	
01 45 23 00-0034	EA	Clay Lump And Friable Particles, ASTM C142	210.63	
01 45 23 00-0035		Permeability Tests *(01 45 23 00-0001)*		
01 45 23 00-0036		In-Place Tests *(01 45 23 00-0035)*		
01 45 23 00-0037	EA	Double Ring Infiltrometer Test, ASTM D3385	1,859.92	
01 45 23 00-0038	EA	Unconfined Compressive Strength (Pocket Penetrometer) Test	87.76	
01 45 23 00-0039		Lab Tests *(01 45 23 00-0035)*		
01 45 23 00-0040	EA	Falling Head Rigid Wall Consolidometer Technique CAE	867.96	
01 45 23 00-0041	EA	Falling Head Permeability Test EPA-9100	867.96	
01 45 23 00-0042	EA	Constant Head Permeability Test For Granular Soils, ASTM D2432	495.98	
01 45 23 00-0043		Insitu Tests *(01 45 23 00-0001)*		
01 45 23 00-0044	EA	Standard Penetration With Split Spoon	29.67	
01 45 23 00-0045	EA	Split Spoon Tripod	55.38	
01 45 23 00-0046	EA	Thin Walled Tube/Shelby	158.22	
01 45 23 00-0047	VLF	Cone Penetrometer	11.87	
01 45 23 00-0048	EA	Pressuremeter Insitu Test	296.66	
01 45 23 00-0049	VLF	Dilatometer Insitu Test	5.93	
01 45 23 00-0050	EA	Permeability	197.78	
01 45 23 00-0051	VLF	Observation Well With SB	27.69	
01 45 23 00-0052	VLF	Observation Well Without SB	39.56	
01 45 23 00-0053	EA	Slope Indicator Casing	69.22	
01 45 23 00-0054		Concrete/Cement/Asphalt Testing *(01 45 23)*		
01 45 23 00-0055		Concrete Testing *(01 45 23 00-0054)*		
01 45 23 00-0056	EA	Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	27.14	
01 45 23 00-0057	EA	6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633	74.40	
01 45 23 00-0058	EA	Concrete Cores Compression Test, ASTM C-42	152.18	
01 45 23 00-0059	EA	6 x 6 x 18 Concrete Flexural Test, ASTM C-78	222.41	
01 45 23 00-0060	EA	Unit Weight Of Concrete Cylinder, ASTM C-567	81.94	
01 45 23 00-0061	EA	Concrete Mix Design Review	444.83	
01 45 23 00-0062	EA	Trial Concrete Batch Prepared In Laboratory	1,053.54	
01 45 23 00-0063	EA	Concrete Shrinkage, ASTM C-157 Modified	819.42	
01 45 23 00-0064	EA	6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496	126.42	
01 45 23 00-0065	EA	Concrete Slump Test, ASTM C143	58.53	
01 45 23 00-0066	EA	Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	58.53	
01 45 23 00-0067		Cement Testing *(01 45 23 00-0054)*		
01 45 23 00-0068	EA	CCR Title 24, Cement Grab Sample Note: Includes sealing and storing 1 year.	58.53	
01 45 23 00-0069	EA	2" x 2" x 2" Cube Compression Test, All Type Materials	93.65	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0070		Asphaltic Concrete Testing *(01 45 23 00-0054)*		
01 45 23 00-0071	EA	Hveem Asphaltic Concrete Stability Test, CA 366	117.06	
01 45 23 00-0072	EA	Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	304.36	
01 45 23 00-0073	EA	Stability Tests, Premixed, ASTM D1559	117.06	
01 45 23 00-0074	EA	Stability Tests, Lab. Mixed, ASTM D1559	304.36	
01 45 23 00-0075	EA	Swell Test, CA 305	140.47	
		Note: Includes compaction.		
01 45 23 00-0076	EA	% Asphalt Extraction Test, ASTM D-2172 B	351.18	
01 45 23 00-0077	EA	Gradation On Extracted Sample, ASTM D-5444	234.12	
01 45 23 00-0078	EA	Maximum Theoretical Unit Weight, ASTM C2041	223.19	
01 45 23 00-0079	EA	Unit Weight Sample Requiring Compaction, California Test Method 308	46.82	
01 45 23 00-0080	EA	Asphalt Unit Weight On Core Test, CA 308C	46.82	
01 45 23 00-0081	HR	Nuclear Field Density Testing, 4 Hour Minimum	241.14	
01 45 23 00-0082	EA	Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	120.29	
01 45 23 00-0083	EA	Penetration, ASTM D5	169.10	
01 45 23 00-0084		Masonry/Concrete Block/Tile Testing *(01 45 23)*		
01 45 23 00-0085		Masonry Testing *(01 45 23 00-0084)*		
01 45 23 00-0086	EA	2" x 4" Cylinder Mortar Compression Test	77.26	
01 45 23 00-0087	EA	4" x 4" x 8" Grout Prisms Compression Test	77.26	
01 45 23 00-0088	EA	Masonry Cores Compression Test	152.18	
01 45 23 00-0089	EA	Composite Grouted Prism Compression Test	292.65	
01 45 23 00-0090		Concrete Block Testing (ASTM C140 Or CMA Per Specimen) *(01 45 23 00-0084)*		
01 45 23 00-0091	EA	Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140	187.30	
01 45 23 00-0092	EA	Absorption Test, Moisture Content And Unit Weight	128.77	
01 45 23 00-0093	EA	First Unit, Moisture Condition By Relative Humidity, ASTM C427	491.48	
01 45 23 00-0094	EA	Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	245.74	
01 45 23 00-0095		Metals Testing *(01 45 23)*		
01 45 23 00-0096		Tank Tightness Testing *(01 45 23 00-0095)*		
01 45 23 00-0097	GAL	Up To 20 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	9.10	
01 45 23 00-0098	GAL	>20 To 120 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	7.80	
01 45 23 00-0099	EA	Up To 12,000 Gallons, Tank Volumetric Tightness Testing	2,340.44	
01 45 23 00-0100	EA	>12,000 To 29,999 Gallons, Tank Volumetric Tightness Testing	2,859.62	
01 45 23 00-0101	EA	>29,999 Gallons, Tank Volumetric Tightness Testing	3,641.85	
01 45 23 00-0102		Tank Line Tightness Testing *(01 45 23 00-0095)*		
01 45 23 00-0103	EA	Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	493.85	
01 45 23 00-0104	EA	>12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing	548.36	
01 45 23 00-0105	EA	>29,999 Gallons, Tank Line Volumetric Tightness Testing	602.69	
01 45 23 00-0106		Reinforcing Steel Tensile Testing *(01 45 23 00-0095)*		
01 45 23 00-0107	EA	Up To #8 Reinforcing Steel Bar, Tensile Testing On Existing Material	73.63	
01 45 23 00-0108	EA	>#8 To #12 Reinforcing Steel Bar, Tensile Testing On Existing Material	87.79	
01 45 23 00-0109	EA	>#12 Reinforcing Steel Bar, Tensile Testing On Existing Material	110.44	
01 45 23 00-0110		Other Testing *(01 45 23)*		
01 45 23 00-0111		Special Testing *(01 45 23 00-0110)*		
01 45 23 00-0112	EA	Asphalt Roofing Cutout Samples, To Determine Unit Weight	175.53	
01 45 23 00-0113	EA	Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	1,053.17	
01 45 23 00-0114	EA	Total Coliform Bacteria And E. Coli Bacteria Test	54.71	
01 45 23 00-0115	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample	226.93	
01 45 23 00-0116	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample	226.93	
01 45 23 00-0117	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample	226.93	
01 45 23 00-0118	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample	1,248.12	
01 45 23 00-0119	EA	Testing And Certification Of Backflow Valves	599.07	
01 45 23 00-0120		Non-destructive Field Testing Services *(01 45 23 00-0110)*		
01 45 23 00-0121		Infrared Thermography *(01 45 23 00-0120)*		
		Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0122		Roof Investigation And Moisture Survey Using Infrared Thermography *(01 45 23 00-0121)*		
		Note: For on the roof surveys.		
01 45 23 00-0123	EA	Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge	4,084.74	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0124	CSF	Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	6.81	
		For CADD Drawings, Add	*1.36*	
01 45 23 00-0125	CSF	>10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	4.54	
		For CADD Drawings, Add	*0.91*	
01 45 23 00-0126	CSF	>50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	3.40	
		For CADD Drawings, Add	*0.68*	
		For Elevated Infrared Thermography Roof Investigation, Add	*0.85*	
		For Aerial Infrared Thermography Roof Investigation, Add	*0.85*	
01 45 23 00-0127	CSF	>250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	2.27	
		For CADD Drawings, Add	*0.45*	
		For Elevated Infrared Thermography Roof Investigation, Add	*0.57*	
		For Aerial Infrared Thermography Roof Investigation, Add	*0.57*	

01 45 23 00-0128 Building Moisture Investigation Using Infrared Thermography *(01 45 23 00-0121)*

Note: For finding moisture in walls and windows.

01 45 23 00-0129	EA	Building Moisture Investigation Using Infrared Thermography, Mobilization Charge	2,155.84	
01 45 23 00-0130	CSF	Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography	6.81	
		For Digital Or Analog Recording Of All Items, Add	*3.41*	
01 45 23 00-0131	CSF	>1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography	4.54	
		For Digital Or Analog Recording Of All Items, Add	*2.27*	
01 45 23 00-0132	CSF	>5,000 SF, Building Moisture Investigation Using Infrared Thermography	2.27	
		For Digital Or Analog Recording Of All Items, Add	*1.14*	

01 45 23 00-0133 General Building Investigation Using Infrared Thermography *(01 45 23 00-0121)*

Note: For finding missing or misplaced insulation, air leakage and delamination.

01 45 23 00-0134	EA	General Building Investigation Using Infrared Thermography, Mobilization Charge	4,425.14	
01 45 23 00-0135	CSF	Up To 1,000 SF, General Building Investigation Using Infrared Thermography	6.81	
		For Digital Or Analog Recording Of All Items, Add	*3.41*	
01 45 23 00-0136	CSF	>1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography	4.54	
		For Digital Or Analog Recording Of All Items, Add	*2.27*	
01 45 23 00-0137	CSF	>5,000 SF, General Building Investigation Using Infrared Thermography	2.27	
		For Digital Or Analog Recording Of All Items, Add	*1.14*	

01 45 23 00-0138 Electrical /Mechanical Equipment Scanning Using Infrared Thermography *(01 45 23 00-0121)*

Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.

01 45 23 00-0139	EA	Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge	2,155.84	
01 45 23 00-0140	HR	Electrical /Mechanical Equipment Scanning Using Infrared Thermography	200.79	
		For Digital Or Analog Recording Of All Items, Add	*30.05*	

01 45 23 00-0141 Concrete Block Wall Investigation Using Infrared Thermography *(01 45 23 00-0121)*

Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.

01 45 23 00-0142	EA	Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	2,155.84	
01 45 23 00-0143	CSF	Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	6.81	
		For Digital Or Analog Recording Of All Items, Add	*1.02*	
01 45 23 00-0144	CSF	>50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	4.54	
		For Digital Or Analog Recording Of All Items, Add	*0.68*	

01 45 23 00-0145 Other Non-destructive Field Testing Services *(01 45 23 00-0120)*

01 45 23 00-0146	HR	ASNT Certified Level I NDT Consultant	77.35	
01 45 23 00-0147	HR	ASNT Certified Level II NDT Consultant	86.50	
01 45 23 00-0148	HR	ASNT Certified Level III NDT Consultant	101.68	
01 45 23 00-0149	HR	Certified Industrial Radiography Radiation Safety Personnel	116.45	

01 45 23 00-0150 Testing Professional Services *(01 45 23 00-0110)*

01 45 23 00-0151	HR	Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection	217.73	
01 45 23 00-0152	HR	Laboratory Technician	210.71	
01 45 23 00-0153	HR	Portable Digital Reinforcement Scanner	304.36	
01 45 23 00-0154	HR	Subsurface Detection Radar System	515.06	
01 45 23 00-0155	HR	Pavement Rehabilitation Analysis Using Deflectors	585.30	

01 45 23 00-0156 Concrete Slab Moisture Testing *(01 45 23 00-0110)*

01 45 23 00-0157	EA	Concrete Slab, Moisture Emission Determination For Floor Covering On Existing Concrete	166.88	

01 45 29 Testing Laboratory Services *(01 45)*

Note: For application to existing materials/site conditions or additional testing over specifications stated tests.

01 45 29 00-0001 Soil Borings Laboratory Tests *(01 45 29)*

01 45 29 00-0002	EA	Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test	161.19	
01 45 29 00-0003	EA	Shrinkage Limit, Soil Borings Laboratory Test	51.43	
01 45 29 00-0004	EA	Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test	124.00	
01 45 29 00-0005	EA	Consolidation, Soil Borings Laboratory Test	867.96	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 29 00-0006	EA	Swell Test, Soil Borings Laboratory Test	136.08	
01 45 29 00-0007	EA	In Place Density, Soil Borings Laboratory Test	37.20	
01 45 29 00-0008	EA	Moisture Content, ASTM D2216, Soil Borings Laboratory Test	23.11	
01 45 29 00-0009	EA	Moisture-Density Determination, Standard, ASTM D698, Soil Borings Laboratory Test	186.55	
01 45 29 00-0010	EA	Moisture-Density Determination, Modified, ASTM D1557, Soil Borings Laboratory Test	186.55	
01 45 29 00-0011	EA	Moisture-Density Determination, One Point Test, Soil Borings Laboratory Test	103.64	
01 45 29 00-0012	EA	Hydrometer Analysis, Soil Borings Laboratory Test	298.36	
01 45 29 00-0013	EA	Specific Gravity, ASTM D854, Soil Borings Laboratory Test	104.02	
01 45 29 00-0014	EA	Partial Sieve Analysis, Soil Borings Laboratory Test	20.57	
01 45 29 00-0015	EA	Laboratory Permeability, Soil Borings Laboratory Test	1,028.53	
01 45 29 00-0016	EA	Sieve Analysis, ASTM D422, Soil Borings Laboratory Test	208.04	
01 45 29 00-0017	EA	Sulfate Soundness, Soil Borings Laboratory Test	257.13	
01 45 29 00-0018	EA	Los Angeles Abrasion, Soil Borings Laboratory Test	475.98	
01 45 29 00-0019	EA	Soil Bearing Ratio, ASTM D1883	526.77	
01 45 29 00-0020	EA	Compaction Test Subgrade, Soil Borings Laboratory Test	154.28	
01 45 29 00-0021	EA	Compaction Test Base Course, Soil Borings Laboratory Test	171.42	
01 45 29 00-0022	EA	In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test	367.92	
01 45 29 00-0023	EA	Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test	78.85	
01 45 29 00-0024	EA	Direct Shear Per Point, ASTM D3080, Soil Borings Laboratory Test	310.91	
01 45 29 00-0025	EA	Unconfined Compression, ASTM D2166 And D2938, Soil Borings Laboratory Test	103.64	
01 45 29 00-0026	EA	Triaxial Shear, Per Point, ASTM D2850, Unconsolidated-Undrained, Soil Borings Laboratory Test	414.54	
01 45 29 00-0027	EA	Triaxial Shear, Per Point, ASTM D2850, Consolidated-Undrained, Soil Borings Laboratory Test	777.27	
01 45 29 00-0028	EA	Triaxial Shear, Per Point, ASTM D2850, Consolidated-Drained, Soil Borings Laboratory Test	932.73	
01 45 29 00-0029	EA	Permeability, ASTM D2434, Soil Borings Laboratory Test	466.36	
01 45 29 00-0030	EA	Permeability, ASTM D2434, Undisturbed/Remolded, Soil Borings Laboratory Test	518.18	
01 45 29 00-0031	EA	One-Dimension Consolidation/Swell, ASTM D2435 And D4186, 4 KSF Load, Soil Borings Laboratory Test	414.54	
01 45 29 00-0032	EA	One-Dimension Consolidation/Swell, ASTM D2435 And D4186, 8 KSF Load, Soil Borings Laboratory Test	155.45	
01 45 29 00-0033	EA	One-Dimension Consolidation/Swell, ASTM D2435 And D4186, 16 KSF Load, Soil Borings Laboratory Test	155.45	
01 45 29 00-0034	EA	One-Dimension Consolidation/Swell, ASTM D2435 And D4186, 32 KSF Load, Soil Borings Laboratory Test	155.45	
01 45 29 00-0035	EA	Classification Of Soil, ASTM D2487, Soil Borings Laboratory Test	124.36	

01 45 29 00-0036 Soil Testing *(01 45 29)*

Note: Analyses must be conducted in accordance with SW846 and TACO requirements. Analytical methods provided herein are suggested methods.

01 45 29 00-0037	EA	Laboratory Analysis For VOCs (5035/8260)	240.75	
01 45 29 00-0038	EA	Laboratory Analysis For SVOCs (8270)	469.46	
01 45 29 00-0039	EA	Laboratory Analysis For Pesticides/Polychlorinated Biphenyl (PCB) (8080/8081/8082)	288.90	
01 45 29 00-0040	EA	Laboratory Analysis For Herbicides (8080/8081/8082)	409.28	
01 45 29 00-0041	EA	Laboratory Analysis For TAL Inorganics (6010/6020/7471)	361.12	
01 45 29 00-0042	EA	Laboratory Analysis For BTEX (5035/8260)	108.34	
01 45 29 00-0043	EA	Laboratory Analysis For PNAs (8270)	180.56	
01 45 29 00-0044	EA	Laboratory Analysis For RCRA Metals Including Mercury (6020/7471)	156.49	
01 45 29 00-0045	EA	Laboratory Analysis For Cyanide (9012)	48.15	
01 45 29 00-0046	EA	Laboratory Analysis For TCLP/SPLP RCRA Lead (1311/1312/6020/7471)	180.56	
01 45 29 00-0047	EA	Laboratory Analysis For pH (9045)	19.26	
01 45 29 00-0048	EA	Laboratory Analysis For Moisture, Ash, And Organic Matter Of Peat And Organic Soils (D2974)	60.19	
01 45 29 00-0049	EA	Laboratory Analysis For Waste Characterization For Full Scan	2,648.25	

Note: Detection limits must meet the minimum specified detection limits in TACO for Tier 1 Soil Remediation Objectives for residential properties.

For Expedited 5 Day Test, Add *400.00*

01 50 Temporary Facilities and Controls *(01)*

Note: Tasks in this section shall be used as directed by owner.

01 51 Temporary Utilities *(01 50)*

01 51 13 Temporary Electricity *(01 51)*

01 51 13 00-0001 Temporary Service Switch And/or Building Feeder Switch *(01 51 13)*

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	1,418.75	
01 51 13 00-0003	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	2,202.86	
01 51 13 00-0004	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	4,034.54	
01 51 13 00-0005	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	6,614.97	

01 51 13 00-0006 Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses *(01 51 13)*

Note: Includes mounting on wall and removal after use.

01 51 13 00-0007	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers	1,464.80	
01 51 13 00-0008	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers	2,052.15	
01 51 13 00-0009	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers	3,208.99	
01 51 13 00-0010	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers	4,572.33	

01 51 13 00-0011 Temporary Conduit And Cable For Temporary Disconnect (Safety) Switches And Temporary Panelboards *(01 51 13)*

Note: Includes all connections, fittings, supports and removal after use.

01 51 13 00-0012	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	12.50	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 51 13 00-0013	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	13.69	

01 51 26 Temporary Lighting *(01 51)*

01 51 26 00-0001 Temporary Lighting Devices *(01 51 26)*

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light	318.62	
01 51 26 00-0003	EA	Temporary 10 Light String With Cages	109.25	
01 51 26 00-0004	EA	Temporary High Bay Light	401.54	

01 52 Construction Facilities *(01 50)*

Note: Tasks in this section shall be used as directed by owner for owner's use.

01 52 13 Field Offices and Sheds *(01 52)*

01 52 13 00-0001 Field Offices and Office Trailers *(01 52 13)*

Note: Includes toilet, central HVAC, interior doors and partitions. Excludes furniture, utility connections, or service. For Loss Damage Waiver or General Liability Insurance when requested use Reimbursable Fees. Minimum 6 months rental. See CSI section 01 52 13 00-0015 for furniture, skirting, and steps.

01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet	259.19	
		For Each Delivery And Removal, Two Round Trips, Add	*1,522.85*	
		For Each Set-up (Block And Level), Add	*853.68*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*800.55*	
		For Office Trailer Without Toilet, Deduct	*-51.84*	
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet	293.74	
		For Each Delivery And Removal, Two Round Trips, Add	*1,522.85*	
		For Each Set-up (Block And Level), Add	*853.68*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*800.55*	
		For Office Trailer Without Toilet, Deduct	*-58.75*	
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet	397.42	
		For Each Delivery And Removal, Two Round Trips, Add	*3,045.71*	
		For Each Set-up (Block And Level), Add	*1,340.17*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*1,198.42*	
		For Office Trailer Without Toilet, Deduct	*-79.48*	
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet	423.34	
		For Each Delivery And Removal, Two Round Trips, Add	*3,045.71*	
		For Each Set-up (Block And Level), Add	*1,340.17*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*1,198.42*	
		For Office Trailer Without Toilet, Deduct	*-84.67*	
01 52 13 00-0006	MO	10' x 44' Mobile Office, With Toilet	466.54	
		For Each Delivery And Removal, Two Round Trips, Add	*3,045.71*	
		For Each Set-up (Block And Level), Add	*1,340.17*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*1,198.42*	
01 52 13 00-0007	MO	10' x 50' Mobile Office, With Toilet	492.46	
		For Each Delivery And Removal, Two Round Trips, Add	*3,045.71*	
		For Each Set-up (Block And Level), Add	*1,340.17*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*1,198.42*	
01 52 13 00-0008	MO	12' x 32' Mobile Office, With Toilet	400.05	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*1,198.42*	
		For Each Delivery And Removal, Two Round Trips, Add	*747.09*	
		For Each Set-up (Block And Level), Add	*596.40*	
01 52 13 00-0009	MO	12' x 44' Mobile Office, With Toilet	534.86	
		For Each Delivery And Removal, Two Round Trips, Add	*3,045.71*	
		For Each Set-up (Block And Level), Add	*1,340.17*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*1,198.42*	
01 52 13 00-0010	MO	12' x 50' Mobile Office, With Toilet	636.73	
		For Each Delivery And Removal, Two Round Trips, Add	*3,045.71*	
		For Each Set-up (Block And Level), Add	*1,340.17*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*1,198.42*	
01 52 13 00-0011	MO	12' x 60' Mobile Office, With Toilet	880.37	
		For Each Delivery And Removal, Two Round Trips, Add	*3,045.71*	
		For Each Set-up (Block And Level), Add	*1,340.17*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*1,198.42*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0012	MO	24' x 60' Modular Office, With Toilet	1,382.32	
		For Each Delivery And Removal, Two Round Trips, Add	*4,568.57*	
		For Each Set-Up (Block And Level), Add	*2,391.22*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*2,401.66*	
01 52 13 00-0013	MO	24' x 72' Modular Office, With Toilet	1,658.78	
		For Each Delivery And Removal, Two Round Trips, Add	*4,568.57*	
		For Each Set-Up (Block And Level), Add	*2,391.22*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*2,401.66*	
01 52 13 00-0014	MO	30' x 30' Modular Office, With Toilet	867.19	
		For Each Delivery And Removal, Two Round Trips, Add	*4,568.57*	
		For Each Set-Up (Block And Level), Add	*2,391.22*	
		For Each Anchoring Into Dirt, Add Per Each Anchor	*238.08*	
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	*332.17*	
		For Knockdown, Add	*2,401.66*	

01 52 13 00-0015 Accessories For Field Office Trailers *(01 52 13)*

Note: Costs includes installation or placement in trailer.

01 52 13 00-0016	MO	Desk For Field Office Trailer	42.28
01 52 13 00-0017	MO	Rolling Desk Chair For Field Office Trailer	26.42
01 52 13 00-0018	MO	File Cabinet For Field Office Trailer	31.71
01 52 13 00-0019	MO	Table For Field Office Trailer	21.14
01 52 13 00-0020	MO	Folding Chair For Field Office Trailer	10.01
01 52 13 00-0021	EA	Phone Hook-Up For Field Office Trailer	116.26
01 52 13 00-0022	MO	Local Hardwired Phone or Data Service Per Phone Line For Field Office Trailer	84.55
01 52 13 00-0023	MO	Security System With Monitoring For Field Office Trailer	133.21
01 52 13 00-0024	LF	Perimeter Trailer Vinyl Skirting For Field Office Trailer	16.59
01 52 13 00-0025	LF	Insulated Perimeter Trailer Vinyl Skirting For Field Office Trailer	39.29
01 52 13 00-0026	MO	Steps For Field Office Trailer	73.37
01 52 13 00-0027	MO	Steps With Canopy For Field Office Trailer	122.54
01 52 13 00-0028	MO	Fax Machine For Field Office Trailer	45.30
01 52 13 00-0029	MO	Copier For Field Office Trailer	84.55

01 52 13 00-0030 Storage Containers *(01 52 13)*

01 52 13 00-0031	MO	8' x 8' x 10' Storage Container	144.00	
		For Each Delivery And Removal, Two Round Trips, Add	*120.17*	
		For >12 Months, Deduct	*-32.40*	
01 52 13 00-0032	MO	8' x 8' x 20' Storage Container	150.55	
		For Each Delivery And Removal, Two Round Trips, Add	*132.19*	
		For >12 Months, Deduct	*-33.87*	
01 52 13 00-0033	MO	8' x 8' x 40' Storage Container	178.04	
		For Each Delivery And Removal, Two Round Trips, Add	*266.23*	
		For >12 Months, Deduct	*-40.06*	

01 52 19 Sanitary Facilities *(01 52)*

01 52 19 00-0001 Portable Toilets *(01 52 19)*

Note: Includes servicing once per week (unless task states otherwise).

01 52 19 00-0002	WK	Portable Chemical Toilet	65.49	
		For Each Additional Servicing Per Unit Per Week, Add	*25.00*	
		For Each Delivery And Set-up, Add	*31.57*	
01 52 19 00-0003	MO	Portable Chemical Toilet	196.48	
		For Each Additional Servicing Per Unit Per Week, Add	*25.00*	
		For Each Delivery And Set-up, Add	*31.57*	
01 52 19 00-0004	WK	Americans With Disabilities Act Compliant Portable Chemical Toilet	78.12	
		For Each Additional Servicing Per Unit Per Week, Add	*25.00*	
		For Each Delivery And Set-up, Add	*31.57*	
01 52 19 00-0005	MO	Americans With Disabilities Act Compliant Portable Chemical Toilet	229.23	
		For Each Additional Servicing Per Unit Per Week, Add	*25.00*	
		For Each Delivery And Set-up, Add	*31.57*	
01 52 19 00-0006	WK	Two Station Portable Handwash	57.87	
		For Each Delivery And Set-up, Add	*31.57*	
01 52 19 00-0007	MO	Two Station Portable Handwash	175.53	
		For Each Delivery And Set-up, Add	*31.57*	
01 52 19 00-0008	MO	6 Station, Portable Toilets, Multi Trailer	6,431.04	
		Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink). Excludes servicing.		
		For Each Delivery, Set-up And Removal, Two Round Trips, Add	*1,226.21*	
01 52 19 00-0009	WK	Service 6 Station Trailer Restrooms, 3 Times Per Week	2,158.86	
		For One Additional Service Per Week, Add	*719.62*	
		Note: For one less service per week, UOM to be negative one (-1)		

01 53 Temporary Construction *(01 50)*

01 53 16 Temporary Decking *(01 53)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 53 16 00-0001		**Temporary Walkways And Railings** *(01 53 16)* Note: Includes removal after use.		
01 53 16 00-0002	SF	Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	8.80	
01 53 16 00-0003	LF	Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	40.26	
01 53 16 00-0004	LF	Temporary Wood Guardrail Base, 12" x 12" Timber Beam	16.26	
01 53 16 00-0005	RSR	Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers	30.02	
		01 53 23 Temporary Ramps *(01 53)*		
01 53 23 00-0001		**Temporary Plywood For Wheel Barrow Access** *(01 53 23)* Note: Includes removal after use.		
01 53 23 00-0002	SF	Temporary Plywood For Wheel Barrow Access	1.90	0.61
		01 54 Construction Aids *(01 50)*		
		01 54 09 Personnel Protection Equipment *(01 54)*		
01 54 09 00-0001		**Personnel Protection Equipment** *(01 54 09)* Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responisbility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.		
01 54 09 00-0002	NTE	Personnel Protection Equipment Note: For specification publishing. Review specifications for requirements.	0.00	
		01 54 23 Temporary Scaffolding and Platforms *(01 54)*		
01 54 23 00-0001		**Scaffolding** *(01 54 23)* Note: Additional scaffolding rental for work above the normal working height.		
01 54 23 00-0002		**Scaffolding Rental - Rental Only** *(01 54 23 00-0001)* Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.		
01 54 23 00-0003	CCF	Scaffolding With Bracing Accessories, Area Based On 5' Wide Sections, Per CCF / Month	44.55	
		For Up To 25, Add	*17.82*	
		For >25 To 50, Add	*11.14*	
		For >50 To 150, Add	*4.46*	
01 54 23 00-0004	CCF	Scaffolding With Bracing Accessories, Area Based On 4' Wide Sections, Per CCF / Month	50.10	
		For Up To 25, Add	*20.04*	
		For >25 To 50, Add	*12.53*	
		For >50 To 150, Add	*5.01*	
01 54 23 00-0005	CCF	Scaffolding With Bracing Accessories, Area Based On 3' Wide Sections, Per CCF / Month	66.83	
		For Up To 25, Add	*26.73*	
		For >25 To 50, Add	*16.71*	
		For >50 To 150, Add	*6.68*	
01 54 23 00-0006		**Scaffolding Erection And Dismantling - Labor Only** *(01 54 23 00-0001)* Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.		
01 54 23 00-0007	CCF	Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	54.67	
01 54 23 00-0008	CCF	>20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	71.69	
01 54 23 00-0009	CCF	>40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	95.67	
01 54 23 00-0010	CCF	>60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	105.24	
01 54 23 00-0011	CCF	>80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	121.19	
01 54 23 00-0012	CCF	Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set-up On Stairs, Per CCF Of Scaffolding And Accessories	76.54	
01 54 23 00-0013		**Heavy-Duty Masonry Scaffolding Rental - Rental Only** *(01 54 23 00-0001)* Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0014	CCF	Heavy-Duty Masonry Scaffolding With Bracing Accessories, Area Based On 4' Wide Sections, Per CCF / Month	72.22	
01 54 23 00-0015	CCF	Heavy-Duty Masonry Scaffolding With Bracing Accessories, Area Based On 2' Wide Sections, Per CCF / Month	132.41	
01 54 23 00-0016	LF	Aluminum Joists, Per LF / Month	11.74	
01 54 23 00-0017	LF	Aluminum Stringers, Per LF / Month	16.84	
01 54 23 00-0018	EA	Screw Jack With U-Plate For Stringers, Per EA / Month	21.22	
01 54 23 00-0019		**Heavy-Duty Masonry Scaffolding Erection And Dismantling - Labor Only** *(01 54 23 00-0001)* Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.		
01 54 23 00-0020	CCF	Up To 20' Height Heavy-Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.	102.05	
01 54 23 00-0021	CCF	>20' To 40' Height Heavy-Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.	127.56	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0022	CCF	>40' To 60' Height Heavy-Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.	153.08	
01 54 23 00-0023	CCF	>60' To 80' Height Heavy-Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.	165.84	
01 54 23 00-0024	CCF	>80' Height Heavy-Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.	184.97	
01 54 23 00-0025		**Scaffolding** *(01 54 23 00-0001)*		
		See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0026	CSF	Netting for Exterior Building Scaffolding	45.21	
		Note: Includes removal after use.		
01 54 23 00-0027		**Mobile Mast Climbing Scaffolding** *(01 54 23)*		
		Note: Per month.		
01 54 23 00-0028		**Fraco FRSM ACT Solution Single Mast, Mast Climbing Scaffolding Per Month** *(01 54 23 00-0027)*		
01 54 23 00-0029	MO	Single Mast Climber, 175' High Mast x 35' Wide Platform	3,300.00	
01 54 23 00-0030	EA	Delivery/Pick-up Fee For Single Mast Climber	2,400.00	
		Note: Excludes erection or dismantle.		
01 54 23 00-0031	EA	Erection For Single Mast Climber	3,000.00	
01 54 23 00-0032	EA	Dismantle For Single Mast Climber	2,500.00	
01 54 23 00-0033	SF	Additional Scaffolding Planks, Wood, 2"	0.99	
01 54 23 00-0034		**Rolling Scaffolding** *(01 54 23)*		
		Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.		
01 54 23 00-0035	DAY	>14' To 20' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.	14.33	
01 54 23 00-0036	WK	>14' To 20' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.	57.42	
01 54 23 00-0037	MO	>14' To 20' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.	229.65	
01 54 23 00-0038	DAY	>20' To 40' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.	23.99	
01 54 23 00-0039	WK	>20' To 40' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.	96.07	
01 54 23 00-0040	MO	>20' To 40' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.	384.33	
01 54 23 00-0041	EA	>14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	119.80	
01 54 23 00-0042	EA	>20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	149.75	
01 54 23 00-0043		**Shoring Posts** *(01 54 23)*		
01 54 23 00-0044	DAY	6'-6" To 11' Extension, 5,000 Lb. Capacity, Steel Shoring Post	2.21	
01 54 23 00-0045	WK	6'-6" To 11' Extension, 5,000 Lb. Capacity, Steel Shoring Post	8.82	
01 54 23 00-0046	MO	6'-6" To 11' Extension, 5,000 Lb. Capacity, Steel Shoring Post	26.47	
01 54 23 00-0047	EA	Initial Erection And Final Dismantling For Each Shoring Post	9.59	
		For >20 To 50, Deduct	*-1.44*	
		For >50 To 100, Deduct	*-3.36*	
		For >100, Deduct	*-5.27*	
01 54 23 00-0048		**Temporary Lumber, Single Use** *(01 54 23)*		
		Note: Includes removal after use.		
01 54 23 00-0049	SF	5/16" CD Grade Plywood, Temporary Lumber	3.00	
01 54 23 00-0050	SF	1/2" CD Grade Plywood, Temporary Lumber	3.38	
01 54 23 00-0051	SF	5/8" CD Grade Plywood, Temporary Lumber	3.73	
01 54 23 00-0052	SF	3/4" CD Grade Plywood, Temporary Lumber	4.09	
01 54 23 00-0053	SF	1" CD Grade Plywood, Temporary Lumber	5.96	
01 54 23 00-0054	LF	2" x 4" Temporary Lumber	3.42	
01 54 23 00-0055	LF	2" x 6" Temporary Lumber	4.22	
01 54 23 00-0056	LF	2" x 8" Temporary Lumber	5.03	
01 54 23 00-0057	LF	2" x 10" Temporary Lumber	5.84	
01 54 23 00-0058	LF	2" x 12" Temporary Lumber	6.66	
01 54 23 00-0059	LF	3" x 8" Temporary Lumber	6.66	
01 54 23 00-0060	LF	3" x 10" Temporary Lumber	7.86	
01 54 23 00-0061	LF	3" x 12" Temporary Lumber	9.09	
01 54 23 00-0062	LF	4" x 4" Temporary Lumber	4.33	
01 54 23 00-0063	LF	4" x 6" Temporary Lumber	6.03	
01 54 23 00-0064	LF	6" x 6" Temporary Lumber	7.74	
01 54 23 00-0065	LF	6" x 8" Temporary Lumber	9.98	
01 54 23 00-0066	LF	12" x 12" Temporary Lumber	22.87	
01 54 23 00-0067		**Temporary Precast Concrete Blocks** *(01 54 23)*		
		Note: Includes removal after use.		
01 54 23 00-0068	EA	2' x 2' x 2' Temporary Precast Concrete (Ecology) Block	130.13	
		Note: Includes removal after use.		
01 54 23 00-0069	EA	2' x 2' x 4' Temporary Precast Concrete (Ecology) Block	162.67	
		Note: Includes removal after use.		
01 54 23 00-0070	EA	2' x 2' x 8' Temporary Precast Concrete (Ecology) Block	212.79	
		Note: Includes removal after use.		

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 54 26 Temporary Swing Staging *(01 54)*

Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.

01 54 26 00-0001 Swing Stage *(01 54 26)*

Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.

01 54 26 00-0002	MO	7' Swing Stage, Electric Operated	3,174.68	
01 54 26 00-0003	MO	10' Swing Stage, Electric Operated	3,333.41	
01 54 26 00-0004	MO	14' Swing Stage, Electric Operated	3,492.14	
01 54 26 00-0005	MO	20' Swing Stage, Electric Operated	3,650.88	
01 54 26 00-0006	MO	24' Swing Stage, Electric Operated	3,809.61	
01 54 26 00-0007	MO	30' Swing Stage, Electric Operated	3,968.35	
01 54 26 00-0008	MO	42' Swing Stage, Electric Operated	4,127.08	
01 54 26 00-0009	MO	12' Swing Stage, Manually Operated	915.47	
01 54 26 00-0010	MO	24' Swing Stage, Manually Operated	1,144.33	
01 54 26 00-0011	EA	Swing Stage Platform From Hooks, Erection And Dismantling Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.	5,106.99	
01 54 26 00-0012	EA	Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.	7,097.03	
01 54 26 00-0013	EA	Move Swing Stage Platform From Hooks To Different Location At Same Roof	2,685.37	
01 54 26 00-0014	EA	Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof	3,740.33	

01 55 Vehicular Access and Parking *(01 50)*

01 55 23 Temporary Roads *(01 55)*

01 55 23 00-0001 Temporary Stabilized Construction Entrance *(01 55 23)*

Note: As per Caltrans detail.

01 55 23 00-0002	EA	Temporary Stabilized Construction Entrance Assembly Note: Includes excavation of 30' x 14' x 6" deep pit, filter fabric at base and sides, filled with 3" rock, and compaction.	2,112.06	
01 55 23 00-0003	SF	3" To 4" Rock Temporary Stabilized Construction Entrance Assembly Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.	4.59	
01 55 23 00-0004	SF	>4" To 6" Rock Temporary Stabilized Construction Entrance Assembly Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.	5.62	

01 55 23 00-0005 Rumble Trench Plate *(01 55 23)*

01 55 23 00-0006	MO	8' x 10' Steel Rumble Trench Plate Rental	424.02	
01 55 23 00-0007	EA	Placement And Removal Of Rumble Plate Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	105.11	
01 55 23 00-0008	EA	Relocate And Adjust Location Of Rumble Plate Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	26.28	

01 55 23 00-0009 Temporary Road Ramps (Godwin) *(01 55 23)*

Note: Excludes asphalt and gravel.

01 55 23 00-0010	EA	4" Diameter Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	5,213.11	237.44
01 55 23 00-0011	EA	6" Diameter Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	7,098.63	356.16
01 55 23 00-0012	EA	8" Diameter Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	9,808.19	474.88
01 55 23 00-0013	EA	12" Diameter Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	20,346.13	593.60
01 55 23 00-0014	EA	24" Diameter Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin)	29,854.02	712.32

01 55 26 Traffic Control *(01 55)*

01 55 26 00-0001 Temporary Removable Preformed Traffic Black Line Mask *(01 55 26)*

Note: Includes installation and removal after use.

01 55 26 00-0002	LF	6" Removable Traffic Black Line Mask	5.55	
01 55 26 00-0003	LF	8" Removable Traffic Black Line Mask	6.70	

01 55 26 00-0004 Temporary Preformed Traffic Line Tape *(01 55 26)*

Note: Includes installation and removal after use.

01 55 26 00-0005	LF	4" Reflective Removable Traffic Line Tape	5.61	
01 55 26 00-0006	LF	6" Reflective Removable Traffic Line Tape	7.65	
01 55 26 00-0007	LF	8" Reflective Removable Traffic Line Tape	9.59	

01 55 26 00-0008 Temporary Painted Traffic Lines *(01 55 26)*

Note: Includes installation and removal after use.

01 55 26 00-0009	LF	4" Temporary Painted Traffic Lines Note: Includes removal after use	2.57	
		For Not Removed, Deduct	*-1.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0010	LF	6" Temporary Painted Traffic Lines Note: Includes removal after use	3.39	
		For Not Removed, Deduct	*-2.37*	
01 55 26 00-0011	LF	8" Temporary Painted Traffic Lines Note: Includes removal after use	4.24	
		For Not Removed, Deduct	*-3.00*	
01 55 26 00-0012	EA	2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad	3.44	
01 55 26 00-0013	EA	2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad	3.48	
01 55 26 00-0014	EA	2" High x 4" Wide Temporary Reflective Pavement Markers, "L" With Factory-Applied Adhesive Pad	3.54	
01 55 26 00-0015	EA	2" High x 4" Wide Chip Seal Markers, Double Cover, "L" With Factory-Applied Adhesive Pad	3.65	
01 55 26 00-0016	EA	Temporary Channelizer 3' High, 2-1/4" Diameter Flexible Delineator, 3" x 12" Retroreflective Flat Top, Soil Embedded With Surface Mount Note: Remove after use.	101.23	

01 55 26 00-0017 Temporary Pedestrian Traffic Control *(01 55 26)*

01 55 26 00-0018	CLF	1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	11.64	
01 55 26 00-0019	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	15.28	
01 55 26 00-0020	CLF	3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	9.04	
01 55 26 00-0021	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	11.11	
01 55 26 00-0022	CLF	3", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent	12.13	
01 55 26 00-0023	CLF	6", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent	16.73	
01 55 26 00-0024	CLF	1" Exterior Vinyl Warning Tape	13.88	
01 55 26 00-0025	CLF	2" Exterior Vinyl Warning Tape	19.52	
01 55 26 00-0026	CLF	3" Exterior Vinyl Warning Tape	24.61	
01 55 26 00-0027	CLF	4" Exterior Vinyl Warning Tape	28.78	

01 55 26 00-0028 Linear Delineation System, Temporary Or Permanent *(01 55 26)*

Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.

01 55 26 00-0029	LF	4" Linear Delineation System	12.01	
01 55 26 00-0030	LF	6" Linear Delineation System	16.25	

01 55 26 00-0031 Temporary Traffic Protection *(01 55 26)*

01 55 26 00-0032 Temporary Portable Traffic Control Device Usage *(01 55 26 00-0031)*

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0153 for Initial delivery, placement and final removal of temporary traffic devices, 01 55 26 00-0169 for daily (or as needed) placement and removal of temporary traffice devices.

01 55 26 00-0033	DAY	28" Cone With Reflective Collar	0.91	
01 55 26 00-0034	WK	28" Cone With Reflective Collar	2.73	
01 55 26 00-0035	MO	28" Cone With Reflective Collar	8.19	
01 55 26 00-0036	DAY	36" Traffic Cone With Reflective Collar	1.14	
01 55 26 00-0037	WK	36" Traffic Cone With Reflective Collar	3.41	
01 55 26 00-0038	MO	36" Traffic Cone With Reflective Collar	10.24	
01 55 26 00-0039	DAY	Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post	2.14	
01 55 26 00-0040	WK	Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post	6.43	
01 55 26 00-0041	MO	Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post	19.30	
01 55 26 00-0042	DAY	Vertical Panel	2.75	
01 55 26 00-0043	WK	Vertical Panel	8.25	
01 55 26 00-0044	MO	Vertical Panel	24.75	
01 55 26 00-0045	DAY	Channelizer Drum	2.99	
01 55 26 00-0046	WK	Channelizer Drum	8.96	
01 55 26 00-0047	MO	Channelizer Drum	26.87	
01 55 26 00-0048	DAY	Stackable Channelizer Panel	1.41	
01 55 26 00-0049	WK	Stackable Channelizer Panel	4.24	
01 55 26 00-0050	MO	Stackable Channelizer Panel	12.71	
01 55 26 00-0051	DAY	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side	1.95	
01 55 26 00-0052	WK	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side	5.86	
01 55 26 00-0053	MO	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side	17.59	
01 55 26 00-0054	DAY	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	4.33	
01 55 26 00-0055	WK	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	13.00	
01 55 26 00-0056	MO	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	39.00	
01 55 26 00-0057	DAY	Type III Barricade, Up To 5' Wide With Three Reflective Rails	4.94	
01 55 26 00-0058	WK	Type III Barricade, Up To 5' Wide With Three Reflective Rails	14.81	
01 55 26 00-0059	MO	Type III Barricade, Up To 5' Wide With Three Reflective Rails	44.44	
01 55 26 00-0060	DAY	Type III Barricade, >5' To 10' Wide With Three Reflective Rails	9.03	
01 55 26 00-0061	WK	Type III Barricade, >5' To 10' Wide With Three Reflective Rails	27.10	
01 55 26 00-0062	MO	Type III Barricade, >5' To 10' Wide With Three Reflective Rails	81.30	
01 55 26 00-0063	DAY	Up To 10' Wide A Frame Barricade	4.95	
01 55 26 00-0064	WK	Up To 10' Wide A Frame Barricade	14.86	
01 55 26 00-0065	MO	Up To 10' Wide A Frame Barricade	44.59	
01 55 26 00-0066	DAY	Type A Or C Flasher	1.01	
01 55 26 00-0067	WK	Type A Or C Flasher	3.03	
01 55 26 00-0068	MO	Type A Or C Flasher	9.09	
01 55 26 00-0069	DAY	Type B High Intensity Flasher	5.48	
01 55 26 00-0070	WK	Type B High Intensity Flasher	16.43	
01 55 26 00-0071	MO	Type B High Intensity Flasher	49.30	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0072		**Temporary Traffic Barriers Usage** *(01 55 26 00-0031)* Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0153 for delivery, placing and removal.		
01 55 26 00-0073	DAY	6' Long Portable Parking Curbs	2.36	
01 55 26 00-0074	WK	6' Long Portable Parking Curbs	7.08	
01 55 26 00-0075	MO	6' Long Portable Parking Curbs	21.23	
01 55 26 00-0076	DAY	6' Long Portable Speed Bumps	6.98	
01 55 26 00-0077	WK	6' Long Portable Speed Bumps	20.95	
01 55 26 00-0078	MO	6' Long Portable Speed Bumps	62.84	
01 55 26 00-0079	DAY	8' To 12.5' Concrete Traffic Barrier	16.77	
01 55 26 00-0080	WK	8' To 12.5' Concrete Traffic Barrier	50.32	
01 55 26 00-0081	MO	8' To 12.5' Concrete Traffic Barrier	150.96	
01 55 26 00-0082	DAY	>12.5' To 20' Concrete Traffic Barrier	33.55	
01 55 26 00-0083	WK	>12.5' To 20' Concrete Traffic Barrier	100.64	
01 55 26 00-0084	MO	>12.5' To 20' Concrete Traffic Barrier	301.92	
01 55 26 00-0085	DAY	6' x 32" Tall Plastic Water Barrier	20.03	
01 55 26 00-0086	WK	6' x 32" Tall Plastic Water Barrier	60.09	
01 55 26 00-0087	MO	6' x 32" Tall Plastic Water Barrier	180.27	
01 55 26 00-0088	DAY	6' x 46" Tall Plastic Water Barrier	28.60	
01 55 26 00-0089	WK	6' x 46" Tall Plastic Water Barrier	85.80	
01 55 26 00-0090	MO	6' x 46" Tall Plastic Water Barrier	257.41	
01 55 26 00-0091	DAY	Sand Filled Crash Attenuator Barrels	11.19	
01 55 26 00-0092	WK	Sand Filled Crash Attenuator Barrels	33.58	
01 55 26 00-0093	MO	Sand Filled Crash Attenuator Barrels	100.75	
01 55 26 00-0094	MO	Rolling Straight Concrete Barrier, Per Each Barrier Per Month	3,719.85	
01 55 26 00-0095	MO	Rolling Absorbing Concrete Barrier, Per Each Barrier Per Month	1,487.94	
01 55 26 00-0096	MO	Rolling Transition Concrete Barrier, Per Each Barrier Per Month	396.78	
01 55 26 00-0097	EA	2 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 2 (44 MPH), 24" Wide Note: Includes delivery, pickup and two months rental.	6,921.29	
01 55 26 00-0098	MO	2 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 2 (44 MPH), 24" Wide Note: Rental rate after 1st two months.	656.49	
01 55 26 00-0099	EA	5 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (62 MPH), 24" Wide Note: Includes delivery, pickup and two months rental.	8,303.05	
01 55 26 00-0100	MO	5 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (62 MPH), 24" Wide Note: Rental rate after 1st two months.	984.74	
01 55 26 00-0101	EA	8 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (71 MPH), 24" Wide Note: Includes delivery, pickup and two months rental.	10,122.47	
01 55 26 00-0102	MO	8 Bay, Non-Gating, Redirective Crash Cushion System, 71 MPH, 24" Wide Note: Rental rate after 1st two months.	1,203.56	
01 55 26 00-0103	MO	24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non-Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER) Note: Consists of 8 bays with nose piece at the front of the system.	1,588.72	
01 55 26 00-0104		**Temporary Portable Signs And Message Displays Usage** *(01 55 26 00-0031)* Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0153 for delivery, placing and removal.		
01 55 26 00-0105	DAY	Mesh Or Vinyl Roll-up Sign With Stand	8.79	
01 55 26 00-0106	WK	Mesh Or Vinyl Roll-up Sign With Stand	26.37	
01 55 26 00-0107	MO	Mesh Or Vinyl Roll-up Sign With Stand	79.10	
01 55 26 00-0108	DAY	18" x 18" Aluminum Construction Sign, With Portable Stand	3.45	
01 55 26 00-0109	WK	18" x 18" Aluminum Construction Sign, With Portable Stand	10.35	
01 55 26 00-0110	MO	18" x 18" Aluminum Construction Sign, With Portable Stand	31.05	
01 55 26 00-0111	DAY	30" x 24" Aluminum Construction Sign, With Portable Stand	4.79	
01 55 26 00-0112	WK	30" x 24" Aluminum Construction Sign, With Portable Stand	14.37	
01 55 26 00-0113	MO	30" x 24" Aluminum Construction Sign, With Portable Stand	43.10	
01 55 26 00-0114	DAY	30" x 30" Aluminum Construction Sign, With Portable Stand	4.24	
01 55 26 00-0115	WK	30" x 30" Aluminum Construction Sign, With Portable Stand	12.72	
01 55 26 00-0116	MO	30" x 30" Aluminum Construction Sign, With Portable Stand	38.16	
01 55 26 00-0117	DAY	48" x 18" Aluminum Construction Sign, With Portable Stand	5.24	
01 55 26 00-0118	WK	48" x 18" Aluminum Construction Sign, With Portable Stand	15.71	
01 55 26 00-0119	MO	48" x 18" Aluminum Construction Sign, With Portable Stand	47.14	
01 55 26 00-0120	DAY	48" x 24" Aluminum Construction Sign, With Portable Stand	6.14	
01 55 26 00-0121	WK	48" x 24" Aluminum Construction Sign, With Portable Stand	18.41	
01 55 26 00-0122	MO	48" x 24" Aluminum Construction Sign, With Portable Stand	55.22	
01 55 26 00-0123	DAY	48" x 30" Aluminum Construction Sign, With Portable Stand	7.03	
01 55 26 00-0124	WK	48" x 30" Aluminum Construction Sign, With Portable Stand	21.10	
01 55 26 00-0125	MO	48" x 30" Aluminum Construction Sign, With Portable Stand	63.30	
01 55 26 00-0126	DAY	48" x 36" Aluminum Construction Sign, With Portable Stand	7.93	
01 55 26 00-0127	WK	48" x 36" Aluminum Construction Sign, With Portable Stand	23.79	
01 55 26 00-0128	MO	48" x 36" Aluminum Construction Sign, With Portable Stand	71.38	
01 55 26 00-0129	DAY	48" x 48" Aluminum Construction Sign, With Portable Stand	9.73	
01 55 26 00-0130	WK	48" x 48" Aluminum Construction Sign, With Portable Stand	29.18	
01 55 26 00-0131	MO	48" x 48" Aluminum Construction Sign, With Portable Stand	87.55	
01 55 26 00-0132	DAY	60" x 24" Aluminum Construction Sign, With Portable Stand	9.58	
01 55 26 00-0133	WK	60" x 24" Aluminum Construction Sign, With Portable Stand	28.73	
01 55 26 00-0134	MO	60" x 24" Aluminum Construction Sign, With Portable Stand	86.20	
01 55 26 00-0135	DAY	60" x 30" Aluminum Construction Sign, With Portable Stand	10.70	
01 55 26 00-0136	WK	60" x 30" Aluminum Construction Sign, With Portable Stand	32.10	
01 55 26 00-0137	MO	60" x 30" Aluminum Construction Sign, With Portable Stand	96.30	
01 55 26 00-0138	DAY	60" x 36" Aluminum Construction Sign, With Portable Stand	11.82	
01 55 26 00-0139	WK	60" x 36" Aluminum Construction Sign, With Portable Stand	35.47	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0140	MO	60" x 36" Aluminum Construction Sign, With Portable Stand	106.40	
01 55 26 00-0141	DAY	Aluminum Sign And Post	4.97	
01 55 26 00-0142	WK	Aluminum Sign And Post	14.91	
01 55 26 00-0143	MO	Aluminum Sign And Post	44.74	
01 55 26 00-0144	DAY	Trailer Mounted Flashing Arrow Board	183.67	
01 55 26 00-0145	WK	Trailer Mounted Flashing Arrow Board	508.37	
01 55 26 00-0146	MO	Trailer Mounted Flashing Arrow Board	1,344.72	
01 55 26 00-0147	DAY	Trailer Mounted Portable Variable Message Sign (PVMS)	304.65	
01 55 26 00-0148	WK	Trailer Mounted Portable Variable Message Sign (PVMS)	812.40	
01 55 26 00-0149	MO	Trailer Mounted Portable Variable Message Sign (PVMS)	1,624.80	
01 55 26 00-0150	DAY	Two Head, Trailer Mounted Traffic Signal System, Per Set Of Two Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.	1,495.13	
01 55 26 00-0151	WK	Two Head, Trailer Mounted Traffic Signal System, Per Set Of Two Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.	4,485.39	
01 55 26 00-0152	MO	Two Head, Trailer Mounted Traffic Signal System, Per Set Of Two Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.	13,456.17	

01 55 26 00-0153 Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Protection Using Truck *(01 55 26 00-0031)*

Note: Includes delivery and return up to 15 miles. See CSI section 01 55 26 00-0169 for daily (or as needed) placement and removal of temporary traffice devices, 01 74 19 00-0043 for delivery >15 miles.

01 55 26 00-0154	EA	Initial Delivery, Placement And Final Removal From Site Of Up To 250 Temporary Traffic Cones Using Truck	4.13	
01 55 26 00-0155	EA	Initial Delivery, Placement And Final Removal From Site Of >250 Temporary Traffic Cones Using Truck	3.62	
01 55 26 00-0156	EA	Initial Delivery, Placement And Final Removal From Site Of Up To 250 Temporary Traffic Panels/Channelizers Using Truck	6.81	
01 55 26 00-0157	EA	Initial Delivery, Placement And Final Removal From Site Of >250 Temporary Traffic Panels/Channelizers Using Truck	5.67	
01 55 26 00-0158	EA	Initial Delivery, Placement And Final Removal From Site Of Up To 250 Temporary Traffic Barricades Using Truck	10.32	
01 55 26 00-0159	EA	Initial Delivery, Placement And Final Removal From Site Of >250 Temporary Traffic Barricades Using Truck	8.26	
01 55 26 00-0160	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Curbs/Speed Bumps Using Truck	10.32	
01 55 26 00-0161	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Portable Sign And Stand Using Truck	6.19	
01 55 26 00-0162	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Aluminum Sign And Post Using Truck	25.80	
01 55 26 00-0163	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Trailer Mounted Boards And Signals Using Truck	77.40	
01 55 26 00-0164	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary 8' To 12.5' Concrete Traffic Barrier Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	105.11	
		For 1 Barrier, Add	*262.78*	
		For 2 Barriers, Add	*94.60*	
		For 3 Barriers, Add	*31.53*	
01 55 26 00-0165	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary >12.5' To 20' Concrete Traffic Barrier Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	157.67	
		For 1 Barrier, Add	*394.18*	
		For 2 Barriers, Add	*141.90*	
		For 3 Barriers, Add	*47.30*	
01 55 26 00-0166	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Plastic Water Barrier Note: Includes additional water as needed. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for Equipment Usage, 01 71 13 00-0000 for mobilization tasks.	60.21	
		For 1 Barrier, Add	*131.38*	
		For 2 Barriers, Add	*47.30*	
		For 3 Barriers, Add	*15.77*	
01 55 26 00-0167	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Crash Attenuator Barrels Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	78.83	
		For 1 Barrier, Add	*197.08*	
		For 2 Barriers, Add	*70.95*	
		For 3 Barriers, Add	*23.65*	
01 55 26 00-0168	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non-Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER) Note: Consists of 8 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructuions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.	578.11	

01 55 26 00-0169 Placement And Remove Temporary Traffic Protection From Roadside Or Work Area (Daily Or As Required) *(01 55 26 00-0031)*

01 55 26 00-0170	EA	Placement And Removal Of Up To 250 Temporary Traffic Cones By Hand From Roadside Or Work Area	2.58	
01 55 26 00-0171	EA	Placement And Removal Of >250 Temporary Traffic Cones By Hand From Roadside Or Work Area	2.07	
01 55 26 00-0172	EA	Placement And Removal Of Up To 250 Temporary Traffic Panels/Channelizers By Hand From Roadside Or Work Area	3.44	
01 55 26 00-0173	EA	Placement And Removal Of >250 Temporary Traffic Panels/Channelizers By Hand From Roadside Or Work Area	2.74	
01 55 26 00-0174	EA	Placement And Removal Of Up To 250 Temporary Traffic Barricades By Hand From Roadside Or Work Area	5.16	
01 55 26 00-0175	EA	Placement And Removal Of >250 Temporary Traffic Barricades By Hand From Roadside Or Work Area	4.13	
01 55 26 00-0176	EA	Placement And Removal Of Temporary Traffic Portable Sign And Stand From Roadside Or Work Area	3.08	
01 55 26 00-0177	EA	Placement And Removal Of Temporary Traffic Trailer Mounted Boards And Signals From Roadside Or Work Area	38.71	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0178	EA	Relocation Of Temporary Traffic Concrete Traffic Barrier From Roadside Or Work Area Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	52.55	

01 55 26 00-0179 Place And Remove Temporary Signs For Detours *(01 55 26 00-0031)*

01 55 26 00-0180 Temporary Reflectorized Signs For Detours *(01 55 26 00-0179)*

Note: Excludes posts.

01 55 26 00-0181 Temporary Aluminum Engineer Grade Stop Signs For Detours *(01 55 26 00-0180)*

01 55 26 00-0182	EA	Temporary 18" x 18" Aluminum Engineer Grade Stop Sign For Detours	98.71	
		For Hi-Intensity Grade, Add	*10.19*	
		For Diamond Grade, Add	*19.37*	
01 55 26 00-0183	EA	Temporary 18" x 24" Aluminum Engineer Grade Stop Sign For Detours	112.77	
		For Hi-Intensity Grade, Add	*13.33*	
		For Diamond Grade, Add	*25.33*	
01 55 26 00-0184	EA	Temporary 24" x 24" Aluminum Engineer Grade Stop Sign For Detours	121.60	
		For Hi-Intensity Grade, Add	*20.36*	
		For Diamond Grade, Add	*32.29*	
01 55 26 00-0185	EA	Temporary 30" x 30" Aluminum Engineer Grade Stop Sign For Detours	139.14	
		For Hi-Intensity Grade, Add	*7.63*	
		For Diamond Grade, Add	*41.35*	
01 55 26 00-0186	EA	Temporary 36" x 36" Aluminum Engineer Grade Stop Sign For Detours	181.06	
		For Hi-Intensity Grade, Add	*22.43*	
		For Diamond Grade, Add	*70.34*	

01 55 26 00-0187 Other Temporary Reflectorized Traffic Signs For Detours *(01 55 26 00-0180)*

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

01 55 26 00-0188 Temporary Aluminum Engineer Grade Traffic Signs For Detours *(01 55 26 00-0187)*

01 55 26 00-0189	EA	Temporary 6" x 12" Aluminum Engineer Grade Traffic Sign For Detours	65.96	
		For Hi-Intensity Grade, Add	*2.53*	
01 55 26 00-0190	EA	Temporary 6" x 18" Aluminum Engineer Grade Traffic Sign For Detours	70.17	
		For Hi-Intensity Grade, Add	*3.79*	
01 55 26 00-0191	EA	Temporary 9" x 12" Aluminum Engineer Grade Traffic Sign For Detours	70.17	
		For Hi-Intensity Grade, Add	*3.79*	
01 55 26 00-0192	EA	Temporary 9" x 15" Aluminum Engineer Grade Traffic Sign For Detours	73.32	
		For Hi-Intensity Grade, Add	*4.73*	
01 55 26 00-0193	EA	Temporary 9" x 18" Aluminum Engineer Grade Traffic Sign For Detours	76.48	
		For Hi-Intensity Grade, Add	*5.68*	
01 55 26 00-0194	EA	Temporary 9" x 24" Aluminum Engineer Grade Traffic Sign For Detours	86.39	
		For Hi-Intensity Grade, Add	*7.58*	
01 55 26 00-0195	EA	Temporary 9" x 48" Aluminum Engineer Grade Traffic Sign For Detours	111.65	
		For Hi-Intensity Grade, Add	*15.15*	
01 55 26 00-0196	EA	Temporary 12" x 12" Aluminum Engineer Grade Traffic Sign For Detours	74.38	
		For Hi-Intensity Grade, Add	*5.05*	
01 55 26 00-0197	EA	Temporary 12" x 18" Aluminum Engineer Grade Traffic Sign For Detours	86.39	
		For Hi-Intensity Grade, Add	*7.58*	
01 55 26 00-0198	EA	Temporary 12" x 24" Aluminum Engineer Grade Traffic Sign For Detours	94.81	
		For Hi-Intensity Grade, Add	*10.10*	
01 55 26 00-0199	EA	Temporary 12" x 30" Aluminum Engineer Grade Traffic Sign For Detours	103.23	
		For Hi-Intensity Grade, Add	*12.63*	
01 55 26 00-0200	EA	Temporary 12" x 36" Aluminum Engineer Grade Traffic Sign For Detours	111.65	
		For Hi-Intensity Grade, Add	*15.15*	
01 55 26 00-0201	EA	Temporary 18" x 18" Aluminum Engineer Grade Traffic Sign For Detours	99.02	
		For Hi-Intensity Grade, Add	*11.36*	
01 55 26 00-0202	EA	Temporary 18" x 24" Aluminum Engineer Grade Traffic Sign For Detours	111.65	
		For Hi-Intensity Grade, Add	*15.15*	
01 55 26 00-0203	EA	Temporary 18" x 30" Aluminum Engineer Grade Traffic Sign For Detours	127.87	
		For Hi-Intensity Grade, Add	*18.94*	
01 55 26 00-0204	EA	Temporary 18" x 36" Aluminum Engineer Grade Traffic Sign For Detours	140.49	
		For Hi-Intensity Grade, Add	*22.73*	
01 55 26 00-0205	EA	Temporary 18" x 54" Aluminum Engineer Grade Traffic Sign For Detours	192.76	
		For Hi-Intensity Grade, Add	*34.09*	
01 55 26 00-0206	EA	Temporary 24" x 24" Aluminum Engineer Grade Traffic Sign For Detours	132.08	
		For Hi-Intensity Grade, Add	*20.21*	
01 55 26 00-0207	EA	Temporary 24" x 30" Aluminum Engineer Grade Traffic Sign For Detours	148.91	
		For Hi-Intensity Grade, Add	*25.25*	
01 55 26 00-0208	EA	Temporary 24" x 36" Aluminum Engineer Grade Traffic Sign For Detours	165.75	
		For Hi-Intensity Grade, Add	*30.31*	
01 55 26 00-0209	EA	Temporary 24" x 42" Aluminum Engineer Grade Traffic Sign For Detours	196.97	
		For Hi-Intensity Grade, Add	*35.36*	
01 55 26 00-0210	EA	Temporary 24" x 48" Aluminum Engineer Grade Traffic Sign For Detours	213.81	
		For Hi-Intensity Grade, Add	*40.41*	
01 55 26 00-0211	EA	Temporary 24" x 54" Aluminum Engineer Grade Traffic Sign For Detours	230.65	
		For Hi-Intensity Grade, Add	*45.46*	
01 55 26 00-0212	EA	Temporary 30" x 30" Aluminum Engineer Grade Traffic Sign For Detours	169.96	
		For Hi-Intensity Grade, Add	*31.57*	
01 55 26 00-0213	EA	Temporary 30" x 36" Aluminum Engineer Grade Traffic Sign For Detours	205.39	
		For Hi-Intensity Grade, Add	*37.88*	
01 55 26 00-0214	EA	Temporary 30" x 42" Aluminum Engineer Grade Traffic Sign For Detours	226.44	
		For Hi-Intensity Grade, Add	*44.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0215	EA	Temporary 30" x 48" Aluminum Engineer Grade Traffic Sign For Detours	261.87	
		For Hi-Intensity Grade, Add	*50.51*	
01 55 26 00-0216	EA	Temporary 30" x 60" Aluminum Engineer Grade Traffic Sign For Detours	318.34	
		For Hi-Intensity Grade, Add	*63.14*	
01 55 26 00-0217	EA	Temporary 36" x 36" Aluminum Engineer Grade Traffic Sign For Detours	230.65	
		For Hi-Intensity Grade, Add	*45.46*	
01 55 26 00-0218	EA	Temporary 36" x 42" Aluminum Engineer Grade Traffic Sign For Detours	270.29	
		For Hi-Intensity Grade, Add	*53.03*	
01 55 26 00-0219	EA	Temporary 36" x 48" Aluminum Engineer Grade Traffic Sign For Detours	309.93	
		For Hi-Intensity Grade, Add	*60.61*	
01 55 26 00-0220	EA	Temporary 36" x 54" Aluminum Engineer Grade Traffic Sign For Detours	335.18	
		For Hi-Intensity Grade, Add	*68.19*	
01 55 26 00-0221	EA	Temporary 36" x 60" Aluminum Engineer Grade Traffic Sign For Detours	374.82	
		For Hi-Intensity Grade, Add	*75.76*	
01 55 26 00-0222	EA	Temporary 36" x 73" Aluminum Engineer Grade Traffic Sign For Detours	443.93	
		For Hi-Intensity Grade, Add	*92.18*	
01 55 26 00-0223	EA	Temporary 36" x 78" Aluminum Engineer Grade Traffic Sign For Detours	464.98	
		For Hi-Intensity Grade, Add	*98.49*	
01 55 26 00-0224	EA	Temporary 36" x 108" Aluminum Engineer Grade Traffic Sign For Detours	612.83	
		For Hi-Intensity Grade, Add	*136.37*	
01 55 26 00-0225	EA	Temporary 42" x 42" Aluminum Engineer Grade Traffic Sign For Detours	314.13	
		For Hi-Intensity Grade, Add	*61.87*	
01 55 26 00-0226	EA	Temporary 48" x 48" Aluminum Engineer Grade Traffic Sign For Detours	391.66	
		For Hi-Intensity Grade, Add	*80.81*	
01 55 26 00-0227	EA	Temporary 48" x 54" Aluminum Engineer Grade Traffic Sign For Detours	439.72	
		For Hi-Intensity Grade, Add	*90.92*	
01 55 26 00-0228	EA	Temporary 48" x 60" Aluminum Engineer Grade Traffic Sign For Detours	473.40	
		For Hi-Intensity Grade, Add	*101.02*	
01 55 26 00-0229	EA	Temporary 48" x 66" Aluminum Engineer Grade Traffic Sign For Detours	528.65	
		For Hi-Intensity Grade, Add	*111.12*	
01 55 26 00-0230	EA	Temporary 48" x 72" Aluminum Engineer Grade Traffic Sign For Detours	562.32	
		For Hi-Intensity Grade, Add	*121.22*	
01 55 26 00-0231	EA	Temporary 48" x 84" Aluminum Engineer Grade Traffic Sign For Detours	644.05	
		For Hi-Intensity Grade, Add	*141.43*	
01 55 26 00-0232	EA	Temporary 48" x 96" Aluminum Engineer Grade Traffic Sign For Detours	711.39	
		For Hi-Intensity Grade, Add	*161.63*	
01 55 26 00-0233	EA	Temporary 48" x 102" Aluminum Engineer Grade Traffic Sign For Detours	745.06	
		For Hi-Intensity Grade, Add	*171.73*	
01 55 26 00-0234	EA	Temporary 48" x 108" Aluminum Engineer Grade Traffic Sign For Detours	785.93	
		For Hi-Intensity Grade, Add	*181.83*	
01 55 26 00-0235	EA	Temporary 60" x 72" Aluminum Engineer Grade Traffic Sign For Detours	677.72	
		For Hi-Intensity Grade, Add	*151.53*	
01 55 26 00-0236	EA	Temporary 78" x 96" Aluminum Engineer Grade Traffic Sign For Detours	1,055.31	
		For Hi-Intensity Grade, Add	*262.65*	

01 55 26 00-0237 Temporary Overhead Sign Structures For Detours *(01 55 26 00-0179)*

Note: Including horizontal Z-bars.

01 55 26 00-0238	SF	From 30 To 360 SF Signs For Temporary Overhead Sign Structures For Detours	22.50	
		For Over 10' High, Add	*13.00*	

01 55 26 00-0239 Temporary Sign Posts For Detours *(01 55 26 00-0179)*

Note: Excludes sign.

01 55 26 00-0240 Temporary U-Channel Sign Posts For Detours *(01 55 26 00-0239)*

Note: Excludes digging and concrete.

01 55 26 00-0241 Temporary Baked Enamel U-Channel Sign Posts For Detours *(01 55 26 00-0240)*

01 55 26 00-0242	EA	Temporary 3' To 4' Baked Enamel U-Channel Sign Post Base For Detours	87.81	
01 55 26 00-0243	EA	Temporary 6' Baked Enamel U-Channel Sign Post For Detours	114.31	
01 55 26 00-0244	EA	Temporary 7' Baked Enamel U-Channel Sign Post For Detours	136.60	
01 55 26 00-0245	EA	Temporary 8' Baked Enamel U-Channel Sign Post For Detours	159.85	
01 55 26 00-0246	EA	Temporary 10' Baked Enamel U-Channel Sign Post For Detours	193.09	
01 55 26 00-0247	EA	Temporary 12' Baked Enamel U-Channel Sign Post For Detours	205.09	

01 55 26 00-0248 Temporary Galvanized Steel U-Channel Sign Posts For Detours *(01 55 26 00-0240)*

01 55 26 00-0249	EA	Temporary 3' To 4' Galvanized Steel U-Channel Sign Post Base For Detours	93.80	
01 55 26 00-0250	EA	Temporary 6' Galvanized Steel U-Channel Sign Post For Detours	123.81	
01 55 26 00-0251	EA	Temporary 7' Galvanized Steel U-Channel Sign Post For Detours	158.10	
01 55 26 00-0252	EA	Temporary 8' Galvanized Steel U-Channel Sign Post For Detours	183.61	
01 55 26 00-0253	EA	Temporary 10' Galvanized Steel U-Channel Sign Post For Detours	210.39	
01 55 26 00-0254	EA	Temporary 12' Galvanized Steel U-Channel Sign Post For Detours	220.14	

01 55 26 00-0255 Temporary Fiberglass Or Composite Plastic U-Channel Sign Posts For Detours *(01 55 26 00-0240)*

01 55 26 00-0256	EA	Temporary 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base For Detours	86.40	
01 55 26 00-0257	EA	Temporary 6' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	111.23	
01 55 26 00-0258	EA	Temporary 7' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	132.89	
01 55 26 00-0259	EA	Temporary 8' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	155.43	
01 55 26 00-0260	EA	Temporary 10' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	185.07	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0261	EA	Temporary 12' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	200.34	
01 55 26 00-0262		**Temporary Tubular Sign Posts For Detours** *(01 55 26 00-0239)* Note: Excludes digging and concrete.		
01 55 26 00-0263		**Temporary 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours** *(01 55 26 00-0262)*		
01 55 26 00-0264	EA	Temporary 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours	124.79	
01 55 26 00-0265	EA	Temporary 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours	148.34	
01 55 26 00-0266	EA	Temporary 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours	174.90	
01 55 26 00-0267	EA	Temporary 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours	223.39	
01 55 26 00-0268	EA	Temporary 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours	242.16	
01 55 26 00-0269		**Temporary Square Sign Posts For Detours** *(01 55 26 00-0239)* Note: Excludes digging and concrete.		
01 55 26 00-0270		**Temporary Galvanized Steel Square Sign Posts For Detours** *(01 55 26 00-0269)*		
01 55 26 00-0271	EA	Temporary 3' To 4' Galvanized Steel Square Sign Post Base For Detours	95.13	
01 55 26 00-0272	EA	Temporary 6' Galvanized Steel Square Sign Post For Detours	146.32	
01 55 26 00-0273	EA	Temporary 7' Galvanized Steel Square Sign Post For Detours	172.10	
01 55 26 00-0274	EA	Temporary 8' Galvanized Steel Square Sign Post For Detours	200.75	
01 55 26 00-0275	EA	Temporary 10' Galvanized Steel Square Sign Post For Detours	244.97	
01 55 26 00-0276	EA	Temporary 12' Galvanized Steel Square Sign Post For Detours	263.71	
01 55 26 00-0277		**Temporary Breakaway Sign Posts And Bases For Detours** *(01 55 26 00-0179)* Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit. Excludes sign.		
01 55 26 00-0278		**Temporary 2.5 Lb./LF Breakaway Sign Posts And Base Posts For Detours** *(01 55 26 00-0277)*		
01 55 26 00-0279		**Temporary Base Posts, 2.5 Lb./LF, For Breakaway Sign Posts For Detours** *(01 55 26 00-0278)*		
01 55 26 00-0280	EA	Temporary Base Post for 2.5 Lb./LF, Breakaway Sign Post For Detours	108.83	
01 55 26 00-0281	EA	Temporary Lap Splice Hardware For 2.5 Lb./LF, Breakaway Sign Post For Detours	68.08	
01 55 26 00-0282		**Temporary Breakaway Sign Posts, 2.5 Lb./LF For Detours** *(01 55 26 00-0278)*		
01 55 26 00-0283	LF	Temporary Breakaway Sign Post, 2.5 Lb./LF For Detours	12.72	
01 55 26 00-0284		**Temporary 4 Lb./LF Breakaway Sign Posts And Base Posts For Detours** *(01 55 26 00-0277)*		
01 55 26 00-0285		**Temporary Base Posts, 4 Lb./LF, For Breakaway Sign Posts For Detours** *(01 55 26 00-0284)*		
01 55 26 00-0286	EA	Temporary Base Post for 4 Lb./LF, Breakaway Sign Post For Detours	112.40	
01 55 26 00-0287	EA	Temporary Lap Splice Hardware for 4 Lb./LF, Breakaway Sign Post For Detours	68.08	
01 55 26 00-0288		**Temporary Breakaway Sign Posts, 4 Lb./LF For Detours** *(01 55 26 00-0284)*		
01 55 26 00-0289	LF	Temporary Breakaway Sign Post, 4 Lb./LF For Detours	14.93	
01 55 26 00-0290		**Temporary Driven Sign Posts For Detours** *(01 55 26 00-0277)*		
01 55 26 00-0291		**Temporary Driven Posts, 2.5 Lb./LF For Detours** *(01 55 26 00-0290)*		
01 55 26 00-0292	LF	Temporary Driven Post, 2.5 Lb./LF For Detours	14.63	
		For Each Soil Plate, Add	*3.00*	
01 55 26 00-0293		**Temporary Driven Posts, 4 Lb./LF For Detours** *(01 55 26 00-0290)*		
01 55 26 00-0294	LF	Temporary Driven Post, 4 Lb./LF For Detours	17.81	
		For Each Soil Plate, Add	*3.00*	
01 55 26 00-0295		**Temporary Omni-Directional Breakaway System For Sign Posts And Light Poles For Detours** *(01 55 26 00-0277)*		
01 55 26 00-0296		**Temporary Omni-Directional Breakaway Systems For Signs For Detours** *(01 55 26 00-0295)* Note: Break-Safe as manufactured by Transpo Industries. Organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
01 55 26 00-0297	EA	Temporary Omni-Directional Breakaway System For 6" To 8" Wide Flange (Tramspo B525)	1,221.01	
01 55 26 00-0298	EA	Temporary Omni-Directional Breakaway System For 10" To 21" Wide Flange (Tramspo B650)	1,301.19	
01 55 26 00-0299	EA	Temporary Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Tramspo AI4 And AI6)	892.03	
01 55 26 00-0300	EA	Temporary Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Tramspo A3 And A4.5)	781.30	
01 55 26 00-0301	EA	Temporary Omni-Directional Breakaway System For Square Tube (Tramspo AS3 And AS4)	885.90	
01 55 26 00-0302	EA	Temporary Omni-Directional Breakaway System For U-Channels (Tramspo AU4 To AU6)	842.83	
01 55 26 00-0303	EA	Temporary Omni-Directional Breakaway System For U-Channels Embedded (Tramspo AUX4 To AUX6)	792.34	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0304		Temporary Omni-Directional Breakaway Systems For Poles For Detours *(01 55 26 00-0295)* Note: Pole-Safe As Manufactured By Transpo Industries. Organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retrofitting existing poles.		
01 55 26 00-0305	EA	Temporary Omni-Directional Breakaway System For Poles With 5/8" Couplings	437.62	
01 55 26 00-0306	EA	Temporary Omni-Directional Breakaway System For Poles With 3/4" Couplings	458.86	
01 55 26 00-0307	EA	Temporary Omni-Directional Breakaway System For Poles With 1" Couplings	476.49	
01 55 26 00-0308	EA	Temporary Omni-Directional Breakaway System For Poles With 1 1/4" Couplings	723.51	
01 55 26 00-0309	EA	Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15"	63.53	
01 55 26 00-0310	EA	Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20"	84.71	
01 55 26 00-0311		Temporary Rumble Strips *(01 55 26)* Note: Includes removal after use.		
01 55 26 00-0312	LF	1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip	14.34	
01 55 26 00-0313	LF	1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip	10.31	

01 56 Temporary Barriers and Enclosures *(01 50)*

Note: Includes removal after use.

01 56 16 Temporary Dust Barriers *(01 56)*

CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0001		Temporary Sheeting For Protection *(01 56 16)* Note: Includes removal after use.		
01 56 16 00-0002	SF	4 Mil, Plastic Sheeting, Applied To Floors	0.37	
01 56 16 00-0003	SF	4 Mil, Plastic Sheeting, Applied To Walls	0.49	
01 56 16 00-0004	SF	4 Mil, Plastic Sheeting, Applied To Ceilings	0.66	
01 56 16 00-0005	SF	4 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors	0.40	
01 56 16 00-0006	SF	4 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls	0.52	
01 56 16 00-0007	SF	4 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings	0.69	
01 56 16 00-0008	SF	6 Mil, Plastic Sheeting, Applied To Floors Note: Includes removal after use.	0.41	
01 56 16 00-0009	SF	6 Mil, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.53	
01 56 16 00-0010	SF	6 Mil, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.70	
01 56 16 00-0011	SF	6 Mil, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.69	
01 56 16 00-0012	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors Note: Includes removal after use.	0.49	
01 56 16 00-0013	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.61	
01 56 16 00-0014	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.78	
01 56 16 00-0015	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.73	
01 56 16 00-0016	SF	10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.95	
01 56 16 00-0017	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Floors Note: Includes removal after use.	0.52	
01 56 16 00-0018	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.64	
01 56 16 00-0019	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.81	
01 56 16 00-0020	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.76	
01 56 16 00-0021	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Floors Note: Includes removal after use.	0.51	
01 56 16 00-0022	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.63	
01 56 16 00-0023	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.80	
01 56 16 00-0024	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.75	
01 56 16 00-0025	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors Note: Includes removal after use.	0.58	
01 56 16 00-0026	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.70	
01 56 16 00-0027	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.87	
01 56 16 00-0028	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.82	
01 56 16 00-0029		Temporary Canvas For Protection *(01 56 16)* Note: Includes removal after use.		
01 56 16 00-0030	SF	Heavy-Duty Woven Water Repellant Canvas, Applied To Walls	1.09	
01 56 16 00-0031		Accessories For Temporary Sheeting *(01 56 16)* Note: Includes removal after use.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0032	EA	7' Zipper Door For Plastic Sheeting Note: Includes removal after use.	26.28	
01 56 16 00-0033	LF	Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall) Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors. Includes removal after use.	10.41	
01 56 16 00-0034		**Magnetic Barriers For Temporary Sheeting** *(01 56 16)*		
01 56 16 00-0035	EA	Magnetic Dust Barrier Door System For Plastic Sheeting Note: Multi use. Excludes spring poles and magnetic strips.	28.10	
01 56 16 00-0036	EA	29" To 50", Dust Barrier Spring Pole For Door System Note: Multi use.	7.62	
01 56 16 00-0037	EA	Magnetic Strip For Door System Note: Multi use.	3.95	
01 56 16 00-0038		**Temporary Critical Barriers For Protection** *(01 56 16)* Note: Includes removal after use. See CSI section 02 89 00 00-0002 for Other barriers for infectious control.		
01 56 16 00-0039	EA	Up To 1 SF Individual Critical Barriers For Outlets And Receptacles Note: Includes removal after use.	14.44	
01 56 16 00-0040	EA	>1 To 4 SF Individual Critical Barriers For Diffusers, Ceiling Speakers, Return Grilles, etc. Note: Includes removal after use.	21.89	
01 56 16 00-0041	EA	>4 To 8 SF Individual Critical Barriers For Diffusers, Return Grilles, Access Doors, Light Fixtures, etc. Note: Includes removal after use.	29.40	
01 56 16 00-0042	EA	>8 To 32 SF Individual Critical Barriers For Doors, Windows, etc. Note: Includes removal after use.	45.78	
01 56 16 00-0043		**Temporary Stud Wall** *(01 56 16)* Note: Includes removal after use.		
01 56 16 00-0044		**Temporary Stud Wall With Drywall** *(01 56 16 00-0043)* Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0045		**Temporary Stud Wall With Drywall** *(01 56 16 00-0044)*		
01 56 16 00-0046	SF	3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.62	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0047	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.62	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0048	SF	5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.74	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0049	SF	3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.58	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0050	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.58	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0051	SF	5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.83	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0052		**Temporary Stud Wall With Fire Rated Drywall** *(01 56 16 00-0044)*		
01 56 16 00-0053	SF	1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.76	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0054	SF	5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.80	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0055	SF	5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.73	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0056	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	8.71	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0057	SF	1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.87	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0058	SF	5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.95	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0059	SF	5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.80	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0060	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	12.77	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0061		**Temporary Stud Wall With Oriented Strand Board (OSB)** *(01 56 16 00-0043)* Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0062	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.44	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0063	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.49	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0064	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.64	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0065	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.73	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0066	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.23	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0067	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.33	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0068	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.63	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0069	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.80	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0070		**Temporary Stud Wall With BC Plywood** *(01 56 16 00-0043)* Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0071	SF	3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.80	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0072	SF	1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.99	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0073	SF	5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	8.22	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0074	SF	3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	8.39	
		For Metal Studs 24" On Center, Add/Deduct	*1.28*	
01 56 16 00-0075	SF	3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.94	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0076	SF	1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	11.34	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0077	SF	5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	11.79	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0078	SF	3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	12.12	
		For Metal Studs 24" On Center, Add/Deduct	*1.40*	
01 56 16 00-0079		**Temporary Stud Wall With Plastic Sheeting** *(01 56 16 00-0043)* Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.		
01 56 16 00-0080	SF	6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	4.33	
		For Metal Studs 24" On Center, Add/Deduct	*1.14*	
01 56 16 00-0081	SF	6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	4.41	
		For Metal Studs 24" On Center, Add/Deduct	*1.14*	
01 56 16 00-0082	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	4.44	
		For Metal Studs 24" On Center, Add/Deduct	*1.14*	
01 56 16 00-0083	SF	6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	4.43	
		For Metal Studs 24" On Center, Add/Deduct	*1.14*	
01 56 16 00-0084	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	4.50	
		For Metal Studs 24" On Center, Add/Deduct	*1.14*	
01 56 16 00-0085		**Temporary Doors** *(01 56 16 00-0043)* Note: For temporary stud walls. Includes removal after use.		
01 56 16 00-0086	EA	Temporary Metal Door And Frame Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.	697.24	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0087		Temporary Floor Protection *(01 56 16)*		
		Note: Includes removal after use.		
01 56 16 00-0088	SF	1/8" Thick, Masonite For Temporary Floor Protection	1.96	
		Note: Includes removal after use.		
01 56 16 00-0089	SF	1/2" Thick, Plywood For Temporary Floor Protection	2.07	
		Note: Includes removal after use.		
01 56 16 00-0090	SF	3/4" Thick, Plywood For Temporary Floor Protection	2.33	
		Note: Includes removal after use.		
01 56 16 00-0091	LF	38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection	0.93	
		Note: Includes removal after use.		
01 56 16 00-0092	LF	36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection	0.36	
		Note: Includes removal after use.		
01 56 16 00-0093	CSF	3 Mil, Temporary Self-adhesive Carpet Protection Film	28.82	
		Note: Includes removal after use.		
01 56 16 00-0094	SF	Burlap For Temporary Floor Protection	0.78	
		Note: Includes removal after use.		
01 56 16 00-0095	LF	36" Wide, 10 Mil, Non-Flame Retardant, Leak-Proof, Dust-Free And Slip Resistant, Reusable Protective Floor Covering For Temporary Floor Protection	0.65	
		Note: Includes removal after use.		
		For Seam Tape, Add Per LF	*0.28*	
01 56 16 00-0096	LF	36" Wide, 10 Mil, Flame Retardant, Leak-Proof, Dust-Free And Slip Resistant, Reusable Protective Floor Covering For Temporary Floor Protection	0.76	
		Note: Includes removal after use.		
		For Seam Tape, Add Per LF	*0.28*	
01 56 16 00-0097		Sticky Mats *(01 56 16)*		
		Note: Includes removal after use.		
01 56 16 00-0098	EA	18" x 36", 30 Layer Sticky Mat	39.78	
		Note: Includes removal after use.		
		For 60 Layers Instead Of 30, Add	*26.24*	
01 56 16 00-0099	EA	18" x 46", 30 Layer Sticky Mat	45.61	
		Note: Includes removal after use.		
		For 60 Layers Instead Of 30, Add	*30.61*	
01 56 16 00-0100	EA	24" x 36", 30 Layer Sticky Mat	45.61	
		Note: Includes removal after use.		
		For 60 Layers Instead Of 30, Add	*30.61*	
01 56 16 00-0101	EA	25" x 45", 30 Layer Sticky Mat	60.19	
		Note: Includes removal after use.		
		For 60 Layers Instead Of 30, Add	*41.54*	
01 56 16 00-0102	EA	36" x 36", 30 Layer Sticky Mat	66.02	
		Note: Includes removal after use.		
		For 60 Layers Instead Of 30, Add	*45.92*	
01 56 16 00-0103	EA	36" x 46", 30 Layer Sticky Mat	71.85	
		Note: Includes removal after use.		
		For 60 Layers Instead Of 30, Add	*50.29*	
01 56 16 00-0104	EA	36" x 60", 30 Layer Sticky Mat	144.73	
		Note: Includes removal after use.		
		For 60 Layers Instead Of 30, Add	*104.95*	
01 56 16 00-0105	EA	36" x 72", 30 Layer Sticky Mat	172.71	
		Note: Includes removal after use.		
01 56 16 00-0106		Temporary Panel Assembly Rentals (Edge Guard) *(01 56 16)*		
01 56 16 00-0107		Barrier System Panels *(01 56 16 00-0106)*		
		Note: Panels are adjustable from 7'-8" to 10'-0" height and includes self-leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.		
01 56 16 00-0108	WK	4' Panel Assembly Rental (Edge Guard 4000)	84.74	
01 56 16 00-0109	MO	4' Panel Assembly Rental (Edge Guard 4000)	388.57	
01 56 16 00-0110	WK	3' Panel Assembly Rental (Edge Guard 4001)	79.89	
01 56 16 00-0111	MO	3' Panel Assembly Rental (Edge Guard 4001)	370.41	
01 56 16 00-0112	WK	2' Panel Assembly Rental (Edge Guard 4002)	62.95	
01 56 16 00-0113	MO	2' Panel Assembly Rental (Edge Guard 4002)	292.34	
01 56 16 00-0114	WK	2' Panel Assembly With HEPA Filtered Air Discharge Port Rental (Edge Guard 4002.1)	111.69	
01 56 16 00-0115	MO	2' Panel Assembly With HEPA Filtered Air Discharge Port Rental (Edge Guard 4002.1)	515.06	
01 56 16 00-0116	WK	4' Panel Assembly Rental With 44" Door (Edge Guard 4003)	168.26	
01 56 16 00-0117	MO	4' Panel Assembly Rental With 44" Door (Edge Guard 4003)	775.33	
01 56 16 00-0118	WK	Hinged Corner Assembly Rental (Edge Guard 4004)	29.05	
01 56 16 00-0119	MO	Hinged Corner Assembly Rental (Edge Guard 4004)	130.73	
01 56 16 00-0120	WK	6" Panel Assembly Rental (Edge Guard 4005)	60.92	
01 56 16 00-0121	MO	6" Panel Assembly Rental (Edge Guard 4005)	282.45	
01 56 16 00-0122	WK	12" Panel Assembly Rental (Edge Guard 4006)	44.79	
01 56 16 00-0123	MO	12" Panel Assembly Rental (Edge Guard 4006)	205.18	
01 56 16 00-0124	WK	Outside Corner Post Rental (Edge Guard 4007)	24.21	
01 56 16 00-0125	MO	Outside Corner Post Rental (Edge Guard 4007)	108.94	
01 56 16 00-0126	WK	52" Panel Assembly Rental With 48" Door (Edge Guard 4008)	470.76	
01 56 16 00-0127	MO	52" Panel Assembly Rental With 48" Door (Edge Guard 4008)	2,171.01	
01 56 16 00-0128	WK	T Post Rental (Edge Guard 4009)	24.21	
01 56 16 00-0129	MO	T Post Rental (Edge Guard 4009)	108.94	
01 56 16 00-0130	WK	36" Panel Assembly Rental With 32" Door (Edge Guard 4010)	238.15	
01 56 16 00-0131	MO	36" Panel Assembly Rental With 32" Door (Edge Guard 4010)	1,279.35	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0132		Installation Of Barrier System Panels *(01 56 16 00-0106)* Note: Includes removal after use.		
01 56 16 00-0133	LF	Installation Of Panel Assembly Rental (Edge Guard) Note: Includes panels and corners	78.03	

01 56 26 Temporary Fencing *(01 56)*

01 56 26 00-0001		Temporary Fencing *(01 56 26)* Note: Per ASTM A392-06 Standards		
01 56 26 00-0002		Temporary Chain Link Fence *(01 56 26 00-0001)* Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete.		
01 56 26 00-0003		Temporary Chain Link Fence, Up To 6 Months *(01 56 26 00-0002)*		
01 56 26 00-0004	LF	Temporary 4' High Chain Link Fence And Posts, Up To 6 Months	7.46	
		For >100 To 250, Deduct	*-0.18*	
		For >250 To 500, Deduct	*-0.36*	
		For >500, Deduct	*-0.54*	
		For Each LF Shade Cloth, Add	*1.60*	
01 56 26 00-0005	LF	Temporary 6' High Chain Link Fence And Posts, Up To 6 Months	8.32	
		For >100 To 250, Deduct	*-0.21*	
		For >250 To 500, Deduct	*-0.41*	
		For >500, Deduct	*-0.62*	
		For Each LF Shade Cloth, Add	*2.55*	
01 56 26 00-0006	LF	Temporary 8' High Chain Link Fence And Posts, Up To 6 Months	11.53	
		For >100 To 250, Deduct	*-0.35*	
		For >250 To 500, Deduct	*-0.69*	
		For >500, Deduct	*-1.04*	
		For Each LF Shade Cloth, Add	*3.60*	
01 56 26 00-0007	LF	Temporary 10' High Chain Link Fence And Posts, Up To 6 Months	25.66	
		For >100 To 250, Deduct	*-1.03*	
		For >250 To 500, Deduct	*-2.06*	
		For >500, Deduct	*-3.09*	
		For Each LF Shade Cloth, Add	*4.75*	
01 56 26 00-0008		Temporary Chain Link Fence, >6 To 12 Months *(01 56 26 00-0002)*		
01 56 26 00-0009	LF	Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months	7.83	
		For >100 To 250, Deduct	*-0.20*	
		For >250 To 500, Deduct	*-0.40*	
		For >500, Deduct	*-0.60*	
		For Each LF Shade Cloth, Add	*1.60*	
01 56 26 00-0010	LF	Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months	8.72	
		For >100 To 250, Deduct	*-0.23*	
		For >250 To 500, Deduct	*-0.45*	
		For >500, Deduct	*-0.68*	
		For Each LF Shade Cloth, Add	*2.55*	
01 56 26 00-0011	LF	Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months	12.21	
		For >100 To 250, Deduct	*-0.38*	
		For >250 To 500, Deduct	*-0.76*	
		For >500, Deduct	*-1.14*	
		For Each LF Shade Cloth, Add	*3.60*	
01 56 26 00-0012	LF	Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months	27.71	
		For >100 To 250, Deduct	*-1.13*	
		For >250 To 500, Deduct	*-2.26*	
		For >500, Deduct	*-3.39*	
		For Each LF Shade Cloth, Add	*4.75*	
01 56 26 00-0013		Temporary Chain Link Fence, >12 To 18 Months *(01 56 26 00-0002)*		
01 56 26 00-0014	LF	Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months	8.24	
		For >100 To 250, Deduct	*-0.22*	
		For >250 To 500, Deduct	*-0.44*	
		For >500, Deduct	*-0.66*	
		For Each LF Shade Cloth, Add	*1.60*	
01 56 26 00-0015	LF	Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months	9.18	
		For >100 To 250, Deduct	*-0.25*	
		For >250 To 500, Deduct	*-0.50*	
		For >500, Deduct	*-0.74*	
		For Each LF Shade Cloth, Add	*2.55*	
01 56 26 00-0016	LF	Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months	12.99	
		For >100 To 250, Deduct	*-0.42*	
		For >250 To 500, Deduct	*-0.84*	
		For >500, Deduct	*-1.26*	
		For Each LF Shade Cloth, Add	*3.60*	
01 56 26 00-0017	LF	Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months	29.97	
		For >100 To 250, Deduct	*-1.24*	
		For >250 To 500, Deduct	*-2.49*	
		For >500, Deduct	*-3.73*	
		For Each LF Shade Cloth, Add	*4.75*	
01 56 26 00-0018		Temporary Chain Link Fence, >18 Months *(01 56 26 00-0002)*		

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0019	LF	Temporary 4' High Chain Link Fence And Posts, >18 Months	8.67	
		For >100 To 250, Deduct	*-0.24*	
		For >250 To 500, Deduct	*-0.48*	
		For >500, Deduct	*-0.73*	
		For Each LF Shade Cloth, Add	*1.60*	
01 56 26 00-0020	LF	Temporary 6' High Chain Link Fence And Posts, >18 Months	9.65	
		For >100 To 250, Deduct	*-0.27*	
		For >250 To 500, Deduct	*-0.54*	
		For >500, Deduct	*-0.81*	
		For Each LF Shade Cloth, Add	*2.55*	
01 56 26 00-0021	LF	Temporary 8' High Chain Link Fence And Posts, >18 Months	13.81	
		For >100 To 250, Deduct	*-0.46*	
		For >250 To 500, Deduct	*-0.92*	
		For >500, Deduct	*-1.38*	
		For Each LF Shade Cloth, Add	*3.60*	
01 56 26 00-0022	LF	Temporary 10' High Chain Link Fence And Posts, >18 Months	32.46	
		For >100 To 250, Deduct	*-1.37*	
		For >250 To 500, Deduct	*-2.74*	
		For >500, Deduct	*-4.11*	
		For Each LF Shade Cloth, Add	*4.75*	

01 56 26 00-0023 Temporary Chain Link Fence Gates *(01 56 26 00-0001)*

Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete.

01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months *(01 56 26 00-0023)*

01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months *(01 56 26 00-0024)*

01 56 26 00-0026	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months	303.18	
		For Each LF Shade Cloth, Add	*17.27*	
01 56 26 00-0027	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months	513.19	
		For Each LF Shade Cloth, Add	*43.17*	
01 56 26 00-0028	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months	575.12	
		For Each LF Shade Cloth, Add	*51.80*	
01 56 26 00-0029	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months	654.32	
		For Each LF Shade Cloth, Add	*64.75*	
01 56 26 00-0030	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months	784.43	
		For Each LF Shade Cloth, Add	*86.34*	
01 56 26 00-0031	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months	872.39	
		For Each LF Shade Cloth, Add	*103.60*	

01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months *(01 56 26 00-0024)*

01 56 26 00-0033	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months	324.25	
		For Each LF Shade Cloth, Add	*27.52*	
01 56 26 00-0034	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months	553.50	
		For Each LF Shade Cloth, Add	*68.80*	
01 56 26 00-0035	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months	621.61	
		For Each LF Shade Cloth, Add	*82.56*	
01 56 26 00-0036	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months	719.47	
		For Each LF Shade Cloth, Add	*103.20*	
01 56 26 00-0037	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months	870.08	
		For Each LF Shade Cloth, Add	*137.60*	
01 56 26 00-0038	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months	985.75	
		For Each LF Shade Cloth, Add	*165.12*	

01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months *(01 56 26 00-0024)*

01 56 26 00-0040	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months	361.85	
		For Each LF Shade Cloth, Add	*38.85*	
01 56 26 00-0041	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months	633.31	
		For Shade Cloth, Add	*97.13*	
01 56 26 00-0042	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months	708.91	
		For Shade Cloth, Add	*116.55*	
01 56 26 00-0043	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months	810.98	
		For Shade Cloth, Add	*145.69*	
01 56 26 00-0044	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months	991.13	
		For Shade Cloth, Add	*194.26*	
01 56 26 00-0045	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months	1,147.58	
		For Shade Cloth, Add	*233.11*	

01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months *(01 56 26 00-0024)*

01 56 26 00-0047	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months	438.98	
		For Each LF Shade Cloth, Add	*51.26*	
01 56 26 00-0048	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months	760.72	
		For Each LF Shade Cloth, Add	*128.16*	
01 56 26 00-0049	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months	853.20	
		For Each LF Shade Cloth, Add	*153.79*	
01 56 26 00-0050	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months	974.64	
		For Each LF Shade Cloth, Add	*192.23*	
01 56 26 00-0051	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months	1,191.44	
		For Each LF Shade Cloth, Add	*256.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0052	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months	1,373.31	
		For Each LF Shade Cloth, Add	*307.57*	

01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months *(01 56 26 00-0023)*

01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months *(01 56 26 00-0053)*

01 56 26 00-0055	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	314.75	
		For Each LF Shade Cloth, Add	*17.27*	
01 56 26 00-0056	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	531.17	
		For Each LF Shade Cloth, Add	*43.17*	
01 56 26 00-0057	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	595.68	
		For Each LF Shade Cloth, Add	*51.80*	
01 56 26 00-0058	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	677.44	
		For Each LF Shade Cloth, Add	*64.75*	
01 56 26 00-0059	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	812.70	
		For Each LF Shade Cloth, Add	*86.34*	
01 56 26 00-0060	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	903.22	
		For Each LF Shade Cloth, Add	*103.60*	

01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months *(01 56 26 00-0053)*

01 56 26 00-0062	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	336.34	
		For Each LF Shade Cloth, Add	*27.52*	
01 56 26 00-0063	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	572.30	
		For Each LF Shade Cloth, Add	*68.80*	
01 56 26 00-0064	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	643.10	
		For Each LF Shade Cloth, Add	*82.56*	
01 56 26 00-0065	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	743.65	
		For Each LF Shade Cloth, Add	*103.20*	
01 56 26 00-0066	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	899.63	
		For Each LF Shade Cloth, Add	*137.60*	
01 56 26 00-0067	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,017.99	
		For Each LF Shade Cloth, Add	*165.12*	

01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months *(01 56 26 00-0053)*

01 56 26 00-0069	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	375.14	
		For Each LF Shade Cloth, Add	*38.85*	
01 56 26 00-0070	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	654.00	
		For Shade Cloth, Add	*97.13*	
01 56 26 00-0071	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	732.55	
		For Shade Cloth, Add	*116.55*	
01 56 26 00-0072	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	837.58	
		For Shade Cloth, Add	*145.69*	
01 56 26 00-0073	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,023.63	
		For Shade Cloth, Add	*194.26*	
01 56 26 00-0074	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,183.04	
		For Shade Cloth, Add	*233.11*	

01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months *(01 56 26 00-0053)*

01 56 26 00-0076	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	455.60	
		For Each LF Shade Cloth, Add	*51.26*	
01 56 26 00-0077	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	786.57	
		For Each LF Shade Cloth, Add	*128.16*	
01 56 26 00-0078	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	882.75	
		For Each LF Shade Cloth, Add	*153.79*	
01 56 26 00-0079	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,007.89	
		For Each LF Shade Cloth, Add	*192.23*	
01 56 26 00-0080	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,232.07	
		For Each LF Shade Cloth, Add	*256.31*	
01 56 26 00-0081	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,417.63	
		For Each LF Shade Cloth, Add	*307.57*	

01 56 26 00-0082 Temporary Chain Link Fence Gates, >12 To 18 Months *(01 56 26 00-0023)*

01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, >12 To 18 Months *(01 56 26 00-0082)*

01 56 26 00-0084	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	326.89	
		For Each LF Shade Cloth, Add	*17.27*	
01 56 26 00-0085	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	550.06	
		For Each LF Shade Cloth, Add	*43.17*	
01 56 26 00-0086	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	617.26	
		For Each LF Shade Cloth, Add	*51.80*	
01 56 26 00-0087	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	701.73	
		For Each LF Shade Cloth, Add	*64.75*	
01 56 26 00-0088	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	842.37	
		For Each LF Shade Cloth, Add	*86.34*	
01 56 26 00-0089	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	935.60	
		For Each LF Shade Cloth, Add	*103.60*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0090		**6' High, Temporary Chain Link Fence Gates, >12 To 18 Months** *(01 56 26 00-0082)*		
01 56 26 00-0091	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	349.04	
		For Each LF Shade Cloth, Add	*27.52*	
01 56 26 00-0092	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	592.04	
		For Each LF Shade Cloth, Add	*68.80*	
01 56 26 00-0093	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	665.66	
		For Each LF Shade Cloth, Add	*82.56*	
01 56 26 00-0094	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	769.03	
		For Each LF Shade Cloth, Add	*103.20*	
01 56 26 00-0095	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	930.66	
		For Each LF Shade Cloth, Add	*137.60*	
01 56 26 00-0096	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,051.83	
		For Each LF Shade Cloth, Add	*165.12*	
01 56 26 00-0097		**8' High, Temporary Chain Link Fence Gates, >12 To 18 Months** *(01 56 26 00-0082)*		
01 56 26 00-0098	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	389.11	
		For Each LF Shade Cloth, Add	*38.85*	
01 56 26 00-0099	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	675.72	
		For Shade Cloth, Add	*97.13*	
01 56 26 00-0100	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	757.37	
		For Shade Cloth, Add	*116.55*	
01 56 26 00-0101	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	865.50	
		For Shade Cloth, Add	*145.69*	
01 56 26 00-0102	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,057.76	
		For Shade Cloth, Add	*194.26*	
01 56 26 00-0103	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,220.27	
		For Shade Cloth, Add	*233.11*	
01 56 26 00-0104		**10' High, Temporary Chain Link Fence Gates, >12 To 18 Months** *(01 56 26 00-0082)*		
01 56 26 00-0105	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	473.06	
		For Each LF Shade Cloth, Add	*51.26*	
01 56 26 00-0106	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	813.72	
		For Each LF Shade Cloth, Add	*128.16*	
01 56 26 00-0107	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	913.78	
		For Each LF Shade Cloth, Add	*153.79*	
01 56 26 00-0108	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,042.79	
		For Each LF Shade Cloth, Add	*192.23*	
01 56 26 00-0109	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,274.73	
		For Each LF Shade Cloth, Add	*256.31*	
01 56 26 00-0110	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,464.17	
		For Each LF Shade Cloth, Add	*307.57*	
01 56 26 00-0111		**Temporary Chain Link Fence Gates, >18 Months** *(01 56 26 00-0023)*		
01 56 26 00-0112		**4' High, Temporary Chain Link Fence Gates, >18 Months** *(01 56 26 00-0111)*		
01 56 26 00-0113	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	339.03	
		For Each LF Shade Cloth, Add	*17.27*	
01 56 26 00-0114	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	568.95	
		For Each LF Shade Cloth, Add	*43.17*	
01 56 26 00-0115	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	638.85	
		For Each LF Shade Cloth, Add	*51.80*	
01 56 26 00-0116	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	726.01	
		For Each LF Shade Cloth, Add	*64.75*	
01 56 26 00-0117	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	872.05	
		For Each LF Shade Cloth, Add	*86.34*	
01 56 26 00-0118	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	967.98	
		For Each LF Shade Cloth, Add	*103.60*	
01 56 26 00-0119		**6' High, Temporary Chain Link Fence Gates, >18 Months** *(01 56 26 00-0111)*		
01 56 26 00-0120	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	361.73	
		For Each LF Shade Cloth, Add	*27.52*	
01 56 26 00-0121	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	611.79	
		For Each LF Shade Cloth, Add	*68.80*	
01 56 26 00-0122	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	688.23	
		For Each LF Shade Cloth, Add	*82.56*	
01 56 26 00-0123	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	794.42	
		For Each LF Shade Cloth, Add	*103.20*	
01 56 26 00-0124	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	961.68	
		For Each LF Shade Cloth, Add	*137.60*	
01 56 26 00-0125	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	1,085.68	
		For Each LF Shade Cloth, Add	*165.12*	
01 56 26 00-0126		**8' High, Temporary Chain Link Fence Gates, >18 Months** *(01 56 26 00-0111)*		
01 56 26 00-0127	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	403.07	
		For Each LF Shade Cloth, Add	*38.85*	
01 56 26 00-0128	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	697.44	
		For Shade Cloth, Add	*97.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0129	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	782.20	
		For Shade Cloth, Add	*116.55*	
01 56 26 00-0130	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	893.42	
		For Shade Cloth, Add	*145.69*	
01 56 26 00-0131	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,091.89	
		For Shade Cloth, Add	*194.26*	
01 56 26 00-0132	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,257.50	
		For Shade Cloth, Add	*233.11*	

01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months *(01 56 26 00-0111)*

01 56 26 00-0134	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	490.51	
		For Each LF Shade Cloth, Add	*51.26*	
01 56 26 00-0135	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	840.87	
		For Each LF Shade Cloth, Add	*128.16*	
01 56 26 00-0136	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	944.80	
		For Each LF Shade Cloth, Add	*153.79*	
01 56 26 00-0137	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,077.70	
		For Each LF Shade Cloth, Add	*192.23*	
01 56 26 00-0138	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,317.40	
		For Each LF Shade Cloth, Add	*256.31*	
01 56 26 00-0139	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,510.71	
		For Each LF Shade Cloth, Add	*307.57*	

01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) *(01 56 26 00-0001)*

Note: Includes delivery, set-up and removal. Excludes sandbags.

01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months *(01 56 26 00-0140)*

01 56 26 00-0142	LF	Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months	8.17	
		For >100 To 250, Deduct	*-0.22*	
		For >250 To 500, Deduct	*-0.43*	
		For >500, Deduct	*-0.65*	
		For Each LF Shade Cloth, Add	*1.60*	
01 56 26 00-0143	LF	Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months	9.09	
		For >100 To 250, Deduct	*-0.24*	
		For >250 To 500, Deduct	*-0.49*	
		For >500, Deduct	*-0.73*	
		For Each LF Shade Cloth, Add	*2.55*	
01 56 26 00-0144	LF	Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months	12.46	
		For >100 To 250, Deduct	*-0.39*	
		For >250 To 500, Deduct	*-0.79*	
		For >500, Deduct	*-1.18*	
		For Each LF Shade Cloth, Add	*3.60*	

01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months *(01 56 26 00-0140)*

01 56 26 00-0146	LF	Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	8.55	
		For >100 To 250, Deduct	*-0.24*	
		For >250 To 500, Deduct	*-0.47*	
		For >500, Deduct	*-0.71*	
		For Each LF Shade Cloth, Add	*1.60*	
01 56 26 00-0147	LF	Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months	9.49	
		For >100 To 250, Deduct	*-0.26*	
		For >250 To 500, Deduct	*-0.53*	
		For >500, Deduct	*-0.79*	
		For Each LF Shade Cloth, Add	*2.55*	
01 56 26 00-0148	LF	Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months	13.14	
		For >100 To 250, Deduct	*-0.43*	
		For >250 To 500, Deduct	*-0.85*	
		For >500, Deduct	*-1.28*	
		For Each LF Shade Cloth, Add	*3.60*	

01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months *(01 56 26 00-0140)*

01 56 26 00-0150	LF	Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months	8.92	
		For >100 To 250, Deduct	*-0.25*	
		For >250 To 500, Deduct	*-0.51*	
		For >500, Deduct	*-0.76*	
		For Each LF Shade Cloth, Add	*1.60*	
01 56 26 00-0151	LF	Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months	9.96	
		For >100 To 250, Deduct	*-0.29*	
		For >250 To 500, Deduct	*-0.57*	
		For >500, Deduct	*-0.86*	
		For Each LF Shade Cloth, Add	*2.55*	
01 56 26 00-0152	LF	Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months	13.92	
		For >100 To 250, Deduct	*-0.47*	
		For >250 To 500, Deduct	*-0.93*	
		For >500, Deduct	*-1.40*	
		For Each LF Shade Cloth, Add	*3.60*	

01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months *(01 56 26 00-0140)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0154	LF	Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	9.38	
		For >100 To 250, Deduct	*-0.28*	
		For >250 To 500, Deduct	*-0.56*	
		For >500, Deduct	*-0.83*	
		For Each LF Shade Cloth, Add	*1.60*	
01 56 26 00-0155	LF	Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	10.43	
		For >100 To 250, Deduct	*-0.31*	
		For >250 To 500, Deduct	*-0.62*	
		For >500, Deduct	*-0.93*	
		For Each LF Shade Cloth, Add	*2.55*	
01 56 26 00-0156	LF	Temporary 8' High Chain Link Fence Panels (Portable), >18 Months	14.72	
		For >100 To 250, Deduct	*-0.51*	
		For >250 To 500, Deduct	*-1.01*	
		For >500, Deduct	*-1.52*	
		For Each LF Shade Cloth, Add	*3.60*	

01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags *(01 56 26 00-0140)*

01 56 26 00-0158	BAG	Temporary Chain Link Fence Panels (Portable) Sandbag Note: Includes placement and removal.	7.30

01 56 26 00-0159 Temporary Rail And Timber Structure *(01 56 26 00-0001)*

01 56 26 00-0160	LF	4' High Temporary Rail And Timber Structure Note: Includes steel posts, rails and plates, excavation, concrete, forming, finish, backfill and creosoted planking with 2" gaps	238.94
01 56 26 00-0161	LF	6' High Temporary Rail And Timber Structure Note: Includes steel posts, rails and plates, excavation, concrete, forming, finish, backfill and creosoted planking with 2" gaps	340.88
01 56 26 00-0162	LF	8' High Temporary Rail And Timber Structure Note: Includes steel posts, rails and plates, excavation, concrete, forming, finish, backfill and creosoted planking with 2" gaps	442.81
01 56 26 00-0163	LF	10' High Temporary Rail And Timber Structure Note: Includes steel posts, rails and plates, excavation, concrete, forming, finish, backfill and creosoted planking with 2" gaps	566.95
01 56 26 00-0164	LF	12' High Temporary Rail And Timber Structure Note: Includes steel posts, rails and plates, excavation, concrete, forming, finish, backfill and creosoted planking with 2" gaps	659.28
01 56 26 00-0165	LF	15' High Temporary Rail And Timber Structure Note: Includes steel posts, rails and plates, excavation, concrete, forming, finish, backfill and creosoted planking with 2" gaps	756.43

01 56 26 00-0166 Relocate Chain Link Fence, Gates And Panels *(01 56 26 00-0001)*

Note: Excludes auguring/drilling for posts.

01 56 26 00-0167 Relocate Temporary Chain Link Fence On Site *(01 56 26 00-0166)*

01 56 26 00-0168	LF	Relocate Temporary 4' High Chain Link Fence And Posts	4.25
01 56 26 00-0169	LF	Relocate Temporary 6' High Chain Link Fence And Posts	6.36
01 56 26 00-0170	LF	Relocate Temporary 8' High Chain Link Fence And Posts	9.19
01 56 26 00-0171	LF	Relocate Temporary 10' High Chain Link Fence And Posts	11.32

01 56 26 00-0172 Relocate Temporary Chain Link Fence Panels On Site *(01 56 26 00-0166)*

01 56 26 00-0173	LF	Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.96
01 56 26 00-0174	LF	Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	1.15
01 56 26 00-0175	LF	Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	1.29

01 56 26 00-0176 Relocate Temporary Chain Link Gates On Site *(01 56 26 00-0166)*

01 56 26 00-0177	EA	Relocate Temporary 4' High Chain Link Vehicle Gate And Posts	124.66
01 56 26 00-0178	EA	Relocate Temporary 6' High Chain Link Vehicle Gate And Posts	143.84
01 56 26 00-0179	EA	Relocate Temporary 8' High Chain Link Vehicle Gate And Posts	177.40
01 56 26 00-0180	EA	Relocate Temporary 10' High Chain Link Vehicle Gate And Posts	191.79

01 56 26 00-0181 Temporary Safety Fence *(01 56 26)*

Note: Includes removal after use.

01 56 26 00-0182	LF	48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	3.69

01 56 29 Temporary Protective Walkways *(01 56)*

01 56 29 00-0001 Temporary Sidewalk Bridge Protection *(01 56 29)*

01 56 29 00-0002 Installation of Sidewalk Bridge *(01 56 29 00-0001)*

Note: Excludes material rental. See CSI section 01 56 29 00-0005 for monthly rental x length.

01 56 29 00-0003	LF	Installation of Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.	204.11
		For 3 Post System, Add	*6.00*
		For Each Additional Foot Over 8' Wide, Add	*3.00*
		For Each Additional Foot Over 8' High, Add	*2.00*
01 56 29 00-0004	LF	Installation of Netting for Sidewalk Bridge	5.20

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0005		**Monthly Rental of Sidewalk Bridge** *(01 56 29 00-0001)* Note: Excludes installation set-up and removal. See CSI section 01 56 29 00-0002 for installation set-up, 01 56 29 00-0016 for removal.		
01 56 29 00-0006	LF	Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	15.89	
		For 3 Post System, Add	*2.38*	
01 56 29 00-0007	LF	Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	17.89	
		For 3 Post System, Add	*2.68*	
01 56 29 00-0008	LF	Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	19.88	
		For 3 Post System, Add	*2.98*	
01 56 29 00-0009	LF	Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	19.88	
		For 3 Post System, Add	*2.98*	
01 56 29 00-0010	LF	Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	21.84	
		For 3 Post System, Add	*3.28*	
01 56 29 00-0011	LF	Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	25.86	
		For 3 Post System, Add	*3.88*	
01 56 29 00-0012	LF	Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	23.87	
		For 3 Post System, Add	*3.58*	
01 56 29 00-0013	LF	Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	27.84	
		For 3 Post System, Add	*4.18*	
01 56 29 00-0014	LF	Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	29.79	
		For 3 Post System, Add	*4.47*	
01 56 29 00-0015	LF	Monthly Rental of Netting for Sidewalk Bridge	2.98	
01 56 29 00-0016		**Removal of Sidewalk Bridge** *(01 56 29 00-0001)*		
01 56 29 00-0017	LF	Removal Of Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.	42.48	
		For 3 Post System, Add	*2.50*	
		For Each Additional Foot Over 8' Wide, Add	*1.25*	
		For Each Additional Foot Over 8' High, Add	*0.75*	
01 56 29 00-0018	LF	Removal Of Netting For Sidewalk Bridge	1.43	
01 56 29 00-0019		**Temporary Safety Nets** *(01 56 29)* Note: Includes removal after use.		
01 56 29 00-0020	SF	Small Mesh Debris Netting Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.	3.01	
01 56 33		**Temporary Security Barriers** *(01 56)*		
01 56 33 00-0001		**Board-up Opening With Plywood** *(01 56 33)* Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002	OPNG	Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day	14.39	
01 56 33 00-0003	SF	5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening	9.31	
01 56 33 00-0004	SF	3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening	10.78	
01 56 33 00-0005		**Temporary Pedestrian Barricade** *(01 56 33)* Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006	DAY	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental	14.84	
01 56 33 00-0007	WK	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental	36.04	
01 56 33 00-0008	MO	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental	108.13	
01 56 39		**Temporary Tree and Plant Protection** *(01 56)*		
01 56 39 00-0001		**Temporary Tree Guards** *(01 56 39)* Note: Includes digging holes and removal after use.		
01 56 39 00-0002	EA	Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	210.58	
01 56 39 00-0003	EA	4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	250.14	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 39 00-0004	EA	6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	271.96	

01 57 Temporary Controls *(01 50)*

01 57 13 Temporary Erosion and Sediment Control *(01 57)*

See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.

01 57 23 Temporary Storm Water Pollution Control *(01 57)*

See CSI section 31 25 00 00-0000 for temporary storm water pollution control.

01 57 23 00-0001 Curb Inlet Protection *(01 57 23)*

Note: Includes removal.

01 57 23 00-0002	EA	Curb Inlet Protection Assembly	91.65

01 57 23 00-0003 Temporary Drain Guard *(01 57 23)*

Note: Includes removal after use.

01 57 23 00-0004	EA	36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227)	115.49
01 57 23 00-0005	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217) Note: Up to 0.87 gallons oil, up to 40 Lb. sediment.	113.31
01 57 23 00-0006	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219) Note: Up to 1.38 gallons oil, up to 40 Lb. sediment.	144.03
01 57 23 00-0007	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356) Note: Up to 1.55 gallons oil, up to 40 Lb. sediment.	141.82
01 57 23 00-0008	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358) Note: Up to 2.06 gallons oil, up to 40 Lb. sediment.	174.75

01 57 26 Site Watering for Dust Control *(01 57)*

01 57 26 00-0001 Site Watering for Dust Control *(01 57 26)*

See CSI section 31 23 23 23-0001 for water and water truck.

01 57 26 00-0002	MSF	Apply Synthetic, Liquid Dust Suppression Fluid With GTL Technology (Soil Works Durasoil) Note: GTL (Gas-to-Liquid)	110.14
01 57 26 00-0003	MSF	Apply 2% Solution Of Biodegradable, Liquid Copolymer Dust Suppression Fluid To Ground (Soil Works Gorrila-Snot)	45.45
01 57 26 00-0004	MSF	Apply 4% Solution Of Biodegradable, Liquid Copolymer Dust Suppression Fluid To Ground (Soil Works Gorrila-Snot)	68.36
01 57 26 00-0005	MSF	Apply 8% Solution Of Biodegradable, Liquid Copolymer Dust Suppression Fluid To Ground (Soil Works Gorrila-Snot)	114.16
01 57 26 00-0006	MSF	Apply 12% Solution Of Biodegradable, Liquid Copolymer Dust Suppression Fluid To Ground (Soil Works Gorrila-Snot)	159.97

01 58 Project Identification *(01 50)*

Note: Includes removal after use.

01 58 13 Temporary Project Signage *(01 58)*

01 58 13 00-0001 Project Sign *(01 58 13)*

01 58 13 00-0002 MDO Plywood Signs *(01 58 13 00-0001)*

Note: Excludes posts.

01 58 13 00-0003 Reflectorized, MDO Plywood Signs *(01 58 13 00-0002)*

01 58 13 00-0004 Engineer Grade, Reflectorized, MDO Plywood Signs *(01 58 13 00-0003)*

01 58 13 00-0005	EA	Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	167.02	26.38
		For High-Intensity Grade, Add	*39.99*	
		For Diamond Grade, Add	*77.13*	
01 58 13 00-0006	EA	>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	283.70	27.57
		For High-Intensity Grade, Add	*79.99*	
		For Diamond Grade, Add	*154.27*	
01 58 13 00-0007	EA	>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	400.36	28.77
		For High-Intensity Grade, Add	*119.99*	
		For Diamond Grade, Add	*231.40*	
01 58 13 00-0008	EA	>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	517.04	29.97
		For High-Intensity Grade, Add	*159.99*	
		For Diamond Grade, Add	*308.54*	
01 58 13 00-0009	SF	>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	16.20	0.96
		For High-Intensity Grade, Add	*5.00*	
		For Diamond Grade, Add	*9.64*	

01 58 13 00-0010 Non-Reflectorized, MDO Plywood Signs *(01 58 13 00-0002)*

01 58 13 00-0011 One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs *(01 58 13 00-0010)*

01 58 13 00-0012	EA	Up To 8 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	214.84	26.38
01 58 13 00-0013	EA	>8 To 16 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	255.92	27.57
01 58 13 00-0014	EA	>16 To 24 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	320.01	28.77
01 58 13 00-0015	EA	>24 To 32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	380.54	29.97
01 58 13 00-0016	SF	>32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	11.94	0.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 58 13 00-0017		Full Color Design, Non-Reflectorized, MDO Plywood Signs *(01 58 13 00-0010)*		
01 58 13 00-0018	EA	Up To 8 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	219.40	26.38
01 58 13 00-0019	EA	>8 To 16 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	280.52	27.57
01 58 13 00-0020	EA	>16 To 24 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	345.01	28.77
01 58 13 00-0021	EA	>24 To 32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	401.97	29.97
01 58 13 00-0022	SF	>32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	12.61	0.96
01 58 13 00-0023		Fabricate And Install New Posts *(01 58 13 00-0001)*		
		Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF	Galvanized Metal Channel Sign Posts	20.61	
01 58 13 00-0025	LF	4" x 4" Pressure Treated Wood Sign Posts	15.56	
01 58 13 00-0026	LF	4" x 6" Pressure Treated Wood Sign Posts	18.63	
01 58 13 00-0027		Owner Supplied Signs *(01 58 13 00-0001)*		
01 58 13 00-0028	EA	Installation And Removal Of Owner Supplied Project Sign	95.90	

01 60 Product Requirements *(01)*

01 66 Product Storage and Handling Requirements *(01 60)*

01 66 19 Product Handling Requirements *(01 66)*

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories or less than 125'.

01 66 19 00-0001		Transfer Delivered Materials Between Floors *(01 66 19)*		
		Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0002	CY	Transfer Delivered Material Between Floors Via Stairs, Per Floor	18.44	
		Note: Quantity equals volume of materials multiplied by number of floors traveled.		
01 66 19 00-0003	CY	Transfer Delivered Material Between Floors Via Elevator, Per Trip	11.99	
		Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0004	EA	Moving Material Via Elevator 4" x 24" x 48" Container Per Trip	0.62	
01 66 19 00-0005	EA	Moving Material Via Elevator 6" x 24" x 48" Container Per Trip	0.93	
01 66 19 00-0006	EA	Moving Material Via Elevator 9" x 24" x 48" Container Per Trip	1.40	
01 66 19 00-0007	EA	Moving Material Via Elevator 12" x 24" x 48" Container Per Trip	1.88	
01 66 19 00-0008	EA	Moving Material Via Elevator 4" x 48" x 48" Container Per Trip	1.25	
01 66 19 00-0009	EA	Moving Material Via Elevator 6" x 48" x 48" Container Per Trip	1.88	
01 66 19 00-0010	EA	Moving Material Via Elevator 9" x 48" x 48" Container Per Trip	2.81	
01 66 19 00-0011	EA	Moving Material Via Elevator 9" x 9" x 48" Container Per Trip	0.53	
01 66 19 00-0012	EA	Moving Material Via Elevator 12" x 12" x 48" Container Per Trip	0.93	
01 66 19 00-0013	EA	Moving Material Via Elevator 8.5" x 4.25" x 48" Container Per Trip	0.23	
01 66 19 00-0014	EA	Moving Material Via Elevator 16" x 16" x 24" Container Per Trip	0.83	
01 66 19 00-0015	EA	Moving Material Via Elevator 22" x 22" x 24" Container Per Trip	1.57	
01 66 19 00-0016	EA	Moving Material Via Elevator 48" x 40" x 48" Container Per Trip	12.50	
01 66 19 00-0017	EA	Moving Material Via Elevator 9" x 9" x 96" Container Per Trip	1.05	
01 66 19 00-0018	EA	Moving Material Via Elevator 12" x 12" x 96" Container Per Trip	1.88	
01 66 19 00-0019	EA	Moving Material Via Elevator 8.5" x 4.25" x 96" Container Per Trip	0.47	
01 66 19 00-0020	EA	Moving Material Via Elevator 3.5 Gallon Round Container Per Trip	0.11	
01 66 19 00-0021	EA	Moving Material Via Elevator 5 Gallon Round Container Per Trip	0.16	
01 66 19 00-0022	EA	Moving Material Via Elevator 14 Gallon Round Container Per Trip	0.44	
01 66 19 00-0023	EA	Moving Material Via Elevator 30 Gallon Round Container Per Trip	0.94	
01 66 19 00-0024	EA	Moving Material Via Elevator 55 Gallon Round Container Per Trip	1.73	
01 66 19 00-0025	EA	Moving Material Via Stairs 4" x 24" x 48" Container Per Floor Per Trip	1.04	
01 66 19 00-0026	EA	Moving Material Via Stairs 6" x 24" x 48" Container Per Floor Per Trip	1.56	
01 66 19 00-0027	EA	Moving Material Via Stairs 9" x 24" x 48" Container Per Floor Per Trip	2.35	
01 66 19 00-0028	EA	Moving Material Via Stairs 12" x 24" x 48" Container Per Floor Per Trip	3.13	
01 66 19 00-0029	EA	Moving Material Via Stairs 4" x 48" x 48" Container Per Floor Per Trip	2.09	
01 66 19 00-0030	EA	Moving Material Via Stairs 6" x 48" x 48" Container Per Floor Per Trip	3.13	
01 66 19 00-0031	EA	Moving Material Via Stairs 9" x 48" x 48" Container Per Floor Per Trip	4.68	
01 66 19 00-0032	EA	Moving Material Via Stairs 9" x 9" x 48" Container Per Floor Per Trip	0.88	
01 66 19 00-0033	EA	Moving Material Via Stairs 12" x 12" x 48" Container Per Floor Per Trip	1.56	
01 66 19 00-0034	EA	Moving Material Via Stairs 8.5" x 4.25" x 48" Container Per Floor Per Trip	0.39	
01 66 19 00-0035	EA	Moving Material Via Stairs 16" x 16" x 24" Container Per Floor Per Trip	1.38	
01 66 19 00-0036	EA	Moving Material Via Stairs 22" x 22" x 24" Container Per Floor Per Trip	2.63	
01 66 19 00-0037	EA	Moving Material Via Stairs 48" x 40" x 48" Container Per Floor Per Trip	12.50	
01 66 19 00-0038	EA	Moving Material Via Stairs 9" x 9" x 96" Container Per Floor Per Trip	1.76	
01 66 19 00-0039	EA	Moving Material Via Stairs 12" x 12" x 96" Container Per Floor Per Trip	3.13	
01 66 19 00-0040	EA	Moving Material Via Stairs 8.5" x 4.25" x 96" Container Per Floor Per Trip	0.78	
01 66 19 00-0041	EA	Moving Material Via Stairs 3.5 Gallon Round Container Per Floor Per Trip	0.18	
01 66 19 00-0042	EA	Moving Material Via Stairs 5 Gallon Round Container Per Floor Per Trip	0.26	
01 66 19 00-0043	EA	Moving Material Via Stairs 14 Gallon Round Container Per Floor Per Trip	0.73	
01 66 19 00-0044	EA	Moving Material Via Stairs 30 Gallon Round Container Per Floor Per Trip	1.56	
01 66 19 00-0045	EA	Moving Material Via Stairs 55 Gallon Round Container Per Floor Per Trip	2.87	
01 66 19 00-0046		Transfer Delivered Materials Distances Greater Than 125' *(01 66 19)*		
		Note: For moving delivered, owner supplied or existing materials in a building.		

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 66 19 00-0047	CY	Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	7.49	
01 66 19 00-0048	EA	Handling Material For Over 125' Per 4" x 24" x 48" Container Per 125' Segment	0.49	
01 66 19 00-0049	EA	Handling Material For Over 125' Per 6" x 24" x 48" Container Per 125' Segment	0.74	
01 66 19 00-0050	EA	Handling Material For Over 125' Per 9" x 24" x 48" Container Per 125' Segment	1.10	
01 66 19 00-0051	EA	Handling Material For Over 125' Per 12" x 24" x 48" Container Per 125' Segment	1.47	
01 66 19 00-0052	EA	Handling Material For Over 125' Per 4" x 48" x 48" Container Per 125' Segment	0.98	
01 66 19 00-0053	EA	Handling Material For Over 125' Per 6" x 48" x 48" Container Per 125' Segment	1.47	
01 66 19 00-0054	EA	Handling Material For Over 125' Per 9" x 48" x 48" Container Per 125' Segment	2.22	
01 66 19 00-0055	EA	Handling Material For Over 125' Per 9" x 9" x 48" Container Per 125' Segment	0.41	
01 66 19 00-0056	EA	Handling Material For Over 125' Per 12" x 12" x 48" Container Per 125' Segment	0.74	
01 66 19 00-0057	EA	Handling Material For Over 125' Per 8.5" x 4.25" x 48" Container Per 125' Segment	0.18	
01 66 19 00-0058	EA	Handling Material For Over 125' Per 16" x 16" x 24" Container Per 125' Segment	0.65	
01 66 19 00-0059	EA	Handling Material For Over 125' Per 22" x 22" x 24" Container Per 125' Segment	1.24	
01 66 19 00-0060	EA	Handling Material For Over 125' Per 48" x 40" x 48" Container Per 125' Segment	9.85	
01 66 19 00-0061	EA	Handling Material For Over 125' Per 9" x 9" x 96" Container Per 125' Segment	0.83	
01 66 19 00-0062	EA	Handling Material For Over 125' Per 12" x 12" x 96" Container Per 125' Segment	1.47	
01 66 19 00-0063	EA	Handling Material For Over 125' Per 8.5" x 4.25" x 96" Container Per 125' Segment	0.37	
01 66 19 00-0064	EA	Handling Material For Over 125' Per 3.5 Gallon Round Container Per 125' Segment	0.09	
01 66 19 00-0065	EA	Handling Material For Over 125' Per 5 Gallon Round Container Per 125' Segment	0.12	
01 66 19 00-0066	EA	Handling Material For Over 125' Per 14 Gallon Round Container Per 125' Segment	0.34	
01 66 19 00-0067	EA	Handling Material For Over 125' Per 30 Gallon Round Container Per 125' Segment	0.74	
01 66 19 00-0068	EA	Handling Material For Over 125' Per 55 Gallon Round Container Per 125' Segment	1.35	

01 66 19 00-0069 Transfer Demolition Debris Between Floors *(01 66 19)*

Note: Only for use with demolition tasks.

01 66 19 00-0070	CY	Transfer Demolition Debris Between Floors Via Stairs, Per Floor Note: Quantity equals material volume times bulk factor times number of floors traveled.	18.44	
01 66 19 00-0071	CY	Transfer Demolition Debris Between Floors Via Elevator, Per Trip Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.	11.99	

01 66 19 00-0072 Transfer Demolition Debris Distances Greater Than 125' *(01 66 19)*

Note: Only for use with demolition tasks.

01 66 19 00-0073	CY	Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'	7.49	

01 66 19 00-0074 Moving Furniture And Furnishings *(01 66 19)*

Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.

01 66 19 00-0075	SF	Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.	1.19	

01 66 23 Off-Site Storage Facilities *(01 66)*

01 66 23 00-0001 Climate And Humidity Controlled Off-site Storage Facility *(01 66 23)*

01 66 23 00-0002	MO	5' x 10', Climate And Humidity Controlled Storage Facility	316.32	
01 66 23 00-0003	MO	10' x 10', Climate And Humidity Controlled Storage Facility	354.37	
01 66 23 00-0004	MO	10' x 20', Climate And Humidity Controlled Storage Facility	651.66	
01 66 23 00-0005	MO	15' x 15', Climate And Humidity Controlled Storage Facility	801.50	
01 66 23 00-0006	MO	10' x 30', Climate And Humidity Controlled Storage Facility	1,027.44	

01 70 Execution and Closeout Requirements *(01)*

01 71 Examination and Preparation *(01 70)*

01 71 13 Mobilization *(01 71)*

01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization *(01 71 13)*

Note: Excludes flagman for traffic control where necessary. Per each mobilization delivery.

01 71 13 00-0002	EA	First 25 Miles, Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.	532.82	
01 71 13 00-0003	MI	>25 Miles, Equipment Delivery And Pickup Using A Rollback Flatbed Truck Note: Excludes first 25 miles.	5.69	
01 71 13 00-0004	EA	First 25 Miles, Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy-duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.	1,647.22	
01 71 13 00-0005	MI	>25 Miles, Equipment Delivery And Pickup Using A Tractor Trailer With Up To 53' Bed Note: Excludes first 25 miles.	13.18	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0006		Crane Delivery, Pickup, Mobilization And Demobilization *(01 71 13)* Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.		
01 71 13 00-0007	EA	Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	568.34	
		For >30 To 60 Miles Radius, Add	*142.09*	
		For >60 To 100 Miles Radius, Add	*227.34*	
01 71 13 00-0008	EA	>20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	923.56	
		For >30 To 60 Miles Radius, Add	*230.89*	
		For >60 To 100 Miles Radius, Add	*369.42*	
01 71 13 00-0009	EA	>40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	1,278.77	
		For >30 To 60 Miles Radius, Add	*319.69*	
		For >60 To 100 Miles Radius, Add	*511.51*	
01 71 13 00-0010	EA	>70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	2,060.23	
		For >30 To 60 Miles Radius, Add	*515.06*	
		For >60 To 100 Miles Radius, Add	*824.09*	
01 71 13 00-0011	EA	>110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	2,585.95	
		For >30 To 60 Miles Radius, Add	*646.49*	
		For >60 To 100 Miles Radius, Add	*1,034.38*	
01 71 13 00-0012	EA	>125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	3,218.23	
		For >30 To 60 Miles Radius, Add	*804.56*	
		For >60 To 100 Miles Radius, Add	*1,287.29*	
01 71 13 00-0013	EA	>150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	3,708.42	
		For >30 To 60 Miles Radius, Add	*927.11*	
		For >60 To 100 Miles Radius, Add	*1,483.37*	
01 71 13 00-0014	EA	>185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	4,148.89	
		For >30 To 60 Miles Radius, Add	*1,037.22*	
		For >60 To 100 Miles Radius, Add	*1,659.56*	
01 71 13 00-0015	EA	75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	2,202.32	
		For >30 To 60 Miles Radius, Add	*550.58*	
		For >60 To 100 Miles Radius, Add	*880.93*	
01 71 13 00-0016	EA	100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	3,481.08	
		For >30 To 60 Miles Radius, Add	*870.27*	
		For >60 To 100 Miles Radius, Add	*1,392.43*	
01 71 13 00-0017	EA	125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	4,404.64	
		For >30 To 60 Miles Radius, Add	*1,101.16*	
		For >60 To 100 Miles Radius, Add	*1,761.86*	
01 71 13 00-0018	EA	150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	5,470.28	
		For >30 To 60 Miles Radius, Add	*1,367.57*	
		For >60 To 100 Miles Radius, Add	*2,188.11*	
01 71 13 00-0019	EA	200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	6,820.09	
		For >30 To 60 Miles Radius, Add	*1,705.02*	
		For >60 To 100 Miles Radius, Add	*2,728.04*	
01 71 13 00-0020	EA	250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	7,956.77	
		For >30 To 60 Miles Radius, Add	*1,989.19*	
		For >60 To 100 Miles Radius, Add	*3,182.71*	
01 71 13 00-0021	EA	300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	11,366.82	
		For >30 To 60 Miles Radius, Add	*2,841.71*	
		For >60 To 100 Miles Radius, Add	*4,546.73*	
01 71 13 00-0022	EA	500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	15,586.74	
		For >30 To 60 Miles Radius, Add	*3,896.69*	
		For >60 To 100 Miles Radius, Add	*6,234.70*	

01 71 23 Field Engineering *(01 71)*

01 71 23 16 Construction Surveying *(01 71 23)*

01 71 23 16-0001		Conventional Topographic Survey *(01 71 23 16)* Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.		
01 71 23 16-0002	ACR	Conventional Topographic Survey Of Clear Area With Few To No Obstacles	1,359.49	
01 71 23 16-0003	ACR	Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings)	3,798.29	
01 71 23 16-0004	ACR	Conventional Topographic Survey Of Clear Area With Few Structures, And/or Wooded (5-25% Buildings)	5,456.03	
01 71 23 16-0005	ACR	Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings)	8,192.44	
01 71 23 16-0006	ACR	Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, etc. (>65% Buildings)	10,252.16	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0007		**Property Lines Survey** *(01 71 23 16)*		
		Note: Not to be added to tasks in the "Conventional Topographic Survey" section.		
01 71 23 16-0008	LF	Survey Property Lines On Cleared Land	3.02	
01 71 23 16-0009	LF	Survey Property Lines On Slightly Wooded Land	3.49	
01 71 23 16-0010	LF	Survey Property Lines On Wooded Land	4.08	
01 71 23 16-0011		**Survey Monument** *(01 71 23 16)*		
01 71 23 16-0012	EA	3' Precast Survey Monument	213.89	
		For Owner Furnished Monument, Deduct	*-85.15*	
01 71 23 16-0013	EA	Precast Survey Monument Box With Cast Iron Frame And Cover	320.29	
01 71 23 16-0014	EA	Riser Ring For Survey Monument	165.22	
01 71 23 16-0015	EA	Reset/Relocate/Adjust Survey Monument Cover To Grade	255.45	
01 71 23 16-0016		**Facade Surveying** *(01 71 23 16)*		
01 71 23 16-0017	LF	Facade Survey And Reports (LF Of Facade x Number Of Floors)	8.29	
01 71 23 16-0018		**Utility Survey** *(01 71 23 16)*		
		Note: This survey is only for the location of underground utilities.		
01 71 23 16-0019	ACR	Survey Clear Area For Underground Utilities	6,982.16	
01 71 23 16-0020		**Drone Survey (Extreme Aerial Productions)** *(01 71 23 16)*		
		Note: Thermographic services to electrical line grid inspections.		
01 71 23 16-0021		**Mobilization For Drone Surveying** *(01 71 23 16-0020)*		
01 71 23 16-0022	EA	Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	276.92	
01 71 23 16-0023	EA	Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	692.29	
01 71 23 16-0024	EA	Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	184.61	
01 71 23 16-0025	EA	Mobilization For Drone Road Survey For Topography/Progression/Inspection	369.22	
01 71 23 16-0026	EA	Mobilization For Drone Survey Stockpile	184.61	
01 71 23 16-0027	EA	Mobilization For Drone Inspection	184.61	
01 71 23 16-0028	EA	Mobilization For Qualitative Drone Thermal Inspection	369.22	
01 71 23 16-0029	EA	Mobilization For Quantitative Drone Thermal Inspection	461.52	
01 71 23 16-0030	EA	Mobilization For Drone Agricultural Multispectral Survey	738.44	
01 71 23 16-0031	EA	Mobilization For Drone Building Inspection/Scan/Thermal	553.83	
01 71 23 16-0032	EA	Mobilization For Drone 3D Modelling	461.52	
01 71 23 16-0033	EA	Mobilization For Drone Spraying Crops Or Sanitation	830.74	
01 71 23 16-0034	EA	Mobilization For Drone Video Progression/Marketing	184.61	
01 71 23 16-0035	EA	Mobilization For Drone Pictures Progression/Marketing	184.61	
01 71 23 16-0036	EA	Mobilization For Drone Training, Flying, Test Prep, Equipment Checks	184.61	
01 71 23 16-0037	EA	Mobilization For Drone Accident Reconstruction	184.61	
01 71 23 16-0038	EA	Mobilization For Drone Landfill Survey	276.92	
01 71 23 16-0039	EA	Mobilization For Drone Event Security Using Tethered Drones	369.22	
01 71 23 16-0040	EA	Mobilization For Drone Emergency Response	923.05	
01 71 23 16-0041	EA	Mobilization For Drone Cell Tower Inspection	276.92	
01 71 23 16-0042		**Drone Surveying** *(01 71 23 16-0020)*		
01 71 23 16-0043	HR	Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	673.83	
		Note: 3 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0044	HR	> 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	858.44	
		For Visual Observation, Add	*276.92*	
		For Additional Manpower, Add	*221.53*	
01 71 23 16-0045	HR	Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	553.83	
		Note: 3 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0046	HR	Drone Road Survey For Topography/Progression/Inspection	646.14	
		Note: 3 hour minimum		
		For Visual Observation, Add	*276.92*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0047	HR	Drone Survey Stockpile	461.52	
		Note: 3 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0048	HR	Drone Inspection	646.14	
		Note: 3 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0049	HR	Qualitative Drone Thermal Inspection	738.44	
		Note: 5 hour minimum		
		For Visual Observation, Add	*276.92*	
		For Additional Manpower, Add	*184.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0050	HR	Quantitative Drone Thermal Inspection	1,107.66	
		Note: 5 hour minimum		
		For Visual Observation, Add	*276.92*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0051	HR	Drone Agricultural Multispectral Survey	830.74	
		Note: 6 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0052	HR	Drone Building Inspection/Scan/Thermal	738.44	
		Note: 3 hour minimum		
		For Visual Observation, Add	*276.92*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0053	HR	Drone 3D Modelling	553.83	
		Note: 3 hour minimum		
		For Visual Observation, Add	*276.92*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0054	HR	Drone Spraying Crops Or Sanitation	738.44	
		Note: 3 hour minimum		
		For Visual Observation, Add	*230.76*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0055	HR	Drone Video Progression/Marketing	369.22	
		Note: 2 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0056	HR	Drone Pictures Progression/Marketing	276.92	
		Note: 2 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0057	HR	Drone Training, Flying, Test Prep, Equipment Checks	553.83	
		Note: 3 hour minimum		
01 71 23 16-0058	HR	Drone Accident Reconstruction	830.74	
		Note: 2 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0059	HR	Drone Landfill Survey	673.83	
		Note: 3 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0060	HR	Drone Event Security Using Tethered Drones	461.52	
		Note: 3 hour minimum		
		For Visual Observation, Add	*184.61*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0061	HR	Drone Emergency Response	461.52	
		Note: 3 hour minimum		
		For Visual Observation, Add	*276.92*	
		For Additional Manpower, Add	*184.61*	
01 71 23 16-0062	HR	Drone Cell Tower Inspection	461.52	
		Note: 3 hour minimum		
		For Visual Observation, Add	*230.76*	
		For Additional Manpower, Add	*184.61*	

01 71 23 16-0063 Utilization And Deliverables For Drone Surveying *(01 71 23 16-0020)*

01 71 23 16-0064	Day	Utilization Of GPS Ground Control For Drone Surveying	461.52	
01 71 23 16-0065	Day	Utilization Of GPS Base Station Per Day For Drone Surveying	461.52	
01 71 23 16-0066	HR	Processing And Data Deliverables And Reporting For Drone Surveying	184.61	
		Note: 2 hour minimum		
01 71 23 16-0067	HR	Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying	369.22	
		Note: 3 hour minimum		

01 71 23 16-0068 Travel, Waivers, And Editing For Drone Surveying *(01 71 23 16-0020)*

01 71 23 16-0069	MI	Travel Over 100 Miles For Drone Surveying	1.06	
		Note: For additional miles over 100		
01 71 23 16-0070	EA	Overnight Stay Per Person For Drone Surveying	230.76	
01 71 23 16-0071	EA	Waiver Utilization B, C, D, And E For Drone Surveying	92.30	
		Note: Restricted airspace		
01 71 23 16-0072	EA	Night Waiver For Drone Surveying	120.00	
01 71 23 16-0073	EA	Flying Over People Waiver For Drone Surveying	184.61	
01 71 23 16-0074	EA	Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying	923.05	
01 71 23 16-0075	HR	Editing Video For Drone Surveying	184.61	
		Note: 2 hour minimum		
01 71 23 16-0076	HR	Editing Pictures For Drone Surveying	92.30	
		Note: 2 hour minimum		
01 71 23 16-0077	HR	Custom Post Processing For Drone Surveying	276.92	
		Note: 3 hour minimum		

01 71 23 16-0078 GPR Bridge Deck And Pavement Inspection *(01 71 23 16)*

01 71 23 16-0079 GPR Bridge Deck And Pavement Inspection Mobilization Fee *(01 71 23 16-0078)*

Note: One mobilization per project.

01 71 23 16-0080	EA	GPR Bridge Deck And Pavement Inspection Mobilization Fee	4,239.34	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0081		Bridge Deck Delamination Survey, GPR Bridge Deck Inspection *(01 71 23 16-0078)*		
		Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0082	EA	Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	3,090.15	
01 71 23 16-0083	SF	Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	1.30	
01 71 23 16-0084	SF	>5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	1.03	
01 71 23 16-0085	SF	>10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.82	
01 71 23 16-0086	SF	>25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.62	
01 71 23 16-0087	SF	>50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.49	
01 71 23 16-0088	SF	>100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.39	
01 71 23 16-0089	SF	>250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.29	
01 71 23 16-0090		Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection *(01 71 23 16-0078)*		
		Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0091	EA	Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	1,030.05	
01 71 23 16-0092	SF	Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	0.06	
01 71 23 16-0093		Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection *(01 71 23 16-0078)*		
		Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0094	EA	Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	1,030.05	
01 71 23 16-0095	SF	Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.47	
01 71 23 16-0096	SF	>5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.37	
01 71 23 16-0097	SF	>10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.29	
01 71 23 16-0098	SF	>25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.23	
01 71 23 16-0099	SF	>50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.19	
01 71 23 16-0100	SF	>100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.14	
01 71 23 16-0101	SF	>250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.10	
01 71 23 16-0102		Pavement Structure And Thickness Measurement, GPR Pavement Inspection *(01 71 23 16-0078)*		
		Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0103	LM	Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	7,659.45	
01 71 23 16-0104	LM	>4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	3,339.42	
01 71 23 16-0105	LM	>9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	2,486.54	
01 71 23 16-0106	LM	>49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,357.61	
01 71 23 16-0107	LM	>99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,067.13	
01 71 23 16-0108		Pavement Thickness Contour (Mapping), GPR Pavement Inspection *(01 71 23 16-0078)*		
		Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0109	LM	Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	9,746.33	
01 71 23 16-0110	LM	>4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	4,583.72	
01 71 23 16-0111	LM	>9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	3,481.57	
01 71 23 16-0112	LM	>49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,950.91	
01 71 23 16-0113	LM	>99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,543.01	
01 71 23 16-0114		Pavement Void Detection (Mapping), GPR Pavement Inspection *(01 71 23 16-0078)*		
		Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0115	LM	Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	11,573.64	
01 71 23 16-0116	LM	>4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	5,671.46	
01 71 23 16-0117	LM	>9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	4,350.93	
01 71 23 16-0118	LM	>49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	2,470.06	
01 71 23 16-0119	LM	>99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	1,957.10	
01 71 36		**Non-Destructive Concrete Examination** *(01 71)*		
01 71 36 00-0001		Electromagnetic Survey *(01 71 36)*		
		Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002		Electromagnetic (SIR/GPR) Survey *(01 71 36 00-0001)*		
01 71 36 00-0003	EA	Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	1,191.54	
01 71 36 00-0004	EA	>1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	1,787.31	
01 71 36 00-0005	EA	>4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	3,574.62	
01 71 36 00-0006		Reports And Mapping For Electromagnetic (SIR/GPR) Surveys *(01 71 36 00-0001)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 36 00-0007	EA	Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.	397.18	
01 71 36 00-0008	EA	GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt Note: Includes GPS coordinates of located items and reference items.	794.36	
01 71 36 00-0009	EA	CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt Note: Includes additions to the owner provided CAD drawing.	1,787.31	

01 74 Cleaning and Waste Management *(01 70)*

01 74 13 Progress Cleaning *(01 74)*

Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.

01 74 13 00-0001 General *(01 74 13)*

01 74 13 00-0002	CSF	Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent	19.18	
01 74 13 00-0003	CY	Collect Existing Debris And Load Into Truck Or Dumpster Note: Per CY of debris removed.	28.10	
01 74 13 00-0004	CSF	Wet Mop, Disinfect And High Efficiency Particulate Air (HEPA) Vacuum Floors (Three Step Process) Note: For use in contained areas for Class III or IV infection control.	24.09	

01 74 13 00-0005 Window Washing *(01 74 13)*

Note: Includes scaffolding, platform lift, swing scaffold, boatswains chair or other required equipment.

01 74 13 00-0006	SF	Wash Exterior Windows On First Floor Without Window Guards	1.06	
01 74 13 00-0007	SF	Wash Exterior Windows Above First Floor Without Window Guard	3.00	
01 74 13 00-0008	SF	Wash Interior Windows Without Window Guard	1.60	
01 74 13 00-0009	SF	Wash Exterior Windows On First Floor With Window Guards	2.00	
01 74 13 00-0010	SF	Wash Exterior Windows Above First Floor With Window Guard	3.94	
01 74 13 00-0011	SF	Wash Interior Windows With Window Guard	2.55	

01 74 16 Site Maintenance *(01 74)*

01 74 16 00-0001 Parking Lot, Roads And Pathway Maintenance *(01 74 16)*

Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks.

01 74 16 00-0002 Parking Lot, Road, And Street Sweeping *(01 74 16 00-0001)*

01 74 16 00-0003	MSF	Sweep Parking Lot, With Street Sweeper	25.80	
01 74 16 00-0004	MSF	Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads	30.95	

01 74 16 00-0005 Runway Sweeping *(01 74 16 00-0001)*

01 74 16 00-0006	MSF	Sweep Runway, With Street Sweep	38.69	

01 74 19 Construction Waste Management and Disposal *(01 74)*

Note: Tasks in this section shall be used as directed by owner.

01 74 19 00-0001 Debris Chutes *(01 74 19)*

Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.

01 74 19 00-0002 Steel Temporary Debris Chutes *(01 74 19 00-0001)*

01 74 19 00-0003	LF	18" Diameter, Steel Temporary Debris Chute	46.10	
01 74 19 00-0004	LF	30" Diameter, Steel Temporary Debris Chute	69.70	

01 74 19 00-0005 Plastic Temporary Debris Chutes *(01 74 19 00-0001)*

01 74 19 00-0006	LF	24" Diameter, Plastic Temporary Debris Chute	18.24	
		For Steel Liner, Add		*3.56*
01 74 19 00-0007	LF	30" Diameter, Plastic Temporary Debris Chute	20.92	
		For Steel Liner, Add		*4.09*
01 74 19 00-0008	LF	36" Diameter, Plastic Temporary Debris Chute	23.57	
		For Steel Liner, Add		*4.61*

01 74 19 00-0009 Wood Temporary Debris Chutes *(01 74 19 00-0001)*

01 74 19 00-0010	LF	4' x 4', Wood Temporary Debris Chute Note: Includes fabrication and installation.	35.73	

01 74 19 00-0011 Construction Dumpsters Rental *(01 74 19)*

Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0012	EA	10 CY Dumpster (1.5 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	498.48	
		For Each Ton Over Indicated Amount, Add	*99.00*	
01 74 19 00-0013	EA	15 CY Dumpster (2 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	575.64	
		For Each Ton Over Indicated Amount, Add	*99.00*	
01 74 19 00-0014	EA	20 CY Dumpster (3 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	652.55	
		For Each Ton Over Indicated Amount, Add	*99.00*	
01 74 19 00-0015	EA	30 CY Dumpster (4 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	766.02	
		For Each Ton Over Indicated Amount, Add	*99.00*	
01 74 19 00-0016	EA	40 CY Dumpster (5 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	990.88	
		For Each Ton Over Indicated Amount, Add	*99.00*	
01 74 19 00-0017	EA	10 CY Low-Boy Dumpster "Concrete Or Asphalt Only" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.	869.15	
01 74 19 00-0018	EA	15 CY Low-Boy Dumpster Clean Recyclable Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	948.42	
01 74 19 00-0019	EA	15 CY Low-Boy Dumpster Mixed Recyclable Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	1,019.20	
01 74 19 00-0020		**Concrete Washout Service** *(01 74 19)*		
01 74 19 00-0021	MO	Rampless Concrete Washout Bin Note: Includes delivery.	561.57	
01 74 19 00-0022	MO	Ramped Concrete Washout Bin Note: Includes delivery.	673.89	
01 74 19 00-0023	EA	Interim Vacuum Service, Concrete Washout Bin Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.	656.49	
01 74 19 00-0024	EA	Vacuum, Pickup, Swap And Dump, Concrete Washout Bin Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.	1,422.40	
01 74 19 00-0025		**Debris Processing Fee** *(01 74 19)*		
01 74 19 00-0026		**Material Recycling Fees** *(01 74 19 00-0025)* Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0027	CY	Drop-Off Asphalt At Recycling Center	17.38	
01 74 19 00-0028	CY	Drop-Off Non-Reinforced Concrete At Recycling Center	23.28	
01 74 19 00-0029	CY	Drop-Off Reinforced Concrete At Recycling Center	34.92	
01 74 19 00-0030	CY	Drop-Off Brick Or Block At Recycling Center	30.27	
01 74 19 00-0031	CY	Drop-Off Dirt At Recycling Center	33.76	
01 74 19 00-0032	CY	Drop-Off Dimensional Lumber At Recycling Center	16.30	
01 74 19 00-0033		**Landfill Dump Fees** *(01 74 19 00-0025)* Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling.		
01 74 19 00-0034	CY	Traditional Building Construction Materials Landfill Dump Fee	15.49	
01 74 19 00-0035	TON	Traditional Building Construction Materials, Landfill Dump Fee	67.52	
01 74 19 00-0036	CY	Trees, Stumps And Brush, Landfill Dump Fee	18.65	
01 74 19 00-0037	CY	Hazardous Materials And Rubbish Landfill Dump Fee Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.	44.47	
01 74 19 00-0038	CY	Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	31.60	
01 74 19 00-0039	EA	Disposal Of Tires - Passenger Note: Up to 10 car tires. Use bulk rate for quantities over 10.	2.44	
01 74 19 00-0040	EA	Disposal Of Tires - Truck Note: Up to 5 truck tires. Use bulk rate for quantities over 5.	12.20	
01 74 19 00-0041	EA	Disposal Of Tires - Tractor Note: Up to 4 tractor tires. Use bulk rate for quantities over 4.	18.31	
01 74 19 00-0042	TON	Disposal Of Tires - Bulk Note: Includes cut tires and tire strips.	231.89	
01 74 19 00-0043		**Hauling** *(01 74 19)* Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0044	CYM	Hauling On Paved Roads, First 15 Miles	1.07	
01 74 19 00-0045	CYM	Hauling On Paved Roads, Miles Over Initial 15 Miles	0.72	
01 74 19 00-0046	CYM	Hauling On Unimproved Roads, First 15 Miles	1.65	
01 74 19 00-0047	CYM	Hauling On Unimproved Roads, Miles Over Initial 15 Miles	1.29	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 23		**Final Cleaning** *(01 74)*		
01 74 23 00-0001		Cleaning Of Glass *(01 74 23)*		
01 74 23 00-0002	CSF	Cleaning Of Existing Glass Surfaces	32.73	

01 90 Life Cycle Activities *(01)*

01 91 Commissioning *(01 90)*

01 91 13 General Commissioning Requirements *(01 91)*

01 91 13 00-0001		Commissioning Of Systems *(01 91 13)* Note: For use with commissioning of mechanical and electrical systems.		
01 91 13 00-0002	HR	Commissioning - Fire Protection Sprinkler Systems	208.84	
01 91 13 00-0003	HR	Commissioning - Plumbing Systems	257.10	
01 91 13 00-0004	HR	Commissioning - HVAC/Mechanical Systems	289.24	
01 91 13 00-0005	HR	Commissioning - Electrical/Communications/Fire Alarms/Security Systems	224.06	

END OF SECTION 01

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 Existing Conditions

02 20 Assessment *(02)*

02 25 Existing Material Assessment *(02 20)*

02 25 16 Existing Concrete, Masonry or Asphalt Assessment *(02 25)*

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 25 16 13 Concrete Assessment Drilling *(02 25 16)*

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 30 Subsurface Investigation *(02)*

02 32 Geotechnical Investigations *(02 30)*

02 32 13 Subsurface Drilling and Sampling *(02 32)*

See CSI section 01 45 23 00-0000 for testing and lab reports.

02 32 13 00-0001 Mobilization Of Drilling Crew *(02 32 13)*

02 32 13 00-0002	EA	Mobilization Of Drilling Crew	1,323.77

02 32 13 00-0003 Auger Borings *(02 32 13)*

02 32 13 00-0004	LF	Standard Auger Hole With Split Spoon Sample At 5' Intervals	39.87

02 32 13 00-0005 Cased Borings In Earth, With Samples *(02 32 13)*

Note: All types of soils.

02 32 13 00-0006	LF	2-1/2" Diameter Cased Borings In Earth, With Samples	101.79
02 32 13 00-0007	LF	4" Diameter Cased Borings In Earth, With Samples	174.08

02 32 13 00-0008 Drilling In Rock, BW Core (2.125") *(02 32 13)*

02 32 13 00-0009	LF	Drill In Rock, BW Core, With Casing Note: Includes sampling.	107.73
02 32 13 00-0010	EA	Drill In Rock, With BW Core Boxes	10.16

02 32 13 00-0011 Drilling In Rock, NW Core (2.98") *(02 32 13)*

02 32 13 00-0012	LF	Drill In Rock, NW Core, With Casing Note: Includes sampling.	139.28
02 32 13 00-0013	EA	Drill In Rock, With NW Core Boxes	11.68

02 32 13 00-0014 Test Pits For Boring Activities *(02 32 13)*

Note: Excludes backfill. See CSI section 31 23 16 36-0016 for backfill.

02 32 13 00-0015 Backhoe Dug Test Pits *(02 32 13 00-0014)*

02 32 13 00-0016	CY	Excavation For Test Pit, Light Material, Backhoe Excavation	76.85
02 32 13 00-0017	CY	Excavation For Test Pits, Medium Material, Backhoe Excavation	89.66
02 32 13 00-0018	CY	Excavation For Test Pit, Heavy Material, Backhoe Excavation	119.54

02 32 13 00-0019 Hand-Dug Test Pits *(02 32 13 00-0014)*

02 32 13 00-0020	CY	Excavation For Test Pit, Light Soil, Hand Excavation	213.10
02 32 13 00-0021	CY	Excavation For Test Pit, Heavy Soil, Hand Excavation	383.58

02 32 13 00-0022 Shelby Tube Sampling *(02 32 13)*

02 32 13 00-0023	EA	Shelby Tube Sampling	57.38
02 32 13 00-0024	EA	Penetration Test	46.75

02 32 13 00-0025 Grouting *(02 32 13)*

02 32 13 00-0026	VLF	Boreholes	10.88

02 32 19 Exploratory Excavations *(02 32)*

02 32 19 00-0001 Machine Dug Test, Entry/Exit Pits *(02 32 19)*

02 32 19 00-0002	CY	Test, Entry/Exit Pit Excavation, Backfill And Compaction, By Machine, Unpaved Areas	92.23
02 32 19 00-0003	CY	Test, Entry/Exit Pit Excavation, Backfill And Compaction, By Machine, Paved Areas, Non-Arterial and Non-State Roads	176.78
02 32 19 00-0004	CY	Test, Entry/Exit Pit Excavation, Backfill And Compaction, By Machine, Paved Areas - Arterial and State Roads	230.58

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 32 19 00-0005		Hydro Excavation *(02 32 19)* Note: Assumes on-site disposal. See CSI section 01 22 23 00-1731 for additional water per day, 01 71 13 00-0000 for additional support equipment mobilization, 01 74 19 00-0033 for off-site disposal fee of material, 01 74 19 00-0043 for hauling excavated soil from site.		
02 32 19 00-0006	EA	Minimum Charge For Hydro Excavation Note: For projects where the total charge is less than the "Hydro Excavation Minimum" cost, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	1,665.46	
02 32 19 00-0007	EA	600 to 750 Gallon Water Capacity, 6 To 9 CY Soil Capacity, Hydro Excavation, Mobilization/Demobilization Per Day Note: Includes initial water.	951.69	
02 32 19 00-0008	EA	1,200 To 1,500 Gallon Water Capacity, 12 To 15 CY Soil Capacity, Hydro Excavation, Mobilization/Demobilization Per Day Note: Includes initial water	1,189.62	
02 32 19 00-0009	EA	Move And Set-up At Different Access/Location, Hydro Excavation	118.96	
02 32 19 00-0010	CY	Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck) Note: Normal soil conditions consist of silt, sand and gravel.	99.22	
02 32 19 00-0011	CY	Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck) Note: Adverse soil conditions consist of clay, glacial till and rocks.	158.70	

02 40 Demolition and Structure Moving *(02)*

02 41 Demolition *(02 40)*

02 41 13 Selective Site Demolition *(02 41)*

02 41 13 13 Paving Removal *(02 41 13)*

02 41 13 13-0001		By Machine, Break-up And Leave In Place Bituminous And Concrete Paving *(02 41 13 13)* Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0057 for saw cutting.		
02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	8.17	
		For >500 To 1,000, Deduct	*-0.82*	
		For >1,000 To 2,500, Deduct	*-1.47*	
		For >2,500 To 5,000, Deduct	*-2.12*	
		For >5,000 To 10,000, Deduct	*-2.78*	
		For >10,000, Deduct	*-3.43*	
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	12.26	
		For >500 To 1,000, Deduct	*-1.23*	
		For >1,000 To 2,500, Deduct	*-2.21*	
		For >2,500 To 5,000, Deduct	*-3.19*	
		For >5,000 To 10,000, Deduct	*-4.17*	
		For >10,000, Deduct	*-5.15*	
02 41 13 13-0004	SY	>6" To 9" By Machine, Break-up And Leave In Place Bituminous Paving	16.35	
		For >500 To 1,000, Deduct	*-1.64*	
		For >1,000 To 2,500, Deduct	*-2.94*	
		For >2,500 To 5,000, Deduct	*-4.25*	
		For >5,000 To 10,000, Deduct	*-5.56*	
		For >10,000, Deduct	*-6.87*	
02 41 13 13-0005	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	15.50	
		For >500 To 1,000, Deduct	*-1.55*	
		For >1,000 To 2,500, Deduct	*-2.79*	
		For >2,500 To 5,000, Deduct	*-4.03*	
		For >5,000 To 10,000, Deduct	*-5.27*	
		For >10,000, Deduct	*-6.51*	
02 41 13 13-0006	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	21.89	
		For >500 To 1,000, Deduct	*-2.19*	
		For >1,000 To 2,500, Deduct	*-3.94*	
		For >2,500 To 5,000, Deduct	*-5.69*	
		For >5,000 To 10,000, Deduct	*-7.44*	
		For >10,000, Deduct	*-9.19*	
02 41 13 13-0007	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	31.00	
		For >500 To 1,000, Deduct	*-3.10*	
		For >1,000 To 2,500, Deduct	*-5.58*	
		For >2,500 To 5,000, Deduct	*-8.06*	
		For >5,000 To 10,000, Deduct	*-10.54*	
		For >10,000, Deduct	*-13.02*	
02 41 13 13-0008	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving	43.77	
		For >500 To 1,000, Deduct	*-4.38*	
		For >1,000 To 2,500, Deduct	*-7.88*	
		For >2,500 To 5,000, Deduct	*-11.38*	
		For >5,000 To 10,000, Deduct	*-14.88*	
		For >10,000, Deduct	*-18.38*	
02 41 13 13-0009	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving	57.23	
		For >500 To 1,000, Deduct	*-5.72*	
		For >1,000 To 2,500, Deduct	*-10.30*	
		For >2,500 To 5,000, Deduct	*-14.88*	
		For >5,000 To 10,000, Deduct	*-19.46*	
		For >10,000, Deduct	*-24.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0010	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving	74.40	
		For >500 To 1,000, Deduct	*-7.44*	
		For >1,000 To 2,500, Deduct	*-13.39*	
		For >2,500 To 5,000, Deduct	*-19.34*	
		For >5,000 To 10,000, Deduct	*-25.30*	
		For >10,000, Deduct	*-31.25*	

02 41 13 13-0011 By Hand, Break-up And Leave In Place Bituminous And Concrete Paving *(02 41 13 13)*

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0038 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0057 for saw cutting.

02 41 13 13-0012	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.99	
02 41 13 13-0013	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	2.52	
02 41 13 13-0014	SF	>6" To 9" By Hand, Break-up And Leave In Place Bituminous Paving	3.34	
02 41 13 13-0015	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	2.49	
02 41 13 13-0016	SF	>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	3.16	
02 41 13 13-0017	SF	>6" To 9" By Hand, Break-up And Leave In Place Concrete Paving	4.17	

02 41 13 13-0018 By Machine, Break-up And Remove Bituminous And Concrete Paving *(02 41 13 13)*

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Removal depth to include base aggregate. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.

02 41 13 13-0019	SY	Up To 3" By Machine, Break-up And Remove Bituminous Paving	17.30	
		For Elevated Slab, Add	*8.65*	
		For >500 To 1,000, Deduct	*-1.73*	
		For >1,000 To 2,500, Deduct	*-3.11*	
		For >2,500 To 5,000, Deduct	*-4.50*	
		For >5,000 To 10,000, Deduct	*-5.88*	
		For >10,000, Deduct	*-7.27*	
02 41 13 13-0020	SY	>3" To 6" By Machine, Break-up And Remove Bituminous Paving	23.63	
		For Elevated Slab, Add	*11.82*	
		For >500 To 1,000, Deduct	*-2.36*	
		For >1,000 To 2,500, Deduct	*-4.25*	
		For >2,500 To 5,000, Deduct	*-6.14*	
		For >5,000 To 10,000, Deduct	*-8.03*	
		For >10,000, Deduct	*-9.92*	
02 41 13 13-0021	SY	>6" To 9" By Machine, Break-up And Remove Bituminous Paving	32.78	
		For Elevated Slab, Add	*16.39*	
		For >500 To 1,000, Deduct	*-3.28*	
		For >1,000 To 2,500, Deduct	*-5.90*	
		For >2,500 To 5,000, Deduct	*-8.52*	
		For >5,000 To 10,000, Deduct	*-11.15*	
		For >10,000, Deduct	*-13.77*	
02 41 13 13-0022	SY	>9" To 12" By Machine, Break-up And Remove Bituminous Paving	42.77	
		For Elevated Slab, Add	*21.39*	
		For >500 To 1,000, Deduct	*-4.28*	
		For >1,000 To 2,500, Deduct	*-7.70*	
		For >2,500 To 5,000, Deduct	*-11.12*	
		For >5,000 To 10,000, Deduct	*-14.54*	
		For >10,000, Deduct	*-17.96*	
02 41 13 13-0023	SY	>12" To 15" By Machine, Break-up And Remove Bituminous Paving	59.53	
		For Elevated Slab, Add	*29.77*	
		For >500 To 1,000, Deduct	*-5.95*	
		For >1,000 To 2,500, Deduct	*-10.72*	
		For >2,500 To 5,000, Deduct	*-15.48*	
		For >5,000 To 10,000, Deduct	*-20.24*	
		For >10,000, Deduct	*-25.00*	
02 41 13 13-0024	SY	>15" To 18" By Machine, Break-up And Remove Bituminous Paving	81.85	
		For Elevated Slab, Add	*40.93*	
		For >500 To 1,000, Deduct	*-8.19*	
		For >1,000 To 2,500, Deduct	*-14.73*	
		For >2,500 To 5,000, Deduct	*-21.28*	
		For >5,000 To 10,000, Deduct	*-27.83*	
		For >10,000, Deduct	*-34.38*	
02 41 13 13-0025	SY	Up To 3" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	19.90	
		For Elevated Slab, Add	*9.95*	
		For >500 To 1,000, Deduct	*-1.99*	
		For >1,000 To 2,500, Deduct	*-3.58*	
		For >2,500 To 5,000, Deduct	*-5.17*	
		For >5,000 To 10,000, Deduct	*-6.77*	
		For >10,000, Deduct	*-8.36*	
02 41 13 13-0026	SY	>3" To 6" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	26.04	
		For Elevated Slab, Add	*13.02*	
		For >500 To 1,000, Deduct	*-2.60*	
		For >1,000 To 2,500, Deduct	*-4.69*	
		For >2,500 To 5,000, Deduct	*-6.77*	
		For >5,000 To 10,000, Deduct	*-8.85*	
		For >10,000, Deduct	*-10.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0027	SY	>6" To 9" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	46.50	
		For Elevated Slab, Add	*23.25*	
		For >500 To 1,000, Deduct	*-4.65*	
		For >1,000 To 2,500, Deduct	*-8.37*	
		For >2,500 To 5,000, Deduct	*-12.09*	
		For >5,000 To 10,000, Deduct	*-15.81*	
		For >10,000, Deduct	*-19.53*	
		For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add Note: (Around Existing Structures And Obstructions), Add	*13.95*	
02 41 13 13-0028	SY	>9" To 14" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	60.75	
		For Elevated Slab, Add	*30.38*	
		For >500 To 1,000, Deduct	*-6.08*	
		For >1,000 To 2,500, Deduct	*-10.94*	
		For >2,500 To 5,000, Deduct	*-15.80*	
		For >5,000 To 10,000, Deduct	*-20.66*	
		For >10,000, Deduct	*-25.52*	
		For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add Note: (Around Existing Structures And Obstructions), Add	*18.23*	
02 41 13 13-0029	SY	Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	26.42	
		For Elevated Slab, Add	*13.21*	
		For >500 To 1,000, Deduct	*-2.64*	
		For >1,000 To 2,500, Deduct	*-4.76*	
		For >2,500 To 5,000, Deduct	*-6.87*	
		For >5,000 To 10,000, Deduct	*-8.98*	
		For >10,000, Deduct	*-11.10*	
02 41 13 13-0030	SY	>3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	34.23	
		For Elevated Slab, Add	*17.12*	
		For >500 To 1,000, Deduct	*-3.42*	
		For >1,000 To 2,500, Deduct	*-6.16*	
		For >2,500 To 5,000, Deduct	*-8.90*	
		For >5,000 To 10,000, Deduct	*-11.64*	
		For >10,000, Deduct	*-14.38*	
02 41 13 13-0031	SY	>6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	56.74	
		For Elevated Slab, Add	*28.37*	
		For >500 To 1,000, Deduct	*-5.67*	
		For >1,000 To 2,500, Deduct	*-10.21*	
		For >2,500 To 5,000, Deduct	*-14.75*	
		For >5,000 To 10,000, Deduct	*-19.29*	
		For >10,000, Deduct	*-23.83*	
02 41 13 13-0032	SY	Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	28.64	
		For Elevated Slab, Add	*14.32*	
		For >500 To 1,000, Deduct	*-2.86*	
		For >1,000 To 2,500, Deduct	*-5.16*	
		For >2,500 To 5,000, Deduct	*-7.45*	
		For >5,000 To 10,000, Deduct	*-9.74*	
		For >10,000, Deduct	*-12.03*	
02 41 13 13-0033	SY	>3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	36.83	
		For Elevated Slab, Add	*18.42*	
		For >500 To 1,000, Deduct	*-3.68*	
		For >1,000 To 2,500, Deduct	*-6.63*	
		For >2,500 To 5,000, Deduct	*-9.58*	
		For >5,000 To 10,000, Deduct	*-12.52*	
		For >10,000, Deduct	*-15.47*	
02 41 13 13-0034	SY	>6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	65.85	
		For Elevated Slab, Add	*32.93*	
		For >500 To 1,000, Deduct	*-6.59*	
		For >1,000 To 2,500, Deduct	*-11.85*	
		For >2,500 To 5,000, Deduct	*-17.12*	
		For >5,000 To 10,000, Deduct	*-22.39*	
		For >10,000, Deduct	*-27.66*	
02 41 13 13-0035	SY	>9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	85.94	
		For Elevated Slab, Add	*42.97*	
		For >500 To 1,000, Deduct	*-8.59*	
		For >1,000 To 2,500, Deduct	*-15.47*	
		For >2,500 To 5,000, Deduct	*-22.34*	
		For >5,000 To 10,000, Deduct	*-29.22*	
		For >10,000, Deduct	*-36.09*	
02 41 13 13-0036	SY	>14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	112.36	
		For Elevated Slab, Add	*56.18*	
		For >500 To 1,000, Deduct	*-11.24*	
		For >1,000 To 2,500, Deduct	*-20.22*	
		For >2,500 To 5,000, Deduct	*-29.21*	
		For >5,000 To 10,000, Deduct	*-38.20*	
		For >10,000, Deduct	*-47.19*	
02 41 13 13-0037	SY	>19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	136.35	
		For Elevated Slab, Add	*68.18*	
		For >500 To 1,000, Deduct	*-13.64*	
		For >1,000 To 2,500, Deduct	*-24.54*	
		For >2,500 To 5,000, Deduct	*-35.45*	
		For >5,000 To 10,000, Deduct	*-46.36*	
		For >10,000, Deduct	*-57.27*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 41 13 13-0038 By Hand, Break-up And Remove Bituminous And Concrete Paving *(02 41 13 13)*

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Removal depth to include base aggregate. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.

02 41 13 13-0039	SF	Up To 3" By Hand, Break-up And Remove Bituminous Paving		4.44
02 41 13 13-0040	SF	>3" To 6" By Hand, Break-up And Remove Bituminous Paving		5.84
02 41 13 13-0041	SF	>6" To 9" By Hand, Break-up And Remove Bituminous Paving		7.59
02 41 13 13-0042	SF	Up To 3" By Hand, Break-up And Remove Concrete Paving		5.55
02 41 13 13-0043	SF	>3" To 6" By Hand, Break-up And Remove Concrete Paving		7.66
02 41 13 13-0044	SF	>6" To 9" By Hand, Break-up And Remove Concrete Paving		9.81
02 41 13 13-0045	SF	Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving		7.77
02 41 13 13-0046	SF	>3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving		10.72
02 41 13 13-0047	SF	>6" To 9" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving		13.74

02 41 13 13-0048 Grind Concrete *(02 41 13 13)*

02 41 13 13-0049	EA	Grind Existing Sidewalks, Up To 1/2" Depth, To Remove Ridges (Tripping Hazard) Note: For each location up to 5' wide, feather up to 12" each direction.		279.09
		For >1/2" To 1" Depth Of Grinding, Add		*41.86*
		For >1" To 1-1/2" Depth Of Grinding, Add		*69.77*
		For Up To 5, Add		*55.82*
		For >5 To 10, Add		*27.91*
		For >25 To 50, Deduct		*-27.91*
		For >50 To 250, Deduct		*-41.86*
		For >250, Deduct		*-55.82*
		For Sidewalks >5', Add		*27.91*
		For Up To 12" Additional Feathering Per Side, Add		*27.91*

02 41 13 15 Hydro Demolition *(02 41 13)*

02 41 13 15-0001 Hydro Demolition Of Concrete Pavement *(02 41 13 15)*

Note: Includes removal but excludes disposal of concrete.

02 41 13 15-0002	SF	Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet		8.48
02 41 13 15-0003	SF	>2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet		10.60
02 41 13 15-0004	SF	>4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet		14.17
02 41 13 15-0005	SF	>6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet		28.21

02 41 16 Structure Demolition *(02 41)*

02 41 16 13 Building Demolition *(02 41 16)*

02 41 16 13-0001 Building Interior Demolition *(02 41 16 13)*

Note: Gutted and placed in truck or dumpsters. Based on overall floor area square foot or Gross Square Foot (GSF) including flooring under interior demolished walls. Includes all soft stripping of materials (doors and frames, non-load bearing walls, carpet, moldings, drywall, tile, ceiling, ductwork, piping, light fixtures, etc.), accessible mechanical, electrical, plumbing, overhead sprinkler, fire protection and similar systems. Excludes lead, asbestos or other contaminates or load bearing walls, mechanical, plumbing or electrical equipment such as furnaces, water heaters, plumbing fixtures, sump pumps, switchgear or panel boards. Excludes hauling, dump fees, recycling charges, and/or salvage value.

02 41 16 13-0002	GSF	Residential Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck		8.86
02 41 16 13-0003	GSF	Up To 2,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck		13.39
02 41 16 13-0004	GSF	>2,000 To 10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck		10.95
02 41 16 13-0005	GSF	>10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck		9.73

02 41 16 13-0006 Commercial And Residential Structures Demolition *(02 41 16 13)*

Note: Complete demolition of structures. Includes site and building safety preparation, signage, dust control, scattered debris and other site cleanup, demolition equipment, and repair of any damaged adjacent property. Excludes (if required) utility disconnects and capping, underground or above ground storage tank removal, adjacent property protection, adjacent property cleanup, adjacent property work, site paving (asphalt or concrete), recycling fees, gutting/soft stripping (selective removal of materials for reuse) of building, site security, hazardous material abatement (including lead, asbestos, and PCBs), surveys, clearing and grubbing of site, cranes, traffic control, elevator removal, major mechanical equipment such as boilers, chillers, cooling towers, Etc., excavation or backfill, foundations, basement floor, slab-on grade, temporary fencing (installation and removal), hauling, disposal and dump fees for all debris (site and building), earthwork and erosion control. Pricing is by Hundred Cubic Foot (CCF) of complete building volume being demolished. For computing building volume, height is computed at actual floor-to-floor dimensions with attic and basement each computed at half-height, width and length are actual dimensions. Excludes salvage value.

02 41 16 13-0007 Steel Framed Building Demolition *(02 41 16 13-0006)*

Note: Includes masonry partitions and concrete decks.

02 41 16 13-0008	CCF	By Pneumatic Tools/Hand, Steel Framed Building Demolition		82.37
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct		*-6.18*
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct		*-12.36*
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct		*-18.53*
		For Up To 500, Add		*24.71*
		For >500 To 1,000, Add		*16.47*
		For >1,000 To 2,000, Add		*8.24*
		For Volume Of Area Within 15' To An Adjacent Building, Add		*27.18*
		For No Interior Partitions, Deduct		*-20.59*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0009	CCF	By Machine, Steel Framed Building Demolition	52.04	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	*-3.90*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	*-7.81*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	*-11.71*	
		For Up To 500, Add	*15.61*	
		For >500 To 1,000, Add	*10.41*	
		For >1,000 To 2,000, Add	*5.20*	
		For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	*7.81*	
		For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	*13.01*	
		For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	*18.21*	
		For Volume Of Area Within 15' To An Adjacent Building, Add	*17.17*	
		For No Interior Partitions, Deduct	*-13.01*	

02 41 16 13-0010 Reinforced Concrete Building Demolition *(02 41 16 13-0006)*

02 41 16 13-0011	CCF	By Pneumatic Tools/Hand, Reinforced Concrete Building Demolition	103.36	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	*-7.75*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	*-15.50*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	*-23.26*	
		For Up To 500, Add	*31.01*	
		For >500 To 1,000, Add	*20.67*	
		For >1,000 To 2,000, Add	*10.34*	
		For Volume Of Area Within 15' To An Adjacent Building, Add	*34.11*	
		For No Interior Partitions, Deduct	*-25.84*	
02 41 16 13-0012	CCF	By Machine, Reinforced Concrete Building Demolition	68.71	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	*-5.15*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	*-10.31*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	*-15.46*	
		For Up To 500, Add	*20.61*	
		For >500 To 1,000, Add	*13.74*	
		For >1,000 To 2,000, Add	*6.87*	
		For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	*10.31*	
		For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	*17.18*	
		For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	*24.05*	
		For Volume Of Area Within 15' To An Adjacent Building, Add	*22.67*	
		For No Interior Partitions, Deduct	*-17.18*	

02 41 16 13-0013 Reinforced Block Masonry Building Demolition *(02 41 16 13-0006)*

02 41 16 13-0014	CCF	By Pneumatic Tools/Hand, Reinforced Block Masonry Building Demolition	88.00	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	*-6.60*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	*-13.20*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	*-19.80*	
		For Up To 500, Add	*26.40*	
		For >500 To 1,000, Add	*17.60*	
		For >1,000 To 2,000, Add	*8.80*	
		For Volume Of Area Within 15' To An Adjacent Building, Add	*29.04*	
		For No Interior Partitions, Deduct	*-22.00*	
02 41 16 13-0015	CCF	By Machine, Reinforced Block Masonry Building Demolition	57.70	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	*-4.33*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	*-8.66*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	*-12.98*	
		For Up To 500, Add	*17.31*	
		For >500 To 1,000, Add	*11.54*	
		For >1,000 To 2,000, Add	*5.77*	
		For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	*8.66*	
		For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	*14.43*	
		For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	*20.20*	
		For Volume Of Area Within 15' To An Adjacent Building, Add	*19.04*	
		For No Interior Partitions, Deduct	*-14.43*	

02 41 16 13-0016 Masonry Construction Building Demolition *(02 41 16 13-0006)*

02 41 16 13-0017	CCF	By Pneumatic Tools/Hand, Masonry Construction Building Demolition	72.63	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	*-5.45*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	*-10.89*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	*-16.34*	
		For Up To 500, Add	*21.79*	
		For >500 To 1,000, Add	*14.53*	
		For >1,000 To 2,000, Add	*7.26*	
		For Volume Of Area Within 15' To An Adjacent Building, Add	*23.97*	
		For No Interior Partitions, Deduct	*-18.16*	
02 41 16 13-0018	CCF	By Machine, Masonry Construction Building Demolition	46.69	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	*-3.50*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	*-7.00*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	*-10.51*	
		For Up To 500, Add	*14.01*	
		For >500 To 1,000, Add	*9.34*	
		For >1,000 To 2,000, Add	*4.67*	
		For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	*7.00*	
		For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	*11.67*	
		For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	*16.34*	
		For Volume Of Area Within 15' To An Adjacent Building, Add	*15.41*	
		For No Interior Partitions, Deduct	*-11.67*	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0019		Wood Frame Construction Building Demolition *(02 41 16 13-0006)*		
02 41 16 13-0020	CCF	By Pneumatic Tools/Hand, Wood Frame Construction Building Demolition	63.12	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	*-4.73*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	*-9.47*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	*-14.20*	
		For Up To 500, Add	*18.94*	
		For >500 To 1,000, Add	*12.62*	
		For >1,000 To 2,000, Add	*6.31*	
		For Volume Of Area Within 15' To An Adjacent Building, Add	*20.83*	
		For No Interior Partitions, Deduct	*-15.78*	
02 41 16 13-0021	CCF	By Machine, Wood Frame Construction Building Demolition	39.95	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	*-3.00*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	*-5.99*	
		For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	*-8.99*	
		For Up To 500, Add	*11.99*	
		For >500 To 1,000, Add	*7.99*	
		For >1,000 To 2,000, Add	*4.00*	
		For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	*5.99*	
		For Volume Of Area Within 15' To An Adjacent Building, Add	*13.18*	
		For No Interior Partitions, Deduct	*-9.99*	
02 41 16 13-0022		Sorting Of Material Debris For Recycling Prior To Hauling Off *(02 41 16 13-0006)*		
		Note: Per building volume.		
02 41 16 13-0023	CCF	Sorting Of Material Debris For Recycling Prior To Hauling Off	10.53	
		For Up To 500, Add	*3.16*	
		For >500 To 1,000, Add	*2.11*	
		For >1,000 To 2,000, Add	*1.05*	
02 41 16 13-0024		Foundation Demolition *(02 41 16 13)*		
		Note: Excludes earthwork.		
02 41 16 13-0025		Concrete Foundation Demolition *(02 41 16 13-0024)*		
02 41 16 13-0026	CF	Non-Reinforced Concrete Foundation Demolition	16.62	
		For >135 To 405, Deduct	*-1.45*	
		For >405 To 810, Deduct	*-2.91*	
		For >810 To 2025, Deduct	*-4.16*	
		For >2025, Deduct	*-6.65*	
02 41 16 13-0027	CF	Reinforced Concrete Foundation Demolition	19.94	
		For >135 To 405, Deduct	*-1.74*	
		For >405 To 810, Deduct	*-3.49*	
		For >810 To 2025, Deduct	*-4.99*	
		For >2025, Deduct	*-7.98*	
02 41 16 13-0028		Concrete Foundation Wall Demolition *(02 41 16 13-0024)*		
02 41 16 13-0029	SF	4" Thick Non-Reinforced Concrete Foundation Wall Demolition	7.13	
		For >500 To 2,000, Deduct	*-0.53*	
		For >2,000 To 6,000, Deduct	*-1.43*	
		For >6,000 To 8,000, Deduct	*-2.50*	
		For >8,000, Deduct	*-3.92*	
02 41 16 13-0030	SF	6" Thick Non-Reinforced Concrete Foundation Wall Demolition	9.49	
		For >500 To 2,000, Deduct	*-0.71*	
		For >2,000 To 6,000, Deduct	*-1.90*	
		For >6,000 To 8,000, Deduct	*-3.32*	
		For >8,000, Deduct	*-5.22*	
02 41 16 13-0031	SF	8" Thick Non-Reinforced Concrete Foundation Wall Demolition	11.87	
		For >500 To 2,000, Deduct	*-0.89*	
		For >2,000 To 6,000, Deduct	*-2.37*	
		For >6,000 To 8,000, Deduct	*-4.15*	
		For >8,000, Deduct	*-6.53*	
02 41 16 13-0032	SF	10" Thick Non-Reinforced Concrete Foundation Wall Demolition	14.24	
		For >500 To 2,000, Deduct	*-1.07*	
		For >2,000 To 6,000, Deduct	*-2.85*	
		For >6,000 To 8,000, Deduct	*-4.98*	
		For >8,000, Deduct	*-7.83*	
02 41 16 13-0033	SF	12" Thick Non-Reinforced Concrete Foundation Wall Demolition	16.62	
		For >500 To 2,000, Deduct	*-1.25*	
		For >2,000 To 6,000, Deduct	*-3.32*	
		For >6,000 To 8,000, Deduct	*-5.82*	
		For >8,000, Deduct	*-9.14*	
02 41 16 13-0034	SF	16" Thick Non-Reinforced Concrete Foundation Wall Demolition	19.00	
		For >500 To 2,000, Deduct	*-1.43*	
		For >2,000 To 6,000, Deduct	*-3.80*	
		For >6,000 To 8,000, Deduct	*-6.65*	
		For >8,000, Deduct	*-10.45*	
02 41 16 13-0035	SF	4" Thick Reinforced Concrete Foundation Wall Demolition	8.54	
		For >500 To 2,000, Deduct	*-0.64*	
		For >2,000 To 6,000, Deduct	*-1.71*	
		For >6,000 To 8,000, Deduct	*-2.99*	
		For >8,000, Deduct	*-4.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0036	SF	6" Thick Reinforced Concrete Foundation Wall Demolition		11.40
		For >500 To 2,000, Deduct		*-0.86*
		For >2,000 To 6,000, Deduct		*-2.28*
		For >6,000 To 8,000, Deduct		*-3.99*
		For >8,000, Deduct		*-6.27*
02 41 16 13-0037	SF	8" Thick Reinforced Concrete Foundation Wall Demolition		14.24
		For >500 To 2,000, Deduct		*-1.07*
		For >2,000 To 6,000, Deduct		*-2.85*
		For >6,000 To 8,000, Deduct		*-4.98*
		For >8,000, Deduct		*-7.83*
02 41 16 13-0038	SF	10" Thick Reinforced Concrete Foundation Wall Demolition		16.85
		For >500 To 2,000, Deduct		*-1.26*
		For >2,000 To 6,000, Deduct		*-3.37*
		For >6,000 To 8,000, Deduct		*-5.90*
		For >8,000, Deduct		*-9.27*
02 41 16 13-0039	SF	12" Thick Reinforced Concrete Foundation Wall Demolition		19.94
		For >500 To 2,000, Deduct		*-1.50*
		For >2,000 To 6,000, Deduct		*-3.99*
		For >6,000 To 8,000, Deduct		*-6.98*
		For >8,000, Deduct		*-10.97*
02 41 16 13-0040	SF	16" Thick Reinforced Concrete Foundation Wall Demolition		22.79
		For >500 To 2,000, Deduct		*-1.71*
		For >2,000 To 6,000, Deduct		*-4.56*
		For >6,000 To 8,000, Deduct		*-7.98*
		For >8,000, Deduct		*-12.53*

02 41 16 13-0041 Concrete Block Foundation Wall Demolition *(02 41 16 13-0024)*

02 41 16 13-0042	SF	4" Thick Non-Reinforced Concrete Block Foundation Wall Demolition		5.22
		For >500 To 2,000, Deduct		*-0.39*
		For >2,000 To 6,000, Deduct		*-1.04*
		For >6,000 To 8,000, Deduct		*-1.83*
		For >8,000, Deduct		*-2.87*
02 41 16 13-0043	SF	6" Thick Non-Reinforced Concrete Block Foundation Wall Demolition		5.58
		For >500 To 2,000, Deduct		*-0.42*
		For >2,000 To 6,000, Deduct		*-1.12*
		For >6,000 To 8,000, Deduct		*-1.95*
		For >8,000, Deduct		*-3.07*
02 41 16 13-0044	SF	8" Thick Non-Reinforced Concrete Block Foundation Wall Demolition		6.29
		For >500 To 2,000, Deduct		*-0.47*
		For >2,000 To 6,000, Deduct		*-1.26*
		For >6,000 To 8,000, Deduct		*-2.20*
		For >8,000, Deduct		*-3.46*
02 41 16 13-0045	SF	10" Thick Non-Reinforced Concrete Block Foundation Wall Demolition		7.24
		For >500 To 2,000, Deduct		*-0.54*
		For >2,000 To 6,000, Deduct		*-1.45*
		For >6,000 To 8,000, Deduct		*-2.53*
		For >8,000, Deduct		*-3.98*
02 41 16 13-0046	SF	12" Thick Non-Reinforced Concrete Block Foundation Wall Demolition		8.08
		For >500 To 2,000, Deduct		*-0.61*
		For >2,000 To 6,000, Deduct		*-1.62*
		For >6,000 To 8,000, Deduct		*-2.83*
		For >8,000, Deduct		*-4.44*
02 41 16 13-0047	SF	16" Thick Non-Reinforced Concrete Block Foundation Wall Demolition		10.09
		For >500 To 2,000, Deduct		*-0.76*
		For >2,000 To 6,000, Deduct		*-2.02*
		For >6,000 To 8,000, Deduct		*-3.53*
		For >8,000, Deduct		*-5.55*
02 41 16 13-0048	SF	4" Thick Reinforced Concrete Block Foundation Wall Demolition		6.27
		For >500 To 2,000, Deduct		*-0.47*
		For >2,000 To 6,000, Deduct		*-1.25*
		For >6,000 To 8,000, Deduct		*-2.19*
		For >8,000, Deduct		*-3.45*
02 41 16 13-0049	SF	6" Thick Reinforced Concrete Block Foundation Wall Demolition		6.69
		For >500 To 2,000, Deduct		*-0.50*
		For >2,000 To 6,000, Deduct		*-1.34*
		For >6,000 To 8,000, Deduct		*-2.34*
		For >8,000, Deduct		*-3.68*
02 41 16 13-0050	SF	8" Thick Reinforced Concrete Block Foundation Wall Demolition		7.55
		For >500 To 2,000, Deduct		*-0.57*
		For >2,000 To 6,000, Deduct		*-1.51*
		For >6,000 To 8,000, Deduct		*-2.64*
		For >8,000, Deduct		*-4.15*
02 41 16 13-0051	SF	10" Thick Reinforced Concrete Block Foundation Wall Demolition		8.69
		For >500 To 2,000, Deduct		*-0.65*
		For >2,000 To 6,000, Deduct		*-1.74*
		For >6,000 To 8,000, Deduct		*-3.04*
		For >8,000, Deduct		*-4.78*
02 41 16 13-0052	SF	12" Thick Reinforced Concrete Block Foundation Wall Demolition		9.68
		For >500 To 2,000, Deduct		*-0.73*
		For >2,000 To 6,000, Deduct		*-1.94*
		For >6,000 To 8,000, Deduct		*-3.39*
		For >8,000, Deduct		*-5.32*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0053	SF	16" Thick Reinforced Concrete Block Foundation Wall Demolition	12.11	
		For >500 To 2,000, Deduct	*-0.91*	
		For >2,000 To 6,000, Deduct	*-2.42*	
		For >6,000 To 8,000, Deduct	*-4.24*	
		For >8,000, Deduct	*-6.66*	

02 41 16 13-0054 Brick Foundation Wall Demolition *(02 41 16 13-0024)*

02 41 16 13-0055	SF	4" Thick Brick Foundation Wall Demolition	5.22	
		For >500 To 2,000, Deduct	*-0.39*	
		For >2,000 To 6,000, Deduct	*-1.04*	
		For >6,000 To 8,000, Deduct	*-1.83*	
		For >8,000, Deduct	*-2.87*	
02 41 16 13-0056	SF	6" Thick Brick Foundation Wall Demolition	5.58	
		For >500 To 2,000, Deduct	*-0.42*	
		For >2,000 To 6,000, Deduct	*-1.12*	
		For >6,000 To 8,000, Deduct	*-1.95*	
		For >8,000, Deduct	*-3.07*	
02 41 16 13-0057	SF	8" Thick Brick Foundation Wall Demolition	6.29	
		For >500 To 2,000, Deduct	*-0.47*	
		For >2,000 To 6,000, Deduct	*-1.26*	
		For >6,000 To 8,000, Deduct	*-2.20*	
		For >8,000, Deduct	*-3.46*	
02 41 16 13-0058	SF	10" Thick Brick Foundation Wall Demolition	7.24	
		For >500 To 2,000, Deduct	*-0.54*	
		For >2,000 To 6,000, Deduct	*-1.45*	
		For >6,000 To 8,000, Deduct	*-2.53*	
		For >8,000, Deduct	*-3.98*	
02 41 16 13-0059	SF	12" Thick Brick Foundation Wall Demolition	8.08	
		For >500 To 2,000, Deduct	*-0.61*	
		For >2,000 To 6,000, Deduct	*-1.62*	
		For >6,000 To 8,000, Deduct	*-2.83*	
		For >8,000, Deduct	*-4.44*	
02 41 16 13-0060	SF	16" Thick Brick Foundation Wall Demolition	10.09	
		For >500 To 2,000, Deduct	*-0.76*	
		For >2,000 To 6,000, Deduct	*-2.02*	
		For >6,000 To 8,000, Deduct	*-3.53*	
		For >8,000, Deduct	*-5.55*	

02 41 16 13-0061 Stone Foundation Demolition *(02 41 16 13-0024)*

02 41 16 13-0062	CF	Stone Footing Or Foundation Wall Demolition	16.62	
		For >135 To 405, Deduct	*-1.45*	
		For >405 To 810, Deduct	*-2.91*	
		For >810 To 2025, Deduct	*-4.16*	
		For >2025, Deduct	*-6.65*	

02 41 16 13-0063 Other Foundation Demolition *(02 41 16 13-0024)*

02 41 16 13-0064	CF	Concrete Footing Demolition For Fence, Gate Or Playground Equipment Post, etc. Note: Includes excavation.	17.48	
		For >135 To 405, Deduct	*-1.53*	
		For >405 To 810, Deduct	*-3.06*	
		For >810 To 2025, Deduct	*-4.37*	
		For >2025, Deduct	*-6.99*	

02 41 19 Selective Demolition *(02 41)*

02 41 19 13 Selective Building Demolition *(02 41 19)*

02 41 19 13-0001 Exterior Masonry Removal *(02 41 19 13)*

02 41 19 13-0002 Masonry Columns Removal (Interior And Exterior) *(02 41 19 13-0001)*

02 41 19 13-0003	VLF	8" x 8" Masonry Column Removal	16.09	
02 41 19 13-0004	VLF	10" x 10" Masonry Column Removal	25.13	
02 41 19 13-0005	VLF	12" x 12" Masonry Column Removal	32.19	
02 41 19 13-0006	VLF	14" x 14" Masonry Column Removal	40.29	
02 41 19 13-0007	VLF	16" x 16" Masonry Column Removal	49.51	
02 41 19 13-0008	CF	Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	27.80	

02 41 19 13-0009 Masonry Chimney Removal *(02 41 19 13-0001)*

02 41 19 13-0010	CF	Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed	32.61	
02 41 19 13-0011	CF	>3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed	24.49	
02 41 19 13-0012	CF	>10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	18.74	
02 41 19 13-0013	CF	>20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	12.98	

02 41 19 13-0014 Remove And Reset Precast, Stone Or Masonry Coping *(02 41 19 13-0001)*

Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.

02 41 19 13-0015	LF	Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	22.58	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0016	LF	>8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping	33.58	
02 41 19 13-0017	LF	>12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping	63.84	

02 41 19 13-0018 Facade Removal *(02 41 19 13-0001)*

Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.

02 41 19 13-0019	SF	Stone Or Brick Veneer Facade Removal	6.12	
		For Cleaning and Storage For Reuse, Add		*9.18*

02 41 19 13-0020 Exterior Masonry Removal *(02 41 19 13-0001)*

Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.

02 41 19 13-0021	SF	Demolish 4" Thick Non-Reinforced Concrete Block Exterior Wall	5.39	
02 41 19 13-0022	SF	Demolish 6" Thick Non-Reinforced Concrete Block Exterior Wall	6.08	
02 41 19 13-0023	SF	Demolish 8" Thick Non-Reinforced Concrete Block Exterior Wall	7.35	
02 41 19 13-0024	SF	Demolish 10" Thick Non-Reinforced Concrete Block Exterior Wall	8.03	
02 41 19 13-0025	SF	Demolish 12" Thick Non-Reinforced Concrete Block Exterior Wall	8.81	
02 41 19 13-0026	SF	Demolish 16" Thick Non-Reinforced Concrete Block Exterior Wall	11.02	
02 41 19 13-0027	SF	Demolish 4" Thick Reinforced Concrete Block Exterior Wall	6.36	
02 41 19 13-0028	SF	Demolish 6" Thick Reinforced Concrete Block Exterior Wall	7.28	
02 41 19 13-0029	SF	Demolish 8" Thick Reinforced Concrete Block Exterior Wall	8.81	
02 41 19 13-0030	SF	Demolish 10" Thick Reinforced Concrete Block Exterior Wall	9.64	
02 41 19 13-0031	SF	Demolish 12" Thick Reinforced Concrete Block Exterior Wall	10.57	
02 41 19 13-0032	SF	Demolish 16" Thick Reinforced Concrete Block Exterior Wall	13.24	
02 41 19 13-0033	SF	Demolish 4" Thick Brick Exterior Wall	5.39	
		For Cleaning and Storage For Reuse, Add		*8.09*
02 41 19 13-0034	SF	Demolish 6" Thick Brick Exterior Wall	6.08	
		For Cleaning and Storage For Reuse, Add		*9.12*
02 41 19 13-0035	SF	Demolish 8" Thick Brick Exterior Wall	7.35	
		For Cleaning and Storage For Reuse, Add		*11.03*
02 41 19 13-0036	SF	Demolish 10" Thick Brick Exterior Wall	8.03	
		For Cleaning and Storage For Reuse, Add		*12.05*
02 41 19 13-0037	SF	Demolish 12" Thick Brick Exterior Wall	8.81	
		For Cleaning and Storage For Reuse, Add		*13.22*
02 41 19 13-0038	SF	Demolish 16" Thick Brick Exterior Wall	11.02	
		For Cleaning and Storage For Reuse, Add		*16.53*
02 41 19 13-0039	CF	Exterior Brick, Concrete Block Or Composite Removal	15.67	
		For Cleaning and Storage For Reuse, Add		*23.51*

02 41 19 13-0040 Lintel Removal *(02 41 19 13-0001)*

Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.

02 41 19 13-0041	LF	Demolish Steel Lintel	14.58	
02 41 19 13-0042	LF	Demolish Concrete Or Stone Lintel	19.44	
02 41 19 13-0043	LF	Demolish Steel Shelf Angle	15.39	

02 41 19 13-0044 Reinstall Lintel *(02 41 19 13-0001)*

Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.

02 41 19 13-0045	LF	Clean, Prime And Paint Steel Shelf Angle Or Lintel	8.39	
02 41 19 13-0046	LF	Reinstall Existing Concrete Or Stone Lintel	19.44	
02 41 19 13-0047	LF	Reinstall Existing Steel Shelf Angle Note: Includes fasteners.	53.90	
02 41 19 13-0048	LF	Reinstall Existing Steel Lintel	21.60	
02 41 19 13-0049	LF	Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	89.56	
02 41 19 13-0050	LF	Removal And Replacement Of Steel Lintel Over Window Openings	167.08	

02 41 19 13-0051 Exterior Concrete Wall Removal *(02 41 19 13)*

02 41 19 13-0052	SF	Demolish 4" Thick Reinforced Concrete Exterior Wall	7.40	
02 41 19 13-0053	SF	Demolish 6" Thick Reinforced Concrete Exterior Wall	13.42	
02 41 19 13-0054	SF	Demolish 8" Thick Reinforced Concrete Exterior Wall	16.85	
02 41 19 13-0055	SF	Demolish 10" Thick Reinforced Concrete Exterior Wall	19.89	
02 41 19 13-0056	SF	Demolish 12" Thick Reinforced Concrete Exterior Wall	23.50	

02 41 19 13-0057 Saw Cutting *(02 41 19 13)*

Note: Includes blade wear, water, taping off area, layout, cleanup and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.

02 41 19 13-0058	EA	Minimum Charge For Saw Cut Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	1,203.89	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0059	LF	Bituminous Paving Up To 4" Depth, Saw Cut	2.68	
		For Each Additional Pass (Depth To 3"), Add	*1.03*	
		For >250, Deduct	*-0.25*	
02 41 19 13-0060	LF	Brick Masonry Up To 4" Depth, Saw Cut	9.87	
		For Each Additional Pass (Depth To 3"), Add	*3.89*	
		For >250, Deduct	*-0.97*	
02 41 19 13-0061	LF	Concrete Block Up To 4" Depth, Saw Cut	8.93	
		For Each Additional Pass (Depth To 3"), Add	*3.51*	
		For >250, Deduct	*-0.87*	
02 41 19 13-0062	LF	Non-Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	3.10	
		For Each Additional Pass (Depth To 3"), Add	*1.18*	
		For >250, Deduct	*-0.29*	
02 41 19 13-0063	LF	Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	4.07	
		For Each Additional Pass (Depth To 3"), Add	*1.55*	
		For >250, Deduct	*-0.38*	
02 41 19 13-0064	LF	Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	6.65	
		For Each Additional Pass (Depth To 3"), Add	*2.58*	
		For >250, Deduct	*-0.64*	
02 41 19 13-0065	LF	Plain Concrete Walls Up To 4" Depth, Saw Cut	12.61	
		For Each Additional Pass (Depth To 3"), Add	*4.98*	
		For >250, Deduct	*-1.24*	
02 41 19 13-0066	LF	Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth	16.93	
		For Each Additional Pass (Depth To 3"), Add	*6.69*	
		For >250, Deduct	*-1.67*	
02 41 19 13-0067	LF	Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets	3.38	
		For Each Additional Pass (Depth To 3"), Add	*1.22*	
		For >250, Deduct	*-0.30*	
02 41 19 13-0068	LF	Igneous Stone Pavements Up To 4" Depth, Saw Cut	8.97	
		For Each Additional Pass (Depth To 3"), Add	*3.52*	
		For >250, Deduct	*-0.88*	
02 41 19 13-0069	LF	Sedimentary Stone Pavements Up To 4" Depth, Saw Cut	8.97	
		For Each Additional Pass (Depth To 3"), Add	*3.52*	
		For >250, Deduct	*-0.88*	
02 41 19 13-0070	LF	Metamorphic Stone Pavements Up To 4" Depth, Saw Cut	8.97	
		For Each Additional Pass (Depth To 3"), Add	*3.52*	
		For >250, Deduct	*-0.88*	
02 41 19 13-0071	LF	Terrazzo Stone Pavements Up To 4" Depth, Saw Cut	8.97	
		For Each Additional Pass (Depth To 3"), Add	*3.52*	
		For >250, Deduct	*-0.88*	

02 41 19 13-0072 Torch Cutting *(02 41 19 13)*

Note: Includes grinding edge

02 41 19 13-0073	LF	Up To 1/2", Torch Cut Steel Plate	3.32
02 41 19 13-0074	LF	>1/2" To 1" Thick, Torch Cut Steel Plate	6.65
02 41 19 13-0075	LF	>1" To 1-1/2" Thick, Torch Cut Steel Plate	9.96
02 41 19 13-0076	LF	>1-1/2" To 2" Thick, Torch Cut Steel Plate	13.29
02 41 19 13-0077	LF	>2" To 2-1/2" Thick, Torch Cut Steel Plate	16.61
02 41 19 13-0078	LF	>2-1/2" To 3" Thick, Torch Cut Steel Plate	19.93
02 41 19 13-0079	EA	Minimum Charge For Torch Cutting	1,085.20

Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 41 19 13-0080 Drilling In Existing Materials *(02 41 19 13)*

Note: Includes drill bit wear, water, layout, set-up and cleanup.

02 41 19 13-0081 Concrete Core Drilling *(02 41 19 13-0080)*

02 41 19 13-0082 Up To 4" Thick Concrete Core Drilling *(02 41 19 13-0081)*

02 41 19 13-0083	EA	Drill 1" Diameter Core In Up To 4" Concrete	47.69	
		For Horizontal Cores, Add	*9.43*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*18.87*	
02 41 19 13-0084	EA	Drill 1-1/2" Diameter Core In Up To 4" Concrete	52.91	
		For Horizontal Cores, Add	*10.48*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*20.96*	
02 41 19 13-0085	EA	Drill 2" Diameter Core In Up To 4" Concrete	58.75	
		For Horizontal Cores, Add	*11.65*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*23.29*	
02 41 19 13-0086	EA	Drill 3" Diameter Core In Up To 4" Concrete	83.88	
		For Horizontal Cores, Add	*16.64*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*33.27*	
02 41 19 13-0087	EA	Drill 4" Diameter Core In Up To 4" Concrete	112.40	
		For Horizontal Cores, Add	*22.29*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*44.58*	
02 41 19 13-0088	EA	Drill 6" Diameter Core In Up To 4" Concrete	125.95	
		For Horizontal Cores, Add	*24.95*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*49.91*	
02 41 19 13-0089	EA	Drill 8" Diameter Core In Up To 4" Concrete	201.27	
		For Horizontal Cores, Add	*39.93*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*79.86*	
02 41 19 13-0090	EA	Drill 10" Diameter Core In Up To 4" Concrete	251.75	
		For Horizontal Cores, Add	*49.91*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*99.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0091	EA	Drill 12" Diameter Core In Up To 4" Concrete	293.79	
		For Horizontal Cores, Add	*58.23*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*116.46*	
02 41 19 13-0092	EA	Drill 14" Diameter Core In Up To 4" Concrete	335.86	
		For Horizontal Cores, Add	*66.54*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*133.08*	
02 41 19 13-0093	EA	Drill 18" Diameter Core In Up To 4" Concrete	378.32	
		For Horizontal Cores, Add	*74.85*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*149.70*	

02 41 19 13-0094 >4" To 6" Thick Concrete Core Drilling *(02 41 19 13-0081)*

02 41 19 13-0095	EA	Drill 1" Diameter Core In >4" To 6" Concrete	68.16	
		For Horizontal Cores, Add	*13.47*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*26.94*	
02 41 19 13-0096	EA	Drill 1-1/2" Diameter Core In >4" To 6" Concrete	75.65	
		For Horizontal Cores, Add	*14.97*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*29.94*	
02 41 19 13-0097	EA	Drill 2" Diameter Core In >4" To 6" Concrete	83.96	
		For Horizontal Cores, Add	*16.63*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*33.26*	
02 41 19 13-0098	EA	Drill 3" Diameter Core In >4" To 6" Concrete	100.91	
		For Horizontal Cores, Add	*19.96*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*39.93*	
02 41 19 13-0099	EA	Drill 4" Diameter Core In >4" To 6" Concrete	126.21	
		For Horizontal Cores, Add	*24.95*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*49.91*	
02 41 19 13-0100	EA	Drill 6" Diameter Core In >4" To 6" Concrete	168.16	
		For Horizontal Cores, Add	*33.27*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*66.54*	
02 41 19 13-0101	EA	Drill 8" Diameter Core In >4" To 6" Concrete	252.00	
		For Horizontal Cores, Add	*49.91*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*99.82*	
02 41 19 13-0102	EA	Drill 10" Diameter Core In >4" To 6" Concrete	294.45	
		For Horizontal Cores, Add	*58.23*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*116.46*	
02 41 19 13-0103	EA	Drill 12" Diameter Core In >4" To 6" Concrete	336.67	
		For Horizontal Cores, Add	*66.54*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*133.08*	
02 41 19 13-0104	EA	Drill 14" Diameter Core In >4" To 6" Concrete	379.08	
		For Horizontal Cores, Add	*74.85*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*149.70*	
02 41 19 13-0105	EA	Drill 18" Diameter Core In >4" To 6" Concrete	422.13	
		For Horizontal Cores, Add	*83.18*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*166.35*	

02 41 19 13-0106 >6" To 8" Thick Concrete Core Drilling *(02 41 19 13-0081)*

02 41 19 13-0107	EA	Drill 1" Diameter Core In >6" To 8" Concrete	75.19	
		For Horizontal Cores, Add	*14.82*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*29.64*	
02 41 19 13-0108	EA	Drill 1-1/2" Diameter Core In >6" To 8" Concrete	83.43	
		For Horizontal Cores, Add	*16.47*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*32.94*	
02 41 19 13-0109	EA	Drill 2" Diameter Core In >6" To 8" Concrete	92.58	
		For Horizontal Cores, Add	*18.30*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*36.60*	
02 41 19 13-0110	EA	Drill 3" Diameter Core In >6" To 8" Concrete	109.63	
		For Horizontal Cores, Add	*21.63*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*43.26*	
02 41 19 13-0111	EA	Drill 4" Diameter Core In >6" To 8" Concrete	143.35	
		For Horizontal Cores, Add	*28.28*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*56.56*	
02 41 19 13-0112	EA	Drill 6" Diameter Core In >6" To 8" Concrete	202.06	
		For Horizontal Cores, Add	*39.93*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*79.86*	
02 41 19 13-0113	EA	Drill 8" Diameter Core In >6" To 8" Concrete	335.99	
		For Horizontal Cores, Add	*66.54*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*133.08*	
02 41 19 13-0114	EA	Drill 10" Diameter Core In >6" To 8" Concrete	378.67	
		For Horizontal Cores, Add	*74.85*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*149.70*	
02 41 19 13-0115	EA	Drill 12" Diameter Core In >6" To 8" Concrete	421.16	
		For Horizontal Cores, Add	*83.18*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*166.35*	
02 41 19 13-0116	EA	Drill 14" Diameter Core In >6" To 8" Concrete	463.89	
		For Horizontal Cores, Add	*91.48*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*182.96*	
02 41 19 13-0117	EA	Drill 18" Diameter Core In >6" To 8" Concrete	507.52	
		For Horizontal Cores, Add	*99.82*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*199.63*	

02 41 19 13-0118 >8" To 10" Thick Concrete Core Drilling *(02 41 19 13-0081)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0119	EA	Drill 1" Diameter Core In >8" To 10" Concrete	88.96	
		For Horizontal Cores, Add	*17.52*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*35.04*	
02 41 19 13-0120	EA	Drill 1-1/2" Diameter Core In >8" To 10" Concrete	98.68	
		For Horizontal Cores, Add	*19.46*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*38.92*	
02 41 19 13-0121	EA	Drill 2" Diameter Core In >8" To 10" Concrete	109.50	
		For Horizontal Cores, Add	*21.63*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*43.25*	
02 41 19 13-0122	EA	Drill 3" Diameter Core In >8" To 10" Concrete	126.65	
		For Horizontal Cores, Add	*24.95*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*49.91*	
02 41 19 13-0123	EA	Drill 4" Diameter Core In >8" To 10" Concrete	143.85	
		For Horizontal Cores, Add	*28.28*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*56.56*	
02 41 19 13-0124	EA	Drill 6" Diameter Core In >8" To 10" Concrete	202.67	
		For Horizontal Cores, Add	*39.93*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*79.86*	
02 41 19 13-0125	EA	Drill 8" Diameter Core In >8" To 10" Concrete	336.82	
		For Horizontal Cores, Add	*66.54*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*133.08*	
02 41 19 13-0126	EA	Drill 10" Diameter Core In >8" To 10" Concrete	379.76	
		For Horizontal Cores, Add	*74.85*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*149.70*	
02 41 19 13-0127	EA	Drill 12" Diameter Core In >8" To 10" Concrete	422.41	
		For Horizontal Cores, Add	*83.16*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*166.32*	
02 41 19 13-0128	EA	Drill 14" Diameter Core In >8" To 10" Concrete	465.55	
		For Horizontal Cores, Add	*91.48*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*182.96*	
02 41 19 13-0129	EA	Drill 18" Diameter Core In >8" To 10" Concrete	509.60	
		For Horizontal Cores, Add	*99.79*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*199.59*	

02 41 19 13-0130 >10" To 12" Thick Concrete Core Drilling *(02 41 19 13-0081)*

02 41 19 13-0131	EA	Drill 1" Diameter Core In >10" To 12" Concrete	95.98	
		For Horizontal Cores, Add	*18.87*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*37.73*	
02 41 19 13-0132	EA	Drill 1-1/2" Diameter Core In >10" To 12" Concrete	106.46	
		For Horizontal Cores, Add	*20.96*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*41.92*	
02 41 19 13-0133	EA	Drill 2" Diameter Core In >10" To 12" Concrete	118.10	
		For Horizontal Cores, Add	*23.29*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*46.58*	
02 41 19 13-0134	EA	Drill 3" Diameter Core In >10" To 12" Concrete	127.05	
		For Horizontal Cores, Add	*24.95*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*49.91*	
02 41 19 13-0135	EA	Drill 4" Diameter Core In >10" To 12" Concrete	169.32	
		For Horizontal Cores, Add	*33.27*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*66.54*	
02 41 19 13-0136	EA	Drill 6" Diameter Core In >10" To 12" Concrete	219.92	
		For Horizontal Cores, Add	*43.26*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*86.51*	
02 41 19 13-0137	EA	Drill 8" Diameter Core In >10" To 12" Concrete	354.29	
		For Horizontal Cores, Add	*69.87*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*139.74*	
02 41 19 13-0138	EA	Drill 10" Diameter Core In >10" To 12" Concrete	380.86	
		For Horizontal Cores, Add	*74.85*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*149.70*	
02 41 19 13-0139	EA	Drill 12" Diameter Core In >10" To 12" Concrete	440.47	
		For Horizontal Cores, Add	*86.51*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*173.02*	

02 41 19 13-0140 >12" Thick Concrete Core Drilling *(02 41 19 13-0081)*

02 41 19 13-0141	IN	Drill 1" Diameter Core In >12" Concrete	11.67	
		For Horizontal Cores, Add	*2.31*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*4.61*	
02 41 19 13-0142	IN	Drill 1-1/2" Diameter Core In >12" Concrete	12.96	
		For Horizontal Cores, Add	*2.56*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*5.13*	
02 41 19 13-0143	IN	Drill 2" Diameter Core In >12" Concrete	14.38	
		For Horizontal Cores, Add	*2.85*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*5.70*	
02 41 19 13-0144	IN	Drill 3" Diameter Core In >12" Concrete	15.78	
		For Horizontal Cores, Add	*3.12*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*6.24*	
02 41 19 13-0145	IN	Drill 4" Diameter Core In >12" Concrete	21.03	
		For Horizontal Cores, Add	*4.16*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*8.31*	
02 41 19 13-0146	IN	Drill 6" Diameter Core In >12" Concrete	27.36	
		For Horizontal Cores, Add	*5.41*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*10.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0147	IN	Drill 8" Diameter Core In >12" Concrete	44.11	
		For Horizontal Cores, Add	*8.74*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*17.48*	
02 41 19 13-0148	IN	Drill 10" Diameter Core In >12" Concrete	47.53	
		For Horizontal Cores, Add	*9.40*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*18.79*	
02 41 19 13-0149	IN	Drill 12" Diameter Core In >12" Concrete	54.76	
		For Horizontal Cores, Add	*10.82*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*21.64*	
02 41 19 13-0150		Brick/Concrete Block Core Drilling *(02 41 19 13-0080)*		
02 41 19 13-0151		Up To 4" Thick Brick/Concrete Block Core Drilling *(02 41 19 13-0150)*		
02 41 19 13-0152	EA	Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	38.26	
		For Horizontal Cores, Add	*7.55*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*15.10*	
02 41 19 13-0153	EA	Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	42.43	
		For Horizontal Cores, Add	*8.38*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*16.76*	
02 41 19 13-0154	EA	Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	47.10	
		For Horizontal Cores, Add	*9.32*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*18.63*	
02 41 19 13-0155	EA	Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	67.25	
		For Horizontal Cores, Add	*13.31*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*26.62*	
02 41 19 13-0156	EA	Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	90.10	
		For Horizontal Cores, Add	*17.83*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*35.66*	
02 41 19 13-0157	EA	Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	101.00	
		For Horizontal Cores, Add	*19.96*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*39.93*	
02 41 19 13-0158	EA	Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	161.33	
		For Horizontal Cores, Add	*31.94*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*63.88*	
02 41 19 13-0159	EA	Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	201.84	
		For Horizontal Cores, Add	*39.93*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*79.85*	
02 41 19 13-0160	EA	Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	235.57	
		For Horizontal Cores, Add	*46.58*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*93.17*	
02 41 19 13-0161	EA	Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	269.32	
		For Horizontal Cores, Add	*53.23*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*106.46*	
02 41 19 13-0162	EA	Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	303.48	
		For Horizontal Cores, Add	*59.88*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*119.77*	
02 41 19 13-0163		>4" To 6" Thick Brick/Concrete Block Core Drilling *(02 41 19 13-0150)*		
02 41 19 13-0164	EA	Drill 1" Diameter Core In > 4" To 6" Brick/Concrete Block	54.69	
		For Horizontal Cores, Add	*10.78*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*21.56*	
02 41 19 13-0165	EA	Drill 1-1/2" Diameter Core In > 4" To 6" Brick/Concrete Block	60.67	
		For Horizontal Cores, Add	*11.97*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*23.95*	
02 41 19 13-0166	EA	Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	67.34	
		For Horizontal Cores, Add	*13.31*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*26.62*	
02 41 19 13-0167	EA	Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	80.95	
		For Horizontal Cores, Add	*15.97*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*31.94*	
02 41 19 13-0168	EA	Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	101.26	
		For Horizontal Cores, Add	*19.96*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*39.93*	
02 41 19 13-0169	EA	Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	134.89	
		For Horizontal Cores, Add	*26.62*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*53.24*	
02 41 19 13-0170	EA	Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	202.09	
		For Horizontal Cores, Add	*39.93*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*79.85*	
02 41 19 13-0171	EA	Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	236.23	
		For Horizontal Cores, Add	*46.58*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*93.17*	
02 41 19 13-0172	EA	Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	270.13	
		For Horizontal Cores, Add	*53.23*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*106.46*	
02 41 19 13-0173	EA	Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	304.24	
		For Horizontal Cores, Add	*59.88*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*119.77*	
02 41 19 13-0174	EA	Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	338.96	
		For Horizontal Cores, Add	*66.54*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*133.08*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 41 19 13-0175 >6" To 8" Thick Brick/Concrete Block Core Drilling *(02 41 19 13-0150)*

02 41 19 13-0176	EA	Drill 1" Diameter Core In > 6" To 8" Brick/Concrete Block	60.37	
		For Horizontal Cores, Add	*11.86*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*23.72*	
02 41 19 13-0177	EA	Drill 1-1/2" Diameter Core In > 6" To 8" Brick/Concrete Block	66.95	
		For Horizontal Cores, Add	*13.17*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*26.35*	
02 41 19 13-0178	EA	Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block	74.28	
		For Horizontal Cores, Add	*14.64*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*29.28*	
02 41 19 13-0179	EA	Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block	88.00	
		For Horizontal Cores, Add	*17.30*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*34.60*	
02 41 19 13-0180	EA	Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block	115.07	
		For Horizontal Cores, Add	*22.62*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*45.25*	
02 41 19 13-0181	EA	Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block	162.12	
		For Horizontal Cores, Add	*31.94*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*63.88*	
02 41 19 13-0182	EA	Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block	269.45	
		For Horizontal Cores, Add	*53.23*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*106.46*	
02 41 19 13-0183	EA	Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block	303.83	
		For Horizontal Cores, Add	*59.88*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*119.77*	
02 41 19 13-0184	EA	Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block	337.99	
		For Horizontal Cores, Add	*66.54*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*133.08*	
02 41 19 13-0185	EA	Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block	372.41	
		For Horizontal Cores, Add	*73.18*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*146.37*	
02 41 19 13-0186	EA	Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block	407.71	
		For Horizontal Cores, Add	*79.85*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*159.71*	

02 41 19 13-0187 >8" To 10" Thick Brick/Concrete Block Core Drilling *(02 41 19 13-0150)*

02 41 19 13-0188	EA	Drill 1" Diameter Core In > 8" To 10" Brick/Concrete Block	71.44	
		For Horizontal Cores, Add	*14.01*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*28.03*	
02 41 19 13-0189	EA	Drill 1-1/2" Diameter Core In > 8" To 10" Brick/Concrete Block	79.23	
		For Horizontal Cores, Add	*15.57*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*31.14*	
02 41 19 13-0190	EA	Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block	87.87	
		For Horizontal Cores, Add	*17.30*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*34.60*	
02 41 19 13-0191	EA	Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block	101.70	
		For Horizontal Cores, Add	*19.96*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*39.93*	
02 41 19 13-0192	EA	Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block	115.57	
		For Horizontal Cores, Add	*22.62*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*45.25*	
02 41 19 13-0193	EA	Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block	162.73	
		For Horizontal Cores, Add	*31.94*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*63.88*	
02 41 19 13-0194	EA	Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block	270.28	
		For Horizontal Cores, Add	*53.23*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*106.46*	
02 41 19 13-0195	EA	Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block	304.92	
		For Horizontal Cores, Add	*59.88*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*119.77*	
02 41 19 13-0196	EA	Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block	339.25	
		For Horizontal Cores, Add	*66.53*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*133.06*	
02 41 19 13-0197	EA	Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block	374.07	
		For Horizontal Cores, Add	*73.18*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*146.37*	
02 41 19 13-0198	EA	Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block	409.80	
		For Horizontal Cores, Add	*79.83*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*159.67*	

02 41 19 13-0199 >10" To 12" Thick Brick/Concrete Block Core Drilling *(02 41 19 13-0150)*

02 41 19 13-0200	EA	Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block	77.11	
		For Horizontal Cores, Add	*15.09*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*30.18*	
02 41 19 13-0201	EA	Drill 1-1/2" Diameter Core In > 10" To 12" Brick/Concrete Block	85.50	
		For Horizontal Cores, Add	*16.77*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*33.54*	
02 41 19 13-0202	EA	Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block	94.81	
		For Horizontal Cores, Add	*18.63*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*37.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0203	EA	Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block	102.10	
		For Horizontal Cores, Add	*19.96*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*39.93*	
02 41 19 13-0204	EA	Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block	136.05	
		For Horizontal Cores, Add	*26.62*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*53.24*	
02 41 19 13-0205	EA	Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block	176.66	
		For Horizontal Cores, Add	*34.60*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*69.21*	
02 41 19 13-0206	EA	Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block	284.43	
		For Horizontal Cores, Add	*55.90*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*111.79*	
02 41 19 13-0207	EA	Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block	306.02	
		For Horizontal Cores, Add	*59.88*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*119.77*	
02 41 19 13-0208	EA	Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block	353.96	
		For Horizontal Cores, Add	*69.21*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*138.42*	
02 41 19 13-0209		**>12" Thick Brick/Concrete Block Core Drilling** *(02 41 19 13-0150)*		
02 41 19 13-0210	IN	Drill 1" Diameter Core In >12" Brick/Concrete Block	9.37	
		For Horizontal Cores, Add	*1.85*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*3.69*	
02 41 19 13-0211	IN	Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block	10.39	
		For Horizontal Cores, Add	*2.05*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*4.10*	
02 41 19 13-0212	IN	Drill 2" Diameter Core In >12" Brick/Concrete Block	11.53	
		For Horizontal Cores, Add	*2.28*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*4.56*	
02 41 19 13-0213	IN	Drill 3" Diameter Core In >12" Brick/Concrete Block	12.66	
		For Horizontal Cores, Add	*2.49*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*4.99*	
02 41 19 13-0214	IN	Drill 4" Diameter Core In >12" Brick/Concrete Block	16.88	
		For Horizontal Cores, Add	*3.33*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*6.65*	
02 41 19 13-0215	IN	Drill 6" Diameter Core In >12" Brick/Concrete Block	21.94	
		For Horizontal Cores, Add	*4.33*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*8.66*	
02 41 19 13-0216	IN	Drill 8" Diameter Core In >12" Brick/Concrete Block	35.37	
		For Horizontal Cores, Add	*6.99*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*13.98*	
02 41 19 13-0217	IN	Drill 10" Diameter Core In >12" Brick/Concrete Block	38.14	
		For Horizontal Cores, Add	*7.52*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*15.04*	
02 41 19 13-0218	IN	Drill 12" Diameter Core In >12" Brick/Concrete Block	43.94	
		For Horizontal Cores, Add	*8.66*	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	*17.31*	
02 41 19 13-0219		**Asphalt Core Drilling** *(02 41 19 13-0080)*		
02 41 19 13-0220		**Up To 2" Thick Asphalt Core Drilling** *(02 41 19 13-0219)*		
02 41 19 13-0221	EA	Drill 1" Diameter Core In Up To 2" Asphalt	22.88	
02 41 19 13-0222	EA	Drill 1-1/2" Diameter Core In Up To 2" Asphalt	28.60	
02 41 19 13-0223	EA	Drill 2" Diameter Core In Up To 2" Asphalt	35.75	
02 41 19 13-0224	EA	Drill 3" Diameter Core In Up To 2" Asphalt	44.35	
02 41 19 13-0225	EA	Drill 4" Diameter Core In Up To 2" Asphalt	55.81	
02 41 19 13-0226	EA	Drill 6" Diameter Core In Up To 2" Asphalt	70.12	
02 41 19 13-0227	EA	Drill 8" Diameter Core In Up To 2" Asphalt	87.33	
02 41 19 13-0228	EA	Drill 10" Diameter Core In Up To 2" Asphalt	108.77	
02 41 19 13-0229	EA	Drill 12" Diameter Core In Up To 2" Asphalt	135.93	
02 41 19 13-0230		**>2" To 3" Thick Asphalt Core Drilling** *(02 41 19 13-0219)*		
02 41 19 13-0231	EA	Drill 1" Diameter Core In >2" To 3" Asphalt	28.59	
02 41 19 13-0232	EA	Drill 1-1/2" Diameter Core In >2" To 3" Asphalt	37.16	
02 41 19 13-0233	EA	Drill 2" Diameter Core In >2" To 3" Asphalt	45.75	
02 41 19 13-0234	EA	Drill 3" Diameter Core In >2" To 3" Asphalt	57.20	
02 41 19 13-0235	EA	Drill 4" Diameter Core In >2" To 3" Asphalt	71.52	
02 41 19 13-0236	EA	Drill 6" Diameter Core In >2" To 3" Asphalt	90.11	
02 41 19 13-0237	EA	Drill 8" Diameter Core In >2" To 3" Asphalt	111.62	
02 41 19 13-0238	EA	Drill 10" Diameter Core In >2" To 3" Asphalt	140.18	
02 41 19 13-0239	EA	Drill 12" Diameter Core In >2" To 3" Asphalt	174.49	
02 41 19 13-0240		**>3" To 4" Thick Asphalt Core Drilling** *(02 41 19 13-0219)*		
02 41 19 13-0241	EA	Drill 1" Diameter Core In >3" To 4" Asphalt	37.17	
02 41 19 13-0242	EA	Drill 1-1/2" Diameter Core In >3" To 4" Asphalt	47.20	
02 41 19 13-0243	EA	Drill 2" Diameter Core In >3" To 4" Asphalt	58.63	
02 41 19 13-0244	EA	Drill 3" Diameter Core In >3" To 4" Asphalt	72.96	
02 41 19 13-0245	EA	Drill 4" Diameter Core In >3" To 4" Asphalt	91.58	
02 41 19 13-0246	EA	Drill 6" Diameter Core In >3" To 4" Asphalt	114.49	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0247	EA	Drill 8" Diameter Core In >3" To 4" Asphalt	143.18	
02 41 19 13-0248	EA	Drill 10" Diameter Core In >3" To 4" Asphalt	178.91	
02 41 19 13-0249	EA	Drill 12 Diameter Core In >3" To 4" Asphalt	223.22	
02 41 19 13-0250		>4" To 6" Thick Asphalt Core Drilling *(02 41 19 13-0219)*		
02 41 19 13-0251	EA	Drill 1" Diameter Core In >4" To 6" Asphalt	48.66	
02 41 19 13-0252	EA	Drill 1-1/2" Diameter Core In >4" To 6" Asphalt	60.13	
02 41 19 13-0253	EA	Drill 2" Diameter Core In >4" To 6" Asphalt	74.43	
02 41 19 13-0254	EA	Drill 3" Diameter Core In >4" To 6" Asphalt	94.51	
02 41 19 13-0255	EA	Drill 4" Diameter Core In >4" To 6" Asphalt	117.47	
02 41 19 13-0256	EA	Drill 6" Diameter Core In >4" To 6" Asphalt	146.12	
02 41 19 13-0257	EA	Drill 8" Diameter Core In >4" To 6" Asphalt	183.47	
02 41 19 13-0258	EA	Drill 10" Diameter Core In >4" To 6" Asphalt	229.21	
02 41 19 13-0259	EA	Drill 12" Diameter Core In >4" To 6" Asphalt	286.45	
02 41 19 13-0260		Manhole Core Drilling *(02 41 19 13-0080)*		
02 41 19 13-0261	EA	Drill 4" Diameter Core In 6" Brick Manhole	250.52	
02 41 19 13-0262	EA	Drill 5" Diameter Core In 6" Brick Manhole	286.30	
02 41 19 13-0263	EA	Drill 6" Diameter Core In 6" Brick Manhole	333.91	
02 41 19 13-0264	EA	Drill 8" Diameter Core In 6" Brick Manhole	500.72	
02 41 19 13-0265	EA	Drill 2" Diameter Core In 8" Concrete Manhole	335.65	
02 41 19 13-0266	EA	Drill 3" Diameter Core In 8" Concrete Manhole	357.41	
02 41 19 13-0267	EA	Drill 4" Diameter Core In 8" Concrete Manhole	393.47	
02 41 19 13-0268	EA	Drill 5" Diameter Core In 8" Concrete Manhole	422.17	
02 41 19 13-0269	EA	Drill 6" Diameter Core In 8" Concrete Manhole	500.71	
02 41 19 13-0270	EA	Drill 8" Diameter Core In 8" Concrete Manhole	715.15	
02 41 19 13-0271	EA	Drill 2" Diameter Core In Fiberglass Manhole	33.30	
02 41 19 13-0272	EA	Drill 3" Diameter Core In Fiberglass Manhole	38.43	
02 41 19 13-0273	EA	Drill 4" Diameter Core In Fiberglass Manhole	41.64	
02 41 19 13-0274	EA	Drill 5" Diameter Core In Fiberglass Manhole	45.43	
02 41 19 13-0275	EA	Drill 6" Diameter Core In Fiberglass Manhole	49.96	
02 41 19 13-0276	EA	Drill 8" Diameter Core In Fiberglass Manhole	55.53	
02 41 19 13-0277		Drilling In Concrete Per Inch Of Depth *(02 41 19 13-0080)* Note: Includes layout.		
02 41 19 13-0278	IN	1/4" Diameter Drilling In Concrete Per Inch Of Depth	2.32	
02 41 19 13-0279	IN	5/16" Diameter Drilling In Concrete Per Inch Of Depth	2.45	
02 41 19 13-0280	IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	2.58	
02 41 19 13-0281	IN	1/2" Diameter Drilling In Concrete Per Inch Of Depth	2.78	
02 41 19 13-0282	IN	5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.95	
02 41 19 13-0283	IN	3/4" Diameter Drilling In Concrete Per Inch Of Depth	3.24	
02 41 19 13-0284	IN	7/8" Diameter Drilling In Concrete Per Inch Of Depth	3.50	
02 41 19 13-0285	IN	1" Diameter Drilling In Concrete Per Inch Of Depth	3.68	
02 41 19 13-0286	IN	1-1/8" Diameter Drilling In Concrete Per Inch Of Depth	4.34	
02 41 19 13-0287	IN	1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	4.08	
02 41 19 13-0288	IN	1-3/8" Diameter Drilling In Concrete Per Inch Of Depth	4.34	
02 41 19 13-0289	IN	1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	4.61	
02 41 19 13-0290	IN	1-3/4" Diameter Drilling In Concrete Per Inch Of Depth	5.11	
02 41 19 13-0291	IN	2" Diameter Drilling In Concrete Per Inch Of Depth	5.95	
02 41 19 13-0292		Drilling In Brick/Concrete Block Per Inch Of Depth *(02 41 19 13-0080)* Note: Includes layout.		
02 41 19 13-0293	IN	1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.93	
02 41 19 13-0294	IN	5/16" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.04	
02 41 19 13-0295	IN	3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.15	
02 41 19 13-0296	IN	1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.32	
02 41 19 13-0297	IN	5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.46	
02 41 19 13-0298	IN	3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.70	
02 41 19 13-0299	IN	7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.92	
02 41 19 13-0300	IN	1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.07	
02 41 19 13-0301	IN	1-1/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.24	
02 41 19 13-0302	IN	1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.40	
02 41 19 13-0303	IN	1-3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.63	
02 41 19 13-0304	IN	1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.84	
02 41 19 13-0305	IN	1-3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	4.29	
02 41 19 13-0306	IN	2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	4.97	
02 41 19 13-0307		Drilling In Wood Or Plastic Per Inch Of Depth *(02 41 19 13-0080)* Note: Includes layout.		
02 41 19 13-0308	IN	1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.96	
02 41 19 13-0309	IN	5/16" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.01	
02 41 19 13-0310	IN	3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.08	
02 41 19 13-0311	IN	1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.15	
02 41 19 13-0312	IN	5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.22	
02 41 19 13-0313	IN	3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.34	
02 41 19 13-0314	IN	7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.45	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0315	IN	1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.54	
02 41 19 13-0316	IN	1-1/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.61	
02 41 19 13-0317	IN	1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.69	
02 41 19 13-0318	IN	1-3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.80	
02 41 19 13-0319	IN	1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.92	
02 41 19 13-0320	IN	1-3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	2.13	
02 41 19 13-0321	IN	2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	2.48	
02 41 19 13-0322		Drilling In Drywall Or Plaster Per Inch Of Depth *(02 41 19 13-0080)*		
		Note: Includes layout, high efficiency particulate air (HEPA) vacuum and protection.		
02 41 19 13-0323	IN	1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	0.96	
02 41 19 13-0324	IN	5/16" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.01	
02 41 19 13-0325	IN	3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.08	
02 41 19 13-0326	IN	1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.15	
02 41 19 13-0327	IN	5/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.22	
02 41 19 13-0328	IN	3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.34	
02 41 19 13-0329	IN	7/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.45	
02 41 19 13-0330	IN	1" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.54	
02 41 19 13-0331	IN	1-1/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.61	
02 41 19 13-0332	IN	1-1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.69	
02 41 19 13-0333	IN	1-3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.80	
02 41 19 13-0334	IN	1-1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.92	
02 41 19 13-0335	IN	1-3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	2.13	
02 41 19 13-0336	IN	2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	2.48	
02 41 19 13-0337	IN	Drill 3" Diameter Core In Wood Or Plastic Per Inch Of Depth	3.25	
02 41 19 13-0338	IN	Drill 4" Diameter Core In Wood Or Plastic Per Inch Of Depth	4.10	
02 41 19 13-0339	IN	Drill 5" Diameter Core In Wood Or Plastic Per Inch Of Depth	4.63	
02 41 19 13-0340	IN	Drill 6" Diameter Core In Wood Or Plastic Per Inch Of Depth	5.15	
02 41 19 13-0341		Limestone Core Drilling *(02 41 19 13-0080)*		
02 41 19 13-0342		10" To 14" Thick Limestone Core Drilling *(02 41 19 13-0341)*		
02 41 19 13-0343	EA	Drill 1" Diameter Core In 10" To 14" Limestone	71.87	
02 41 19 13-0344	EA	Drill 1-1/2" Diameter Core In 10" To 14" Limestone	86.31	
02 41 19 13-0345	EA	Drill 2" Diameter Core In 10" To 14" Limestone	93.62	
02 41 19 13-0346	EA	Drill 3" Diameter Core In 10" To 14" Limestone	108.28	
02 41 19 13-0347	EA	Drill 4" Diameter Core In 10" To 14" Limestone	122.95	
02 41 19 13-0348	EA	Drill 6" Diameter Core In 10" To 14" Limestone	173.27	
02 41 19 13-0349	EA	Drill 8" Diameter Core In 10" To 14" Limestone	288.05	
02 41 19 13-0350		15" To 18" Thick Limestone Core Drilling *(02 41 19 13-0341)*		
02 41 19 13-0351	EA	Drill 1" Diameter Core In 15" To 18" Limestone	79.13	
02 41 19 13-0352	EA	Drill 1-1/2" Diameter Core In 15" To 18" Limestone	93.60	
02 41 19 13-0353	EA	Drill 2" Diameter Core In 15" To 18" Limestone	100.98	
02 41 19 13-0354	EA	Drill 3" Diameter Core In 15" To 18" Limestone	108.60	
02 41 19 13-0355	EA	Drill 4" Diameter Core In 15" To 18" Limestone	144.74	
02 41 19 13-0356	EA	Drill 6" Diameter Core In 15" To 18" Limestone	187.97	
02 41 19 13-0357	EA	Drill 8" Diameter Core In 15" To 18" Limestone	303.06	
02 41 19 13-0358		19" To 24" Thick Limestone Core Drilling *(02 41 19 13-0341)*		
02 41 19 13-0359	EA	Drill 1" Diameter Core In 19" To 24" Limestone	86.36	
02 41 19 13-0360	EA	Drill 1-1/2" Diameter Core In 19" To 24" Limestone	100.89	
02 41 19 13-0361	EA	Drill 2" Diameter Core In 19" To 24" Limestone	108.30	
02 41 19 13-0362	EA	Drill 3" Diameter Core In 19" To 24" Limestone	123.08	
02 41 19 13-0363	EA	Drill 4" Diameter Core In 19" To 24" Limestone	173.57	
02 41 19 13-0364	EA	Drill 6" Diameter Core In 19" To 24" Limestone	216.91	
02 41 19 13-0365	EA	Drill 8" Diameter Core In 19" To 24" Limestone	325.21	
02 41 19 13-0366		Minimum Charge For Core Drilling *(02 41 19 13-0080)*		
02 41 19 13-0367	EA	Minimum Charge For Core Drill	969.39	
		Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth" or "Drilling In Wood Or Plastic Per Inch Of Depth".		
02 41 19 13-0368		Cutouts *(02 41 19 13)*		
		Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0369		Reinforced Concrete Slab On Grade Cutouts *(02 41 19 13-0368)*		
02 41 19 13-0370	SF	4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	55.12	
02 41 19 13-0371	SF	6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	58.46	
02 41 19 13-0372	SF	8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	61.80	
02 41 19 13-0373	SF	10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	65.14	
02 41 19 13-0374	SF	12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	66.81	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0375		**Reinforced Concrete Elevated Slab Cutouts** *(02 41 19 13-0368)*		
		Note: Includes cutting and removing steel decking.		
02 41 19 13-0376	SF	4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	67.18	
02 41 19 13-0377	SF	6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	71.25	
02 41 19 13-0378	SF	8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	75.32	
02 41 19 13-0379	SF	10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	79.40	
02 41 19 13-0380	SF	12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	81.43	
02 41 19 13-0381		**Reinforced Concrete Wall Cutouts** *(02 41 19 13-0368)*		
02 41 19 13-0382	SF	4" Thick Reinforced Concrete Wall Cutouts, <24 SF	68.90	
02 41 19 13-0383	SF	6" Thick Reinforced Concrete Wall Cutouts, <24 SF	73.07	
02 41 19 13-0384	SF	8" Thick Reinforced Concrete Wall Cutouts, <24 SF	77.26	
02 41 19 13-0385	SF	10" Thick Reinforced Concrete Wall Cutouts, <24 SF	81.43	
02 41 19 13-0386	SF	12" Thick Reinforced Concrete Wall Cutouts, <24 SF	83.51	
02 41 19 13-0387		**Brick Wall Cutouts** *(02 41 19 13-0368)*		
		Note: Excludes toothing.		
02 41 19 13-0388	SF	4" Thick Brick Wall Cutouts, <24 SF	20.88	
02 41 19 13-0389	SF	6" Thick Brick Wall Cutouts, <24 SF	34.46	
02 41 19 13-0390	SF	8" Thick Brick Wall Cutouts, <24 SF	47.98	
02 41 19 13-0391	SF	10" Thick Brick Wall Cutouts, <24 SF	58.46	
02 41 19 13-0392	SF	12" Thick Brick Wall Cutouts, <24 SF	69.95	
02 41 19 13-0393	SF	16" Thick Brick Wall Cutouts, <24 SF	82.48	
02 41 19 13-0394		**Concrete Block Wall Cutouts** *(02 41 19 13-0368)*		
		Note: Excludes toothing.		
02 41 19 13-0395	SF	4" Thick Concrete Block Wall Cutouts, <24 SF	34.53	
02 41 19 13-0396	SF	6" Thick Concrete Block Wall Cutouts, <24 SF	36.57	
02 41 19 13-0397	SF	8" Thick Concrete Block Wall Cutouts, <24 SF	38.63	
02 41 19 13-0398	SF	10" Thick Concrete Block Wall Cutouts, <24 SF	40.71	
02 41 19 13-0399	SF	12" Thick Concrete Block Wall Cutouts, <24 SF	41.76	
02 41 19 13-0400	SF	16" Thick Concrete Block Wall Cutouts, <24 SF	43.85	
02 41 19 13-0401		**Limestone Cutouts** *(02 41 19 13-0368)*		
02 41 19 13-0402	SF	2" Thick Limestone Cutouts, <24 SF	58.46	
02 41 19 13-0403	SF	4" Thick Limestone Cutouts, <24 SF	70.99	
02 41 19 13-0404	SF	6" Thick Limestone Cutouts, <24 SF	75.17	
02 41 19 13-0405	SF	8" Thick Limestone Cutouts, <24 SF	79.34	
02 41 19 13-0406	SF	10" Thick Limestone Cutouts, <24 SF	83.51	
02 41 19 13-0407	SF	12" Thick Limestone Cutouts, <24 SF	87.70	
02 41 19 13-0408		**Toothing Masonry Cutouts** *(02 41 19 13-0368)*		
		Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0409	VLF	Brick, Soft Old Mortar, Toothing Masonry Cutouts	20.88	
02 41 19 13-0410	VLF	Brick, Hard Mortar, Toothing Masonry Cutouts	28.19	
02 41 19 13-0411	VLF	Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	12.53	
02 41 19 13-0412	VLF	Concrete Block, Hard Mortar, Toothing Masonry Cutouts	16.70	
02 41 19 13-0413		**Minimum Charge For Cutouts** *(02 41 19 13-0368)*		
		Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0414	EA	Minimum Charge For Cutouts	417.59	
02 41 19 13-0415		**Elevated Concrete Removal** *(02 41 19 13)*		
02 41 19 13-0416	CF	Elevated Concrete Beam/Slab/Steps Removal, Reinforced	13.99	
02 41 19 16		**Selective Interior Demolition** *(02 41 19)*		
		Note: Includes HEPA vacuum for dust control, break-up of material, loading into truck or dumpster and cleanup. Excludes temporary plastic barrier See CSI section 01 56 16 00-0000 for temporary dust barrier.		
02 41 19 16-0001		**Floor Removal** *(02 41 19 16)*		
02 41 19 16-0002		**Scarify Concrete** *(02 41 19 16-0001)*		
		Note: Up to 1/4" removal per pass.		
02 41 19 16-0003	SF	Scarify Concrete Floor	0.35	
02 41 19 16-0004	SF	Scarify Concrete Tread And Riser	2.90	
02 41 19 16-0005	SF	Scarify Concrete Wall	2.63	
02 41 19 16-0006		**Fireproofing Removal** *(02 41 19 16)*		
02 41 19 16-0007	SF	Removal Of Fireproofing From Concrete Or Steel	1.37	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 16-0008		**Demolish Ceiling** *(02 41 19 16)*		
02 41 19 16-0009	SF	Demolish Drywall Ceiling		1.05
02 41 19 16-0010	SF	Demolish Furred Plastered Ceiling		2.45
02 41 19 16-0011	SF	Demolish Suspended Plastered Ceiling And Suspension System		1.88
02 41 19 16-0012		**Demolish Concrete Stair** *(02 41 19 16)*		
02 41 19 16-0013	CF	Demolish Interior Reinforced Concrete Stairs		8.81
02 41 19 16-0014	CF	Demolish Exterior Reinforced Concrete Stairs		7.72
02 41 19 16-0015		**Demolish Interior Partition/Wall** *(02 41 19 16)*		
		Note: Price includes knock down, loading, cleanup.		
02 41 19 16-0016		**Demolish Masonry And Concrete Interior Partition/Walls** *(02 41 19 16-0015)*		
		Note: Includes saw cutting, knock down, loading and cleanup.		
02 41 19 16-0017		**Demolish Concrete Block Interior Partition/Walls** *(02 41 19 16-0016)*		
02 41 19 16-0018	SF	Demolish 4" Thick Non-Reinforced Concrete Block Interior Partition/Wall		5.71
02 41 19 16-0019	SF	Demolish 6" Thick Non-Reinforced Concrete Block Interior Partition/Wall		6.10
02 41 19 16-0020	SF	Demolish 8" Thick Non-Reinforced Concrete Block Interior Partition/Wall		6.87
02 41 19 16-0021	SF	Demolish 12" Thick Non-Reinforced Concrete Block Interior Partition/Wall		8.82
02 41 19 16-0022	SF	Demolish 16" Thick Non-Reinforced Concrete Block Interior Partition/Wall		11.03
02 41 19 16-0023	SF	Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall		6.85
02 41 19 16-0024	SF	Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall		7.32
02 41 19 16-0025	SF	Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall		8.26
02 41 19 16-0026	SF	Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall		10.59
02 41 19 16-0027	SF	Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall		13.24
02 41 19 16-0028		**Demolish Brick Interior Partition/Walls** *(02 41 19 16-0016)*		
02 41 19 16-0029	SF	Demolish 4" Thick Brick Interior Partition/Wall		5.71
02 41 19 16-0030	SF	Demolish 8" Thick Brick Interior Partition/Wall		6.87
02 41 19 16-0031	SF	Demolish 12" Thick Brick Interior Partition/Wall		8.81
02 41 19 16-0032	SF	Demolish 16" Thick Brick Interior Partition/Wall		11.02
02 41 19 16-0033		**Demolish Glass Block Interior Partition/Walls** *(02 41 19 16-0016)*		
02 41 19 16-0034	SF	Demolish Glass Block Interior Partition/Walls		4.90
02 41 19 16-0035		**Demolish Concrete Interior Partition/Walls** *(02 41 19 16-0016)*		
		See CSI section 02 41 16 13-0024 for concrete foundation demolition.		
02 41 19 16-0036	SF	Demolish 6" Thick Non-Reinforced Concrete Interior Partition/Wall		10.38
02 41 19 16-0037	SF	Demolish 8" Thick Non-Reinforced Concrete Interior Partition/Wall		12.98
02 41 19 16-0038	SF	Demolish 12" Thick Non-Reinforced Concrete Interior Partition/Wall		18.17
02 41 19 16-0039	SF	Demolish 6" Thick Reinforced Concrete Interior Partition/Wall		12.46
02 41 19 16-0040	SF	Demolish 8" Thick Reinforced Concrete Interior Partition/Wall		15.67
02 41 19 16-0041	SF	Demolish 12" Thick Reinforced Concrete Interior Partition/Wall		21.80
02 41 19 16-0042		**Demolish Terra-Cotta Block Interior Partition/Walls** *(02 41 19 16-0016)*		
02 41 19 16-0043	SF	Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster		1.96
02 41 19 16-0044		**Demolish Stud Framed Interior Partition/Walls** *(02 41 19 16-0015)*		
		Note: Includes knock down, loading and cleanup. Includes demo of insulation if required.		
02 41 19 16-0045	SF	Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side		3.47
		For Heights >14' To 20', Add	*0.52*	
		For Heights >20', Add	*0.69*	
02 41 19 16-0046	SF	Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides		4.04
		For Heights >14' To 20', Add	*0.61*	
		For Heights >20', Add	*0.81*	
02 41 19 16-0047	SF	Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side		4.43
		For Heights >14' To 20', Add	*0.66*	
		For Heights >20', Add	*0.89*	
02 41 19 16-0048	SF	Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides		6.16
		For Heights >14' To 20', Add	*0.92*	
		For Heights >20', Add	*1.23*	
02 41 19 16-0049	SF	Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall		1.83
		For Heights >14' To 20', Add	*0.27*	
		For Heights >20', Add	*0.37*	
02 41 19 16-0050	SF	Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall		2.18
		For Heights >14' To 20', Add	*0.33*	
		For Heights >20', Add	*0.44*	

02 42 Removal and Salvage of Construction Materials *(02 40)*

02 42 21 Salvage of Construction Materials *(02 42)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

Note: Includes placement on pallets and storage on site.

02 42 21 35 Roofing Salvage *(02 42 21)*

02 42 21 35-0001 Clay Tile Roofing Remove And Salvage For Re-use *(02 42 21 35)*

Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.

02 42 21 35-0002	SQ	Removal Of Clay Roof Tile, Salvage For Re-use	319.37	

02 42 21 47 Flooring Salvage *(02 42 21)*

02 42 21 47-0001 Flooring Remove And Salvage For Re-Use *(02 42 21 47)*

Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.

02 42 21 47-0002	SF	Removal Of Brick Flooring And Salvage	2.91	
02 42 21 47-0003	SF	Removal Of Ceramic/Quarry Tile Floor And Salvage	2.91	
02 42 21 47-0004	SF	Removal Of Terrazzo Flooring And Salvage	4.02	
02 42 21 47-0005	SF	Removal Of Wood Strip Flooring And Salvage	2.35	
02 42 21 47-0006	SF	Removal Of Wood Parquet Flooring And Salvage	1.24	
02 42 21 47-0007	SF	Removal Of Resilient/Linoleum Flooring And Salvage	0.89	

02 43 Structure Moving *(02 40)*

02 43 13 Structure Relocation *(02 43)*

Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.

02 43 13 13 Building Relocation *(02 43 13)*

02 43 13 13-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete *(02 43 13 13)*

Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.

02 43 13 13-0002	SF	Up To 800 SF, Move Relocatable Metal Frame Building	40.29	
02 43 13 13-0003	SF	>800 To 920 SF, Move Relocatable Metal Frame Building	38.08	
02 43 13 13-0004	SF	>920 SF, Move Relocatable Metal Frame Building	35.64	
02 43 13 13-0005	SF	Up To 800 SF, Move Relocatable Wood Frame Building	32.33	
02 43 13 13-0006	SF	>800 To 920 SF, Move Relocatable Wood Frame Building	30.22	
02 43 13 13-0007	SF	>920 SF, Move Relocatable Wood Frame Building	26.73	
02 43 13 13-0008	SF	Up To 800 SF, Move Relocatable Wood/Metal Frame Building	39.16	
02 43 13 13-0009	SF	>800 To 920 SF, Move Relocatable Wood/Metal Frame Building	35.64	
02 43 13 13-0010	SF	>920 SF, Move Relocatable Wood/Metal Frame Building	30.22	

02 60 Contaminated Site Material Removal *(02)*

02 61 Removal and Disposal of Contaminated Soils *(02 60)*

02 61 13 Excavation and Handling of Contaminated Material *(02 61)*

See CSI section 31 23 16 00-0000 for excavation.

02 61 13 00-0001 Excavation Of Non-Petroleum Contaminated Soil *(02 61 13)*

02 61 13 00-0002 Excavate Non-Petroleum Contaminated Soil *(02 61 13 00-0001)*

02 61 13 00-0003	CY	Excavate Non-Petroleum Contaminated Soil Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	10.17	
02 61 13 00-0004	CY	Load Excavated Non-Petroleum Contaminated Soil	9.01	
02 61 13 00-0005	CY	Disposal Fees Of Non-Petroleum Contaminated Soil	44.47	

02 61 13 00-0006 Excavate Petroleum Contaminated Soil *(02 61 13)*

02 61 13 00-0007	CY	Excavate Petroleum Contaminated Soil Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	15.26	
02 61 13 00-0008	CY	Load Excavated Petroleum Contaminated Soil	9.01	
02 61 13 00-0009	CY	Disposal Fees Of Petroleum Contaminated Soil	71.25	

02 61 13 00-0010 Accessories For Contaminated Soil Stockpile *(02 61 13)*

02 61 13 00-0011	SF	10 Mil Liner For Contaminated Soil Storage	0.96	
02 61 13 00-0012	SF	20 Mil Liner For Contaminated Soil Storage	1.41	
02 61 13 00-0013	SF	30 Mil Liner For Contaminated Soil Storage	1.63	

02 61 26 Removal and Disposal of Asbestos Contaminated Soils *(02 61)*

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 61 26 00-0001		**Removal and Disposal of Asbestos Contaminated Soils** *(02 61 26)* Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		
02 61 26 00-0002	EA	Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	1,280.54	
		For Work In Restricted Working Space, Add	*384.16*	
02 61 26 00-0003	CF	>10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	84.89	
		For Work In Restricted Working Space, Add	*25.47*	
02 61 26 00-0004	CF	>100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	56.59	
		For Work In Restricted Working Space, Add	*16.98*	
02 61 26 00-0005	CF	>250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	42.51	
		For Work In Restricted Working Space, Add	*12.75*	
02 61 26 00-0006	CF	>500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	33.95	
		For Work In Restricted Working Space, Add	*10.19*	
02 61 26 00-0007	CF	>2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	28.86	
		For Work In Restricted Working Space, Add	*8.66*	
02 61 26 00-0008	CF	>10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	25.97	
		For Work In Restricted Working Space, Add	*7.79*	

02 62 Hazardous Waste Recovery Process *(02 60)*

02 62 16 Soil Vapor Extraction *(02 62)*

02 62 16 00-0001		**Active And Passive Trench System** *(02 62 16)*		
02 62 16 00-0002		**Leachate And Gas Transfer Pipe** *(02 62 16 00-0001)*		
02 62 16 00-0003		**High-Density Polyethylene (HDPE) Pipe, Laterals** *(02 62 16 00-0002)* Note: Heat fusion connections with pipe and fittings.		
02 62 16 00-0004	LF	3" Diameter High-Density Polyethylene (HDPE) Pipe - SDR 17 With Fittings	19.25	
02 62 16 00-0005	LF	4" Diameter High-Density Polyethylene (HDPE) Pipe - SDR 17 With Fittings	22.50	
02 62 16 00-0006	LF	6" Diameter High-Density Polyethylene (HDPE) Pipe - SDR 17 With Fittings	30.79	
02 62 16 00-0007	LF	8" Diameter High-Density Polyethylene (HDPE) Pipe - SDR 17 With Fittings	45.35	
02 62 16 00-0008	LF	10" Diameter High-Density Polyethylene (HDPE) Pipe - SDR 17 With Fittings	60.73	
02 62 16 00-0009	LF	12" Diameter High-Density Polyethylene (HDPE) Pipe - SDR 17 With Fittings	78.16	
02 62 16 00-0010	EA	Monitoring And Control Assembly	2,650.84	
02 62 16 00-0011	EA	3" Diameter, Header Valve Assembly	1,286.95	
02 62 16 00-0012	EA	4" Diameter, Header Valve Assembly	2,015.41	
02 62 16 00-0013	EA	6" Diameter, Header Valve Assembly	2,965.67	
02 62 16 00-0014	EA	8" Diameter, Header Valve Assembly	4,382.43	
02 62 16 00-0015	EA	Condensate Sump Assembly	28,851.54	
02 62 16 00-0016	EA	Header Monitoring Port Assembly	1,564.23	
02 62 16 00-0017		**Chemical Resistant Sump And Manhole** *(02 62 16 00-0001)*		
02 62 16 00-0018		**High-Density Polyethylene (HDPE) Manholes** *(02 62 16 00-0017)*		
02 62 16 00-0019	EA	27" Diameter Concrete Filled Polyethylene Lid Stainless Steel Handle	362.82	
02 62 16 00-0020	EA	4" Diameter, 2" High Riser Section With Or Without Steps	677.02	
02 62 16 00-0021	EA	3.25" High x 4" Diameter Upper Unit With Or Without Steps	1,205.26	
02 62 16 00-0022	EA	4.25" High x 4" Diameter Upper Unit With Or Without Steps	1,425.55	
02 62 16 00-0023	EA	3" High x 4" Diameter Manhole Base - No Outlets	1,213.59	
02 62 16 00-0024	EA	12" Inlet/Outlet - Factory Attached	384.20	
02 62 16 00-0025	EA	15" Inlet/Outlet - Factory Attached	592.50	
02 62 16 00-0026	EA	18" Inlet/Outlet - Factory Attached	655.97	
02 62 16 00-0027	EA	24" Inlet/Outlet - Factory Attached	775.61	
02 62 16 00-0028	EA	30" Inlet/Outlet - Factory Attached	884.95	
02 62 16 00-0029	EA	36" Inlet/Outlet - Factory Attached	1,038.63	
02 62 16 00-0030	EA	4" Diameter, Inlet Gasket - To Attach Leachate Transport Pipe	18.20	
02 62 16 00-0031	EA	6" Diameter, Inlet Gasket - To Attach Leachate Transport Pipe	24.29	
02 62 16 00-0032	EA	8" Diameter, Inlet Gasket - To Attach Leachate Transport Pipe	30.34	
02 62 16 00-0033	EA	10" Diameter, Inlet Gasket - To Attach Leachate Transport Pipe	45.48	
02 62 16 00-0034	EA	12" Diameter, Inlet Gasket - To Attach Leachate Transport Pipe	57.62	
02 62 16 00-0035	EA	Additional Penetrations Into Manhole	363.37	
02 62 16 00-0036		**High-Density Polyethylene (HDPE) Sumps** *(02 62 16 00-0017)*		
02 62 16 00-0037	EA	42" Diameter Riser Sump With 30" Or 22-1/2" Diameter Neck	2,925.46	
02 62 16 00-0038	EA	2" Riser Sump Extension - 22-1/2" Or 30" Diameter	1,120.56	
02 62 16 00-0039	EA	48" Sump Base	737.76	
02 62 16 00-0040	EA	30" Sump Cover	525.80	
02 62 16 00-0041	EA	22" Sump Cover	480.38	
02 62 16 00-0042	EA	Riser Sump To Base Seal	480.38	
02 62 16 00-0043	EA	Riser Sump To Extension Seal	371.37	
02 62 16 00-0044	EA	2" Conduit Grommet - Box Of 6	732.66	
02 62 16 00-0045	EA	4" Conduit Grommet - Box Of 6	905.20	
02 62 16 00-0046	EA	6" Conduit Grommet - Box Of 6	1,121.47	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0047		**Leachate And Gas Collection Pipe** *(02 62 16 00-0001)*		
02 62 16 00-0048		**Polyvinyl Chloride (PVC), Slotted Pipe** *(02 62 16 00-0047)* Note: Number of rows of slots, slot spacing and slot width can vary to give required outside diameter intake area. Slot width and spacing varies.		
02 62 16 00-0049	LF	2" Diameter, Schedule 40 Polyvinyl Chloride (PVC), 2 To 3 Rows Of Slots	9.84	
02 62 16 00-0050	LF	4" Diameter, Schedule 40 Polyvinyl Chloride (PVC), 2 To 4 Rows Of Slots	14.56	
02 62 16 00-0051	LF	6" Diameter, Schedule 40 Polyvinyl Chloride (PVC), 2 To 6 Rows Of Slots	20.82	
02 62 16 00-0052	LF	8" Diameter, Schedule 40 Polyvinyl Chloride (PVC), 2 To 6 Rows Of Slots	32.65	
02 62 16 00-0053	LF	10" Diameter, Schedule 40 Polyvinyl Chloride (PVC), 2 To 8 Rows Of Slots	46.90	
02 62 16 00-0054	LF	12" Diameter, Schedule 40 Polyvinyl Chloride (PVC), 2 To 10 Rows Of Slots	67.86	
02 62 16 00-0055		**Sheet Drainage Systems** *(02 62 16)* Note: Made of 2 sets of parallel strands. Intersecting strands form two overlaid sets of continuous deep channels.		
02 62 16 00-0056		**Drainage Nets And Composites** *(02 62 16 00-0055)*		
02 62 16 00-0057		**Polyethylene Drainage Nets** *(02 62 16 00-0056)*		
02 62 16 00-0058	SF	Drainage Net - 1/4" Thick High-Density Polyethylene (HDPE)	0.97	
02 62 16 00-0059	SF	Drainage Net With Geotextile Fabric Heat Bonded To One Side	3.25	
02 62 16 00-0060	SF	Drainage Net With Geotextile Fabric Heat Bonded To Both Sides	3.78	
02 62 16 00-0061		**Gas Interception Networks** *(02 62 16)*		
02 62 16 00-0062		**Gas Treatment** *(02 62 16 00-0061)*		
02 62 16 00-0063		**Flares** *(02 62 16 00-0062)* Note: These are basic flare prices and exclude controls and auxiliary equipment. The basic price will be approximately 25% of the total cost of the unit complete with controls, auxiliary equipment, piping, setup, etc.		
02 62 16 00-0064	EA	2.25 Million BTU/Hour Landfill Flare	75,526.91	
02 62 16 00-0065	EA	7.5 Million BTU/Hour Landfill Flare	96,175.54	
02 62 16 00-0066	EA	10.5 Million BTU/Hour Landfill Flare	126,053.84	
02 62 16 00-0067	EA	22.5 Million BTU/Hour Landfill Flare	255,252.77	
02 62 16 00-0068	EA	30 Million BTU/Hour Landfill Flare	296,255.31	
02 62 16 00-0069	EA	36 Million BTU/Hour Landfill Flare	338,199.02	
02 62 16 00-0070		**Gas Scrubbers** *(02 62 16 00-0061)*		
02 62 16 00-0071		**Single Stage Gas Scrubbers** *(02 62 16 00-0070)* Note: Unit is flange to flange, carbon steel construction. Includes ecosphere packing (HDPE), mist eliminator section, internal spray nozzle, access doors and differential pressure gauge.		
02 62 16 00-0072	EA	1,500 CFM Fluidized Bed Gas Scrubber - Single Stage	62,082.20	
02 62 16 00-0073	EA	4,400 CFM Fluidized Bed Gas Scrubber - Single Stage	84,478.40	
02 62 16 00-0074	EA	5,800 CFM Fluidized Bed Gas Scrubber - Single Stage	89,534.42	
02 62 16 00-0075	EA	7,700 CFM Fluidized Bed Gas Scrubber - Single Stage	96,417.42	
02 62 16 00-0076	EA	9,600 CFM Fluidized Bed Gas Scrubber - Single Stage	104,618.60	
02 62 16 00-0077	EA	12,000 CFM Fluidized Bed Gas Scrubber - Single Stage	111,193.42	
02 62 16 00-0078	EA	17,000 CFM Fluidized Bed Gas Scrubber - Single Stage	120,303.69	
02 62 16 00-0079	EA	23,600 CFM Fluidized Bed Gas Scrubber - Single Stage	129,347.35	
02 62 16 00-0080	EA	30,200 CFM Fluidized Bed Gas Scrubber - Single Stage	137,740.66	
02 62 16 00-0081	EA	38,700 CFM Fluidized Bed Gas Scrubber - Single Stage	156,482.83	
02 62 16 00-0082	EA	47,200 CFM Fluidized Bed Gas Scrubber - Single Stage	178,156.99	
02 62 16 00-0083	EA	58,000 CFM Fluidized Bed Gas Scrubber - Single Stage	192,759.13	
02 62 16 00-0084	EA	79,700 CFM Fluidized Bed Gas Scrubber - Single Stage	219,844.52	
02 62 16 00-0085	EA	90,900 CFM Fluidized Bed Gas Scrubber - Single Stage	231,299.59	
02 62 16 00-0086	EA	113,300 CFM Fluidized Bed Gas Scrubber - Single Stage	249,841.73	
02 62 16 00-0087	EA	3,000 CFM Fluidized Bed Gas Scrubber - Single Stage	79,257.06	
02 62 16 00-0088		**Gas Collection** *(02 62 16 00-0061)*		
02 62 16 00-0089		**Vacuum Blowers** *(02 62 16 00-0088)* Note: Aluminum wheel with clean-out door, drain and plug. 60 Hertz, 230/460V, 3600 rpm, TEFC, 184T. As manufactured by New York Blower Fans.		
02 62 16 00-0090	EA	5 HP New York Blower, Pressure Blower Size 2204, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T	6,074.29	
		For Silencer Option, Add	*814.90*	
02 62 16 00-0091	EA	5 HP New York Blower, Pressure Blower Size 2206, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T	6,094.10	
		For Silencer Option, Add	*818.86*	
02 62 16 00-0092	EA	5 HP New York Blower, Pressure Blower Size 2606, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T	6,835.43	
		For Silencer Option, Add	*967.12*	
02 62 16 00-0093		**Vacuum Blowers And Compressors** *(02 62 16 00-0088)* Note: Heavy-duty rotary blowers packaged with silencer, filter, drive and motor. Unit is mounted and interconnected all on the same base.		
02 62 16 00-0094	EA	Positive Displacement Blower, 4.9 Max. HP, 48 CFM	9,606.32	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0095	EA	Positive Displacement Blower, 5.6 Max. HP, 111 CFM	10,548.15	
02 62 16 00-0096	EA	Positive Displacement Blower, 12.2 Max. HP, 143 CFM	12,113.79	
02 62 16 00-0097	EA	Positive Displacement Blower, 11.8 Max. HP, 271 CFM	12,595.41	
02 62 16 00-0098	EA	Positive Displacement Blower, 15 Max. HP, 134 CFM	11,653.69	
02 62 16 00-0099	EA	Positive Displacement Blower, 19.7 Max. HP, 278 CFM	13,567.42	
02 62 16 00-0100	EA	Positive Displacement Blower, 18.3 Max. HP, 399 CFM	14,585.90	
02 62 16 00-0101	EA	Positive Displacement Blower, 254 Max. HP, 247 CFM	16,563.23	
02 62 16 00-0102	EA	Positive Displacement Blower, 28.3 Max. HP., 427 CFM	20,239.31	
02 62 16 00-0103	EA	Positive Displacement Blower, 29 Max. HP, 665 CFM	20,605.70	
02 62 16 00-0104	EA	Positive Displacement Blower, 38.8 Max. HP, 393 CFM	22,450.78	
02 62 16 00-0105	EA	Positive Displacement Blower, 49.6 Max. HP, 615 CFM	29,481.95	
02 62 16 00-0106	EA	Positive Displacement Blower, 46.5 Max. HP, 1,248 CFM	32,560.11	
02 62 16 00-0107	EA	Positive Displacement Blower, 55 Max. HP, 574 CFM	33,898.51	
02 62 16 00-0108	EA	Positive Displacement Blower, 67.1 Max. HP, 1,071 CFM	40,349.58	
02 62 16 00-0109	EA	Positive Displacement Blower, 65.5 Max. HP, 1,878 CFM	45,888.23	
02 62 16 00-0110		Fugitive Dust, Vapor And Gas Emissions Control *(02 62 16)*		
02 62 16 00-0111		Sprayed Dust Suppressants *(02 62 16 00-0110)*		
		Note: Overall dust suppression reflects treatment of unpaved haul roads and parking lots and similar surfaces. Overall erosion control reflects stabilizing road shoulders and slopes. Excludes water costs.		
02 62 16 00-0112	SY	Overall Dust Suppression And Erosion Control, Tree Sap Based Sprayed Dust Suppressant	4.95	
02 62 16 00-0113	SY	Erosion Control For Landfill Cap	5.26	
02 62 16 00-0114	SY	Stockpile Dust Suppression Tree Sap Based Dust Suppressant	5.26	
02 62 16 00-0115	SY	Periodic Maintenance Application Tree Sap Based Sprayed Dust Suppressant	4.65	
02 62 16 00-0116	SY	Overall Dust Suppression And Erosion Control, Chloride Based Sprayed Dust Suppressant	5.04	
02 62 16 00-0117	SY	Erosion Control For Landfill Cap Chloride Based Sprayed Dust Suppressant	5.68	
02 62 16 00-0118	SY	Stockpile Dust Suppression, Chloride Based Sprayed Dust Suppressant	5.35	
02 62 16 00-0119	SY	Periodic Maintenance Application Chloride Based Sprayed Dust Suppressant	4.71	
02 62 16 00-0120	SY	Overall Dust Suppression And Erosion Control, Oil Emulsion Sprayed Dust Suppressant	5.50	
02 62 16 00-0121	SY	Erosion Control For Landfill Cap	6.71	
02 62 16 00-0122	SY	Stockpile Dust Suppression, Oil Emulsion Sprayed Dust Suppressant	6.07	
02 62 16 00-0123	SY	Periodic Maintenance Application Oil Emulsion Sprayed Dust Suppressant	4.89	
02 62 16 00-0124	SY	Overall Dust Suppression And Erosion Control, Asphalt Emulsion Sprayed Dust Suppressant	6.06	
02 62 16 00-0125	SY	Erosion Control For Landfill Cap Asphalt Emulsion Sprayed Dust Suppressant	7.39	
02 62 16 00-0126	SY	Stockpile Dust Suppression, Asphalt Emulsion Sprayed Dust Suppressant	6.70	
02 62 16 00-0127	SY	Periodic Maintenance Application Asphalt Emulsion Sprayed Dust Suppressant	5.42	
02 62 16 00-0128	SY	Overall Dust Suppression And Erosion Control, Lignosulfonates Sprayed Dust Suppressant	4.98	
02 62 16 00-0129	SY	Erosion Control For Landfill Cap Lignosulfonates Sprayed Dust Suppressant	5.62	
02 62 16 00-0130	SY	Stockpile Dust Suppression, Lignosulfonates Sprayed Dust Suppressant	5.29	
02 62 16 00-0131	SY	Periodic Maintenance Application Lignosulfonates Sprayed Dust Suppressant	4.71	
02 62 16 00-0132		Synthetic Covers Over Waste Piles *(02 62 16 00-0110)*		
02 62 16 00-0133		Plastic Waste Pile Covers *(02 62 16 00-0132)*		
02 62 16 00-0134	SF	Plastic Laminate Waste Pile Cover, 130 Lb. Tear Strength, 1 To 1-1/2 Year Outdoor Life Expectancy	0.40	
02 62 16 00-0135	SF	Plastic Laminate Waste Pile Cover, 185 Lb. Tear Strength, 3 To 4 Year Outdoor Life Expectancy	0.96	
02 62 16 00-0136	SF	Plastic Laminate Waste Pile Cover, 250 Lb. Tear Strength, 4 To 5 Year Outdoor Life Expectancy	1.27	
02 62 16 00-0137	LF	Add For Cover Drawstring	1.49	
02 62 16 00-0138	EA	Add For Metal Grommets Used With Tie-downs	1.55	
02 62 16 00-0139	SF	Plastic Laminate Waste Pile Cover, 135 Lb. Tear Strength, 2 To 2-1/2 Year Outdoor Life Expectancy	0.56	

02 65 Underground Storage Tank Removal *(02 60)*

Note: Petroleum gasoline is classified as a hazardous material; fuel oil is considered a non-hazardous material. See CSI section 01 74 19 00-0043 for hauling, 31 20 00 00-0000 for non-contaminated soil excavation, 31 23 16 00-0000 for excavation, 31 41 00 00-0000 for shoring.

02 65 00 00-0001		Monitoring, Sampling, Testing And Analysis *(02 65)*		
02 65 00 00-0002		Field Samples For Testing Underground Storage Tank *(02 65 00 00-0001)*		
02 65 00 00-0003	EA	Collection Of Sludge Sample For Underground Storage Tank	27.23	
02 65 00 00-0004	EA	Collection Of Pumpable Liquids Sample For Underground Storage Tank	27.23	
02 65 00 00-0005	EA	Collection Of Contaminated Soil Sample	27.23	
02 65 00 00-0006		Lab Tests For Underground Storage Tank Removal *(02 65 00 00-0001)*		
		Note: Includes lab test fees, reports, shipping, handling, chain of custody documents and disposal of sample.		
02 65 00 00-0007	EA	Benzene, Toluene, Ethylbenzene, Xylene 8020, Lab Test	214.08	
		Note: The cost is for the in-lab test for Benzene, Toluene, Ethylbenzene, And Xylene using procedure 8020 as detailed in EPA SW-846.		
02 65 00 00-0008	EA	Flashpoint, Lab Test	83.25	
		Note: The cost is for the in-lab test for the flashpoint using procedure 40CFR 261.21 as detailed in EPA SW-846.		
02 65 00 00-0009	EA	TOX 9020, Lab Test	200.28	
		Note: The cost is for the in-lab test for total organic halides using procedure 9020 as detailed in EPA SW-846.		
02 65 00 00-0010	EA	TPH 8015 Modified, Lab Test	214.08	
		Note: The cost is for the in-lab test for total petroleum hydrocarbons by gas chromatography using procedure 8015 Mod. as detailed in EPA SW-846.		
02 65 00 00-0011	EA	TRPH 418.1, Lab Test	166.51	
		Note: The cost is for the in-lab test for total recoverable petroleum hydrocarbons using procedure 418.1 as detailed in EPA SW-846.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0012	EA	VOC, Lab Test Note: The cost is for the in-lab test for volatile organics using procedure 8240 as detailed in EPA SW-846.	451.95	
02 65 00 00-0013	EA	Semi-Volatile Organic, Lab Test Note: The cost is for the in-lab test for semi-volatile organics using procedure 8270 as detailed in EPA SW-846.	832.54	
02 65 00 00-0014	EA	Oil And Grease 413.1, Lab Test Note: The cost is for the in-lab test for oil and grease using procedure 413.1 as detailed in EPA SW-846.	100.14	
02 65 00 00-0015	EA	TCLP (Extraction) - Metals, Lab Test Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	178.40	
02 65 00 00-0016	EA	TCLP (Extraction) - Semi-Volatile Organic, Lab Test Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	237.87	
02 65 00 00-0017	EA	Metals 6010 RCRA, Lab Test Note: The cost is for the in-lab test for metals using procedure 6010 RCRA as detailed in EPA SW-846.	266.41	
02 65 00 00-0018	EA	Metals (Arsenic) 7060, Lab Test Note: The cost is for the in-lab test for the metal arsenic using procedure 7060 as detailed in EPA SW-846.	35.68	
02 65 00 00-0019	EA	Metals (Selenium) 7740, Lab Test Note: The cost is for the in-lab test for the metal selenium (SE) using procedure 7740 as detailed in EPA SW-846.	35.68	
02 65 00 00-0020	EA	Metals (Lead) 7421, Lab Test Note: The cost is for the in-lab test for the metal lead using procedure 7421 as detailed in EPA SW-846.	35.68	
02 65 00 00-0021	EA	Metals (Mercury) 7470, Lab Test Note: The cost is for the in-lab test for the metal mercury using procedure 7470 as detailed in EPA SW-846.	66.60	
02 65 00 00-0022	EA	PNA/PAH 8100, Lab Test Note: The cost is for the in-lab test for polynuclear aromatic hydrocarbons using procedure 8100 as detailed in EPA SW-846.	380.59	
02 65 00 00-0023	EA	Fuel Id ASTM D3328-78, Lab Test Note: The cost is for the in-lab test to determine the constituents of fuel using the procedure as detailed in ASTM D3328-78.	137.69	
02 65 00 00-0024	EA	pH, Lab Test	28.54	
02 65 00 00-0025	EA	Lab Test - Polychlorinated Biphenyl (PCB) In Wastewater	356.80	
02 65 00 00-0026	EA	Methyl Tertiary Butyl Ether (MTBE), Lab Test	214.08	
02 65 00 00-0027		Tests, Surveys And Maintenance For Underground Storage Tank *(02 65 00 00-0001)*		
02 65 00 00-0028	EA	Site Survey For AST/UST Location By Certified Tank Installer Note: Includes testing Pump output both tank and dispenser, Calibrate pump dispenser if needed, Check all sumps both tank and dispenser, check all fitting connections for leaks and check wiring connection for possible malfunction or safety hazard, check seals on caps for fill tube, check overfill performance for safety shutdown, check all hoses and pump handle, check break-away couplings, complete written report on all data found.	1,205.54	
02 65 00 00-0029	EA	Check Cathodic Protection - Impressed Current Systems And Sacrificial Anode Systems Note: By Certified Technician. Write report of findings for action if needed	210.29	
02 65 00 00-0030	EA	Check And Report On Monitor Probes Note: By Certified Technician	48.60	
02 65 00 00-0031	EA	Tank Monitoring System: Check System Per Manufacturer's Specification By Certified Technician With Written Report Note: Including pass / fail; paper feed operational paper installed etc.; and status of inspection repairs needed etc.	341.02	
02 65 00 00-0032	EA	Removal And Replacement Of Anode On Impressed System	162.21	
02 65 00 00-0033	EA	Removal And Replacement Of Power Converter On Impressed System On Underground Storage Tank	232.75	
02 65 00 00-0034	EA	Removal And Replacement Of Monitor Probes On Underground Storage Tank	352.77	
02 65 00 00-0035	EA	Ultrasonic Test On Underground Storage Tank	209.92	
02 65 00 00-0036		Tests And Sampling Labor Hours *(02 65 00 00-0001)*		
02 65 00 00-0037	HR	Certified Tank Installer For Underground Storage Tank	127.73	
02 65 00 00-0038	HR	Certified Geologist/Environmentalist	130.82	
02 65 00 00-0039	HR	Hourly Office Work For Reports Required For EPA On Underground Storage Tank Note: Includes title searches, well survey data, site drawings, submitting preliminary work, etc. Hours not to be used in association with other tasks performed.	140.36	
02 65 00 00-0040		Remove Tank Contents *(02 65)*		
02 65 00 00-0041		Transfer Liquid *(02 65 00 00-0040)* Note: For use to transfer liquids from one tank to another.		
02 65 00 00-0042	GAL	Transfer Reusable Liquid To Different Tank Note: Per gallon of material transferred.	0.70	
02 65 00 00-0043		Remove And Dispose Of Liquid From Tank *(02 65 00 00-0040)*		
02 65 00 00-0044	GAL	Removal and Disposal Of Hazardous Liquids From Tank	1.93	
02 65 00 00-0045	GAL	Removal and Disposal Of Non-Hazardous Liquid From Tank	0.84	
02 65 00 00-0046		Remove And Dispose Of Solids Or Sludge *(02 65 00 00-0040)* Note: Includes scraping and solidifying agent.		
02 65 00 00-0047	GAL	Removal and Disposal Of Hazardous Solids Or Sludge From Tank	7.09	
02 65 00 00-0048	GAL	Removal and Disposal Of Non-Hazardous Solids Or Sludge From Tank	1.57	
02 65 00 00-0049		Purge Vapors, Open And Clean Tank *(02 65)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0050		**Purge Vapors** *(02 65 00 00-0049)*		
02 65 00 00-0051	LB	Purge Tank Using Dry Ice Note: Approximately 1.5 To 3.0 Lb. of dry ice per 100 Gallons of tank volume.	4.82	
02 65 00 00-0052		**High Pressure Water Wash And Rinse Of Tank Interior** *(02 65 00 00-0049)* Note: Includes removal and disposal of rinse water.		
02 65 00 00-0053	EA	Up To 275 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	375.60	
02 65 00 00-0054	EA	>275 To 550 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	491.55	
02 65 00 00-0055	EA	>550 To 1,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	635.97	
02 65 00 00-0056	EA	>1,000 To 2,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	856.51	
02 65 00 00-0057	EA	>2,000 To 5,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	1,653.17	
02 65 00 00-0058	EA	>5,000 To 6,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	1,987.95	
02 65 00 00-0059	EA	>6,000 To 8,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	2,273.27	
02 65 00 00-0060	EA	>8,000 To 10,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	2,745.51	
02 65 00 00-0061	EA	>10,000 To 15,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	3,526.30	
02 65 00 00-0062	EA	>15,000 To 20,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	4,239.87	
02 65 00 00-0063	EA	>20,000 To 30,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	5,365.82	
02 65 00 00-0064	EA	>30,000 To 40,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	6,619.82	
02 65 00 00-0065	EA	>40,000 To 50,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	8,119.76	
02 65 00 00-0066		**Scrape Clean Tank Exterior** *(02 65 00 00-0049)*		
02 65 00 00-0067	EA	Up To 275 Gallon Tank, Scrape Clean Tank Exterior	273.18	
02 65 00 00-0068	EA	>275 To 550 Gallon Tank, Scrape Clean Tank Exterior	363.78	
02 65 00 00-0069	EA	>550 To 1,000 Gallon Tank, Scrape Clean Tank Exterior	476.68	
02 65 00 00-0070	EA	>1,000 To 2,000 Gallon Tank, Scrape Clean Tank Exterior	660.11	
02 65 00 00-0071	EA	>2,000 To 5,000 Gallon Tank, Scrape Clean Tank Exterior	1,461.82	
02 65 00 00-0072	EA	>5,000 To 6,000 Gallon Tank, Scrape Clean Tank Exterior	1,850.98	
02 65 00 00-0073	EA	>6,000 To 8,000 Gallon Tank, Scrape Clean Tank Exterior	2,165.98	
02 65 00 00-0074	EA	>8,000 To 10,000 Gallon Tank, Scrape Clean Tank Exterior	2,722.94	
02 65 00 00-0075	EA	>10,000 To 15,000 Gallon Tank, Scrape Clean Tank Exterior	3,539.15	
02 65 00 00-0076	EA	>15,000 To 20,000 Gallon Tank, Scrape Clean Tank Exterior	4,442.34	
02 65 00 00-0077	EA	>20,000 To 30,000 Gallon Tank, Scrape Clean Tank Exterior	5,784.29	
02 65 00 00-0078	EA	>30,000 To 40,000 Gallon Tank, Scrape Clean Tank Exterior	6,941.15	
02 65 00 00-0079	EA	>40,000 To 50,000 Gallon Tank, Scrape Clean Tank Exterior	8,676.44	
02 65 00 00-0080		**Tank And Piping Removal** *(02 65)* Note: Excludes excavation.		
02 65 00 00-0081		**Removal And Disposal Of Piping** *(02 65 00 00-0080)* Note: Includes removal, inspection, loading, transporting pipe to disposal facility or transfer station within 15 miles and disposal fees.		
02 65 00 00-0082	LF	Up To 4", Removal And Disposal Of Piping	21.43	
02 65 00 00-0083	LF	>4" To 8", Removal And Disposal Of Piping	28.57	
02 65 00 00-0084		**Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement** *(02 65 00 00-0080)* Note: Excludes excavation or backfill.		
02 65 00 00-0085	EA	Up To 275 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	750.59	
02 65 00 00-0086	EA	>275 To 550 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	911.42	
02 65 00 00-0087	EA	>550 To 1,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,072.27	
02 65 00 00-0088	EA	>1,000 To 2,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,340.34	
02 65 00 00-0089	EA	>2,000 To 5,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,876.45	
02 65 00 00-0090	EA	>5,000 To 6,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,358.97	
02 65 00 00-0091	EA	>6,000 To 8,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,680.65	
02 65 00 00-0092	EA	>8,000 To 10,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	3,216.79	
02 65 00 00-0093	EA	>10,000 To 15,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	4,289.04	
02 65 00 00-0094	EA	>15,000 To 20,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	5,141.62	
02 65 00 00-0095	EA	>20,000 To 30,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	6,024.92	
02 65 00 00-0096	EA	>30,000 To 40,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	7,048.63	
02 65 00 00-0097	EA	>40,000 To 50,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	8,810.78	
02 65 00 00-0098		**Cut Tank Into Sections That Can Easily Be Transported And Disposed Of When Necessary** *(02 65 00 00-0080)* Note: Includes 1 lengthwise at every 4' on-center height wise.		
02 65 00 00-0099	EA	>1,000 To 2,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	911.41	
02 65 00 00-0100	EA	>2,000 To 5,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,699.66	
02 65 00 00-0101	EA	>5,000 To 6,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,044.53	
02 65 00 00-0102	EA	>6,000 To 8,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,278.53	
02 65 00 00-0103	EA	>8,000 To 10,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,734.24	
02 65 00 00-0104	EA	>10,000 to 15,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	3,399.32	
02 65 00 00-0105	EA	>15,000 to 20,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	4,089.04	
02 65 00 00-0106	EA	>20,000 To 30,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	5,111.30	
02 65 00 00-0107	EA	>30,000 To 40,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	6,389.13	
02 65 00 00-0108	EA	>40,000 To 50,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	7,986.41	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0109		Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station *(02 65 00 00-0080)*		
		Note: Includes disposal fee.		
02 65 00 00-0110	EA	Up To 275 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	317.37	
		For Each Additional Mile >15 Miles, Add	*5.07*	
02 65 00 00-0111	EA	>275 To 550 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	428.06	
		For Each Additional Mile >15 Miles, Add	*6.40*	
02 65 00 00-0112	EA	>550 To 1,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	670.79	
		For Each Additional Mile >15 Miles, Add	*9.60*	
02 65 00 00-0113	EA	>1,000 To 2,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,021.68	
		For Each Additional Mile >15 Miles, Add	*11.20*	
02 65 00 00-0114	EA	>2,000 To 5,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,802.84	
		For Each Additional Mile >15 Miles, Add	*19.73*	
02 65 00 00-0115	EA	>5,000 To 6,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,866.81	
		For Each Additional Mile >15 Miles, Add	*21.33*	
02 65 00 00-0116	EA	>6,000 To 8,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,973.45	
		For Each Additional Mile >15 Miles, Add	*23.99*	
02 65 00 00-0117	EA	>8,000 To 10,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	2,848.05	
		For Each Additional Mile >15 Miles, Add	*31.99*	
02 65 00 00-0118	EA	>10,000 To 15,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	3,927.79	
		For Each Additional Mile >15 Miles, Add	*47.99*	
02 65 00 00-0119	EA	>15,000 To 20,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	4,580.99	
		For Each Additional Mile >15 Miles, Add	*53.32*	
02 65 00 00-0120	EA	>20,000 To 30,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	5,657.83	
		For Each Additional Mile >15 Miles, Add	*63.98*	
02 65 00 00-0121	EA	>30,000 To 40,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	7,852.87	
		For Each Additional Mile >15 Miles, Add	*76.78*	
02 65 00 00-0122	EA	>40,000 To 50,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	9,461.16	
		For Each Additional Mile >15 Miles, Add	*88.29*	
02 65 00 00-0123		Other Storage Tank Removals *(02 65 00 00-0080)*		
		Note: Based on tank gallon size		
02 65 00 00-0124	GAL	Removal Of Cement Lining	0.64	
02 65 00 00-0125	GAL	Sandblast Tank In Prep For Lining Or Welding; Remove Sand, Vacuum Walls And Seams	0.23	
02 65 00 00-0126	GAL	Install Epoxy For Interior Corrosion Protection	1.30	
02 65 00 00-0127		Tank Closure Report *(02 65 00 00-0080)*		
		Note: Excludes soils tests. See CSI section 02 65 00 00-0006 for soil tests.		
02 65 00 00-0128	EA	Prepare Tank Closure Report	3,524.12	
02 65 00 00-0129		Temporary Tanks *(02 65)*		
02 65 00 00-0130		Temporary Holding Tanks *(02 65 00 00-0129)*		
02 65 00 00-0131		Above Ground Temporary Holding Tanks, Monthly Rental *(02 65 00 00-0130)*		
02 65 00 00-0132	MO	550 Gallon, Stainless Steel, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	989.85	
02 65 00 00-0133	MO	630 Gallon, Polyethylene, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	989.85	
02 65 00 00-0134	MO	630 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,979.69	
02 65 00 00-0135	MO	4,000 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,484.77	
02 65 00 00-0136	MO	4,000 Gallon, Polyethylene, Trailer Mounted, Above Ground Temporary Holding Tanks, Monthly Rental	3,464.47	
02 65 00 00-0137	MO	6,000 Gallon, Polyethylene, Total Drain, Above Ground Temporary Holding Tanks, Monthly Rental	2,474.62	
02 65 00 00-0138	MO	21,000 Gallon (500 BBL), Steel, Open, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	5,532.07	
02 65 00 00-0139	MO	21,000 Gallon (500 BBL), Steel, Closed, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	6,629.70	
02 65 00 00-0140	MO	21,000 Gallon (500 BBL), Steel, Vapor Proof, Above Ground Temporary Holding Tanks, Monthly Rental	11,195.86	
02 65 00 00-0141		Secondary Containment Berm *(02 65 00 00-0129)*		
02 65 00 00-0142	MO	Secondary Containment Berm Monthly Rental	2,144.67	

02 66 Landfill Construction and Storage *(02 60)*

02 66 13 Landfill Excavation *(02 66)*

02 66 13 00-0001		Excavate, Haul And Place Soil *(02 66 13)*		
02 66 13 00-0002	CY	Excavate, Haul And Place Soil At Landfill	3.43	
		For >50,000 To 100,000, Deduct	*-0.10*	
		For >100,000 To 200,000, Deduct	*-0.21*	
		For >200,000 To 500,000, Deduct	*-0.31*	
		For >500,000 To 1,000,000, Deduct	*-0.41*	
		For >1,000,000, Deduct	*-0.51*	
02 66 13 00-0003		Compaction *(02 66 13)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 66 13 00-0004	CY	Compaction In Landfill	0.55	
		For >50,000 To 100,000, Deduct	*-0.02*	
		For >100,000 To 200,000, Deduct	*-0.03*	
		For >200,000 To 500,000, Deduct	*-0.05*	
		For >500,000 To 1,000,000, Deduct	*-0.07*	
		For >1,000,000, Deduct	*-0.08*	

02 66 13 00-0005 Burn Dump Excavation *(02 66 13)*

Note: Includes excavation, segregation, removal and disposal of solid waste. Not for use with any section other than ash matrix excavation.

02 66 13 00-0006 Ash Matrix Excavation With Dozer *(02 66 13 00-0005)*

Note: Dozing distance averages up to 150' push, 50 min/hour, +5% grade, average operator and material conversion factors. Pushed to stockpile area.

02 66 13 00-0007	CY	Ash Matrix Excavation, D-3B Dozer, Light Material 65 HP With Blade, 150' Push, 30 CY/Hour	8.61	
		For >50,000 To 100,000, Deduct	*-0.26*	
		For >100,000 To 200,000, Deduct	*-0.52*	
		For >200,000 To 500,000, Deduct	*-0.77*	
		For >500,000 To 1,000,000, Deduct	*-1.03*	
		For >1,000,000, Deduct	*-1.29*	
02 66 13 00-0008	CY	Ash Matrix Excavation, D-4H Dozer, Light Material 90 HP With Blade, 150' Push, 60 CY/Hour	4.21	
		For >50,000 To 100,000, Deduct	*-0.13*	
		For >100,000 To 200,000, Deduct	*-0.25*	
		For >200,000 To 500,000, Deduct	*-0.38*	
		For >500,000 To 1,000,000, Deduct	*-0.51*	
		For >1,000,000, Deduct	*-0.63*	
02 66 13 00-0009	CY	Ash Matrix Excavation, D-5H Dozer, Light Material 120 HP With Blade, 150' Push, 85 CY/Hour	3.11	
		For >50,000 To 100,000, Deduct	*-0.09*	
		For >100,000 To 200,000, Deduct	*-0.19*	
		For >200,000 To 500,000, Deduct	*-0.28*	
		For >500,000 To 1,000,000, Deduct	*-0.37*	
		For >1,000,000, Deduct	*-0.47*	
02 66 13 00-0010	CY	Ash Matrix Excavation, D-6D Dozer, Light Material 140 HP With Blade, 150' Push, 115 CY/Hour	2.71	
		For >50,000 To 100,000, Deduct	*-0.08*	
		For >100,000 To 200,000, Deduct	*-0.16*	
		For >200,000 To 500,000, Deduct	*-0.24*	
		For >500,000 To 1,000,000, Deduct	*-0.33*	
		For >1,000,000, Deduct	*-0.41*	
02 66 13 00-0011	CY	Ash Matrix Excavation, D-7G Dozer, Light Material 200 HP With U-Blade, 150' Push, 185 CY/Hour	1.82	
		For >50,000 To 100,000, Deduct	*-0.05*	
		For >100,000 To 200,000, Deduct	*-0.11*	
		For >200,000 To 500,000, Deduct	*-0.16*	
		For >500,000 To 1,000,000, Deduct	*-0.22*	
		For >1,000,000, Deduct	*-0.27*	
02 66 13 00-0012	CY	Ash Matrix Excavation, D-8L Dozer, Light Material 335 HP With U-Blade, 150' Push, 290 CY/Hour	1.45	
		For >50,000 To 100,000, Deduct	*-0.04*	
		For >100,000 To 200,000, Deduct	*-0.09*	
		For >200,000 To 500,000, Deduct	*-0.13*	
		For >500,000 To 1,000,000, Deduct	*-0.17*	
		For >1,000,000, Deduct	*-0.22*	
02 66 13 00-0013	CY	Ash Matrix Excavation, D-9L Dozer, Light Material 460 HP With U-Blade, 150' Push, 375 CY/Hour	1.12	
		For >50,000 To 100,000, Deduct	*-0.03*	
		For >100,000 To 200,000, Deduct	*-0.07*	
		For >200,000 To 500,000, Deduct	*-0.10*	
		For >500,000 To 1,000,000, Deduct	*-0.13*	
		For >1,000,000, Deduct	*-0.17*	
02 66 13 00-0014	CY	Ash Matrix Excavation, D-10 Dozer, Light Material 700 HP With U-Blade, 150' Push, 495 CY/Hour	0.93	
		For >50,000 To 100,000, Deduct	*-0.03*	
		For >100,000 To 200,000, Deduct	*-0.06*	
		For >200,000 To 500,000, Deduct	*-0.08*	
		For >500,000 To 1,000,000, Deduct	*-0.11*	
		For >1,000,000, Deduct	*-0.14*	

02 66 13 00-0015 Ash Matrix Excavation With Dozer *(02 66 13 00-0005)*

Note: Dozing distance averages >150' to 300' push, 50 min/hour, +5% grade, average operator and material conversion factors. Pushed to stockpile area.

02 66 13 00-0016	CY	Ash Matrix Excavation, D-3B Dozer, Light Material 65 HP With Blade, 12.5 CY/Hour, 300' Push	20.64	
		For >50,000 To 100,000, Deduct	*-0.62*	
		For >100,000 To 200,000, Deduct	*-1.24*	
		For >200,000 To 500,000, Deduct	*-1.86*	
		For >500,000 To 1,000,000, Deduct	*-2.48*	
		For >1,000,000, Deduct	*-3.10*	
02 66 13 00-0017	CY	Ash Matrix Excavation, D-4H Dozer, Light Material 90 HP With Blade, 24 CY/Hour, 300' Push	12.63	
		For >50,000 To 100,000, Deduct	*-0.38*	
		For >100,000 To 200,000, Deduct	*-0.76*	
		For >200,000 To 500,000, Deduct	*-1.14*	
		For >500,000 To 1,000,000, Deduct	*-1.52*	
		For >1,000,000, Deduct	*-1.89*	
02 66 13 00-0018	CY	Ash Matrix Excavation, D-5H Dozer, Light Material 120 HP With Blade, 35 CY/Hour, 300' Push	7.56	
		For >50,000 To 100,000, Deduct	*-0.23*	
		For >100,000 To 200,000, Deduct	*-0.45*	
		For >200,000 To 500,000, Deduct	*-0.68*	
		For >500,000 To 1,000,000, Deduct	*-0.91*	
		For >1,000,000, Deduct	*-1.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 66 13 00-0019	CY	Ash Matrix Excavation, D-6D Dozer, Light Material 140 HP With Blade, 55 CY/Hour, 300' Push	5.66	
		For >50,000 To 100,000, Deduct	*-0.17*	
		For >100,000 To 200,000, Deduct	*-0.34*	
		For >200,000 To 500,000, Deduct	*-0.51*	
		For >500,000 To 1,000,000, Deduct	*-0.68*	
		For >1,000,000, Deduct	*-0.85*	
02 66 13 00-0020	CY	Ash Matrix Excavation, D-7G Dozer, Light Material 200 HP With Blade, 100 CY/Hour, 300' Push	3.95	
		For >50,000 To 100,000, Deduct	*-0.12*	
		For >100,000 To 200,000, Deduct	*-0.24*	
		For >200,000 To 500,000, Deduct	*-0.36*	
		For >500,000 To 1,000,000, Deduct	*-0.47*	
		For >1,000,000, Deduct	*-0.59*	
02 66 13 00-0021	CY	Ash Matrix Excavation, D-8L Dozer, Light Material 335 HP With U-Blade, 145 CY/Hour, 300' Push	2.89	
		For >50,000 To 100,000, Deduct	*-0.09*	
		For >100,000 To 200,000, Deduct	*-0.17*	
		For >200,000 To 500,000, Deduct	*-0.26*	
		For >500,000 To 1,000,000, Deduct	*-0.35*	
		For >1,000,000, Deduct	*-0.43*	
02 66 13 00-0022	CY	Ash Matrix Excavation, D-9L Dozer, Light Material 460 HP With U-Blade, 195 CY/Hour, 300' Push	2.14	
		For >50,000 To 100,000, Deduct	*-0.06*	
		For >100,000 To 200,000, Deduct	*-0.13*	
		For >200,000 To 500,000, Deduct	*-0.19*	
		For >500,000 To 1,000,000, Deduct	*-0.26*	
		For >1,000,000, Deduct	*-0.32*	
02 66 13 00-0023	CY	Ash Matrix Excavation, D-10 Dozer, Light Material 700 HP With U-Blade, 275 CY/Hour, 300' Push	1.67	
		For >50,000 To 100,000, Deduct	*-0.05*	
		For >100,000 To 200,000, Deduct	*-0.10*	
		For >200,000 To 500,000, Deduct	*-0.15*	
		For >500,000 To 1,000,000, Deduct	*-0.20*	
		For >1,000,000, Deduct	*-0.25*	

02 66 13 00-0024 Ash Matrix Excavation With Dozer *(02 66 13 00-0005)*

Note: Dozing distance averages >300' to 450' push, 50 min/hour, +5% grade, average operator and material conversion factors. Pushed to stockpile area.

02 66 13 00-0025	CY	Ash Matrix Excavation, D-7G Dozer, Light Material 215 HP With U-Blade, 75 CY/Hour, 450' Push	4.47	
		For >50,000 To 100,000, Deduct	*-0.13*	
		For >100,000 To 200,000, Deduct	*-0.27*	
		For >200,000 To 500,000, Deduct	*-0.40*	
		For >500,000 To 1,000,000, Deduct	*-0.54*	
		For >1,000,000, Deduct	*-0.67*	
02 66 13 00-0026	CY	Ash Matrix Excavation, D-8L Dozer, Light Material 335 HP With U-Blade, 105 CY/Hour, 450' Push	4.00	
		For >50,000 To 100,000, Deduct	*-0.12*	
		For >100,000 To 200,000, Deduct	*-0.24*	
		For >200,000 To 500,000, Deduct	*-0.36*	
		For >500,000 To 1,000,000, Deduct	*-0.48*	
		For >1,000,000, Deduct	*-0.60*	
02 66 13 00-0027	CY	Ash Matrix Excavation, D-9L Dozer, Light Material 460 HP With U-Blade, 145 CY/Hour, 450' Push	2.88	
		For >50,000 To 100,000, Deduct	*-0.09*	
		For >100,000 To 200,000, Deduct	*-0.17*	
		For >200,000 To 500,000, Deduct	*-0.26*	
		For >500,000 To 1,000,000, Deduct	*-0.35*	
		For >1,000,000, Deduct	*-0.43*	
02 66 13 00-0028	CY	Ash Matrix Excavation, D-10 Dozer, Light Material 700 HP With U-Blade, 185 CY/Hour, 450' Push	2.48	
		For >50,000 To 100,000, Deduct	*-0.07*	
		For >100,000 To 200,000, Deduct	*-0.15*	
		For >200,000 To 500,000, Deduct	*-0.22*	
		For >500,000 To 1,000,000, Deduct	*-0.30*	
		For >1,000,000, Deduct	*-0.37*	

02 66 13 00-0029 Ash Matrix Excavation With Scraper *(02 66 13 00-0005)*

Note: Choose scraper capacity and cycle time.

02 66 13 00-0030 Self-Propelled Scraper Capacity 9 BCY *(02 66 13 00-0029)*

02 66 13 00-0031	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 9 BCY, 9 Cycles Per Hour	5.17	
		For >50,000 To 100,000, Deduct	*-0.16*	
		For >100,000 To 200,000, Deduct	*-0.31*	
		For >200,000 To 500,000, Deduct	*-0.47*	
		For >500,000 To 1,000,000, Deduct	*-0.62*	
		For >1,000,000, Deduct	*-0.78*	
02 66 13 00-0032	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 9 BCY, 13.5 Cycles Per Hour	3.43	
		For >50,000 To 100,000, Deduct	*-0.10*	
		For >100,000 To 200,000, Deduct	*-0.21*	
		For >200,000 To 500,000, Deduct	*-0.31*	
		For >500,000 To 1,000,000, Deduct	*-0.41*	
		For >1,000,000, Deduct	*-0.51*	

02 66 13 00-0033 Self-Propelled Scraper Capacity 16 BCY *(02 66 13 00-0029)*

02 66 13 00-0034	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 16 BCY, 4.5 Cycles Per Hour	8.18	
		For >50,000 To 100,000, Deduct	*-0.25*	
		For >100,000 To 200,000, Deduct	*-0.49*	
		For >200,000 To 500,000, Deduct	*-0.74*	
		For >500,000 To 1,000,000, Deduct	*-0.98*	
		For >1,000,000, Deduct	*-1.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 66 13 00-0035	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 16 BCY, 6 Cycles Per Hour	5.45	
		For >50,000 To 100,000, Deduct	*-0.16*	
		For >100,000 To 200,000, Deduct	*-0.33*	
		For >200,000 To 500,000, Deduct	*-0.49*	
		For >500,000 To 1,000,000, Deduct	*-0.65*	
		For >1,000,000, Deduct	*-0.82*	
02 66 13 00-0036	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 16 BCY, 9 Cycles Per Hour	3.63	
		For >50,000 To 100,000, Deduct	*-0.11*	
		For >100,000 To 200,000, Deduct	*-0.22*	
		For >200,000 To 500,000, Deduct	*-0.33*	
		For >500,000 To 1,000,000, Deduct	*-0.44*	
		For >1,000,000, Deduct	*-0.54*	
02 66 13 00-0037	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 16 BCY, 13.5 Cycles Per Hour	2.41	
		For >50,000 To 100,000, Deduct	*-0.07*	
		For >100,000 To 200,000, Deduct	*-0.14*	
		For >200,000 To 500,000, Deduct	*-0.22*	
		For >500,000 To 1,000,000, Deduct	*-0.29*	
		For >1,000,000, Deduct	*-0.36*	

02 66 13 00-0038 Self-Propelled Scraper Capacity 25 BCY *(02 66 13 00-0029)*

02 66 13 00-0039	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 25 BCY, 4.5 Cycles Per Hour	4.17	
		For >50,000 To 100,000, Deduct	*-0.13*	
		For >100,000 To 200,000, Deduct	*-0.25*	
		For >200,000 To 500,000, Deduct	*-0.38*	
		For >500,000 To 1,000,000, Deduct	*-0.50*	
		For >1,000,000, Deduct	*-0.63*	
02 66 13 00-0040	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 25 BCY, 6 Cycles Per Hour	3.54	
		For >50,000 To 100,000, Deduct	*-0.11*	
		For >100,000 To 200,000, Deduct	*-0.21*	
		For >200,000 To 500,000, Deduct	*-0.32*	
		For >500,000 To 1,000,000, Deduct	*-0.42*	
		For >1,000,000, Deduct	*-0.53*	
02 66 13 00-0041	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 25 BCY, 9 Cycles Per Hour	2.34	
		For >50,000 To 100,000, Deduct	*-0.07*	
		For >100,000 To 200,000, Deduct	*-0.14*	
		For >200,000 To 500,000, Deduct	*-0.21*	
		For >500,000 To 1,000,000, Deduct	*-0.28*	
		For >1,000,000, Deduct	*-0.35*	
02 66 13 00-0042	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 25 BCY, 13.5 Cycles Per Hour	1.56	
		For >50,000 To 100,000, Deduct	*-0.05*	
		For >100,000 To 200,000, Deduct	*-0.09*	
		For >200,000 To 500,000, Deduct	*-0.14*	
		For >500,000 To 1,000,000, Deduct	*-0.19*	
		For >1,000,000, Deduct	*-0.23*	

02 66 13 00-0043 Self-Propelled Scraper Capacity 35 BCY *(02 66 13 00-0029)*

02 66 13 00-0044	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 35 BCY, 4.5 Cycles Per Hour	3.61	
		For >50,000 To 100,000, Deduct	*-0.11*	
		For >100,000 To 200,000, Deduct	*-0.22*	
		For >200,000 To 500,000, Deduct	*-0.32*	
		For >500,000 To 1,000,000, Deduct	*-0.43*	
		For >1,000,000, Deduct	*-0.54*	
02 66 13 00-0045	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 35 BCY, 6 Cycles Per Hour	2.68	
		For >50,000 To 100,000, Deduct	*-0.08*	
		For >100,000 To 200,000, Deduct	*-0.16*	
		For >200,000 To 500,000, Deduct	*-0.24*	
		For >500,000 To 1,000,000, Deduct	*-0.32*	
		For >1,000,000, Deduct	*-0.40*	
02 66 13 00-0046	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 35 BCY, 9 Cycles Per Hour	1.79	
		For >50,000 To 100,000, Deduct	*-0.05*	
		For >100,000 To 200,000, Deduct	*-0.11*	
		For >200,000 To 500,000, Deduct	*-0.16*	
		For >500,000 To 1,000,000, Deduct	*-0.21*	
		For >1,000,000, Deduct	*-0.27*	
02 66 13 00-0047	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 35 BCY, 13.5 Cycles Per Hour	1.19	
		For >50,000 To 100,000, Deduct	*-0.04*	
		For >100,000 To 200,000, Deduct	*-0.07*	
		For >200,000 To 500,000, Deduct	*-0.11*	
		For >500,000 To 1,000,000, Deduct	*-0.14*	
		For >1,000,000, Deduct	*-0.18*	

02 66 13 00-0048 Self-Propelled Scraper Capacity 43 BCY *(02 66 13 00-0029)*

02 66 13 00-0049	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 43 BCY, 4.5 Cycles Per Hour	2.74	
		For >50,000 To 100,000, Deduct	*-0.08*	
		For >100,000 To 200,000, Deduct	*-0.16*	
		For >200,000 To 500,000, Deduct	*-0.25*	
		For >500,000 To 1,000,000, Deduct	*-0.33*	
		For >1,000,000, Deduct	*-0.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 66 13 00-0050	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 43 BCY, 6 Cycles Per Hour	2.16	
		For >50,000 To 100,000, Deduct	*-0.06*	
		For >100,000 To 200,000, Deduct	*-0.13*	
		For >200,000 To 500,000, Deduct	*-0.19*	
		For >500,000 To 1,000,000, Deduct	*-0.26*	
		For >1,000,000, Deduct	*-0.32*	
02 66 13 00-0051	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 43 BCY, 9 Cycles Per Hour	1.44	
		For >50,000 To 100,000, Deduct	*-0.04*	
		For >100,000 To 200,000, Deduct	*-0.09*	
		For >200,000 To 500,000, Deduct	*-0.13*	
		For >500,000 To 1,000,000, Deduct	*-0.17*	
		For >1,000,000, Deduct	*-0.22*	
02 66 13 00-0052	CY	Ash Matrix With Push Loaded Self-Propelled Scraper 43 BCY, 13.5 Cycles Per Hour	0.97	
		For >50,000 To 100,000, Deduct	*-0.03*	
		For >100,000 To 200,000, Deduct	*-0.06*	
		For >200,000 To 500,000, Deduct	*-0.09*	
		For >500,000 To 1,000,000, Deduct	*-0.12*	
		For >1,000,000, Deduct	*-0.15*	

02 66 13 00-0053 Ash Matrix Excavation With Excavator *(02 66 13 00-0005)*

Note: Includes loading into truck, hauling and placement.

02 66 13 00-0054	CY	Ash Matrix Excavate, Load, Haul And Place Soil At Landfill	4.85	
		For >50,000 To 100,000, Deduct	*-0.15*	
		For >100,000 To 200,000, Deduct	*-0.29*	
		For >200,000 To 500,000, Deduct	*-0.44*	
		For >500,000 To 1,000,000, Deduct	*-0.58*	
		For >1,000,000, Deduct	*-0.73*	

02 66 23 Secure Landfill Construction *(02 66)*

02 66 23 00-0001 Secure Burial Cell Construction *(02 66 23)*

02 66 23 00-0002 Polymeric Liner And Cover System *(02 66 23 00-0001)*

02 66 23 00-0003 Very Low Density Polyethylene Liner *(02 66 23 00-0002)*

02 66 23 00-0004	SF	20 Mil Very Low Density Polyethylene Liner	2.80	
02 66 23 00-0005	SF	30 Mil Very Low Density Polyethylene Liner	4.15	
02 66 23 00-0006	SF	40 Mil Very Low Density Polyethylene Liner	4.78	
02 66 23 00-0007	SF	50 Mil Very Low Density Polyethylene Liner	5.87	
02 66 23 00-0008	SF	60 Mil Very Low Density Polyethylene Liner	7.07	
02 66 23 00-0009	SF	70 Mil Very Low Density Polyethylene Liner	7.74	
02 66 23 00-0010	SF	80 Mil Very Low Density Polyethylene Liner	8.70	
02 66 23 00-0011	SF	90 Mil Very Low Density Polyethylene Liner	9.75	
02 66 23 00-0012	SF	100 Mil Very Low Density Polyethylene Liner	11.79	

02 66 23 00-0013 Chlorosulfonated Polyethylene (CSPE) Liner *(02 66 23 00-0002)*

02 66 23 00-0014	SF	36 Mil Chlorosulfonated Polyethylene (CSPE) Liner	3.92	
02 66 23 00-0015	SF	45 Mil Chlorosulfonated Polyethylene (CSPE) Liner	4.11	

02 66 23 00-0016 Polyvinyl Chloride (PVC) Liner *(02 66 23 00-0002)*

02 66 23 00-0017	SF	20 Mil Polyvinyl Chloride Liner	0.72	
02 66 23 00-0018	SF	30 Mil Polyvinyl Chloride Liner	1.06	
02 66 23 00-0019	SF	40 Mil Polyvinyl Chloride Liner	1.34	
02 66 23 00-0020	SF	50 Mil Polyvinyl Chloride Liner	1.64	
02 66 23 00-0021	SF	60 Mil Polyvinyl Chloride Liner	1.99	
02 66 23 00-0022	SF	70 Mil Polyvinyl Chloride Liner	2.32	
02 66 23 00-0023	SF	80 Mil Polyvinyl Chloride Liner	2.64	
02 66 23 00-0024	SF	90 Mil Polyvinyl Chloride Liner	2.92	
02 66 23 00-0025	SF	100 Mil Polyvinyl Chloride Liner	3.29	

02 66 23 00-0026 Rough Textured High-Density Polyethylene (HDPE) Liner *(02 66 23 00-0002)*

Note: Greatly increases slope stability.

02 66 23 00-0027	SF	40 Mil High-Density Polyethylene (HDPE) Liner	4.91	
02 66 23 00-0028	SF	60 Mil High-Density Polyethylene (HDPE) Liner	6.95	
02 66 23 00-0029	SF	80 Mil High-Density Polyethylene (HDPE) Liner	8.69	

02 66 23 00-0030 Soil And Admixed Liner And Cover *(02 66 23 00-0001)*

02 66 23 00-0031 Soil/Bentonite Liners *(02 66 23 00-0030)*

Note: Low contaminant resistant is for caps. Medium resists 10,000 PPM salts. High resists salts to 100,000 PPM.

02 66 23 00-0032	TON	High Efficiency/Low Contaminant Resistant Bentonite	604.10	
02 66 23 00-0033	TON	High Contaminant Resistant Bentonite Resists Salts Up To 100,000 PPM	836.99	
02 66 23 00-0034	TON	Contaminant Resistant Bentonite Tank Farm Liners - (Chemical Storage)	856.00	
02 66 23 00-0035	TON	90 BBL Yield Bentonite No Contamination Resistance	475.56	
02 66 23 00-0036	TON	125 BBL Yield Bentonite No Contamination Resistance	507.26	
02 66 23 00-0037	TON	180 BBL Yield Bentonite No Contamination Resistance	589.69	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 66 23 00-0038	SF	Liner/Cap Installed - Cost Per 6 Lift - 4 Lb./SF Bentonite	2.52	
02 66 23 00-0039	TON	High Efficiency/Medium Contaminant Resistant Bentonite	735.82	
02 66 23 00-0040		Geocomposite Lining Systems *(02 66 23 00-0001)*		
02 66 23 00-0041		Polypropylene/Bentonite Sandwich Sheets *(02 66 23 00-0040)*		
02 66 23 00-0042	SF	1/4" Thick Geocomposite Installed On Soil Or Aggregate Base	2.48	
02 66 23 00-0043	SF	1/4" Thick Geocomposite Installed On Polymeric Base	3.86	
02 66 23 00-0044		Liner And Dike Support *(02 66 23 00-0001)*		
02 66 23 00-0045		Geogrid *(02 66 23 00-0044)*		
		Note: Composite grip layer matting is used to hold topsoil with low cohesive strength over flexible liners.		
02 66 23 00-0046	SF	Biaxial, 9.8' x 164' Rolls Tensile Modulus = 14,000 Lb./SF	0.51	
02 66 23 00-0047	SF	Biaxial, 13.1' x 164' Rolls Tensile Modulus = 14,000 Lb./SF	0.50	
02 66 23 00-0048	SF	Biaxial, 9.8' x 164' Rolls Tensile Modulus = 18,500 Lb./SF	0.77	
02 66 23 00-0049	SF	Biaxial, 13.1' x 164' Rolls Tensile Modulus = 18,500 Lb./SF	0.76	
02 66 23 00-0050	SF	Uniaxial, 4.3' x 98' Rolls Tensile Modulus = 50,000 Lb./SF	1.42	
02 66 23 00-0051	SF	Uniaxial, 3.3' x 98' Rolls Tensile Modulus = 100,000 Lb./SF	2.31	
02 66 23 00-0052	SF	Uniaxial, 4.3' x 98' Rolls Tensile Modulus = 100,000 Lb./SF	2.33	
02 66 23 00-0053	SF	Uniaxial, 4.3' x 98' Rolls Tensile Modulus = 130,000 Lb./SF	2.75	
02 66 23 00-0054	SF	Composite Grip Layer Mat - Nylon Geomatrix/Polyvinyl Chloride (PVC) Coated Polyester	4.07	
02 66 23 00-0055		Slurry Wall Installation *(02 66 23)*		
02 66 23 00-0056	CY	Level And Compact Working Surface	11.85	
02 66 23 00-0057	CY	Construct Dike For Mixing Basin	11.85	
02 66 23 00-0058	CY	Normal Soil, 26" - 75" Slurry Wall Excavation	11.53	
02 66 23 00-0059	CY	Clay/Sand With Boulders, 26" - 75" Slurry Wall Excavation	17.12	
02 66 23 00-0060	CY	Normal Soil, 76" - 120" Slurry Wall Excavation	19.22	
02 66 23 00-0061	CWT	Clay/Sand With Boulders, 76" - 120" Slurry Wall Excavation	28.68	
02 66 23 00-0062	GAL	Slurry Mixing, Hydration, And Placement, Per Gallon	0.17	
02 66 23 00-0063	CY	Soil, Bentonite Backfill Mixing	5.71	
02 66 23 00-0064	CY	Backfill Slurry Wall Trench	4.94	
02 66 23 00-0065	SF	Cleanup And Re-Grade Working Surface	0.16	

02 80 Facility Remediation *(02)*

02 81 Transportation and Disposal of Hazardous Materials *(02 80)*

02 81 00 00-0001		Equipment Oil Drain And Disposal *(02 81)*		
02 81 00 00-0002	TRIP	Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site Note: Excludes Disposal Cost.	695.06	
02 81 00 00-0003	DRM	Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum Note: Excludes draining, placing in approved container, and transporting to disposal site.	109.22	
02 81 00 00-0004	DRM	Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum Note: Excludes draining, placing in approved container, and transporting to disposal site.	496.48	
02 81 00 00-0005	DRM	Disposal of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum Note: Excludes draining, placing in approved container, and transporting to disposal site.	893.66	
02 81 00 00-0006	CF	Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.	119.20	

02 82 Asbestos Remediation *(02 80)*

See CSI section 01 56 16 00-0043 for temporary stud walls, 01 74 19 00-0043 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0020 for decontamination chambers.

02 82 13 Asbestos Abatement *(02 82)*

02 82 13 00-0001		Air Monitoring And Bulk Sampling, Asbestos Testing *(02 82 13)* Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.		
02 82 13 00-0002	HR	Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	103.48	
02 82 13 00-0003	EA	48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	64.66	
02 82 13 00-0004	EA	Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	75.81	
02 82 13 00-0005	EA	Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	120.41	
02 82 13 00-0006	EA	48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	207.37	
02 82 13 00-0007	EA	Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	251.97	
02 82 13 00-0008	EA	48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing	51.29	
02 82 13 00-0009	EA	Next Day Turnaround, (Air) PCM Test, Asbestos Testing	62.43	
02 82 13 00-0010	EA	Same Day Turnaround, (Air) PCM Test, Asbestos Testing	84.73	
02 82 13 00-0011	EA	48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	64.66	
02 82 13 00-0012	EA	Next Day Turnaround, (Air Point Counting) PLM Test	75.81	
02 82 13 00-0013	EA	Same Day Turnaround, (Air Point Counting) PLM Test	120.41	
02 82 13 00-0014	EA	48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	207.37	
02 82 13 00-0015	EA	Next Day Turnaround, (Air) TEM Test, Asbestos Testing	238.59	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 13 00-0016	EA	Same Day Turnaround, (Air) TEM Test, Asbestos Testing	332.24	

02 82 16 Engineering Control of Asbestos Containing Materials *(02 82)*

02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) *(02 82 16)*

02 82 16 00-0002	SF	Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat	1.77	
02 82 16 00-0003	SF	Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound)	2.41	
02 82 16 00-0004	SF	Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	2.62	
02 82 16 00-0005	SF	Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	2.84	
02 82 16 00-0006	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®)	8.80	
02 82 16 00-0007	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	9.98	

02 82 33 Removal and Disposal of Asbestos Containing Materials *(02 82)*

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, cleanup, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. The SET task includes portion for set-up and mobilization. For those tasks the contractor will be paid the first task of SET with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal *(02 82 33)*

02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0001)*

Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.

02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0002)*

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

02 82 33 00-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,297.01	
		For Work In Restricted Working Space, Add	*384.16*	
02 82 33 00-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	44.48	
		For Work In Restricted Working Space, Add	*13.10*	
02 82 33 00-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	33.56	
		For Work In Restricted Working Space, Add	*9.82*	
02 82 33 00-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	25.37	
		For Work In Restricted Working Space, Add	*7.37*	
02 82 33 00-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	19.23	
		For Work In Restricted Working Space, Add	*5.52*	
02 82 33 00-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	16.84	
		For Work In Restricted Working Space, Add	*4.81*	

02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0002)*

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

02 82 33 00-0011	SET	Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,313.48	
		For Work In Restricted Working Space, Add	*384.16*	
02 82 33 00-0012	LF	>20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	51.85	
		For Work In Restricted Working Space, Add	*15.06*	
02 82 33 00-0013	LF	>250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	39.29	
		For Work In Restricted Working Space, Add	*11.29*	
02 82 33 00-0014	LF	>500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	29.89	
		For Work In Restricted Working Space, Add	*8.47*	
02 82 33 00-0015	LF	>2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	22.82	
		For Work In Restricted Working Space, Add	*6.35*	
02 82 33 00-0016	LF	>10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	20.07	
		For Work In Restricted Working Space, Add	*5.53*	

02 82 33 00-0017 >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0002)*

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

02 82 33 00-0018	SET	Up To 20 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,329.95	
		For Work In Restricted Working Space, Add	*384.16*	
02 82 33 00-0019	LF	>20 To 250 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	69.14	
		For Work In Restricted Working Space, Add	*20.08*	
02 82 33 00-0020	LF	>250 To 500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	52.39	
		For Work In Restricted Working Space, Add	*15.06*	
02 82 33 00-0021	LF	>500 To 2,500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	39.84	
		For Work In Restricted Working Space, Add	*11.29*	
02 82 33 00-0022	LF	>2,500 To 10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	30.43	
		For Work In Restricted Working Space, Add	*8.47*	
02 82 33 00-0023	LF	>10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	26.75	
		For Work In Restricted Working Space, Add	*7.37*	

02 82 33 00-0024 >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0002)*

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0025	SET	Up To 20 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,346.42	
		For Work In Restricted Working Space, Add	*384.16*	
02 82 33 00-0026	LF	>20 To 250 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	95.07	
		For Work In Restricted Working Space, Add	*27.62*	
02 82 33 00-0027	LF	>250 To 500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	72.04	
		For Work In Restricted Working Space, Add	*20.71*	
02 82 33 00-0028	LF	>500 To 2,500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	54.79	
		For Work In Restricted Working Space, Add	*15.53*	
02 82 33 00-0029	LF	>2,500 To 10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	41.83	
		For Work In Restricted Working Space, Add	*11.64*	
02 82 33 00-0030	LF	>10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	36.78	
		For Work In Restricted Working Space, Add	*10.13*	

02 82 33 00-0031 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0002)*

Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.

02 82 33 00-0032	SET	Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal	832.81	
		For Work In Restricted Working Space, Add	*248.36*	
02 82 33 00-0033	LF	>3 To 20 LF Additional Glove Bag Work for Pipe Insulation	139.63	
		For Work In Restricted Working Space, Add	*41.39*	
02 82 33 00-0034	LF	>20 To 250 LF Additional Glove Bag Work for Pipe Insulation	55.21	
		For Work In Restricted Working Space, Add	*16.07*	
02 82 33 00-0035	LF	>250 To 500 LF Additional Glove Bag Work for Pipe Insulation	41.81	
		For Work In Restricted Working Space, Add	*12.05*	
02 82 33 00-0036	LF	>500 LF Additional Glove Bag Work for Pipe Insulation	31.77	
		For Work In Restricted Working Space, Add	*9.04*	

02 82 33 00-0037 Thermal Insulation, Asbestos Abatement And Disposal *(02 82 33)*

02 82 33 00-0038 Calcium Block Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0037)*

02 82 33 00-0039	SET	Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	1,288.78	
02 82 33 00-0040	SF	>10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	52.99	
02 82 33 00-0041	SF	>500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	43.72	
02 82 33 00-0042	SF	>2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	35.11	
02 82 33 00-0043	SF	>10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	28.67	

02 82 33 00-0044 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0037)*

02 82 33 00-0045	SET	Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	1,284.66	
02 82 33 00-0046	SF	>10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	46.62	
02 82 33 00-0047	SF	>500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	37.35	
02 82 33 00-0048	SF	>2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	28.75	
02 82 33 00-0049	SF	>10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	22.30	

02 82 33 00-0050 Fibrous Glass Board Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0037)*

02 82 33 00-0051	SET	Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	1,283.29	
02 82 33 00-0052	SF	>10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	41.36	
02 82 33 00-0053	SF	>500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	32.09	
02 82 33 00-0054	SF	>2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	23.48	
02 82 33 00-0055	SF	>10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	17.03	

02 82 33 00-0056 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal *(02 82 33 00-0037)*

Note: e.g., duct, boiler, tank, etc.

02 82 33 00-0057	SET	Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	1,290.83	
02 82 33 00-0058	SF	>25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	44.07	
02 82 33 00-0059	SF	>500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	34.80	
02 82 33 00-0060	SF	>2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	26.19	
02 82 33 00-0061	SF	>10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	19.75	

02 82 33 00-0062 Surfacing Material, Asbestos Abatement And Disposal *(02 82 33)*

02 82 33 00-0063 Fireproofing For Small Areas, Asbestos Abatement And Disposal *(02 82 33 00-0062)*

Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0065 for areas > 1 SF see CSI section.

02 82 33 00-0064	EA	Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.	213.83	

02 82 33 00-0065 Fireproofing, Asbestos Abatement And Disposal *(02 82 33 00-0062)*

Note: Exposed surface area, includes associated overspray.

02 82 33 00-0066	SET	Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal	1,290.83	
02 82 33 00-0067	SF	>25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal	52.78	
02 82 33 00-0068	SF	>500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal	39.68	
02 82 33 00-0069	SF	>2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal	29.86	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0070	SF	>10,000 SF, Fireproofing, Asbestos Abatement And Disposal	22.49	
02 82 33 00-0071		**Acoustical Plaster, Asbestos Abatement And Disposal** *(02 82 33 00-0062)*		
		Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0072	SET	Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal	1,287.40	
02 82 33 00-0073	SF	>25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	22.14	
02 82 33 00-0074	SF	>500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	16.81	
02 82 33 00-0075	SF	>2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	12.54	
02 82 33 00-0076	SF	>10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	9.34	
02 82 33 00-0077		**Gypsum Wall Board, Asbestos Abatement And Disposal** *(02 82 33 00-0062)*		
02 82 33 00-0078	SET	Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	1,294.27	
		For Additional Layer, Add	*352.15*	
02 82 33 00-0079	SF	>50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	17.08	
		For Additional Layer, Add	*4.62*	
02 82 33 00-0080	SF	>500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	12.54	
		For Additional Layer, Add	*3.37*	
02 82 33 00-0081	SF	>2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	9.87	
		For Additional Layer, Add	*2.64*	
02 82 33 00-0082	SF	>10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	7.74	
		For Additional Layer, Add	*2.05*	
02 82 33 00-0083	SF	>50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	6.13	
		For Additional Layer, Add	*1.61*	
02 82 33 00-0084	SF	>100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	4.96	
		For Additional Layer, Add	*1.29*	
02 82 33 00-0085		**Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal** *(02 82 33 00-0062)*		
02 82 33 00-0086	SET	Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	1,287.40	
02 82 33 00-0087	SF	>25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	32.18	
02 82 33 00-0088	SF	>500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	23.64	
02 82 33 00-0089	SF	>2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	18.52	
02 82 33 00-0090	SF	>10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	14.47	
02 82 33 00-0091	SF	>50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	10.41	
02 82 33 00-0092		**Stucco, Asbestos Abatement And Disposal** *(02 82 33 00-0062)*		
02 82 33 00-0093	SET	Up To 50 SF, Stucco, Asbestos Abatement And Disposal	1,294.27	
02 82 33 00-0094	SF	>50 To 500 SF, Stucco, Asbestos Abatement And Disposal	28.11	
02 82 33 00-0095	SF	>500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal	21.12	
02 82 33 00-0096	SF	>2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal	15.94	
02 82 33 00-0097	SF	>10,000 SF, Stucco, Asbestos Abatement And Disposal	12.01	
02 82 33 00-0098		**Spray On Acoustical Ceiling, Asbestos Abatement And Disposal** *(02 82 33 00-0062)*		
02 82 33 00-0099	SET	Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	1,294.27	
02 82 33 00-0100	SF	>50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	14.50	
02 82 33 00-0101	SF	>500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	11.22	
02 82 33 00-0102	SF	>2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	8.27	
02 82 33 00-0103	SF	>10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	6.26	
02 82 33 00-0104		**Plywood, Asbestos Abatement And Disposal** *(02 82 33 00-0062)*		
02 82 33 00-0105	SET	Up To 40 SF, Plywood, Asbestos Abatement And Disposal	1,291.52	
02 82 33 00-0106	SF	>50 To 500 SF, Plywood, Asbestos Abatement And Disposal	18.41	
02 82 33 00-0107	SF	>500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal	9.00	
02 82 33 00-0108	SF	>2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal	6.17	
02 82 33 00-0109	SF	>10,000 SF, Plywood, Asbestos Abatement And Disposal	5.28	
02 82 33 00-0110		**Flooring Material, Asbestos Abatement And Disposal** *(02 82 33)*		
02 82 33 00-0111		**Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal** *(02 82 33 00-0110)*		
02 82 33 00-0112		**Floor Tile, Asbestos Abatement And Disposal** *(02 82 33 00-0111)*		
		Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0113	SET	Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	1,283.29	
		For Each Additional Layer, Add	*192.49*	
02 82 33 00-0114	SF	>100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	9.00	
		For Each Additional Layer, Add	*1.35*	
02 82 33 00-0115	SF	>500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	7.37	
		For Each Additional Layer, Add	*1.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0116	SF	>2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	5.87	
		For Each Additional Layer, Add	*0.88*	
02 82 33 00-0117	SF	>10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	4.06	
		For Each Additional Layer, Add	*0.61*	
02 82 33 00-0118		**Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal** *(02 82 33 00-0111)*		
		Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0119	SET	Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal	1,283.29	
		For Each Additional Layer, Add	*192.49*	
02 82 33 00-0120	SF	>100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal	9.00	
		For Each Additional Layer, Add	*1.35*	
02 82 33 00-0121	SF	>500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal	7.39	
		For Each Additional Layer, Add	*1.11*	
02 82 33 00-0122	SF	>2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal	6.71	
		For Each Additional Layer, Add	*1.01*	
02 82 33 00-0123	SF	>10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal	5.42	
		For Each Additional Layer, Add	*0.81*	
02 82 33 00-0124		**Carpet, Asbestos Abatement And Disposal** *(02 82 33 00-0111)*		
02 82 33 00-0125	SET	Up To 100 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal	1,283.29	
02 82 33 00-0126	SF	>100 To 500 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal	7.05	
02 82 33 00-0127	SF	>500 To 2,500 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal	5.71	
02 82 33 00-0128	SF	>2,500 To 10,000 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal	4.17	
02 82 33 00-0129	SF	>10,000 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal	3.17	
02 82 33 00-0130		**Wall Or Cove Base, Asbestos Abatement And Disposal** *(02 82 33 00-0111)*		
		Note: Up to 12".		
02 82 33 00-0131	SET	Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal	430.28	
02 82 33 00-0132	LF	>25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal	5.83	
02 82 33 00-0133	LF	>100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal	3.56	
02 82 33 00-0134	LF	>500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal	2.28	
02 82 33 00-0135	LF	>2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal	1.64	
02 82 33 00-0136		**Mastic, Asbestos Abatement And Disposal** *(02 82 33 00-0110)*		
		Note: Applies to single layer or bottom layer only of multiple layers. Non-hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0137	SET	Up To 100 SF, Mastic, Asbestos Abatement And Disposal	1,287.41	
		Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0138	SF	>100 To 500 SF, Mastic, Asbestos Abatement And Disposal	3.26	
		Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0139	SF	>500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal	2.41	
		Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0140	SF	>2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal	1.87	
		Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0141	SF	>10,000 SF, Mastic, Asbestos Abatement And Disposal	1.51	
		Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0142		**Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal** *(02 82 33 00-0110)*		
		Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		
02 82 33 00-0143	SET	Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	1,308.00	
02 82 33 00-0144	SF	>100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	10.36	
02 82 33 00-0145	SF	>500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	7.63	
02 82 33 00-0146	SF	>2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	6.03	
02 82 33 00-0147	SF	>10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	4.75	
02 82 33 00-0148		**Mastic Contaminated Wood Sub-Flooring, Asbestos Abatement And Disposal** *(02 82 33 00-0110)*		
		Note: Includes removal of all anchors.		
02 82 33 00-0149	SF	Mastic-Contaminated Wood Sub-Flooring, Asbestos Abatement And Disposal	4.62	
		Note: Includes removal of all anchors.		
02 82 33 00-0150		**Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal** *(02 82 33 00-0110)*		
02 82 33 00-0151	SET	Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal	1,294.26	
02 82 33 00-0152	SF	>100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal	11.56	
02 82 33 00-0153	SF	>500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal	7.61	
		Note: Includes detachment of mounted objects before removal.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0154	SF	>2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal	6.00	
02 82 33 00-0155	SF	>10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal	4.94	
02 82 33 00-0156		Roofing, Asbestos Abatement And Disposal *(02 82 33)*		
02 82 33 00-0157		Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal *(02 82 33 00-0156)* Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.		
02 82 33 00-0158		Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal *(02 82 33 00-0157)*		
02 82 33 00-0159	SET	Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	1,314.86	
02 82 33 00-0160	SF	>125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	8.45	
02 82 33 00-0161	SF	>1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	6.83	
02 82 33 00-0162	SF	>5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	5.51	
02 82 33 00-0163	SF	>10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	4.20	
02 82 33 00-0164	SF	>20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	3.22	
02 82 33 00-0165		>2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal *(02 82 33 00-0157)*		
02 82 33 00-0166	SET	Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	1,340.93	
02 82 33 00-0167	SF	>110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	9.87	
02 82 33 00-0168	SF	>1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	7.98	
02 82 33 00-0169	SF	>5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	6.53	
02 82 33 00-0170	SF	>10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	5.03	
02 82 33 00-0171	SF	>20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	3.90	
02 82 33 00-0172		>5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal *(02 82 33 00-0157)*		
02 82 33 00-0173	SET	Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	1,371.13	
02 82 33 00-0174	SF	>110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	11.18	
02 82 33 00-0175	SF	>1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	9.07	
02 82 33 00-0176	SF	>5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	7.47	
02 82 33 00-0177	SF	>10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	5.80	
02 82 33 00-0178	SF	>20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	4.54	
02 82 33 00-0179		Shingles And Felt Roofing, Asbestos Abatement And Disposal *(02 82 33 00-0156)*		
02 82 33 00-0180		Shingles And Felt Roofing, Asbestos Abatement And Disposal *(02 82 33 00-0179)*		
02 82 33 00-0181	SET	Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	1,289.12	
02 82 33 00-0182	SF	>125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	8.25	
		For Each Additional Layer, Add	*1.65*	
02 82 33 00-0183	SF	>1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	6.63	
		For Each Additional Layer, Add	*1.33*	
02 82 33 00-0184	SF	>5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	5.31	
		For Each Additional Layer, Add	*1.06*	
02 82 33 00-0185	SF	>10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	4.00	
		For Each Additional Layer, Add	*0.80*	
02 82 33 00-0186	SF	>20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	3.02	
		For Each Additional Layer, Add	*0.60*	
02 82 33 00-0187		Roof Penetration Mastic, Asbestos Abatement And Disposal *(02 82 33 00-0156)*		
02 82 33 00-0188	SET	Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	427.54	
02 82 33 00-0189	SF	>10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	3.27	
02 82 33 00-0190	SF	>50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	2.70	
02 82 33 00-0191	SF	>100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	2.19	
02 82 33 00-0192	SF	>250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	1.60	
02 82 33 00-0193		Roof Curb Mastic, Asbestos Abatement And Disposal *(02 82 33 00-0156)*		
02 82 33 00-0194	SET	Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	427.54	
02 82 33 00-0195	LF	>10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	9.67	
02 82 33 00-0196	LF	>20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	7.75	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0197	LF	>50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	6.48	
02 82 33 00-0198	LF	>150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	4.68	
02 82 33 00-0199		Asbestos-Cement Products, Asbestos Abatement And Disposal *(02 82 33)*		
02 82 33 00-0200		Interior Asbestos-Cement Board, Asbestos Abatement And Disposal *(02 82 33 00-0199)*		
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0201	SET	Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	1,294.26	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0202	SF	>100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	8.87	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0203	SF	>500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	4.50	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0204	SF	>2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	3.63	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0205	SF	>10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	3.17	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0206		Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal *(02 82 33 00-0199)*		
02 82 33 00-0207	SET	Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	1,294.26	
02 82 33 00-0208	SF	>100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	7.72	
02 82 33 00-0209	SF	>500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	4.02	
02 82 33 00-0210	SF	>2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	3.25	
02 82 33 00-0211	SF	>10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.84	
02 82 33 00-0212		Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal *(02 82 33 00-0199)*		
02 82 33 00-0213	SET	Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	1,083.58	
02 82 33 00-0214	LF	>10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	45.31	
02 82 33 00-0215	LF	>100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	34.39	
02 82 33 00-0216	LF	>250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	26.20	
02 82 33 00-0217	LF	>500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	20.06	
02 82 33 00-0218	LF	>2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	15.46	
02 82 33 00-0219	LF	>10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	15.13	
02 82 33 00-0220		Exterior Transite Siding, Asbestos Abatement And Disposal *(02 82 33 00-0199)*		
02 82 33 00-0221	SET	Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	1,303.80	
		Note: Single or first of multiple layers.		
02 82 33 00-0222	SF	>125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	6.96	
		Note: Single or first of multiple layers.		
02 82 33 00-0223	SF	>1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	5.60	
		Note: Single or first of multiple layers.		
02 82 33 00-0224	SF	>5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	4.50	
		Note: Single or first of multiple layers.		
02 82 33 00-0225	SF	>10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	3.42	
		Note: Single or first of multiple layers.		
02 82 33 00-0226	SF	>20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	2.60	
		Note: Single or first of multiple layers.		
02 82 33 00-0227		Asbestos Contaminated Debris, Asbestos Abatement And Disposal *(02 82 33)*		
02 82 33 00-0228		Asbestos Contaminated Dust And Minor Debris Collection In All Areas, Asbestos Abatement And Disposal *(02 82 33 00-0227)*		
		Note: For non-attic/crawl space surface cleaning including walls, floors, equipment, and furniture.		
02 82 33 00-0229	SET	Up To 10 SF, Asbestos Contaminated Dust And Minor Debris Collection In All Areas, Asbestos Abatement And Disposal	641.64	
02 82 33 00-0230	SF	>10 To 100 SF, Asbestos Contaminated Dust And Minor Debris Collection In All Areas, Asbestos Abatement And Disposal	1.18	
02 82 33 00-0231	SF	>100 To 500 SF, Asbestos Contaminated Dust And Minor Debris Collection In All Areas, Asbestos Abatement And Disposal	0.78	
02 82 33 00-0232	SF	>500 To 1,000 SF, Asbestos Contaminated Dust And Minor Debris Collection In All Areas, Asbestos Abatement And Disposal	0.64	
02 82 33 00-0233	SF	>1,000 SF, Asbestos Contaminated Dust And Minor Debris Collection In All Areas, Asbestos Abatement And Disposal	0.55	
02 82 33 00-0234		Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal *(02 82 33 00-0227)*		
02 82 33 00-0235	SET	Up To 10 SF, Up To 4" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	859.18	
02 82 33 00-0236	SF	>10 To 100 SF, Up To 4" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	21.89	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0237	SF	>100 To 250 SF, Up To 4" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	14.96	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0238	SF	>250 To 500 SF, Up To 4" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	11.22	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0239	SF	>500 To 2,500 SF, Up To 4" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	9.09	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0240	SF	>2,500 To 10,000 SF, Up To 4" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	8.02	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0241	SF	>10,000 SF, Up To 4" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	6.96	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0242	SET	Up To 10 SF, >4" To 7" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	1,076.72	
02 82 33 00-0243	SF	>10 To 100 SF, >4" To 7" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	43.38	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0244	SF	>100 To 250 SF, >4" To 7" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	29.26	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0245	SF	>250 To 500 SF, >4" To 7" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	22.21	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0246	SF	>500 To 2,500 SF, >4" To 7" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	17.94	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0247	SF	>2,500 To 10,000 SF, >4" To 7" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	15.39	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0248	SF	>10,000 SF, >4" To 7" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	13.94	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0249	SET	Up To 10 SF, >7" To 12" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	1,297.01	
02 82 33 00-0250	SF	>10 To 100 SF, >7" To 12" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	86.54	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0251	SF	>100 To 250 SF, >7" To 12" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	58.24	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0252	SF	>250 To 500 SF, >7" To 12" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	44.16	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0253	SF	>500 To 2,500 SF, >7" To 12" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	35.60	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	
02 82 33 00-0254	SF	>2,500 To 10,000 SF, >7" To 12" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	30.51	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0255	SF	>10,000 SF, >7" To 12" Thick, Asbestos Contaminated Bulk Debris And Dust Collection In Attic Or Crawl Spaces, Asbestos Abatement And Disposal	27.62	
		For Batt Insulation Removal, Add	*2.00*	
		For Encapsulated Soil, Add	*1.00*	
		For Work In Restricted Working Space, Add	*1.00*	

02 82 33 00-0256 Asbestos Contaminated Debris, Asbestos Abatement And Disposal *(02 82 33 00-0227)*

02 82 33 00-0257	SET	Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	870.16	
		For Work In Restricted Working Space, Add	*256.11*	
02 82 33 00-0258	CF	>10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	86.54	
		For Work In Restricted Working Space, Add	*25.47*	
02 82 33 00-0259	CF	>100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	58.24	
		For Work In Restricted Working Space, Add	*16.98*	
02 82 33 00-0260	CF	>250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	44.16	
		For Work In Restricted Working Space, Add	*12.75*	
02 82 33 00-0261	CF	>500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	35.60	
		For Work In Restricted Working Space, Add	*10.19*	
02 82 33 00-0262	CF	>2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	30.51	
		For Work In Restricted Working Space, Add	*8.66*	
02 82 33 00-0263	CF	>10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	27.62	
		For Work In Restricted Working Space, Add	*7.79*	

02 82 33 00-0264 Other Asbestos Containing Materials, Asbestos Abatement And Disposal *(02 82 33)*

02 82 33 00-0265 30" To 36" Fire Door, Asbestos Abatement And Disposal *(02 82 33 00-0264)*

02 82 33 00-0266	SET	Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	434.26	
02 82 33 00-0267	EA	>1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	161.07	
02 82 33 00-0268	EA	>20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	145.70	

02 82 33 00-0269 HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal *(02 82 33 00-0264)*

02 82 33 00-0270	SET	Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	427.19	
02 82 33 00-0271	LF	>10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	8.76	
02 82 33 00-0272	LF	>50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	6.58	
02 82 33 00-0273	LF	>100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	5.66	
02 82 33 00-0274	LF	>250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	4.87	
02 82 33 00-0275	LF	>1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	4.18	
02 82 33 00-0276	LF	>2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.61	

02 82 33 00-0277 Grout, Asbestos Abatement And Disposal *(02 82 33 00-0264)*

Note: e.g. flue grout.

02 82 33 00-0278	SET	Up To 10 LF, Grout, Asbestos Abatement And Disposal	427.08	
02 82 33 00-0279	LF	>10 To 50 LF, Grout, Asbestos Abatement And Disposal	16.83	
02 82 33 00-0280	LF	>50 To 100 LF, Grout, Asbestos Abatement And Disposal	11.59	
02 82 33 00-0281	LF	>100 To 250 LF, Grout, Asbestos Abatement And Disposal	9.93	
02 82 33 00-0282	LF	>250 To 1,000 LF, Grout, Asbestos Abatement And Disposal	8.53	
02 82 33 00-0283	LF	>1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal	7.35	
02 82 33 00-0284	LF	>2,500 LF, Grout, Asbestos Abatement And Disposal	6.31	

02 82 33 00-0285 Gaskets, Asbestos Abatement And Disposal *(02 82 33 00-0264)*

Note: e.g. rope, web cloth, flat.

02 82 33 00-0286	SET	Up To 10 LF, Gaskets, Asbestos Abatement And Disposal	427.19	
02 82 33 00-0287	LF	>10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	22.67	
02 82 33 00-0288	LF	>50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	17.01	
02 82 33 00-0289	LF	>250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	14.49	
02 82 33 00-0290	LF	>500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	13.05	
02 82 33 00-0291	LF	>1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	11.73	
02 82 33 00-0292	LF	>2,500 LF, Gaskets, Asbestos Abatement And Disposal	11.16	

02 82 33 00-0293 Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal *(02 82 33 00-0264)*

Note: e.g. grid, spline, or glued on.

02 82 33 00-0294	SET	Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal Note: Including Glue Removal	860.55	
02 82 33 00-0295	SF	>50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal Note: Including Glue Removal	18.28	
02 82 33 00-0296	SF	>1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal Note: Including Glue Removal	8.87	
02 82 33 00-0297	SF	>2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal Note: Including Glue Removal	6.04	
02 82 33 00-0298	SF	>10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal Note: Including Glue Removal	5.15	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0299		Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
		Note: Includes ceiling tile, asbestos barrier paper, and furring strips.		
02 82 33 00-0300	SET	Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	857.39	
02 82 33 00-0301	SF	>50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	18.28	
02 82 33 00-0302	SF	>1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	8.87	
02 82 33 00-0303	SF	>2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	6.04	
02 82 33 00-0304	SF	>10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	5.15	
02 82 33 00-0305		Caulking, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0306		Non-Friable Caulking, Asbestos Abatement And Disposal *(02 82 33 00-0305)*		
02 82 33 00-0307	SET	Up To 10 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	427.08	
02 82 33 00-0308	LF	>10 To 50 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	12.61	
02 82 33 00-0309	LF	>50 To 100 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	8.90	
02 82 33 00-0310	LF	>100 To 250 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	6.63	
02 82 33 00-0311	LF	>250 To 1,000 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	4.98	
02 82 33 00-0312	LF	>1,000 To 2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	3.95	
02 82 33 00-0313	LF	>2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	3.43	
02 82 33 00-0314		Exterior Caulking, Asbestos Abatement And Disposal *(02 82 33 00-0305)*		
02 82 33 00-0315	SET	Up To 10 LF, Non-Friable Asbestos Exterior Caulking, Asbestos Abatement And Disposal	426.92	
02 82 33 00-0316	LF	>10 To 50 LF, Non-Friable Asbestos Exterior Caulking, Asbestos Abatement And Disposal	7.59	
02 82 33 00-0317	LF	>50 To 100 LF, Non-Friable Asbestos Exterior Caulking, Asbestos Abatement And Disposal	5.35	
02 82 33 00-0318	LF	>100 To 250 LF, Non-Friable Asbestos Exterior Caulking, Asbestos Abatement And Disposal	3.99	
02 82 33 00-0319	LF	>250 To 1,000 LF, Non-Friable Asbestos Exterior Caulking, Asbestos Abatement And Disposal	3.01	
02 82 33 00-0320	LF	>1,000 To 2,500 LF, Non-Friable Asbestos Exterior Caulking, Asbestos Abatement And Disposal	2.38	
02 82 33 00-0321	LF	>2,500 LF, Non-Friable Asbestos Exterior Caulking, Asbestos Abatement And Disposal	2.07	
02 82 33 00-0322		Wood Wall Joint Compound, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0323	SET	Up To 10 SF, Wood Wall Joint Compound, Asbestos Abatement And Disposal	854.38	
02 82 33 00-0324	SF	>10 To 500 SF, Wood Wall Joint Compound, Asbestos Abatement And Disposal	16.88	
02 82 33 00-0325	SF	>500 To 2,500 SF, Wood Wall Joint Compound, Asbestos Abatement And Disposal	12.34	
02 82 33 00-0326	SF	>2,500 To 10,000 SF, Wood Wall Joint Compound, Asbestos Abatement And Disposal	9.67	
02 82 33 00-0327	SF	>10,000 SF, Wood Wall Joint Compound, Asbestos Abatement And Disposal	7.54	
02 82 33 00-0328		Chalk Board Mastic, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0329	SET	Up To 100 SF, Chalk Board Mastic, Asbestos Abatement And Disposal	433.72	
02 82 33 00-0330	SF	>100 To 1,000 SF, Chalk Board Mastic, Asbestos Abatement And Disposal	18.21	
02 82 33 00-0331	SF	>1,000 To 2,500 SF, Chalk Board Mastic, Asbestos Abatement And Disposal	8.80	
02 82 33 00-0332	SF	>2,500 To 10,000 SF, Chalk Board Mastic, Asbestos Abatement And Disposal	5.97	
02 82 33 00-0333	SF	>10,000 SF, Chalk Board Mastic, Asbestos Abatement And Disposal	5.08	
02 82 33 00-0334		Tack Board Mastic, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0335	SET	Up To 100 SF, Tack Board Mastic, Asbestos Abatement And Disposal	433.72	
02 82 33 00-0336	SF	>100 To 1,000 SF, Tack Board Mastic, Asbestos Abatement And Disposal	18.21	
02 82 33 00-0337	SF	>1,000 To 2,500 SF, Tack Board Mastic, Asbestos Abatement And Disposal	8.80	
02 82 33 00-0338	SF	>2,500 To 10,000 SF, Tack Board Mastic, Asbestos Abatement And Disposal	5.97	
02 82 33 00-0339	SF	>10,000 SF, Tack Board Mastic, Asbestos Abatement And Disposal	5.08	
02 82 33 00-0340		Dash Coat Over Wood Walls, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0341	SET	Up To 10 SF, Dash Coat Over Wood Walls, Asbestos Abatement And Disposal	854.38	
02 82 33 00-0342	SF	>10 To 500 SF, Dash Coat Over Wood Walls, Asbestos Abatement And Disposal	18.75	
02 82 33 00-0343	SF	>500 To 2,500 SF, Dash Coat Over Wood Walls, Asbestos Abatement And Disposal	13.98	
02 82 33 00-0344	SF	>2,500 To 10,000 SF, Dash Coat Over Wood Walls, Asbestos Abatement And Disposal	10.51	
02 82 33 00-0345	SF	>10,000 SF, Dash Coat Over Wood Walls, Asbestos Abatement And Disposal	7.90	
02 82 33 00-0346		HEPA Vacuum, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
		Note: For adjacent areas.		
02 82 33 00-0347	SF	High Efficiency Particulate Air (HEPA) Vacuum And Cleaning Of Contaminated Area	0.79	
02 82 33 00-0348		Asbestos Contaminated Paint, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
		Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0349	SET	Up To 10 SF, Asbestos Contaminated Paint On Bridges, Asbestos Abatement And Disposal	534.24	
02 82 33 00-0350	SF	>10 To 500 SF, Asbestos Contaminated Paint On Bridges, Asbestos Abatement And Disposal	52.44	
02 82 33 00-0351	SF	>500 To 2,500 SF, Asbestos Contaminated Paint On Bridges, Asbestos Abatement And Disposal	39.34	
02 82 33 00-0352	SF	>2,500 To 10,000 SF, Asbestos Contaminated Paint On Bridges, Asbestos Abatement And Disposal	29.52	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0353	SF	>10,000 SF, Asbestos Contaminated Paint On Bridges, Asbestos Abatement And Disposal	22.15	
02 82 33 00-0354		Tackboards/Chalkboards/Markerboards With Mastic, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0355	SF	Tackboards/Chalkboards/Markerboards With Mastic, Asbestos Abatement And Disposal	5.47	
02 82 33 00-0356	SF	Mastic On Walls, Asbestos Abatement And Disposal	21.41	
02 82 33 00-0357		Other Material, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0358	LF	Chemical Countertops, Asbestos Abatement And Disposal	29.01	
02 82 33 00-0359	EA	Chemical Fume Hood, Asbestos Abatement And Disposal	1,640.20	
02 82 33 00-0360		Wire Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0361		Wire Insulation, Asbestos Abatement And Disposal *(02 82 33 00-0360)*		
02 82 33 00-0362	SET	Up To 10 LF, Asbestos Wire Insulation, Asbestos Abatement And Disposal	427.08	
02 82 33 00-0363	LF	>10 To 50 LF, Asbestos Wire Insulation, Asbestos Abatement And Disposal	4.75	
02 82 33 00-0364	LF	>50 To 100 LF, Asbestos Wire Insulation, Asbestos Abatement And Disposal	3.35	
02 82 33 00-0365	LF	>100 To 250 LF, Asbestos Wire Insulation, Asbestos Abatement And Disposal	2.50	
02 82 33 00-0366	LF	>250 To 1,000 LF, Asbestos Wire Insulation, Asbestos Abatement And Disposal	1.87	
02 82 33 00-0367	LF	>1,000 To 2,500 LF, Asbestos Wire Insulation, Asbestos Abatement And Disposal	1.49	
02 82 33 00-0368	LF	>2,500 LF, Asbestos Wire Insulation, Asbestos Abatement And Disposal	1.30	
02 82 33 00-0369		Window Putty, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0370	SET	Up To 10 LF, Window Putty, Asbestos Abatement And Disposal	427.08	
02 82 33 00-0371	LF	>10 To 50 LF, Window Putty, Asbestos Abatement And Disposal	16.83	
02 82 33 00-0372	LF	>50 To 100 LF, Window Putty, Asbestos Abatement And Disposal	11.59	
02 82 33 00-0373	LF	>100 To 250 LF, Window Putty, Asbestos Abatement And Disposal	9.93	
02 82 33 00-0374	LF	>250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal	8.53	
02 82 33 00-0375	LF	>1,000 LF, Window Putty, Asbestos Abatement And Disposal	7.35	
02 82 33 00-0376		Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0377	SET	Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	885.31	
02 82 33 00-0378	EA	>4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	84.31	
02 82 33 00-0379	EA	>40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	58.85	
02 82 33 00-0380	EA	>60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	46.16	
02 82 33 00-0381	EA	>125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	38.48	
02 82 33 00-0382	EA	>625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	33.88	
02 82 33 00-0383	EA	>1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	31.28	
02 82 33 00-0384		Bearing Pads, Asbestos Abatement And Disposal *(02 82 33 00-0264)*		
02 82 33 00-0385	SET	Up To 10 EA, Bearing Pads, Asbestos Abatement And Disposal	427.54	
02 82 33 00-0386	EA	>10 To 20 EA, Bearing Pads, Asbestos Abatement And Disposal	28.35	
02 82 33 00-0387	EA	>20 To 35 EA, Bearing Pads, Asbestos Abatement And Disposal	18.21	
02 82 33 00-0388	EA	>35 To 50 EA, Bearing Pads, Asbestos Abatement And Disposal	16.34	
02 82 33 00-0389	EA	>50 EA, Bearing Pads, Asbestos Abatement And Disposal	14.69	

02 83 Lead Remediation *(02 80)*

See CSI section 01 56 16 00-0043 for temporary stud walls, 01 74 19 00-0043 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0020 for decontamination chambers.

02 83 19 Lead-Based Paint Remediation *(02 83)*

02 83 19 13 Lead-Based Paint Abatement *(02 83 19)*

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, cleanup, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 56 16 00-0043 for temporary stud walls, 01 74 19 00-0043 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting.

02 83 19 13-0001		Lead Sampling And Testing *(02 83 19 13)* Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.		
02 83 19 13-0002	HR	Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	97.21	
02 83 19 13-0003	EA	X-Ray Fluorescence (XRF) Lead Testing Note: Including Technician, 3 Readings Per Surface And Lab Fee	76.86	
02 83 19 13-0004	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	73.58	
02 83 19 13-0005	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	111.49	
02 83 19 13-0006	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	156.09	
02 83 19 13-0007	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	28.99	
02 83 19 13-0008	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	44.60	
02 83 19 13-0009	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	55.74	
02 83 19 13-0010	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	73.58	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0011	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	111.49	
02 83 19 13-0012	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee	12.26	
02 83 19 13-0013	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee	16.72	
02 83 19 13-0014	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee	24.53	
02 83 19 13-0015	EA	5 Day Turnaround Lead Air Samples And Lab Fee	12.26	
02 83 19 13-0016	EA	24 Hour Turnaround Lead Air Samples And Lab Fee	16.72	
02 83 19 13-0017	EA	8 Hour Turnaround Lead Air Samples And Lab Fee	24.53	
02 83 19 13-0018	EA	5 Day Turnaround Lead Water Test and Lab Fee	44.60	
02 83 19 13-0019	EA	24 Hour Turnaround Lead Water Test and Lab Fee	66.89	
02 83 19 13-0020	EA	8 Hour Turnaround Lead Water Test and Lab Fee	89.19	
02 83 19 13-0021	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee	46.12	
02 83 19 13-0022	EA	5 Day Turnaround Lead Soil Test and Lab Fee	92.24	

02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation *(02 83 19 13)*

02 83 19 13-0024	EA	Minimum Show Up Charge For Lead-Based Paint Remediation Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.	1,313.26	

02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material *(02 83 19 13)*

Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.

02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material	37.26	
		For 0.025" (25 mil) Application, Add	*2.11*	
		For 0.03" (30 mil) Application, Add	*3.33*	
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	55.26	
		For 0.025" (25 mil) Application, Add	*3.01*	
		For 0.03" (30 mil) Application, Add	*4.68*	
02 83 19 13-0028	LF	Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	16.00	
		For 0.025" (25 mil) Application, Add	*0.95*	
		For 0.03" (30 mil) Application, Add	*1.52*	
		For 0.125" (125 mil) Application, Add	*8.50*	
02 83 19 13-0029	LF	>6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	32.67	
		For 0.025" (25 mil) Application, Add	*1.78*	
		For 0.03" (30 mil) Application, Add	*2.77*	
		For 0.125" (125 mil) Application, Add	*12.67*	
02 83 19 13-0030	SF	Cornice, Chemical Stripping Of Lead Contaminated Material	17.39	
		For 0.025" (25 mil) Application, Add	*1.12*	
		For 0.03" (30 mil) Application, Add	*1.84*	
02 83 19 13-0031	SF	Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material	49.26	
		For 0.025" (25 mil) Application, Add	*2.71*	
		For 0.03" (30 mil) Application, Add	*4.23*	
02 83 19 13-0032	SF	Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material	10.72	
		For 0.025" (25 mil) Application, Add	*0.74*	
		For 0.03" (30 mil) Application, Add	*1.23*	
		For 0.125" (125 mil) Application, Add	*8.68*	
02 83 19 13-0033	SF	Cabinets, Chemical Stripping Of Lead Contaminated Material	31.15	
		For 0.025" (25 mil) Application, Add	*1.76*	
		For 0.03" (30 mil) Application, Add	*2.76*	
02 83 19 13-0034	SF	Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material	39.69	
		For 0.025" (25 mil) Application, Add	*2.18*	
		For 0.03" (30 mil) Application, Add	*3.40*	
02 83 19 13-0035	SF	Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material	14.79	
		For 0.025" (25 mil) Application, Add	*0.94*	
		For 0.03" (30 mil) Application, Add	*1.53*	
02 83 19 13-0036	SF	Columns, Chemical Stripping Of Lead Contaminated Material	14.21	
		For 0.025" (25 mil) Application, Add	*0.96*	
		For 0.03" (30 mil) Application, Add	*1.60*	
		For 0.125" (125 mil) Application, Add	*11.05*	
02 83 19 13-0037	SF	Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material	12.52	
		For 0.025" (25 mil) Application, Add	*0.83*	
		For 0.03" (30 mil) Application, Add	*1.36*	
02 83 19 13-0038	SF	Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material	15.39	
		For 0.025" (25 mil) Application, Add	*0.97*	
		For 0.03" (30 mil) Application, Add	*1.58*	
02 83 19 13-0039	SF	Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated	22.67	
		For 0.025" (25 mil) Application, Add	*1.38*	
		For 0.03" (30 mil) Application, Add	*2.23*	
02 83 19 13-0040	EA	Electrical Devices, Chemical Stripping Of Lead Contaminated Material	64.82	
		For 0.025" (25 mil) Application, Add	*3.64*	
		For 0.03" (30 mil) Application, Add	*5.71*	
02 83 19 13-0041	LF	Door Frames, Chemical Stripping Of Lead Contaminated Material	16.07	
		For 0.025" (25 mil) Application, Add	*1.00*	
		For 0.03" (30 mil) Application, Add	*1.63*	
02 83 19 13-0042	SF	Wood Floors, Chemical Stripping Of Lead Contaminated Material	8.83	
		For 0.025" (25 mil) Application, Add	*0.64*	
		For 0.03" (30 mil) Application, Add	*1.09*	
02 83 19 13-0043	SF	HVAC Grilles, Chemical Stripping Of Lead Contaminated Material	33.29	
		For 0.025" (25 mil) Application, Add	*1.86*	
		For 0.03" (30 mil) Application, Add	*2.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0044	SF	HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material	39.69	
		For 0.025" (25 mil) Application, Add	*2.18*	
		For 0.03" (30 mil) Application, Add	*3.40*	
02 83 19 13-0045	EA	Hinges, Chemical Stripping Of Lead Contaminated Material	20.84	
		For 0.025" (25 mil) Application, Add	*1.34*	
		For 0.03" (30 mil) Application, Add	*2.20*	
02 83 19 13-0046	EA	Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	25.68	
		For 0.025" (25 mil) Application, Add	*1.58*	
		For 0.03" (30 mil) Application, Add	*2.56*	
		For 0.125" (125 mil) Application, Add	*15.42*	
02 83 19 13-0047	LF	Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	7.17	
		For 0.025" (25 mil) Application, Add	*0.51*	
		For 0.03" (30 mil) Application, Add	*0.86*	
		For 0.125" (125 mil) Application, Add	*6.29*	
02 83 19 13-0048	LF	>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	11.50	
		For 0.025" (25 mil) Application, Add	*0.73*	
		For 0.03" (30 mil) Application, Add	*1.18*	
		For 0.125" (125 mil) Application, Add	*7.38*	
02 83 19 13-0049	LF	>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	20.59	
		For 0.025" (25 mil) Application, Add	*1.28*	
		For 0.03" (30 mil) Application, Add	*2.08*	
		For 0.125" (125 mil) Application, Add	*12.65*	
02 83 19 13-0050	LF	>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	28.22	
		For 0.025" (25 mil) Application, Add	*1.71*	
		For 0.03" (30 mil) Application, Add	*2.75*	
		For 0.125" (125 mil) Application, Add	*16.06*	
02 83 19 13-0051	LF	>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	50.61	
		For 0.025" (25 mil) Application, Add	*2.98*	
		For 0.03" (30 mil) Application, Add	*4.75*	
		For 0.125" (125 mil) Application, Add	*26.15*	
02 83 19 13-0052	SF	>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	15.12	
		For 0.025" (25 mil) Application, Add	*0.86*	
		For 0.03" (30 mil) Application, Add	*1.36*	
		For 0.125" (125 mil) Application, Add	*7.02*	
02 83 19 13-0053	EA	Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material	300.72	
		For 0.025" (25 mil) Application, Add	*16.49*	
		For 0.03" (30 mil) Application, Add	*25.64*	
02 83 19 13-0054	SF	Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material	21.05	
		For 0.025" (25 mil) Application, Add	*1.62*	
		For 0.03" (30 mil) Application, Add	*2.78*	
02 83 19 13-0055	SF	Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material	23.04	
		For 0.025" (25 mil) Application, Add	*1.72*	
		For 0.03" (30 mil) Application, Add	*2.93*	
02 83 19 13-0056	SF	Siding, Chemical Stripping Of Lead Contaminated Material	12.00	
		For 0.025" (25 mil) Application, Add	*0.85*	
		For 0.03" (30 mil) Application, Add	*1.43*	
		For 0.125" (125 mil) Application, Add	*10.50*	
02 83 19 13-0057	SF	Soffit, Chemical Stripping Of Lead Contaminated Material	25.18	
		For 0.025" (25 mil) Application, Add	*1.46*	
		For 0.03" (30 mil) Application, Add	*2.31*	
		For 0.125" (125 mil) Application, Add	*12.30*	
02 83 19 13-0058	SF	Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material	11.58	
		For 0.025" (25 mil) Application, Add	*0.78*	
		For 0.03" (30 mil) Application, Add	*1.29*	
		For 0.125" (125 mil) Application, Add	*8.90*	
02 83 19 13-0059	SF	Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	13.15	
		For 0.025" (25 mil) Application, Add	*0.86*	
		For 0.03" (30 mil) Application, Add	*1.41*	
		For 0.125" (125 mil) Application, Add	*9.29*	
02 83 19 13-0060	SF	Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material	13.12	
		For 0.025" (25 mil) Application, Add	*0.86*	
		For 0.03" (30 mil) Application, Add	*1.41*	
		For 0.125" (125 mil) Application, Add	*9.28*	
02 83 19 13-0061	SF	Steel Trusses, Chemical Stripping Of Lead Contaminated Material	18.59	
		For 0.025" (25 mil) Application, Add	*1.13*	
		For 0.03" (30 mil) Application, Add	*1.82*	
		For 0.125" (125 mil) Application, Add	*10.65*	
02 83 19 13-0062	SF	Wood Surfaces, Chemical Stripping Of Lead Contaminated Material	13.12	
		For 0.025" (25 mil) Application, Add	*0.86*	
		For 0.03" (30 mil) Application, Add	*1.41*	
		For 0.125" (125 mil) Application, Add	*9.28*	
02 83 19 13-0063	SF	Windows (Sash, Sill, Jambs, Casing Trim), One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material	30.22	
		For 0.025" (25 mil) Application, Add	*1.71*	
		For 0.03" (30 mil) Application, Add	*2.69*	
02 83 19 13-0064	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material	33.09	
		For 0.025" (25 mil) Application, Add	*1.85*	
		For 0.03" (30 mil) Application, Add	*2.91*	
02 83 19 13-0065	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material	35.01	
		For 0.025" (25 mil) Application, Add	*1.95*	
		For 0.03" (30 mil) Application, Add	*3.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0066	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material	36.96	
		For 0.025" (25 mil) Application, Add	*2.05*	
		For 0.03" (30 mil) Application, Add	*3.20*	
02 83 19 13-0067	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material	38.88	
		For 0.025" (25 mil) Application, Add	*2.14*	
		For 0.03" (30 mil) Application, Add	*3.34*	
02 83 19 13-0068	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material	40.89	
		For 0.025" (25 mil) Application, Add	*2.24*	
		For 0.03" (30 mil) Application, Add	*3.49*	
02 83 19 13-0069	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material	42.77	
		For 0.025" (25 mil) Application, Add	*2.34*	
		For 0.03" (30 mil) Application, Add	*3.63*	
02 83 19 13-0070	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material	43.75	
		For 0.025" (25 mil) Application, Add	*2.39*	
		For 0.03" (30 mil) Application, Add	*3.71*	
02 83 19 13-0071	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material	44.73	
		For 0.025" (25 mil) Application, Add	*2.44*	
		For 0.03" (30 mil) Application, Add	*3.78*	
02 83 19 13-0072	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material	45.67	
		For 0.025" (25 mil) Application, Add	*2.48*	
		For 0.03" (30 mil) Application, Add	*3.85*	
02 83 19 13-0073	SF	Metal Stairs, Chemical Stripping Of Lead Contaminated Material	60.34	
		For 0.025" (25 mil) Application, Add	*3.42*	
		For 0.03" (30 mil) Application, Add	*5.38*	
		For 0.125" (125 mil) Application, Add	*27.09*	
02 83 19 13-0074	LF	Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material	10.47	
		For 0.025" (25 mil) Application, Add	*0.67*	
		For 0.03" (30 mil) Application, Add	*1.10*	
		For 0.125" (125 mil) Application, Add	*7.12*	
02 83 19 13-0075	SF	Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.	30.67	
		For 0.025" (25 mil) Application, Add	*1.83*	
		For 0.03" (30 mil) Application, Add	*2.94*	
		For 0.125" (125 mil) Application, Add	*16.67*	
02 83 19 13-0076	SF	Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.	33.54	
		For 0.025" (25 mil) Application, Add	*1.93*	
		For 0.03" (30 mil) Application, Add	*3.05*	
		For 0.125" (125 mil) Application, Add	*15.89*	

02 83 19 13-0077 Demolish Lead Contaminated Material *(02 83 19 13)*

Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.

02 83 19 13-0078	SF	Demolish Ceiling Suspension System, Lead Contaminated Material		2.65
02 83 19 13-0079	SF	Demolish Suspended Ceiling System And Tile, Lead Contaminated Material		1.54
02 83 19 13-0080	SF	Demolish Acoustical Ceiling Tile, Lead Contaminated Material		0.99
02 83 19 13-0081	SF	Demolish Metal Pan Grid System, Lead Contaminated Material		1.53
02 83 19 13-0082	EA	Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material		74.02
02 83 19 13-0083	EA	Demolish >2' x 4' Light Fixtures, Lead Contaminated Material		98.20
02 83 19 13-0084	SF	Demolish Non-Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material		10.96
02 83 19 13-0085	SF	Demolish Non-Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material		6.14
02 83 19 13-0086	SF	Demolish Brick, Lead Contaminated Material		4.62
02 83 19 13-0087	SF	Demolish Concrete Block, Lead Contaminated Material		5.95
02 83 19 13-0088	SF	Demolish Tile, Lead Contaminated Material		4.48
02 83 19 13-0089	SF	Demolish Up To 6" Concrete, Lead Contaminated Material		6.74
02 83 19 13-0090	IN	Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth		5.25
02 83 19 13-0091	IN	Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth		6.99
02 83 19 13-0092	LF	Demolish Wood Balustrades And Railings, Lead Contaminated Material		7.68
02 83 19 13-0093	LF	Demolish Up To 6" Wide Baseboard, Lead Contaminated Material		2.00
02 83 19 13-0094	LF	Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material		2.50
02 83 19 13-0095	LF	Demolish Base Shoe Molding, Lead Contaminated Material		1.63
02 83 19 13-0096	SF	Demolish Concrete, Lead Contaminated Material		15.27
02 83 19 13-0097	LF	Demolish Cabinets, Lead Contaminated Material		35.56
02 83 19 13-0098	SF	Demolish Ceilings, Gypsum Board, Lead Contaminated Material		2.02
02 83 19 13-0099	SF	Demolish Up To 12" Diameter Columns, Lead Contaminated Material		19.71
02 83 19 13-0100	SF	Demolish Cornice, Lead Contaminated Material		2.62
02 83 19 13-0101	EA	Demolish Doors, Lead Contaminated Material		77.16
02 83 19 13-0102	LF	Demolish Door And Window Wood Trim Or Wood Frames, Lead Contaminated Material		2.35
02 83 19 13-0103	EA	Demolish Electrical Devices, Lead Contaminated Material		23.67
02 83 19 13-0104	LF	Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material		3.04
02 83 19 13-0105	LF	Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material		5.05
02 83 19 13-0106	SF	Demolish Wood Floors, Lead Contaminated Material		3.64
02 83 19 13-0107	SF	Demolish Grilles, Lead Contaminated Material		4.28
02 83 19 13-0108	EA	Demolish Hinges, Lead Contaminated Material		8.61
02 83 19 13-0109	EA	Demolish Up To 6" Diameter Hangers, Lead Contaminated Material		18.49

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0110	LF	Demolish Up To 2" Diameter Pipes, Lead Contaminated Material	7.58	
02 83 19 13-0111	LF	Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material	11.06	
02 83 19 13-0112	LF	Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material	16.72	
02 83 19 13-0113	LF	Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	30.83	
02 83 19 13-0114	EA	Demolish Radiators, Lead Contaminated Material	133.17	
02 83 19 13-0115	EA	Demolish Shutters, Lead Contaminated Material	51.89	
02 83 19 13-0116	SF	Demolish Siding, Lead Contaminated Material	2.06	
02 83 19 13-0117	SF	Demolish Soffit, Lead Contaminated Material	1.75	
02 83 19 13-0118	SF	Demolish Flat Steel Surfaces, Lead Contaminated Material	4.80	
02 83 19 13-0119	SF	Demolish Steel Beams, Lead Contaminated Material	5.65	
02 83 19 13-0120	SF	Demolish Trusses, Lead Contaminated Material	7.41	
02 83 19 13-0121	SF	Demolish Walls, Wood, Lead Contaminated Material	5.48	
02 83 19 13-0122	SF	Demolish Windows, Lead Contaminated Material	18.43	
02 83 19 13-0123	SF	Demolish Metal Stair, Lead Contaminated Material	8.82	
02 83 19 13-0124	LF	Demolish Single Metal Hand Rail, Lead Contaminated Material	6.48	
02 83 19 13-0125	LF	Demolish Metal Railing And Posts, Lead Contaminated Material	10.58	
02 83 19 13-0126	SF	Demolish Metal Picket Fence, Lead Contaminated Material	2.91	
02 83 19 13-0127	SF	Demolish Plywood, Lead Contaminated Material	7.96	
02 83 19 13-0128	SF	Demolish Planks (Various Sizes), Lead Contaminated Material	3.89	
02 83 19 13-0129	EA	Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	24.31	
02 83 19 13-0130	SF	Demolish Ceramic Tile Block, Lead Contaminated Material	5.30	
02 83 19 13-0131	LF	Demolish Metal Guard Rails, Lead Contaminated Material	14.58	
02 83 19 13-0132	LF	Demolish Roof Metal Trim, Lead Contaminated Material	3.11	
02 83 19 13-0133	LF	Demolish Rain Gutters, Lead Contaminated Material	5.34	
02 83 19 13-0134	LF	Demolish Downspouts, Lead Contaminated Material	4.38	
02 83 19 13-0135	SF	Demolish Corrugated Metal Roofing, Lead Contaminated Material	5.40	
02 83 19 13-0136	LF	Demolish Roof Metal Flashing, Lead Contaminated Material	3.11	
02 83 19 13-0137	LF	Demolish Fascia Board Up To 12", Lead Contaminated Material	7.78	
02 83 19 13-0138	SF	Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material	7.78	
02 83 19 13-0139	SF	Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material	5.59	
02 83 19 13-0140	SF	Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material	4.38	
02 83 19 13-0141	SF	Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material	3.40	
02 83 19 13-0142	SF	Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material Note: Includes lath on plaster and backing insulation on stucco.	24.31	
02 83 19 13-0143	SF	Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material Note: Includes lath on plaster and backing insulation on stucco.	17.28	
02 83 19 13-0144	SF	Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material Note: Includes lath on plaster and backing insulation on stucco.	12.96	
02 83 19 13-0145	SF	Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material Note: Includes lath on plaster and backing insulation on stucco.	9.72	
02 83 19 13-0146		**Wet Sanding/Light Scraping Of Lead Contaminated Material** *(02 83 19 13)* Note: Remove loose, flaking lead-based paint to prepare for painting.		
02 83 19 13-0147	SF	Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting	3.71	
02 83 19 13-0148		**Scrape And Sand Lead Paint** *(02 83 19 13)*		
02 83 19 13-0149	SF	Hand Scrape Lead Paint From Concrete Or Masonry Surfaces	1.41	
02 83 19 13-0150	SF	Scrape Lead Paint, Repair And Sand Severely Damaged Drywall Surfaces	1.46	
02 83 19 13-0151	SF	Hand Scrape Lead Paint From Wood Surfaces	1.92	
02 83 19 13-0152	SF	Hand Scraping And Sanding Lead Paint From Metal Surfaces	1.97	
02 83 19 13-0153		**Lead Abatement Encapsulation** *(02 83 19 13)* Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0154	SF	Balustrades, Lead Abatement Encapsulation	6.75	
02 83 19 13-0155	LF	Up To 6" Wide, Baseboard, Lead Abatement Encapsulation	6.67	
02 83 19 13-0156	LF	>6" To 12" Wide, Baseboard, Lead Abatement Encapsulation	9.05	
02 83 19 13-0157	SF	Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	4.34	
02 83 19 13-0158	SF	Ornate Cabinets, Lead Abatement Encapsulation	9.74	
02 83 19 13-0159	SF	Simple Design Cabinets, Lead Abatement Encapsulation	7.94	
02 83 19 13-0160	SF	Drywall Ceilings, Lead Abatement Encapsulation	2.74	
02 83 19 13-0161	SF	Wood Ceilings, Lead Abatement Encapsulation	3.31	
02 83 19 13-0162	SF	Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation	3.07	
02 83 19 13-0163	SF	Columns, Lead Abatement Encapsulation	5.24	
02 83 19 13-0164	SF	Doors, Lead Abatement Encapsulation	9.98	
02 83 19 13-0165	LF	Up To 2" Electrical Conduit, Lead Abatement Encapsulation	4.40	
02 83 19 13-0166	SF	Picket Fence (Brush), Lead Abatement Encapsulation	3.14	
02 83 19 13-0167	SF	Wood Floors (Roller), Lead Abatement Encapsulation	2.63	
02 83 19 13-0168	SF	Grilles, Vents, Lead Abatement Encapsulation	7.27	
02 83 19 13-0169	LF	Gutters And Downspouts, Lead Abatement Encapsulation	6.75	
02 83 19 13-0170	EA	Hangers, Lead Abatement Encapsulation	57.21	
02 83 19 13-0171	LF	Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation	4.09	
02 83 19 13-0172	LF	>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation	5.90	
02 83 19 13-0173	LF	>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation	9.16	
02 83 19 13-0174	LF	>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation	13.53	
02 83 19 13-0175	EA	Radiators, Lead Abatement Encapsulation	148.47	
02 83 19 13-0176	EA	Up To 6' Shutters, Lead Abatement Encapsulation	212.10	
02 83 19 13-0177	SF	Siding, Lead Abatement Encapsulation	3.74	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0178	SF	Up To 12" Soffit, Lead Abatement Encapsulation	5.24	
02 83 19 13-0179	SF	Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation	4.34	
02 83 19 13-0180	SF	Steel Beams And Metal Decks, Lead Abatement Encapsulation	5.66	
02 83 19 13-0181	SF	Trusses, Lead Abatement Encapsulation	5.66	
02 83 19 13-0182	SF	Drywall Walls, Lead Abatement Encapsulation	2.43	
02 83 19 13-0183	SF	Wood Walls, Lead Abatement Encapsulation	2.99	
02 83 19 13-0184	EA	Window Without Grille, Lead Abatement Encapsulation	125.83	
02 83 19 13-0185	EA	Window With Grille, Lead Abatement Encapsulation	161.73	
02 83 19 13-0186	LF	Wood Door Frames And Trim, Lead Abatement Encapsulation	3.85	
02 83 19 13-0187	LF	Steel Lintels, Lead Abatement Encapsulation	4.42	

02 83 19 13-0188 Hazardous Lead-Based Paint Remediation Disposal *(02 83 19 13)*

02 83 19 13-0189	EA	Hazardous Lead-Based Paint Remediation Disposal At Approved Site, Up To 20 CY Dumpster Note: Includes handling of material and disposal at approved site.	7,942.55	
02 83 19 13-0190	EA	Hazardous Lead-Based Paint Remediation Disposal At Approved Site, Up To 25 Gallons Note: Includes handling of material and disposal at approved site.	635.40	

02 83 33 Removal and Disposal of Material Containing Lead *(02 83)*

02 83 33 13 Lead-Based Paint Removal and Disposal *(02 83 33)*

02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead *(02 83 33 13)*

02 83 33 13-0002	SF	High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent	0.31	
02 83 33 13-0003	SF	High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate	0.31	
02 83 33 13-0004	SF	High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting	1.53	

02 84 Polychlorinated Biphenyl Remediation *(02 80)*

02 84 16 Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury *(02 84)*

02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures *(02 84 16)*

Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.

02 84 16 00-0002	EA	Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling	9.04	

02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts *(02 84 16)*

Note: Non-leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.

02 84 16 00-0004	EA	Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	3.39	
02 84 16 00-0005	EA	Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	4.32	
02 84 16 00-0006	EA	Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	10.21	
02 84 16 00-0007	EA	Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	21.37	

02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts *(02 84 16)*

Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.

02 84 16 00-0009	EA	Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	6.18	
02 84 16 00-0010	EA	Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	8.51	
02 84 16 00-0011	EA	Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	26.25	
02 84 16 00-0012	EA	Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	50.96	

02 84 33 Removal and Disposal of Polychlorinated Biphenyls *(02 84)*

02 84 33 00-0001 Removal And Disposal Of Polychlorinated Biphenyls Oil Filled Transformers *(02 84 33)*

Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.

02 84 33 00-0002	EA	Removal And Disposal Of Transformers 2.5/3.5 KVA, Non-Polychlorinated Biphenyl (PCB) Note: Includes disposal costs.	3,641.85	
02 84 33 00-0003	EA	Removal And Disposal Of Transformers 20 KVA, Non-Polychlorinated Biphenyl (PCB) Note: Includes disposal costs.	5,723.87	
02 84 33 00-0004	EA	Removal And Disposal Of Switch, Non-Polychlorinated Biphenyl (PCB)	1,567.24	
02 84 33 00-0005	EA	Removal And Disposal Of Transformers 2.5/3.5 KVA, Polychlorinated Biphenyl (PCB) Note: Includes disposal costs.	6,897.20	
02 84 33 00-0006	EA	Removal And Disposal Of Transformers 20 KVA, Polychlorinated Biphenyl (PCB) Note: Includes disposal costs.	10,880.85	
02 84 33 00-0007	EA	Removal And Disposal Of Switch, Polychlorinated Biphenyl (PCB)	2,781.26	

02 86 Hazardous Waste Drum Handling *(02 80)*

02 86 00 00-0001 Hazardous Waste Packaging *(02 86)*

02 86 00 00-0002 Overpacks *(02 86 00 00-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 86 00 00-0003		**Steel Salvage Drums, 16 Gauge** *(02 86 00 00-0002)*		
02 86 00 00-0004	EA	110 Gallon, 30" Diameter X 41" High	542.23	
02 86 00 00-0005	EA	85 Gallon, 26" Diameter X 38" High	308.65	
02 86 00 00-0006	EA	83 Gallon, 26" Diameter X 36" High	297.90	
02 86 00 00-0007	EA	55 Gallon, DOT 17C, 18" Diameter X 34" High	186.38	
02 86 00 00-0008	EA	30 Gallon, DOT 17C, 18" Diameter X 28" High	146.82	
02 86 00 00-0009	EA	22 Gallon, 16" Diameter X 25" High	98.92	
02 86 00 00-0010	EA	15 Gallon, DOT 17C, 14" Diameter X 24" High	89.44	
02 86 00 00-0011	EA	10 Gallon, 13.8" Diameter X 15" High	78.81	
02 86 00 00-0012		**Polyethylene Overpacks** *(02 86 00 00-0002)*		
02 86 00 00-0013	EA	95 Gallon, DOT E9618, Twist On Lid 31" Diameter X 41" High	612.48	
02 86 00 00-0014	EA	20 Gallon, Labpack, Twist On Lid 21" Diameter X 7.5" High	113.19	
02 86 00 00-0015	EA	85 Gallon, DOT E9775, Clamp Ring Lid, 27" Diameter X 41" High	554.22	
02 86 00 00-0016		**Composite Overpacks** *(02 86 00 00-0002)*		
02 86 00 00-0017	EA	55 Gal, DOT 17C, Steel Drum Nested With 2-20 Gallon Fiber Drums	300.75	
02 86 00 00-0018	EA	55 Gal, DOT 17C, Steel Drum Nested With 4-10 Gallon Fiber Drums	412.71	
02 86 00 00-0019	EA	85 Gal, 16 Gauge Salvage Drum Nested With 3-20 Gallon Fiber Drums	559.79	
02 86 00 00-0020		**DOT E-9168 Exempt Packaging** *(02 86 00 00-0002)*		
02 86 00 00-0021	EA	32 Oz Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	49.65	
02 86 00 00-0022	EA	950 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	52.38	
02 86 00 00-0023	EA	500 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	51.21	
02 86 00 00-0024	EA	250 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	25.36	
02 86 00 00-0025	EA	Can, Carton, Insert, Tape - Corrosive And Flammable - UPS	16.11	
02 86 00 00-0026	EA	16 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS	8.34	
02 86 00 00-0027	EA	32 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS	10.85	
02 86 00 00-0028		**Steel Drums** *(02 86 00 00-0001)*		
02 86 00 00-0029		**UN Rated Steel Drums** *(02 86 00 00-0028)*		
02 86 00 00-0030	EA	UN 1A2/X 320/S 55 Gallon, Open, 16 Gauge, Steel Drum	139.63	
02 86 00 00-0031	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (25-49)	1,380.00	
02 86 00 00-0032	EA	8 Gallon, 17C, Open, Steel Drum	100.98	
02 86 00 00-0033	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (10-24)	1,113.58	
02 86 00 00-0034	EA	55 Gallon Reconditioned Steel 17h Drum (50+)	98.79	
02 86 00 00-0035	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (25-49)	1,092.62	
02 86 00 00-0036	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (10-24)	1,598.52	
02 86 00 00-0037	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (50+)	1,308.15	
02 86 00 00-0038	EA	UN 1A2/X 320/S 55 Gallon, Closed, 16 Gauge, Steel Drum	131.97	
02 86 00 00-0039	EA	UN 1A2/Y 1.4/100 55 Gallon, Open, 16 Gauge, Steel Drum	107.01	
02 86 00 00-0040	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (1-9)	1,445.85	
02 86 00 00-0041	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (25-49)	1,568.59	
02 86 00 00-0042	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (50+)	984.86	
02 86 00 00-0043	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (50+)	1,412.93	
02 86 00 00-0044	EA	UN 1A2/Y 1.4/100 55 Gallon, Closed, 16 Gauge, Steel Drum	84.33	
02 86 00 00-0045	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (10-24)	1,418.91	
02 86 00 00-0046	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9)	927.98	
02 86 00 00-0047	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24)	892.06	
02 86 00 00-0048	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9)	1,508.72	
02 86 00 00-0049	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (25-49)	1,278.22	
02 86 00 00-0050	EA	UN 1A2/X 160/S 30 Gallon, Open, 18 Gauge, Steel Drum	97.75	
02 86 00 00-0051	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (50+)	1,212.36	
02 86 00 00-0052	EA	UN 1A2/Y 1.4/100 30 Gallon, Open, 18 Gauge, Steel Drum	83.09	
02 86 00 00-0053	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24)	1,472.80	
02 86 00 00-0054	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49)	853.14	
02 86 00 00-0055	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+)	823.21	
02 86 00 00-0056	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49)	1,445.85	
02 86 00 00-0057	EA	30 Gallon, 17E, Open, Steel Drum	60.28	
02 86 00 00-0058	EA	55 Gallon Reconditioned Steel 17h Drum (1-9)	144.89	
02 86 00 00-0059	EA	20 Gallon, 17C, Open, Steel Drum	84.72	
02 86 00 00-0060	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+)	1,302.17	
02 86 00 00-0061	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (1-9)	1,559.61	
02 86 00 00-0062	EA	55 Gallon Reconditioned Steel 17h Drum (10-24)	128.42	
02 86 00 00-0063	EA	55 Gallon Reconditioned Steel 17h Drum (25-49)	111.96	
02 86 00 00-0064	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (1-9)	1,140.52	
02 86 00 00-0065	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (10-24)	1,529.67	
02 86 00 00-0066	EA	20 Gallon, 17E, Open, Steel Drum	57.02	
02 86 00 00-0067		**Plastic Drums** *(02 86 00 00-0001)*		
02 86 00 00-0068		**Polyethylene Closed Head Drums** *(02 86 00 00-0067)*		
		Note: Closed head drums have standard NPS (National Pipe Standard) plug and drain vents. Primarily for liquids.		
02 86 00 00-0069	EA	55 Gallon Polyethylene Closed Head Drums	87.65	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 86 00 00-0070	EA	35 Gallon Polyethylene Closed Head Drums	67.29	
02 86 00 00-0071	EA	30 Gallon Polyethylene Closed Head Drums	61.10	
02 86 00 00-0072	EA	20 Gallon Polyethylene Closed Head Drums	42.69	
02 86 00 00-0073	EA	15 Gallon Polyethylene Closed Head Drums	41.87	
02 86 00 00-0074		Polyethylene Open Head Drums *(02 86 00 00-0067)*		
		Note: Open head drums are primarily used for solids and sludge.		
02 86 00 00-0075	EA	55 Gallon Polyethylene Open Head Drums	110.79	
02 86 00 00-0076	EA	35 Gallon Polyethylene Open Head Drums	81.46	
02 86 00 00-0077	EA	30 Gallon Polyethylene Open Head Drums	77.39	
02 86 00 00-0078	EA	20 Gallon Polyethylene Open Head Drums	57.02	
02 86 00 00-0079	EA	15 Gallon Polyethylene Open Head Drums	48.88	
02 86 00 00-0080		Fiber Drums *(02 86 00 00-0001)*		
02 86 00 00-0081		Steel Top/Fiber Bottom Drums, Hazardous *(02 86 00 00-0080)*		
		Note: Waste fiber drums have tubular rubber gaskets and caulked bottom seams.		
02 86 00 00-0082	EA	30 Gallon Fiber Drum DOT-21C (1-9)	67.12	
02 86 00 00-0083	EA	30 Gallon Fiber Drum DOT-21C (10-24)	62.89	
02 86 00 00-0084	EA	30 Gallon Fiber Drum DOT-21C (25-49)	57.35	
02 86 00 00-0085	EA	30 Gallon Fiber Drum DOT-21C (50+)	56.70	
02 86 00 00-0086	EA	55 Gallon Fiber Drum DOT-21C (1-9)	69.08	
02 86 00 00-0087	EA	55 Gallon Fiber Drum DOT-21C (10-24)	65.17	
02 86 00 00-0088	EA	55 Gallon Fiber Drum DOT-21C (25-49)	60.28	
02 86 00 00-0089	EA	55 Gallon Fiber Drum DOT-21C (50-99)	58.33	
02 86 00 00-0090	EA	55 Gallon Fiber Drum DOT-21C (100+)	50.51	
02 86 00 00-0091	EA	10 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	43.01	
02 86 00 00-0092	EA	20 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	46.92	
02 86 00 00-0093	EA	20 Gallon, 23" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	54.74	
02 86 00 00-0094		Loading Hazardous Waste For Shipment *(02 86 00 00-0001)*		
02 86 00 00-0095	EA	Load Drums On Disposal Truck	12.67	
02 86 00 00-0096	EA	Load Liquid Or Sludge Into 5,000 Gallon Bulk Tank Truck	1,333.93	
02 86 00 00-0097		Transport Drums To Landfill *(02 86 00 00-0001)*		
		Note: Includes transportation for up to 25 miles.		
02 86 00 00-0098	EA	Transport Drum To Landfill	104.90	
		Note: Includes transportation for up to 25 miles.		

02 87 Bio-Hazard Material Remediation *(02 80)*

02 87 13 Mold Remediation *(02 87)*

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, cleanup, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0043 for temporary stud walls, 01 74 19 00-0043 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0020 for decontamination chambers.

02 87 13 33 Removal and Disposal of Materials with Mold *(02 87 13)*

02 87 13 33-0001		Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal *(02 87 13 33)*		
		Note: Treat fittings as additional lf of insulation.		
02 87 13 33-0002		Pipe Insulation, Mold Abatement And Disposal *(02 87 13 33-0001)*		
		Note: Diameter is outer size of insulation.		
02 87 13 33-0003		Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal *(02 87 13 33-0002)*		
		Note: Excludes encased fittings.		
02 87 13 33-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	861.93	
02 87 13 33-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	33.42	
02 87 13 33-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	25.17	
02 87 13 33-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	18.98	
02 87 13 33-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	14.33	
02 87 13 33-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	12.52	
02 87 13 33-0010		>6" Diameter Pipe Insulation, Mold Abatement And Disposal *(02 87 13 33-0002)*		
02 87 13 33-0011	SET	Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	886.63	
02 87 13 33-0012	LF	>20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	39.61	
02 87 13 33-0013	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	30.12	
02 87 13 33-0014	LF	>500 To 2,500 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.00	
02 87 13 33-0015	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	17.66	
02 87 13 33-0016	LF	>10,000 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	15.58	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0017		Thermal Insulation, Mold Abatement And Disposal *(02 87 13 33)*		
02 87 13 33-0018		Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal *(02 87 13 33-0017)*		
02 87 13 33-0019	SET	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	874.28	
02 87 13 33-0020	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	19.38	
02 87 13 33-0021	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	14.64	
02 87 13 33-0022	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	11.08	
02 87 13 33-0023	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	8.58	
02 87 13 33-0024		Surfacing Material, Mold Abatement And Disposal *(02 87 13 33)* Note: e.g. fireproofing, acoustical plaster, etc.		
02 87 13 33-0025		Stucco, Mold Abatement And Disposal *(02 87 13 33-0024)* Note: Remove surface coat from brown coat or remove entire assembly, including lath.		
02 87 13 33-0026	SET	Up To 50 SF, Stucco, Mold Abatement And Disposal	867.42	
02 87 13 33-0027	SF	>50 To 500 SF, Stucco, Mold Abatement And Disposal	19.24	
02 87 13 33-0028	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal	14.50	
02 87 13 33-0029	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	10.94	
02 87 13 33-0030	SF	>10,000 SF, Stucco, Mold Abatement And Disposal	8.29	
02 87 13 33-0031		Acoustical Plaster, Mold Abatement And Disposal *(02 87 13 33-0024)* Note: Remove surface coat from brown coat or remove entire assembly, including lath.		
02 87 13 33-0032	SET	Up To 50 SF, Acoustical Plaster, Mold Abatement And Disposal	867.42	
02 87 13 33-0033	SF	>50 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal	19.24	
02 87 13 33-0034	SF	>500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal	14.50	
02 87 13 33-0035	SF	>2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal	10.94	
02 87 13 33-0036	SF	>10,000 SF, Acoustical Plaster, Mold Abatement And Disposal	8.29	
02 87 13 33-0037		Gypsum Board, Mold Abatement And Disposal *(02 87 13 33-0024)*		
02 87 13 33-0038	SET	Up To 100 SF, Gypsum Board, Mold Abatement And Disposal	881.15	
02 87 13 33-0039	SF	>100 To 500 SF, Gypsum Board, Mold Abatement And Disposal	6.41	
02 87 13 33-0040	SF	>500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal	5.07	
02 87 13 33-0041	SF	>2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal	4.01	
02 87 13 33-0042	SF	>10,000 SF, Gypsum Board, Mold Abatement And Disposal	2.94	
02 87 13 33-0043		Fireproofing, Mold Abatement And Disposal *(02 87 13 33-0024)* Note: Exposed surface area, includes associated overspray.		
02 87 13 33-0044	SET	Up To 50 SF, Fireproofing, Mold Abatement And Disposal	874.28	
02 87 13 33-0045	SF	>50 To 500 SF, Fireproofing, Mold Abatement And Disposal	26.55	
02 87 13 33-0046	SF	>500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	20.05	
02 87 13 33-0047	SF	>2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	15.14	
02 87 13 33-0048	SF	>10,000 SF, Fireproofing, Mold Abatement And Disposal	11.46	
02 87 13 33-0049		Flooring, Mold Abatement And Disposal *(02 87 13 33)* Note: Includes cove base.		
02 87 13 33-0050		Floor Tile Or Linoleum, Mold Abatement And Disposal *(02 87 13 33-0049)*		
02 87 13 33-0051		Floor Tile Or Linoleum, Mold Abatement And Disposal *(02 87 13 33-0050)* Note: Single layer or first of multiple layers.		
02 87 13 33-0052	SET	Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	881.15	
02 87 13 33-0053	SF	>100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	6.37	
		For Each Additional Layer, Add	*1.59*	
02 87 13 33-0054	SF	>500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	3.56	
		For Each Additional Layer, Add	*0.89*	
02 87 13 33-0055	SF	>2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	2.05	
		For Each Additional Layer, Add	*0.51*	
02 87 13 33-0056	SF	>10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	1.58	
		For Each Additional Layer, Add	*0.40*	
02 87 13 33-0057		Carpet, Mold Abatement And Disposal *(02 87 13 33-0049)*		
02 87 13 33-0058		Carpet, Glue Down, Mold Abatement And Disposal *(02 87 13 33-0057)*		
02 87 13 33-0059	SET	Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal	881.15	
02 87 13 33-0060	SF	>100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal	5.29	
02 87 13 33-0061	SF	>500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal	3.31	
02 87 13 33-0062	SF	>2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal	2.21	
02 87 13 33-0063	SF	>10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal	1.70	
02 87 13 33-0064		Carpet, Padded With Tack Strips, Mold Abatement And Disposal *(02 87 13 33-0057)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0065	SET	Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal Note: Includes tack strips.	881.15	
02 87 13 33-0066	SF	>100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal Note: Includes tack strips.	5.96	
02 87 13 33-0067	SF	>500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal Note: Includes tack strips.	4.34	
02 87 13 33-0068	SF	>2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal Note: Includes tack strips.	3.43	
02 87 13 33-0069	SF	>10,000 SF, Carpet And Pad, Mold Abatement And Disposal Note: Includes tack strips.	2.64	
02 87 13 33-0070		Subflooring, Mold Abatement And Disposal *(02 87 13 33-0049)*		
02 87 13 33-0071	SET	Up To 75 SF, Subflooring, Mold Abatement And Disposal	874.28	
02 87 13 33-0072	SF	>75 To 500 SF, Subflooring, Mold Abatement And Disposal	7.34	
02 87 13 33-0073	SF	>500 To 2,500 SF, Subflooring, Mold Abatement And Disposal	4.69	
02 87 13 33-0074	SF	>2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal	2.82	
02 87 13 33-0075	SF	>10,000 SF, Subflooring, Mold Abatement And Disposal	1.79	
02 87 13 33-0076		Siding, Mold Abatement And Disposal *(02 87 13 33)*		
02 87 13 33-0077		Interior Paneling, Mold Abatement And Disposal *(02 87 13 33-0076)* Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0078	SET	Up To 100 SF, Interior Paneling, Mold Abatement And Disposal Note: Includes detachment of mounted objects before removal.	881.15	
02 87 13 33-0079	SF	>100 To 500 SF, Interior Paneling, Mold Abatement And Disposal Note: Includes detachment of mounted objects before removal.	6.35	
02 87 13 33-0080	SF	>500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal Note: Includes detachment of mounted objects before removal.	4.45	
02 87 13 33-0081	SF	>2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal Note: Includes detachment of mounted objects before removal.	2.59	
02 87 13 33-0082	SF	>10,000 SF, Interior Paneling, Mold Abatement And Disposal Note: Includes detachment of mounted objects before removal.	1.97	
02 87 13 33-0083		Exterior Siding, Mold Abatement And Disposal *(02 87 13 33-0076)*		
02 87 13 33-0084	SET	Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal	881.15	
02 87 13 33-0085	SF	>100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	7.89	
02 87 13 33-0086	SF	>500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.47	
02 87 13 33-0087	SF	>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.69	
02 87 13 33-0088	SF	>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.31	
02 87 13 33-0089		Contaminated Debris, Mold Abatement And Disposal *(02 87 13 33)*		
02 87 13 33-0090		Contaminated Debris, Mold Abatement And Disposal *(02 87 13 33-0089)*		
02 87 13 33-0091	SET	Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal	886.63	
02 87 13 33-0092	CF	>20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	31.17	
02 87 13 33-0093	CF	>100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	21.33	
02 87 13 33-0094	CF	>250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	16.41	
02 87 13 33-0095	CF	>500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	13.46	
02 87 13 33-0096	CF	>2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.10	
02 87 13 33-0097	CF	>10,000 CF, Contaminated Debris, Mold Abatement And Disposal	7.45	
02 87 13 33-0098		Other Mold Containing Materials, Mold Abatement And Disposal *(02 87 13 33)*		
02 87 13 33-0099		Wood Studs, Mold Abatement And Disposal *(02 87 13 33-0098)* Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.		
02 87 13 33-0100	SET	Up To 100 LF, Wood Studs, Mold Abatement And Disposal	440.57	
02 87 13 33-0101	LF	>100 To 500 LF, Wood Studs, Mold Abatement And Disposal	3.58	
02 87 13 33-0102	LF	>500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal	2.66	
02 87 13 33-0103	LF	>2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal	2.08	
02 87 13 33-0104	LF	>10,000 LF, Wood Studs, Mold Abatement And Disposal	1.57	
02 87 13 33-0105		Ceiling Tile, Mold Abatement And Disposal *(02 87 13 33-0098)* Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.		
02 87 13 33-0106	SET	Up To 100 SF, Ceiling Tile, Mold Abatement And Disposal	881.15	
02 87 13 33-0107	SF	>100 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal	10.94	
02 87 13 33-0108	SF	>1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal	5.13	
02 87 13 33-0109	SF	>2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.69	
02 87 13 33-0110	SF	>10,000 To 25,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.63	
02 87 13 33-0111	SF	>25,000 To 50,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.56	
02 87 13 33-0112	SF	>50,000 To 100,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.11	
02 87 13 33-0113	SF	>100,000 SF, Ceiling Tile, Mold Abatement And Disposal	2.71	
02 87 13 33-0114		Caulking, Mold Abatement And Disposal *(02 87 13 33-0098)*		
02 87 13 33-0115	SET	Up To 20 LF, Caulking, Mold Abatement And Disposal	213.87	
02 87 13 33-0116	LF	>20 To 50 LF, Caulking, Mold Abatement And Disposal	4.29	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0117	LF	>50 To 100 LF, Caulking, Mold Abatement And Disposal	3.06	
02 87 13 33-0118	LF	>100 To 250 LF, Caulking, Mold Abatement And Disposal	2.33	
02 87 13 33-0119	LF	>250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.72	
02 87 13 33-0120	LF	>1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	1.39	
02 87 13 33-0121	LF	>2,500 LF, Caulking, Mold Abatement And Disposal	1.20	

02 87 13 33-0122 Wipe Down Walls, Ceilings And Floors *(02 87 13 33-0098)*

02 87 13 33-0123	CSF	Wipe Down Floors With Mild Bleach Solution	23.72	
		For >25 To 50, Deduct	*-2.37*	
		For >50 To 200, Deduct	*-5.93*	
		For >200, Deduct	*-9.48*	
02 87 13 33-0124	CSF	Wipe Down Walls With Mild Bleach Solution	27.91	
		For >25 To 50, Deduct	*-2.79*	
		For >50 To 200, Deduct	*-6.98*	
		For >200, Deduct	*-11.16*	
02 87 13 33-0125	CSF	Wipe Down Ceilings With Mild Bleach Solution	31.75	
		For >25 To 50, Deduct	*-3.17*	
		For >50 To 200, Deduct	*-7.94*	
		For >200, Deduct	*-12.70*	
02 87 13 33-0126	CSF	Wipe Down Countertops With Mild Bleach Solution	25.88	
		For >25 To 50, Deduct	*-2.59*	
02 87 13 33-0127	CSF	Wipe Down Other Surfaces With Mild Bleach Solution	32.84	
		For >25 To 50, Deduct	*-3.28*	
		For >50 To 200, Deduct	*-8.21*	
		For >200, Deduct	*-13.13*	

02 87 13 33-0128 Cabinets *(02 87 13 33-0098)*

02 87 13 33-0129	SET	Up To 10 LF, Base Cabinet, Mold Abatement And Disposal	926.69
02 87 13 33-0130	LF	>10 To 20 LF, Base Cabinet, Mold Abatement And Disposal	97.84
02 87 13 33-0131	LF	>20 LF, Base Cabinet, Mold Abatement And Disposal	71.97
02 87 13 33-0132	SET	Up To 10 LF, Wall Cabinet, Mold Abatement And Disposal	877.28
02 87 13 33-0133	LF	>10 To 20 LF, Wall Cabinet, Mold Abatement And Disposal	82.55
02 87 13 33-0134	LF	>20 LF, Wall Cabinet, Mold Abatement And Disposal	56.68

02 87 16 Excrement Removal *(02 87)*

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, cleanup, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks, the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.

02 87 16 13 Bird Excrement Removal *(02 87 16)*

02 87 16 13-0001 Bird Waste Removal *(02 87 16 13)*

Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.

02 87 16 13-0002	EA	Up To 10 SF Bird Waste Removal, Up To 3" Thickness	853.69	
		For Work In Restricted Working Space, Add	*256.11*	
02 87 16 13-0003	SF	>10 To 500 SF Bird Waste Removal, Up To 3" Thickness	14.23	
		For Work In Restricted Working Space, Add	*4.27*	
02 87 16 13-0004	SF	>500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	12.93	
		For Work In Restricted Working Space, Add	*3.88*	
02 87 16 13-0005	SF	>2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	11.76	
		For Work In Restricted Working Space, Add	*3.53*	
02 87 16 13-0006	SF	>10,000 SF Bird Waste Removal, Up To 3" Thickness	10.69	
		For Work In Restricted Working Space, Add	*3.21*	

02 87 19 Bio-Hazard and Infectious Disease Control Remediation *(02 87)*

02 87 19 00-0001 Barriers For Bio-Hazard And Infectious Disease Control *(02 87 19)*

02 87 19 00-0002 Adjustable Barrier Panel System For Bio-Hazard And Infectious Disease Control *(02 87 19 00-0001)*

Note: Panels are opal or transparent. Includes self-leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.

02 87 19 00-0003	EA	4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4000)	726.31
02 87 19 00-0004	EA	3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4001)	690.00
02 87 19 00-0005	EA	2' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4002)	544.74
02 87 19 00-0006	EA	2' Wide x 7'-8" To 10' High With High Efficiency Particulate Air (HEPA) Filtered Air Discharge Port, Fire Rated Containment Panel Assembly (Edge Guard 4002.1)	629.47
02 87 19 00-0007	EA	4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 44" Door (Edge Guard 4003) Note: Includes a hydraulic closer and a lever style lockset standard.	1,228.67
02 87 19 00-0008	EA	7'-8" To 10' High, Hinged Corner Assembly (Edge Guard 4004)	251.16
02 87 19 00-0009	EA	6" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4005)	332.89
02 87 19 00-0010	EA	12" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4006)	357.10
02 87 19 00-0011	EA	7'-8" To 10' High, Outside Corner Post (Edge Guard 4007)	208.80
02 87 19 00-0012	EA	4'-4" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 48" Door (Edge Guard 4008) Note: Includes a hydraulic closer and a lever style lockset standard.	1,470.77

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0013	EA	7'-8" To 10' High, "T" Post Corner Assembly (Edge Guard 4009)	208.80	
02 87 19 00-0014	EA	3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 32" Door (Edge Guard 4010) Note: Includes a hydraulic closer and a lever style lockset standard.	1,107.62	
02 87 19 00-0015	EA	Closure Strips (Edge Guard 3003) Note: To seal panels to existing walls	15.67	
02 87 19 00-0016	EA	Digital Differential Pressure Gauge Kit (Edge Guard 3005)	339.69	
02 87 19 00-0017		**Temporary Sheeting For Bio-Hazard And Infectious Disease Control** *(02 87 19 00-0001)* Note: Includes removal and disposal in approved landfill after use.		
02 87 19 00-0018	SF	6 Mil Plastic Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control	0.66	
02 87 19 00-0019	SF	6 Mil Plastic Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control	0.88	
02 87 19 00-0020	SF	6 Mil Plastic Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control	1.18	
02 87 19 00-0021	SF	6 Mil Plastic Fire Retardant, Anti-static Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control	0.77	
02 87 19 00-0022	SF	6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control	0.99	
02 87 19 00-0023	SF	6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control	1.29	
02 87 19 00-0024		**Temporary Floor Protection For Bio-Hazard And Infectious Disease Control** *(02 87 19 00-0001)* Note: Includes removal after use.		
02 87 19 00-0025	SF	1/8" Thick, Masonite Temporary Floor Protection For Bio-Hazard And Infectious Disease Control	2.18	
02 87 19 00-0026	SF	1/2" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control	2.20	
02 87 19 00-0027	SF	3/4" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control	2.59	
02 87 19 00-0028		**Temporary Stud Wall For Bio-Hazard And Infectious Disease Control** *(02 87 19 00-0001)* Note: Includes removal after use.		
02 87 19 00-0029	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	7.32	
02 87 19 00-0030	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	10.18	
02 87 19 00-0031	SF	5/8" Type Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	7.50	
02 87 19 00-0032	SF	5/8" Type Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	10.55	
02 87 19 00-0033	SF	6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	4.21	
02 87 19 00-0034		**Isolation Barriers For Bio-Hazard And Infectious Disease Control** *(02 87 19 00-0001)*		
02 87 19 00-0035	GSF	Tent Construction Utilizing Two Layers Of 6 Mil Fire Rated Plastic Sheeting For Bio-Hazard And Infectious Disease Control Note: Includes support frame of 2x4s or PVC piping (ground SF) to construct stand-alone tents (floor, walls and ceiling) with airlock.	27.21	
02 87 19 00-0036	GSF	Relocate Tent Construction To Different Area	3.40	
02 87 19 00-0037		**Plexiglass Barriers For Bio-Hazard And Infectious Disease Control** *(02 87 19 00-0001)*		
02 87 19 00-0038	SF	3/8" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control	23.42	
02 87 19 00-0039	SF	1/2" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control	27.40	
02 87 19 00-0040	SF	3/4" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control	38.22	
02 87 19 00-0041	PR	Install Pair Of 8" Diameter Glove Iris Port In Barrier For Bio-Hazard And Infectious Disease Control Note: Excludes gloves.	1,576.47	
02 87 19 00-0042	PR	Pair Of 8" Diameter Economy Sleeved Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control Note: For installation in glove iris port.	564.81	
02 87 19 00-0043	PR	Pair Of 8" Diameter Bellows Type Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control Note: For installation in glove iris port.	898.55	
02 87 19 00-0044	EA	5-5/16" Diameter, Satin Anodized Aluminum, No-Draft Speak-Thru In Barrier For Bio-Hazard And Infectious Disease Note: Includes gaskets and mounting screws for installation on glass from 1/4" (6 mm) to 1/2" (12 mm) thick. Require a minimum hole diameter of 2-1/4" (57 mm), and will cover holes up to 4-1/4" (108 mm). Recommended hole diameter is 3-1/2" (89 mm).	167.44	
02 87 19 00-0045		**Temporary Portable And Mobile Trailers** *(02 87 19)*		
02 87 19 00-0046		**Trailer Delivery** *(02 87 19 00-0045)*		
02 87 19 00-0047	EA	Deliver Trailer Within 25 Miles	1,341.37	
02 87 19 00-0048		**Portable And Mobile Trailers, Purchase** *(02 87 19 00-0045)* Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, & phone jacks. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
02 87 19 00-0049	EA	8' x 24' Mobile Trailer With Toilet, Purchase	13,767.65	
		For Tie-Downs, Add	*136.70*	
02 87 19 00-0050	EA	8' x 32' Mobile Trailer With Toilet, Purchase	19,447.64	
		For Tie-Downs, Add	*136.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0051	EA	10' x 36' Mobile Trailer With Toilet, Purchase	27,743.62	
		For Tie-Downs, Add	*136.70*	
02 87 19 00-0052	EA	10' x 44' Mobile Trailer With Toilet, Purchase	34,663.91	
		For Tie-Downs, Add	*136.70*	
02 87 19 00-0053	EA	10' x 50' Mobile Trailer With Toilet, Purchase	39,408.11	
		For Tie-Downs, Add	*136.70*	
02 87 19 00-0054	EA	12' x 50' Mobile Trailer With Toilet, Purchase	41,432.41	
		For Tie-Downs, Add	*136.70*	
02 87 19 00-0055	EA	12' x 60' Mobile Trailer With Toilet, Purchase	46,101.54	
		For Tie-Downs, Add	*136.70*	
02 87 19 00-0056		**Accessories For Portable And Mobile Trailers** *(02 87 19 00-0045)*		
02 87 19 00-0057		**Skirting** *(02 87 19 00-0056)*		
		Note: Includes 2" x 4" wood framing 16" on center.		
02 87 19 00-0058	SF	1'-8" High Vinyl Covered Skirt	5.99	2.44
02 87 19 00-0059	SF	3' High Vinyl Covered Skirt	8.82	4.02
02 87 19 00-0060		**Aluminum Modular Access Ramp** *(02 87 19 00-0056)*		
		Note: Includes picketed guardrails, inside grab rails, legs and hardware.		
02 87 19 00-0061	EA	Up To 35" High, Aluminum Modular Access Ramp	4,033.13	46.69
02 87 19 00-0062		**Aluminum Modular Stairs** *(02 87 19 00-0056)*		
		Note: Excludes earthwork		
02 87 19 00-0063	EA	Aluminum Steps For Mobile Trailers	1,116.13	
02 87 19 00-0064		**Decontamination Chambers For Bio-Hazard And Infectious Disease Control** *(02 87 19)*		
		Note: Includes removal after use.		
02 87 19 00-0065	EA	Portable Personnel Decontamination Wash Facility (3 Stage) For Bio-Hazard And Infectious Disease Control Note: Includes connection to negative air system.	1,100.74	
02 87 19 00-0066	EA	Portable Personnel Decontamination Wash Facility (5 Stage) For Bio-Hazard And Infectious Disease Control Note: Includes connection to negative air system.	1,298.10	
02 87 19 00-0067	EA	Portable Waste Decontamination Unit For Bio-Hazard And Infectious Disease Control Note: Includes connection to negative air system.	677.95	
02 87 19 00-0068		**Bio-Hazard And Infectious Disease Control Cleaning, Level 2** *(02 87 19)*		
		Note: Includes worker personal protection equipment suites, gloves and masks. Level 1 Biohazard - Minor bacteria and viruses as well as non-infectious bacteria. Microbes are not known to cause disease in healthy hosts and pose minimal risk to workers and the environment. Level 2 Biohazard - Bacteria and viruses that cause mild disease or are difficult to contract. Microbes are typically indigenous and are associated with diseases of varying severity. They pose moderate risk to workers and the environment. Level 3 Biohazard - Microbes are indigenous or exotic and cause serious or potential lethal diseases through respiratory transmission. Disposal of materials used to wipe down surfaces in approved landfill after use. See CSI section 02 87 19 00-0138 for disposal of material into approved landfill.		
02 87 19 00-0069		**Bio-Hazard And Infectious Disease Control Cleaning Mobilization** *(02 87 19 00-0068)*		
02 87 19 00-0070	EA	Mobilization And Set-Up For Bio-Hazard And Infectious Disease Control Note: Mobilization and set-up minimum for each site location, for levels 1, 2 or 3.	444.46	
02 87 19 00-0071		**Bio-Hazard And Infectious Disease Control Cleaning Of Surfaces** *(02 87 19 00-0068)*		
		Note: Includes electrostatic spraying of surfaces with mild bleach, wet mop/wipe, disinfect and high efficiency particulate air (HEPA) vacuum surfaces		
02 87 19 00-0072	CSF	Cleaning Of Floors For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	32.95	
		For >25 To 50, Deduct	*-3.29*	
		For >50 To 200, Deduct	*-6.59*	
		For >200, Deduct	*-9.88*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*15.37*	
		For Level 1 Biohazard Cleaning, Deduct	*-6.59*	
		For Level 3 Biohazard Cleaning, Add	*10.87*	
02 87 19 00-0073	CSF	Cleaning Of Walls For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	38.75	
		For >25 To 50, Deduct	*-3.87*	
		For >50 To 200, Deduct	*-7.75*	
		For >200, Deduct	*-11.62*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*15.37*	
		For Level 1 Biohazard Cleaning, Deduct	*-7.75*	
		For Level 3 Biohazard Cleaning, Add	*12.78*	
02 87 19 00-0074	CSF	Cleaning Of Ceilings For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	44.08	
		For >25 To 50, Deduct	*-4.41*	
		For >50 To 200, Deduct	*-8.81*	
		For >200, Deduct	*-13.22*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*15.37*	
		For Level 1 Biohazard Cleaning, Deduct	*-8.81*	
		For Level 3 Biohazard Cleaning, Add	*14.54*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0075	CSF	Cleaning Of Countertops For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	35.94	
		For Cleaning Surfaces With Goldshield® GS5, Add	*15.37*	
		For >5 To 10, Deduct	*-1.80*	
		For >10 To 50, Deduct	*-3.59*	
		For >50, Deduct	*-7.18*	
		For Level 1 Biohazard Cleaning, Deduct	*-7.18*	
		For Level 3 Biohazard Cleaning, Add	*11.85*	
02 87 19 00-0076	CSF	Cleaning Of Other Surfaces For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	45.61	
		For >25 To 50, Deduct	*-4.56*	
		For >50 To 200, Deduct	*-9.12*	
		For >200, Deduct	*-13.68*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*15.37*	
		For Level 1 Biohazard Cleaning, Deduct	*-9.12*	
		For Level 3 Biohazard Cleaning, Add	*15.04*	

02 87 19 00-0077 Bio-Hazard And Infectious Disease Control Cleaning Of Equipment And Materials *(02 87 19 00-0068)*

Note: Includes spraying of surfaces with mild bleach, wet mop/wipe and disinfect

02 87 19 00-0078	EA	Cleaning Of Plumbing Fixture For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	85.16	
		For Level 1 Biohazard Cleaning, Deduct	*-17.03*	
		For Level 3 Biohazard Cleaning, Add	*28.10*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*7.69*	
02 87 19 00-0079	EA	Cleaning Of Restroom Accessory For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	39.08	
		For Level 1 Biohazard Cleaning, Deduct	*-7.81*	
		For Level 3 Biohazard Cleaning, Add	*12.89*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*5.12*	
02 87 19 00-0080	EA	Cleaning Of Kitchen Appliance For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	137.18	
		For Level 1 Biohazard Cleaning, Deduct	*-27.43*	
		For Level 3 Biohazard Cleaning, Add	*45.26*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*7.69*	
02 87 19 00-0081	EA	Cleaning Of Electrical Switch/Receptacle For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	8.45	
		For Level 1 Biohazard Cleaning, Deduct	*-1.69*	
		For Level 3 Biohazard Cleaning, Add	*2.78*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*1.54*	
02 87 19 00-0082	EA	Cleaning Of WorkStation, Exterior Wipe For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Cleanup	126.46	
		Note: Includes desk, chair, computer, monitor(s), keyboard, mouse, lamp, drawers		
		For Level 1 Biohazard Cleaning, Deduct	*-25.29*	
		For Level 3 Biohazard Cleaning, Add	*41.73*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*7.69*	
02 87 19 00-0083	EA	Cleaning Of Knobs, Latches, And Locks For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Cleanup	13.50	
		For Level 1 Biohazard Cleaning, Deduct	*-2.70*	
		For Level 3 Biohazard Cleaning, Add	*4.45*	
		For Cleaning Surfaces With Goldshield® GS5, Add	*1.54*	

02 87 19 00-0084 Bio-Hazard And Infectious Disease Control Cleaning Of Ductwork *(02 87 19 00-0068)*

02 87 19 00-0085	LF	Up To 2 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	4.97	
		For Level 1 Biohazard Cleaning, Deduct	*-0.99*	
		For Level 3 Biohazard Cleaning, Add	*1.63*	
02 87 19 00-0086	LF	>2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	6.24	
		For Level 1 Biohazard Cleaning, Deduct	*-1.24*	
		For Level 3 Biohazard Cleaning, Add	*2.04*	
02 87 19 00-0087	LF	>4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	8.36	
		For Level 1 Biohazard Cleaning, Deduct	*-1.65*	
		For Level 3 Biohazard Cleaning, Add	*2.72*	
02 87 19 00-0088	LF	>8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	11.82	
		For Level 1 Biohazard Cleaning, Deduct	*-2.31*	
		For Level 3 Biohazard Cleaning, Add	*3.82*	
02 87 19 00-0089	EA	Clean Duct Coil For Bio-Hazard And Infectious Disease Control Cleaning	222.25	
		For Level 1 Biohazard Cleaning, Deduct	*-44.45*	
		For Level 3 Biohazard Cleaning, Add	*73.34*	
02 87 19 00-0090	SF	Clean Duct Dampers And Vane Sets For Bio-Hazard And Infectious Disease Control Cleaning	15.46	
		For Level 1 Biohazard Cleaning, Deduct	*-3.09*	
		For Level 3 Biohazard Cleaning, Add	*5.10*	
02 87 19 00-0091	EA	Clean Fan Coil Unit (FCU) Or Variable Air Volume (VAV) Unit For Bio-Hazard And Infectious Disease Control Cleaning	148.17	
		For Level 1 Biohazard Cleaning, Deduct	*-29.63*	
		For Level 3 Biohazard Cleaning, Add	*48.89*	
02 87 19 00-0092	EA	Clean Air Handling Unit Fan And Coil For Bio-Hazard And Infectious Disease Control Cleaning	444.48	
		For Level 1 Biohazard Cleaning, Deduct	*-88.89*	
		For Level 3 Biohazard Cleaning, Add	*146.67*	
02 87 19 00-0093	EA	Clean Grille/Diffuser/Register For Bio-Hazard And Infectious Disease Control Cleaning	37.06	
		Note: Includes removal and reinstallation.		
		For Level 1 Biohazard Cleaning, Deduct	*-7.41*	
		For Level 3 Biohazard Cleaning, Add	*12.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0094	SF	Apply Sporicidin Disinfectant To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning	0.66	
		For Level 1 Biohazard Cleaning, Deduct	*-0.12*	
		For Level 3 Biohazard Cleaning, Add	*0.19*	
02 87 19 00-0095	SF	Apply Goldshield® GS5 Anti-microbial Agent To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning	0.74	
		For Level 1 Biohazard Cleaning, Deduct	*-0.12*	
		For Level 3 Biohazard Cleaning, Add	*0.19*	

02 87 19 00-0096 Bio-Hazard And Infectious Disease Control Equipment Rental *(02 87 19)*

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.

02 87 19 00-0097	DAY	Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Cleanup	102.17	
02 87 19 00-0098	WK	Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Cleanup	435.16	
02 87 19 00-0099	MO	Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Cleanup	1,218.45	
02 87 19 00-0100	DAY	Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Cleanup	164.76	
02 87 19 00-0101	WK	Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Cleanup	453.10	
02 87 19 00-0102	MO	Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Cleanup	1,235.73	
02 87 19 00-0103	DAY	Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Cleanup	35.65	
02 87 19 00-0104	WK	Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Cleanup	98.05	
02 87 19 00-0105	MO	Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Cleanup	267.40	
02 87 19 00-0106	DAY	Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Cleanup	98.30	
02 87 19 00-0107	WK	Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Cleanup	403.72	
02 87 19 00-0108	MO	Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Cleanup	1,219.93	
02 87 19 00-0109	EA	High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Negative Air Machine For Bio-Hazard And Infectious Disease Control Cleanup Note: Required if over 800 hours operation.	124.87	
02 87 19 00-0110	DAY	20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	351.06	
02 87 19 00-0111	WK	20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	702.11	
02 87 19 00-0112	MO	20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	1,404.23	
02 87 19 00-0113	DAY	20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	468.08	
02 87 19 00-0114	WK	20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	936.15	
02 87 19 00-0115	MO	20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	1,872.30	
02 87 19 00-0116	DAY	20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	1,034.55	
02 87 19 00-0117	WK	20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	2,069.11	
02 87 19 00-0118	MO	20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	4,138.22	
02 87 19 00-0119	DAY	20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	1,379.41	
02 87 19 00-0120	WK	20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	2,758.81	
02 87 19 00-0121	MO	20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	5,517.62	
02 87 19 00-0122	DAY	20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	1,724.26	
02 87 19 00-0123	WK	20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	3,448.51	
02 87 19 00-0124	MO	20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup	6,897.03	
02 87 19 00-0125	EA	Set-up 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup Note: Includes staking down tent.	136.09	
02 87 19 00-0126	EA	Set-up 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup Note: Includes staking down tent.	272.17	
02 87 19 00-0127	EA	Set-up 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup Note: Includes staking down tent.	816.51	
02 87 19 00-0128	EA	Set-up 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup Note: Includes staking down tent.	1,633.03	
02 87 19 00-0129	EA	Set-up 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Cleanup Note: Includes staking down tent.	2,721.70	
02 87 19 00-0130	DAY	Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Cleanup	76.76	
02 87 19 00-0131	WK	Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Cleanup	211.10	
02 87 19 00-0132	MO	Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Cleanup	575.73	

02 87 19 00-0133 Bio-Hazard And Infectious Disease Control Hauling By Truck *(02 87 19)*

Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one-way mileage) using an appropriately sized truck.

02 87 19 00-0134	EA	Hauling With 2-3 CY Pick-up Truck, Van Or Trailer, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Cleanup Note: Each first 15 miles per trip	116.81	
		For Each Additional Mile Over First 15 Miles, Add Per Mile	*1.46*	
02 87 19 00-0135	EA	Hauling With 6 To 8 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Control Cleanup Note: Each first 15 miles per trip	192.09	
		For Each Additional Mile Over First 15 Miles, Add Per Mile	*2.40*	
02 87 19 00-0136	EA	Hauling With 10 To 12 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Cleanup Note: Each first 15 miles per trip	198.02	
		For Each Additional Mile Over First 15 Miles, Add Per Mile	*2.48*	
02 87 19 00-0137	EA	Hauling With 16' To 20', Box Or Flat Bed Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Cleanup Note: Each first 15 miles per trip	192.02	
		For Each Additional Mile Over First 15 Miles, Add Per Mile	*2.40*	

02 87 19 00-0138 Bio-Hazard And Infectious Disease Control Disposal *(02 87 19)*

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0139	CY	Bio-Hazard And Infectious Disease Control Landfill Dump Fee	44.47	

02 87 19 00-0140 BLU-MED Response Systems® (BLU-MED) Deployable Medical Facilities™ and Emergency Shelters *(02 87 19)*

Note: Includes delivery and set-up of facility, electrical, lighting and HVAC. Excludes medical equipment.

02 87 19 00-0141	EA	20' x 32.5' Medical Shelter with 1-phase electrical, 60 Hertz (BLU-MED BM-2032.5-MS/1P)	47,927.96	
02 87 19 00-0142	EA	7' x 8' Entry Vestibule (BLU-MED BM-MS-VEST)	4,607.47	
02 87 19 00-0143	EA	Vestibule End Panel with Bump Thru Door (BLU-MED BM-7x8-VEP04)	7,623.52	
02 87 19 00-0144	SF	Sub Flooring For Medical Shelter (AKS-AB846)	7.13	
02 87 19 00-0145	EA	Upgrade To Large Roto-Mold Container, Blue (AK-ULC-5)	2,092.50	
02 87 19 00-0146	EA	Environmental Control Unit-5 Ton, 60 Hertz, Blue (AK-ECU-5T-5)	34,272.45	
02 87 19 00-0147	EA	3' ECU to Generator Pigtail, 60 Hertz (AKS-AC915)	1,194.58	
02 87 19 00-0148	EA	Negative Pressure Isolation (NPI) System (AK-NPIS-5) Note: Including: (1) Germicidal/high efficiency particulate air (HEPA) Filter Unit; (1) Monitor/Alarm with Motorized Damper; (1) Isolation Partition for 20'-Wide Shelter; (1) NPI Accessories Case	53,944.28	
02 87 19 00-0149	EA	6' Step Ladder (AKS-AC595)	325.97	
02 87 19 00-0150	EA	10 Lb. Sledgehammer (AKS-AA268)	98.40	

02 87 19 00-0151 Bio-Hazard And Infectious Disease Time And Material Tasks *(02 87 19)*

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.

02 87 19 00-0152 Bio-Hazard And Infectious Disease Control Labor *(02 87 19 00-0151)*

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.

02 87 19 00-0153	HR	General Laborer For Bio-Hazard And Infectious Disease Control Cleanup	114.35	
02 87 19 00-0154	HR	Skilled Tradesman For Bio-Hazard And Infectious Disease Control Cleanup	169.88	
02 87 19 00-0155	HR	Biohazard Technician For Bio-Hazard And Infectious Disease Control Cleanup	104.85	
02 87 19 00-0156	HR	Biohazard Supervisor For Bio-Hazard And Infectious Disease Control Cleanup	126.00	
02 87 19 00-0157	HR	Project Manager For Bio-Hazard And Infectious Disease Control Cleanup	138.60	

02 87 19 00-0158 Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment *(02 87 19 00-0151)*

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.

02 87 19 00-0159	EA	Tyvek Coveralls For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment	11.80	
02 87 19 00-0160	EA	Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment	19.08	
02 87 19 00-0161	PR	Polycarbonate Lens Safety Goggles For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment	12.37	
02 87 19 00-0162	EA	Dual Cartridge Half-Mask Respirator For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment	132.79	
02 87 19 00-0163	EA	Cartridge - Respirator For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment	41.24	
02 87 19 00-0164	EA	Full Face Respirator For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment Note: Respirator Connection Type: Bayonet, 4 pt. Full Face Suspension	405.13	
02 87 19 00-0165	EA	14-1/2" Width x 9" Height Polycarbonate Visor Faceshield For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment Note: Includes basic impact ratchet headgear and faceshield safety system. ANSI Z87.1-2010	55.38	
02 87 19 00-0166	EA	19" Width x 11" Height Polycarbonate Visor Attachment To Hardhat For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment Note: Includes clear polycarbonate crown and chin guard system for hardhat. The chin guard extends below the chin, the shield extends passed the ear, and the crown extends over the forehead to the front of the hardhat. ANSI Z87.1-2015. Excludes hardhat.	100.61	
02 87 19 00-0167	BOX	Box of 100, 5 Mil, Disposable Latex Gloves For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment	21.39	
02 87 19 00-0168	EA	Gloves - Rubber (Heavy-Duty) For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment	18.27	
02 87 19 00-0169	EA	Belt-Mounted, Universal Mask, Powered Air Purifying Respirator (PAPR) System Kit For Bio-Hazard And Infectious Control Cleanup Personal Protection Equipment Note: Kit includes NIOSH Approved with Draeger DHR 7000, C420 Blower, Single-Speed Toggle, Battery - LiSO2 (BA5800/U), C420 Breathing Tube Assembly with 75-Degrees Swivel, Decon Belt Assembly 70" x 2", C420 Airflow Indicator (Afl), Micronel Safety M95 Cartridge (2), Molded Case, Black, CBRN Breathing Tube Assembly	2,707.95	

02 87 19 00-0170 Bio-Hazard And Infectious Disease Control Expendables *(02 87 19 00-0151)*

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections. See CSI section 01 56 16 00-0001 for temporary sheeting, 01 56 16 00-0043 for temporary walls.

02 87 19 00-0171	GAL	Bleach For Bio-Hazard And Infectious Disease Control Cleanup	9.20	
02 87 19 00-0172	EA	N95 Masks For Bio-Hazard And Infectious Disease Control Cleanup	4.45	
02 87 19 00-0173	GAL	Disinfectant/Anti-microbial For Bio-Hazard And Infectious Disease Control Cleanup	90.16	
02 87 19 00-0174	GAL	Goldshield® GS5 Anti-microbial Concentrate For Bio-Hazard And Infectious Disease Control Cleanup Note: Mix 1 gallon in 5 gallons of water to produce 6 gallons of ready-to-use product. Use on any surface for bacterial inhibition up to 30 days	368.99	
02 87 19 00-0175	QT	Hand Sanitizer For Bio-Hazard And Infectious Disease Control Cleanup	9.44	
02 87 19 00-0176	EA	Sponges - Dry For Bio-Hazard And Infectious Disease Control Cleanup	5.91	
02 87 19 00-0177	ROL	Tape - Duct, 2" x 50 YD For Bio-Hazard And Infectious Disease Control Cleanup	11.73	
02 87 19 00-0178	EA	UV Mini Light, Handheld For Bio-Hazard And Infectious Disease Control Cleanup	80.62	
02 87 19 00-0179	ROL	Visqueen 1 Mil, 12' x 400', For Bio-Hazard And Infectious Disease Control Cleanup	47.30	
02 87 19 00-0180	LB	Wipes, Terry Cloth 14" x 17" For Bio-Hazard And Infectious Disease Control Cleanup	6.89	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0181	EA	Wyp-Alls, Case, 160 Wipes For Bio-Hazard And Infectious Disease Control Cleanup	18.46	
02 87 19 00-0182	ROL	6 Mil, 55 Gallon Trash Bags, 50/Roll For Bio-Hazard And Infectious Disease Control Cleanup	145.60	

02 89 Hazmat Ancillary Tasks and Support *(02 80)*

02 89 00 00-0001 Barriers And Protection *(02 89)*
Note: Includes removal and disposal after use.

02 89 00 00-0002 Isolation Barriers *(02 89 00 00-0001)*
See CSI section 01 56 16 00-0043 for temporary stud walls.

02 89 00 00-0003 Hazmat Containment Construction Plastic Sheeting *(02 89 00 00-0001)*

02 89 00 00-0004	SF	6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction	0.52	
02 89 00 00-0005	SF	6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.69	
02 89 00 00-0006	SF	6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.91	
02 89 00 00-0007	SF	6 Mil Plastic Fire Retardant, Anti-static Sheeting, Applied To Floors, Hazmat Containment Construction	0.81	
02 89 00 00-0008	SF	6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	1.03	
02 89 00 00-0009	SF	6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.34	
02 89 00 00-0010	EA	Up To 36 Square Inches, Seal Wall Penetrations With Foam Firestop, Hazmat Containment Construction	140.67	
02 89 00 00-0011	EA	>36 To 72 Square Inches, Seal Wall Penetrations With Foam Firestop, Hazmat Containment Construction	273.64	
02 89 00 00-0012	EA	>72 To 144 Square Inches, Seal Wall Penetrations With Foam Firestop, Hazmat Containment Construction	536.57	
02 89 00 00-0013	LF	Caulk Seams With Latex, Hazmat Containment Construction	4.65	
02 89 00 00-0014	SF	2 Layers 6 Mil Poly, Protect Carpeted Area, Hazmat Containment Construction	2.01	

02 89 00 00-0015 Cleaning Surfaces *(02 89 00 00-0001)*
Note: Other surfaces outside contamination area but not contaminated by, or part of removal.

02 89 00 00-0016	SF	Up To 100 SF, Clean Non-Asbestos Surface	2.10	
02 89 00 00-0017	SF	>100 To 500 SF, Clean Non-Asbestos Surface	1.48	
02 89 00 00-0018	SF	>500 To 1,000 SF, Clean Non-Asbestos Surface	0.96	
02 89 00 00-0019	SF	>1,000 SF, Clean Non-Asbestos Surface	0.75	

02 89 00 00-0020 Decontamination Chambers *(02 89)*
Note: Includes cleaning of contaminated materials, removal after use and disposal of plastic barriers. See CSI section 02 89 00 00-0001 for plastic barrier sheets.

02 89 00 00-0021	EA	3 Stage Portable Personnel Decontamination Wash Facility Note: Includes connection to negative air system.	1,121.68	
02 89 00 00-0022	EA	5 Stage Portable Personnel Decontamination Wash Facility Note: Includes connection to negative air system.	1,323.26	
02 89 00 00-0023	EA	Portable Waste Decontamination Unit Note: Includes connection to negative air system.	694.71	
		For Dismantling And Relocation To A Different Area, Add	*458.29*	

02 90 Disaster Recovery *(02)*
Note: The tasks in this division are only to be used when specifically requested by the Owner and are not to be combined with tasks from other divisions of this or other Construction Task Catalogs® unless specifically requested by the Owner.

02 90 10 Right of Way Clearing *(02 90)*

02 90 10 00-0001 Load And Haul Burnable Right Of Way Debris *(02 90 10)*

02 90 10 00-0002	CY	Up To 15 Miles, Load And Haul Vegetative Debris To Designated Area	32.02	
02 90 10 00-0003	CY	>15 To 30 Miles, Load And Haul Vegetative Debris To Designated Area	38.02	
02 90 10 00-0004	CY	>30 To 60 Miles, Load And Haul Vegetative Debris To Designated Area	46.86	

02 90 10 00-0005 Load And Haul Non-Burnable Right Of Way Debris *(02 90 10)*

02 90 10 00-0006	TON	Up To 15 Miles, Load And Haul Non-Vegetative Debris To Designated Area	116.72	
02 90 10 00-0007	TON	>15 To 30 Miles, Load And Haul Non-Vegetative Debris To Designated Area	133.40	
02 90 10 00-0008	TON	>30 To 60 Miles, Load And Haul Non-Vegetative Debris To Designated Area	156.74	

02 90 10 00-0009 Haul Chipped Debris *(02 90 10)*
Note: Excludes chipping the debris. Debris is chipped and loaded by others typically at a temporary vegetative debris staging site

02 90 10 00-0010	TON	Up To 15 Miles, Load And Haul Chipped Or Ground Debris To Designated Area	86.25	
02 90 10 00-0011	TON	>15 Miles To 30 Miles, Load And Haul Chipped Or Ground Debris To Designated Area	102.23	
02 90 10 00-0012	TON	>30 Miles To 60 Miles, Load And Haul Chipped Or Ground Debris To Designated Area	134.16	

02 90 20 Vegetation Removal and Maintenance *(02 90)*

02 90 20 00-0001 Remove And Haul Stumps *(02 90 20)*

02 90 20 00-0002	EA	6" To 24" Diameter, Removal And Hauling Of Stumps	425.09	
02 90 20 00-0003	EA	>24" To 48" Diameter, Removal And Hauling Of Stumps	1,204.42	
02 90 20 00-0004	EA	>48" Diameter, Removal And Hauling Of Stumps	1,664.93	

02 90 20 00-0005 Remove Trees and Place on Right-of-Way *(02 90 20)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 20 00-0006	EA	13" - 24" DBH Tree Removal and Place on Right-of-Way	554.09	
02 90 20 00-0007	EA	>24 - 48" DBH Tree Removal and Place on Right-of-Way	1,754.89	
02 90 20 00-0008	EA	>48 - 72" DBH Tree Removal and Place on Right-of-Way	2,320.97	
02 90 20 00-0009	EA	>72" DBH Tree Removal and Place on Right-of-Way	3,868.30	

02 90 20 00-0010 Remove Hanging Limbs From Tree *(02 90 20)*

02 90 20 00-0011	EA	Removal Of Hanging Limbs From Tree, Per Each Tree	459.09	

02 90 30 Management of Temporary Storage and Reduction Site(s) *(02 90)*

02 90 30 00-0001 Management Of Temporary Storage And Reduction Site *(02 90 30)*

Note: Includes all equipment and personnel to manage and operate vegetative debris storage and reduction site(s). Sites shall be designated by the Owner.

02 90 30 00-0002	CY	Management Of Temporary Vegetative Debris Storage And Reduction Site	21.87	

02 90 50 Cleaning and Disaster Cleanup *(02 90)*

02 90 50 00-0001 Non-Mold Contaminated Wet Material Removal *(02 90 50)*

Note: For materials not requiring mold abatement.

02 90 50 00-0002	SY	Wet Broadloom Carpet Removal For Disaster Clean-up	28.21	
02 90 50 00-0003	SY	Wet Carpet Tile Removal For Disaster Clean-up	6.86	
02 90 50 00-0004	SF	Wet Batt Insulation Removal For Disaster Clean-up	0.57	
02 90 50 00-0005	SF	Wet Ceiling Tile Removal For Disaster Clean-up	0.69	
02 90 50 00-0006	SF	Single Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.67	
02 90 50 00-0007	SF	Double Layer, Wet Gypsum Board Removal For Disaster Clean-up	1.05	

02 90 50 00-0008 Cleaning *(02 90 50)*

Note: Use "Light Clean" when soot or dust is barely evident. Use "Medium Clean" when paint color can be seen through the soot or dust. Use "Heavy Clean" when paint color cannot be seen. Includes all man power, equipment and expendables required

02 90 50 00-0009 Clean Furnishings *(02 90 50 00-0008)*

02 90 50 00-0010	EA	Office Equipment, Exterior Wipe For Disaster Clean-up	28.68	
		For Medium Clean, Add	*12.05*	
		For Heavy Clean, Add	*37.28*	
02 90 50 00-0011	SF	Bookcase (Per SF Of Face Area), Light Clean For Disaster Clean-up	1.60	
		For Medium Clean, Add	*0.67*	
		For Heavy Clean, Add	*2.08*	
02 90 50 00-0012	LF	Shelving, Light Clean For Disaster Clean-up	2.87	
		For Medium Clean, Add	*1.21*	
		For Heavy Clean, Add	*3.73*	
02 90 50 00-0013	EA	Plastic Or Metal Chair, Light Clean For Disaster Clean-up	8.28	
		For Medium Clean, Add	*3.48*	
		For Heavy Clean, Add	*10.76*	
02 90 50 00-0014	EA	Upholstered Chair, Light Clean For Disaster Clean-up	26.77	
		For Medium Clean, Add	*11.24*	
		For Heavy Clean, Add	*34.80*	
02 90 50 00-0015	EA	Upholstered Sofa, Light Clean For Disaster Clean-up	165.05	
		For Medium Clean, Add	*69.32*	
		For Heavy Clean, Add	*214.57*	
02 90 50 00-0016	EA	Desk, Light Clean For Disaster Clean-up	33.77	
		For Medium Clean, Add	*14.18*	
		For Heavy Clean, Add	*43.90*	
02 90 50 00-0017	EA	Table, Light Clean For Disaster Clean-up	31.86	
		For Medium Clean, Add	*13.38*	
		For Heavy Clean, Add	*41.42*	
02 90 50 00-0018	EA	Two Drawer File Cabinet, Light Clean For Disaster Clean-up	6.99	
		For Medium Clean, Add	*2.94*	
		For Heavy Clean, Add	*9.09*	
02 90 50 00-0019	EA	Four Drawer File Cabinet, Light Clean For Disaster Clean-up	8.93	
		For Medium Clean, Add	*3.75*	
		For Heavy Clean, Add	*11.61*	
02 90 50 00-0020	LF	Base Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.33	
		For Medium Clean, Add	*3.08*	
		For Heavy Clean, Add	*9.53*	
02 90 50 00-0021	LF	Base Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up	14.34	
		For Medium Clean, Add	*6.02*	
		For Heavy Clean, Add	*18.64*	
02 90 50 00-0022	LF	Wall Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.33	
		For Medium Clean, Add	*3.08*	
		For Heavy Clean, Add	*9.53*	
02 90 50 00-0023	LF	Wall Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up	12.74	
		For Medium Clean, Add	*5.35*	
		For Heavy Clean, Add	*16.56*	
02 90 50 00-0024	EA	Picture Frame, Glass And Back, Light Clean For Disaster Clean-up	3.06	
		For Medium Clean, Add	*1.29*	
		For Heavy Clean, Add	*3.98*	

02 90 50 00-0025 Clean Hard Surfaces *(02 90 50 00-0008)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0026	LF	Wood, Vinyl Or Rubber Baseboard, Light Clean For Disaster Clean-up	0.42	
		For Medium Clean, Add	*0.18*	
		For Heavy Clean, Add	*0.55*	
02 90 50 00-0027	EA	Door And Hardware (Per Side), Light Clean For Disaster Clean-up	5.42	
		For Medium Clean, Add	*2.28*	
		For Heavy Clean, Add	*7.05*	
02 90 50 00-0028	EA	Detailed Door And Hardware (Per Side), Light Clean For Disaster Clean-up	6.14	
		For Medium Clean, Add	*2.58*	
		For Heavy Clean, Add	*7.98*	
02 90 50 00-0029	SF	Overhead Door, Light Clean For Disaster Clean-up	0.43	
		For Medium Clean, Add	*0.18*	
		For Heavy Clean, Add	*0.56*	
02 90 50 00-0030	SF	Mirror, Light Clean For Disaster Clean-up	0.32	
		For Medium Clean, Add	*0.13*	
		For Heavy Clean, Add	*0.42*	
02 90 50 00-0031	SF	Window, Light Clean For Disaster Clean-up	0.94	
		For Medium Clean, Add	*0.39*	
		For Heavy Clean, Add	*1.22*	
02 90 50 00-0032	LF	Handrail, Light Clean For Disaster Clean-up	0.83	
		For Medium Clean, Add	*0.35*	
		For Heavy Clean, Add	*1.08*	
02 90 50 00-0033	LF	Bumper Rail, Light Clean For Disaster Clean-up	0.45	
		For Medium Clean, Add	*0.19*	
		For Heavy Clean, Add	*0.59*	
02 90 50 00-0034	SF	Hard Floor, Light Clean For Disaster Clean-up	0.37	
		For Medium Clean, Add	*0.16*	
		For Heavy Clean, Add	*0.48*	
02 90 50 00-0035	SF	Carpet, Light Clean For Disaster Clean-up	0.38	
		For Medium Clean, Add	*0.16*	
		For Heavy Clean, Add	*0.49*	
02 90 50 00-0036	SF	Hard Ceiling, Light Clean For Disaster Clean-up	0.29	
		For Medium Clean, Add	*0.12*	
		For Heavy Clean, Add	*0.38*	
02 90 50 00-0037	SF	Suspended Ceiling, Tile And Grid, Light Clean For Disaster Clean-up	0.32	
		For Medium Clean, Add	*0.13*	
		For Heavy Clean, Add	*0.42*	
02 90 50 00-0038	SF	Ceramic Tile Wall, Light Clean For Disaster Clean-up	0.27	
		For Medium Clean, Add	*0.11*	
		For Heavy Clean, Add	*0.35*	
02 90 50 00-0039	SF	Wall, Light Clean For Disaster Clean-up	0.20	
		For Medium Clean, Add	*0.08*	
		For Heavy Clean, Add	*0.26*	
02 90 50 00-0040	SF	Masonry Wall, Light Clean For Disaster Clean-up	0.27	
		For Medium Clean, Add	*0.11*	
		For Heavy Clean, Add	*0.35*	
02 90 50 00-0041	EA	Up To 24 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up Note: Includes removal from site, cleaning, and return.	67.21	
		For Medium Clean, Add	*28.23*	
		For Heavy Clean, Add	*87.37*	
02 90 50 00-0042	EA	>24 To 96 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up Note: Includes removal from site, cleaning, and return.	84.01	
		For Medium Clean, Add	*35.28*	
		For Heavy Clean, Add	*109.21*	
02 90 50 00-0043	EA	>96 To 140 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up Note: Includes removal from site, cleaning, and return.	100.80	
		For Medium Clean, Add	*42.34*	
		For Heavy Clean, Add	*131.04*	
02 90 50 00-0044	EA	>140 To 216 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up	117.61	
		For Medium Clean, Add	*49.40*	
		For Heavy Clean, Add	*152.89*	

02 90 50 00-0045 Clean Window Treatments *(02 90 50 00-0008)*

02 90 50 00-0046	SF	Window Blind, Light Clean For Disaster Clean-up	0.73	
		For Medium Clean, Add	*0.31*	
		For Heavy Clean, Add	*0.95*	
02 90 50 00-0047	EA	Up To 6' Long Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.49	
		For Medium Clean, Add	*0.63*	
		For Heavy Clean, Add	*1.94*	
02 90 50 00-0048	EA	Up To 6' Long Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.72	
		For Medium Clean, Add	*0.72*	
		For Heavy Clean, Add	*2.24*	
02 90 50 00-0049	EA	>6' To 8' Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.57	
		For Medium Clean, Add	*0.66*	
		For Heavy Clean, Add	*2.04*	
02 90 50 00-0050	EA	>6' To 8' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.80	
		For Medium Clean, Add	*0.76*	
		For Heavy Clean, Add	*2.34*	
02 90 50 00-0051	EA	>8' To 10' Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.92	
		For Medium Clean, Add	*0.81*	
		For Heavy Clean, Add	*2.50*	
02 90 50 00-0052	EA	>8' To 10' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up	2.21	
		For Medium Clean, Add	*0.93*	
		For Heavy Clean, Add	*2.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0053		**Clean Appliances** *(02 90 50 00-0008)*		
02 90 50 00-0054	EA	Microwave Oven, Outside, Light Clean For Disaster Clean-up	13.20	
		For Medium Clean, Add	*5.54*	
		For Heavy Clean, Add	*17.16*	
02 90 50 00-0055	EA	Refrigerator, Outside, Light Clean For Disaster Clean-up	31.11	
		For Medium Clean, Add	*13.07*	
		For Heavy Clean, Add	*40.44*	
02 90 50 00-0056	EA	Range, Outside, Light Clean For Disaster Clean-up	26.88	
		For Medium Clean, Add	*11.29*	
		For Heavy Clean, Add	*34.94*	
02 90 50 00-0057		**Clean Plumbing** *(02 90 50 00-0008)*		
02 90 50 00-0058	EA	Water Heater, Light Clean For Disaster Clean-up	19.12	
		For Medium Clean, Add	*8.03*	
		For Heavy Clean, Add	*24.86*	
02 90 50 00-0059	EA	Plumbing Fixture, Light Clean For Disaster Clean-up	19.31	
		For Medium Clean, Add	*8.11*	
		For Heavy Clean, Add	*25.10*	
02 90 50 00-0060	EA	Restroom Accessory, Light Clean For Disaster Clean-up	8.86	
		For Medium Clean, Add	*3.72*	
		For Heavy Clean, Add	*11.52*	
02 90 50 00-0061		**Clean HVAC** *(02 90 50 00-0008)*		
02 90 50 00-0062	LF	Baseboard Heater, Light Clean For Disaster Clean-up	5.71	
		For Medium Clean, Add	*2.40*	
		For Heavy Clean, Add	*7.42*	
02 90 50 00-0063	LF	Ductwork, Exterior Wipe, Light Clean For Disaster Clean-up	15.94	
		For Medium Clean, Add	*6.69*	
		For Heavy Clean, Add	*20.72*	
02 90 50 00-0064	EA	Ductwork, Interior (Per Grille/Register), Light Clean For Disaster Clean-up	61.18	
		For Medium Clean, Add	*25.70*	
		For Heavy Clean, Add	*79.53*	
02 90 50 00-0065	EA	Grille/Register, Light Clean For Disaster Clean-up	5.73	
		For Medium Clean, Add	*2.41*	
		For Heavy Clean, Add	*7.45*	
02 90 50 00-0066	EA	Air Handling Unit, Exterior Wipe, Light Clean For Disaster Clean-up	39.72	
		For Medium Clean, Add	*16.68*	
		For Heavy Clean, Add	*51.64*	
02 90 50 00-0067	EA	Furnace, Exterior Wipe, Light Clean For Disaster Clean-up	35.37	
		For Medium Clean, Add	*14.86*	
		For Heavy Clean, Add	*45.98*	
02 90 50 00-0068		**Clean Electrical** *(02 90 50 00-0008)*		
02 90 50 00-0069	EA	Electric Fan, Light Clean For Disaster Clean-up	23.58	
		For Medium Clean, Add	*9.90*	
		For Heavy Clean, Add	*30.65*	
02 90 50 00-0070	EA	Ceiling Fan, Light Clean For Disaster Clean-up	25.49	
		For Medium Clean, Add	*10.71*	
		For Heavy Clean, Add	*33.14*	
02 90 50 00-0071	EA	Ceiling Fan And Light, Light Clean For Disaster Clean-up	33.14	
		For Medium Clean, Add	*13.92*	
		For Heavy Clean, Add	*43.08*	
02 90 50 00-0072	EA	Ceiling Exhaust Fan, Light Clean For Disaster Clean-up	23.26	
		For Medium Clean, Add	*9.77*	
		For Heavy Clean, Add	*30.24*	
02 90 50 00-0073	EA	2' x 4' Light Fixture, Light Clean For Disaster Clean-up	15.30	
		For Medium Clean, Add	*6.43*	
		For Heavy Clean, Add	*19.89*	
02 90 50 00-0074	EA	Light Fixture, Light Clean For Disaster Clean-up	7.01	
		For Medium Clean, Add	*2.94*	
		For Heavy Clean, Add	*9.11*	
02 90 50 00-0075	EA	Smoke Detector, Light Clean For Disaster Clean-up	5.42	
		For Medium Clean, Add	*2.28*	
		For Heavy Clean, Add	*7.05*	
02 90 50 00-0076	EA	Thermostat, Light Clean For Disaster Clean-up	1.91	
		For Medium Clean, Add	*0.80*	
		For Heavy Clean, Add	*2.48*	
02 90 50 00-0077		**Thermal Fog** *(02 90 50 00-0008)*		
02 90 50 00-0078	CF	Clean And Deodorize Building With Thermal Fog For Disaster Clean-up	0.02	
02 90 50 00-0079		**Contents Manipulation** *(02 90 50)*		
02 90 50 00-0080	SF	Cover Contents With 6 Mil Plastic Sheeting For Disaster Clean-up	0.25	
02 90 50 00-0081	SF	Floor Protection, Adhesive Film For Disaster Clean-up	0.31	
02 90 50 00-0082	SF	Move Contents Out And Later Reset For Disaster Clean-up	0.50	
02 90 50 00-0083	MO	20' Long Job Site Storage Trailer For Disaster Clean-up	155.80	
02 90 50 00-0084	MO	40' Long Job Site Storage Trailer For Disaster Clean-up	206.62	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0085	EA	Delivery Or Pickup Job Site Storage Trailer For Disaster Clean-up	148.22	
02 90 50 00-0086		**Water Disaster Clean-up** *(02 90 50)*		
02 90 50 00-0087	LF	Detach Baseboard For Disaster Clean-up	0.69	
02 90 50 00-0088	LF	Detach And Later Reset Baseboard For Disaster Clean-up	1.23	
02 90 50 00-0089	EA	Block And Pad Furniture (Per Piece Of Furniture) For Disaster Clean-up	4.52	
02 90 50 00-0090	SF	Water Extraction From Floor For Disaster Clean-up	0.47	
02 90 50 00-0091	SF	Gray Water Extraction From Floor For Disaster Clean-up	0.76	
02 90 50 00-0092	SF	Black Water Extraction From Floor For Disaster Clean-up	1.20	
02 90 50 00-0093	SF	Tear Out Wet Non-Salvageable Carpet For Disaster Clean-up	0.37	
02 90 50 00-0094	SF	Tear Out Wet Non-Salvageable Carpet, Black Water For Disaster Clean-up	0.44	
02 90 50 00-0095	SF	Tear Out Wet Non-Salvageable Glue Down Carpet For Disaster Clean-up	0.67	
02 90 50 00-0096	SF	Tear Out Wet Non-Salvageable Glue Down Carpet, Black Water For Disaster Clean-up	0.98	
02 90 50 00-0097	SF	Tear Out Vinyl Flooring For Disaster Clean-up	0.93	
02 90 50 00-0098	SF	Tear Out Vinyl Flooring, Black Water For Disaster Clean-up	1.36	
02 90 50 00-0099	SF	Tear Out Wood Flooring, Black Water For Disaster Clean-up	3.51	
02 90 50 00-0100	SF	Tear Out Laminated Wood Flooring For Disaster Clean-up	1.72	
02 90 50 00-0101	SF	Tear Out Laminated Wood Flooring, Black Water For Disaster Clean-up	2.53	
02 90 50 00-0102	SF	Tear Out Wet Ceiling Tile For Disaster Clean-up	0.29	
02 90 50 00-0103	SF	Tear Out Batt Insulation For Disaster Clean-up	0.29	
02 90 50 00-0104	SF	Tear Out Wet Gypsum Board For Disaster Clean-up	0.49	
02 90 50 00-0105	SF	Apply Anti-microbial Agent For Disaster Clean-up	0.29	
02 90 50 00-0106	SF	High Efficiency Particulate Air (HEPA) Vacuuming For Disaster Clean-up	0.36	
02 90 50 00-0107		**Board Up And Tarp Up** *(02 90 50)*		
02 90 50 00-0108	SF	Polyethylene Tarp On Roof For Disaster Clean-up	0.25	
02 90 50 00-0109	SF	1/2" Temporary Plywood On Roof For Disaster Clean-up	1.59	
02 90 50 00-0110	SF	5/8" Temporary Plywood On Roof For Disaster Clean-up	1.81	
02 90 50 00-0111	SF	3/4" Temporary Plywood On Roof For Disaster Clean-up	1.98	
02 90 50 00-0112	SF	1/2" Temporary Plywood On Wall Or Windows For Disaster Clean-up	1.97	
02 90 50 00-0113	SF	5/8" Temporary Plywood On Wall Or Windows For Disaster Clean-up	2.19	
02 90 50 00-0114	SF	3/4" Temporary Plywood On Wall Or Windows For Disaster Clean-up	2.36	
02 90 50 00-0115		**Minimum Charge For Disaster Cleanup** *(02 90 50)*		
02 90 50 00-0116	EA	Minimum Charge For Disaster Cleaning	1,484.45	
02 90 50 00-0117	EA	Minimum Charge For Disaster Water Extraction	286.15	
02 90 50 00-0118	EA	Minimum Charge For Disaster Carpet Cleaning	200.60	
02 90 50 00-0119		**Document Restoration** *(02 90 50)*		
02 90 50 00-0120	EA	Book Rebinding, Each For Document Restoration	103.60	
02 90 50 00-0121	EA	Book Recasing, Each For Document Restoration	51.79	
02 90 50 00-0122	EA	Boxes-MCS, 1.2 CF For Document Restoration	9.65	
02 90 50 00-0123	EA	Boxes-MCS, 2.0 CF For Document Restoration	10.64	
02 90 50 00-0124	EA	Boxes Bankers For Document Restoration	16.55	
02 90 50 00-0125	EA	Boxes Standard Packout For Document Restoration	6.18	
02 90 50 00-0126	EA	Boxes X Ray For Document Restoration	10.36	
02 90 50 00-0127	EA	CD Scanning and Diagnostics, Each For Document Restoration	10.36	
02 90 50 00-0128	EA	Cleaning Antique Books, Each For Document Restoration	310.77	
02 90 50 00-0129	EA	Cleaning Catheter Roll, Per Roll For Document Restoration	41.42	
02 90 50 00-0130	EA	Cleaning CD And DVD, Per Disc For Document Restoration	4.16	
02 90 50 00-0131	EA	Cleaning Level 1 - Blue Prints, Each For Document Restoration	4.31	
02 90 50 00-0132	CF	Cleaning Level 1 - Document Per CF For Document Restoration	133.69	
02 90 50 00-0133	EA	Cleaning Level 1 - Linen, Each For Document Restoration	4.31	
02 90 50 00-0134	EA	Cleaning Level 1 - Mylar, Each For Document Restoration	4.31	
02 90 50 00-0135	EA	Cleaning Level 2 - Blue Print, Each For Document Restoration	5.36	
02 90 50 00-0136	CF	Cleaning Level 2 - Document Per CF For Document Restoration	200.35	
02 90 50 00-0137	EA	Cleaning Level 2 - Linen, Each For Document Restoration	5.36	
02 90 50 00-0138	EA	Cleaning Level 2 - Mylar, Each For Document Restoration	5.36	
02 90 50 00-0139	EA	Cleaning Level 3 - Blue Prints, Each For Document Restoration	7.60	
02 90 50 00-0140	CF	Cleaning Level 3 - Document Per CF For Document Restoration	267.33	
02 90 50 00-0141	EA	Cleaning Level 3 - Linen, Each For Document Restoration	7.60	
02 90 50 00-0142	EA	Cleaning Level 3 - Mylar, Each For Document Restoration	7.60	
02 90 50 00-0143	EA	Cleaning Level 4 - All Fire-Blue Print, Each For Document Restoration	10.66	
02 90 50 00-0144	EA	Cleaning Level 4 - All Fire-Linen, Each For Document Restoration	10.66	
02 90 50 00-0145	EA	Cleaning Level 4 - All Fire-Mylar, Each For Document Restoration	10.66	
02 90 50 00-0146	CF	Cleaning Level 4 - Light Fire-Document Per CF For Document Restoration	334.10	
02 90 50 00-0147	EA	Cleaning Level 5 - Severe Fire-Blue Print, Each For Document Restoration	11.81	
02 90 50 00-0148	CF	Cleaning Level 5 - Severe Fire-Document Per CF For Document Restoration	501.30	
02 90 50 00-0149	EA	Cleaning Level 5 - Severe Fire-Linen, Each For Document Restoration	11.81	
02 90 50 00-0150	EA	Cleaning Level 5 - Severe Fire-Mylar, Each For Document Restoration	11.81	
02 90 50 00-0151	EA	Cleaning Microfiche Sheets, Each For Document Restoration	4.19	
02 90 50 00-0152	EA	Cleaning Microfiche Strips, Each For Document Restoration	0.97	
02 90 50 00-0153	EA	Cleaning Microfilm Rolls (In House), Per Roll For Document Restoration	103.60	
02 90 50 00-0154	EA	Cleaning Microfilm Rolls (Outside), Per Roll For Document Restoration	145.04	
02 90 50 00-0155	EA	Cleaning Photographs Negatives, Per Negative For Document Restoration	4.19	
02 90 50 00-0156	EA	Cleaning Photographs, Each For Document Restoration	0.97	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0157	EA	Cleaning Record Albums, Each For Document Restoration	4.16	
02 90 50 00-0158	EA	Cleaning VHS And Beta Tapes-In House, Each For Document Restoration	10.36	
02 90 50 00-0159	EA	Cleaning VHS And Beta Tapes-Outside, Each For Document Restoration	41.42	
02 90 50 00-0160	EA	Cleaning X Ray 1-1000, Per Film For Document Restoration	5.72	
02 90 50 00-0161	EA	Cleaning X Ray 1K-5K, Per Film For Document Restoration	4.89	
02 90 50 00-0162	EA	Cleaning X Ray 5K-Up, Per Film For Document Restoration	3.83	
02 90 50 00-0163	EA	Copying Clean Water, Per Page For Document Restoration	0.56	
02 90 50 00-0164	EA	Copying Greywater Fire, Per Page For Document Restoration	1.12	
02 90 50 00-0165	CF	Deodorization, Vapor Tech For Document Restoration	7.21	
02 90 50 00-0166	CF	Disinfectant-Fogging For Document Restoration	14.53	
02 90 50 00-0167	EA	Document Disposal In House No Shredding For Document Restoration	56.04	
02 90 50 00-0168	EA	Document Disposal In House With Shredding For Document Restoration	15.29	
02 90 50 00-0169	CF	Up To 150 CF, Drying-MCS Center For Document Restoration	186.46	
02 90 50 00-0170	CF	>150 To 500 CF, Drying-MCS Center For Document Restoration	145.04	
02 90 50 00-0171	CF	>500 CF, Drying-MCS Center For Document Restoration	124.31	
02 90 50 00-0172	CF	>50 To 150 CF, Drying-MCS Center For Document Restoration	165.75	
02 90 50 00-0173	CF	Up To 500 CF, Drying-Onsite For Document Restoration	310.77	
02 90 50 00-0174	CF	>500 CF, Drying-Onsite For Document Restoration	190.64	
02 90 50 00-0175	EA	Drying Antique Books, Each For Document Restoration	41.42	
02 90 50 00-0176	EA	Drying Blue Prints, Each For Document Restoration	5.18	
02 90 50 00-0177	EA	DVD Scanning And Diagnostics, Each For Document Restoration	10.36	
02 90 50 00-0178	EA	Freeze Drying (In House) For Document Restoration	139.01	
02 90 50 00-0179	EA	Freeze Drying (Outside) For Document Restoration	119.15	
02 90 50 00-0180	EA	Minimum Charge For Up To 48 CF, Irradiation - Gamma For Document Restoration	3,276.74	
02 90 50 00-0181	CF	>48 CF, Irradiation - Gamma (Per CF Charge) For Document Restoration	29.79	
02 90 50 00-0182	EA	Minimal Drying Jobs For Document Restoration	1,380.20	
02 90 50 00-0183	EA	Monthly Storage For Document Restoration	230.76	
02 90 50 00-0184	EA	Mylar Prints For Document Restoration	10.36	
02 90 50 00-0185	CF	Ozoning For Document Restoration	6.48	
02 90 50 00-0186	CF	Stabilization Freezer Storage, Per Cubic Foot Per Month For Document Restoration	11.99	
02 90 50 00-0187	MO	Stabilization Freezer Storage, Per Page-Per Month For Document Restoration	0.10	
02 90 50 00-0188	EA	Wood Pallets, Each For Document Restoration	33.34	

02 90 55 Emergency Clean-up *(02 90)*

02 90 55 00-0001 Emergency Clean-up *(02 90 55)*

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Cleanup sections.

02 90 55 00-0002 Emergency Clean-up Labor *(02 90 55 00-0001)*

Note: Used in the performance of time and material projects. Labor costs are based on workers familiar with and skilled in the performance of the task following restoration requirements. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Cleanup sections.

02 90 55 00-0003	HR	Skilled Tradesman For Emergency Cleanup	62.88	
02 90 55 00-0004	HR	Restoration / Document Laborer For Emergency Cleanup	44.00	
02 90 55 00-0005	HR	Restoration / Document Supervisor For Emergency Cleanup	60.50	
02 90 55 00-0006	HR	Restoration / Document Project Manager For Emergency Cleanup	99.00	
02 90 55 00-0007	HR	Assistant Project Manager For Emergency Cleanup	82.50	
02 90 55 00-0008	HR	Senior Project Manager For Emergency Cleanup	115.50	
02 90 55 00-0009	HR	Project Director / Document Consultant / Account Manager For Emergency Cleanup	165.00	
02 90 55 00-0010	HR	Equipment Technician For Emergency Cleanup	121.00	
02 90 55 00-0011	HR	Mold Remediation Laborer For Emergency Cleanup	60.25	
02 90 55 00-0012	HR	Mold Remediation Supervisor For Emergency Cleanup	82.50	
02 90 55 00-0013	HR	Administrative Personnel For Emergency Cleanup	38.50	
02 90 55 00-0014	HR	Project Accountant For Emergency Cleanup	62.88	
02 90 55 00-0015	HR	Biohazard Technician For Emergency Cleanup	87.38	
02 90 55 00-0016	HR	Biohazard Supervisor For Emergency Cleanup	105.00	
02 90 55 00-0017	HR	Health And Safety Officer For Emergency Cleanup	94.25	
02 90 55 00-0018	HR	Resource And Logistics Coordinator For Emergency Cleanup	68.12	
02 90 55 00-0019	HR	Loss Control Specialist For Emergency Cleanup	66.00	
02 90 55 00-0020	HR	Moisture Control Specialist For Emergency Cleanup	54.50	
02 90 55 00-0021	HR	Mobilzation Support For Emergency Cleanup	33.50	

02 90 55 00-0022 Emergency Clean-up Equipment *(02 90 55 00-0001)*

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Cleanup sections.

02 90 55 00-0023 General Emergency Clean-up Equipment *(02 90 55 00-0022)*

02 90 55 00-0024	DAY	265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up	102.17	
02 90 55 00-0025	WK	265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up	389.75	
02 90 55 00-0026	MO	265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up	1,067.09	
02 90 55 00-0027	DAY	13" Floor Buffer Rental For Emergency Clean-up	39.93	
02 90 55 00-0028	WK	13" Floor Buffer Rental For Emergency Clean-up	90.01	
02 90 55 00-0029	MO	13" Floor Buffer Rental For Emergency Clean-up	248.47	
02 90 55 00-0030	DAY	17" Floor Buffer Rental For Emergency Clean-up	62.12	
02 90 55 00-0031	WK	17" Floor Buffer Rental For Emergency Clean-up	158.46	
02 90 55 00-0032	MO	17" Floor Buffer Rental For Emergency Clean-up	373.97	
02 90 55 00-0033	DAY	Walk Behind Floor Scrubber Rental For Emergency Clean-up	342.28	
02 90 55 00-0034	WK	Walk Behind Floor Scrubber Rental For Emergency Clean-up	919.08	
02 90 55 00-0035	MO	Walk Behind Floor Scrubber Rental For Emergency Clean-up	2,560.75	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0036	DAY	Ride-On Floor Scrubber Rental For Emergency Clean-up	773.30	
02 90 55 00-0037	WK	Ride-On Floor Scrubber Rental For Emergency Clean-up	2,041.00	
02 90 55 00-0038	MO	Ride-On Floor Scrubber Rental For Emergency Clean-up	5,501.82	
02 90 55 00-0039	DAY	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	73.55	
02 90 55 00-0040	WK	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	208.96	
02 90 55 00-0041	MO	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	718.83	
02 90 55 00-0042	DAY	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	68.54	
02 90 55 00-0043	WK	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	183.89	
02 90 55 00-0044	MO	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	476.43	
02 90 55 00-0045	DAY	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	109.66	
02 90 55 00-0046	WK	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	312.94	
02 90 55 00-0047	MO	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	874.63	
02 90 55 00-0048	DAY	Truck Mounted Extractor Rental For Emergency Clean-up	1,019.75	
02 90 55 00-0049	WK	Truck Mounted Extractor Rental For Emergency Clean-up	3,059.25	
02 90 55 00-0050	MO	Truck Mounted Extractor Rental For Emergency Clean-up	9,177.75	
02 90 55 00-0051	DAY	16" Chain Saw Rental For Emergency Clean-up	80.24	
02 90 55 00-0052	WK	16" Chain Saw Rental For Emergency Clean-up	180.54	
02 90 55 00-0053	MO	16" Chain Saw Rental For Emergency Clean-up	481.45	
02 90 55 00-0054	DAY	20" Chain Saw Rental For Emergency Clean-up	100.30	
02 90 55 00-0055	WK	20" Chain Saw Rental For Emergency Clean-up	225.68	
02 90 55 00-0056	MO	20" Chain Saw Rental For Emergency Clean-up	601.81	
02 90 55 00-0057	EA	Cleaning Kit With Mop, Broom And Bucket For Emergency Clean-up	75.23	
02 90 55 00-0058	DAY	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up	106.99	
02 90 55 00-0059	WK	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up	292.55	
02 90 55 00-0060	MO	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up	819.13	
02 90 55 00-0061	DAY	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	130.39	
02 90 55 00-0062	WK	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	443.00	
02 90 55 00-0063	MO	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	844.21	
02 90 55 00-0064	DAY	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	121.22	
02 90 55 00-0065	WK	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	333.35	
02 90 55 00-0066	MO	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	909.15	
02 90 55 00-0067	DAY	Extension Cords - 220 Volt For Emergency Clean-up	41.79	
02 90 55 00-0068	DAY	Extension Cords - 220 Volt Converter Box For Emergency Clean-up	25.08	
02 90 55 00-0069	DAY	Demolition Cart, 1 Yard For Emergency Clean-up	66.87	
02 90 55 00-0070	WK	Demolition Cart, 1 Yard For Emergency Clean-up	183.89	
02 90 55 00-0071	MO	Demolition Cart, 1 Yard For Emergency Clean-up	501.51	
02 90 55 00-0072	DAY	Demolition Cart, 1-1/2 Yard For Emergency Clean-up	83.58	
02 90 55 00-0073	WK	Demolition Cart, 1-1/2 Yard For Emergency Clean-up	229.86	
02 90 55 00-0074	MO	Demolition Cart, 1-1/2 Yard For Emergency Clean-up	626.89	
02 90 55 00-0075	EA	Demolition Kit With Wheel Barrow, Shovel And Broom For Emergency Clean-up	125.38	
02 90 55 00-0076	DAY	Dry-Ice Blasting System For Emergency Clean-up	1,797.18	
02 90 55 00-0077	DAY	Fogger - Mist For Emergency Clean-up	35.65	
02 90 55 00-0078	WK	Fogger - Mist For Emergency Clean-up	98.05	
02 90 55 00-0079	MO	Fogger - Mist For Emergency Clean-up	267.40	
02 90 55 00-0080	DAY	Fogger - Electric Thermal For Emergency Clean-up	51.34	
02 90 55 00-0081	WK	Fogger - Electric Thermal For Emergency Clean-up	141.18	
02 90 55 00-0082	MO	Fogger - Electric Thermal For Emergency Clean-up	385.05	
02 90 55 00-0083	DAY	Fogger - Gas Power Thermal For Emergency Clean-up	201.84	
02 90 55 00-0084	WK	Fogger - Gas Power Thermal For Emergency Clean-up	555.07	
02 90 55 00-0085	MO	Fogger - Gas Power Thermal For Emergency Clean-up	1,513.82	
02 90 55 00-0086	EA	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	169.78	
02 90 55 00-0087	WK	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	466.88	
02 90 55 00-0088	MO	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	1,273.31	
02 90 55 00-0089	DAY	Hand Trucks/Dollies For Emergency Clean-up	20.06	
02 90 55 00-0090	WK	Hand Trucks/Dollies For Emergency Clean-up	55.17	
02 90 55 00-0091	MO	Hand Trucks/Dollies For Emergency Clean-up	150.45	
02 90 55 00-0092	DAY	Heat Gun - Shrink Wrap For Emergency Clean-up	138.46	
02 90 55 00-0093	WK	Heat Gun - Shrinkwrap For Emergency Clean-up	380.76	
02 90 55 00-0094	MO	Heat Gun - Shrinkwrap For Emergency Clean-up	1,038.43	
02 90 55 00-0095	DAY	High Efficiency Particulate Air (HEPA) Negative Air Machine For Emergency Clean-up Note: Includes all filters.	149.40	
02 90 55 00-0096	DAY	Ladder For Emergency Clean-up	28.42	
02 90 55 00-0097	DAY	Lights - Demo, Drop, Stand, String For Emergency Clean-up	25.67	
02 90 55 00-0098	DAY	Lights - Wobble For Emergency Clean-up	31.37	
02 90 55 00-0099	DAY	Moisture Meter For Emergency Clean-up	42.78	
02 90 55 00-0100	WK	Moisture Meter For Emergency Clean-up	117.65	
02 90 55 00-0101	MO	Moisture Meter For Emergency Clean-up	320.87	
02 90 55 00-0102	DAY	Nail Gun For Emergency Clean-up	75.23	
02 90 55 00-0103	WK	Nail Gun For Emergency Clean-up	206.87	
02 90 55 00-0104	MO	Nail Gun For Emergency Clean-up	564.20	
02 90 55 00-0105	DAY	Ozone Generator For Emergency Clean-up	178.26	
02 90 55 00-0106	DAY	PPE (Personal Protective Equipment) Mold Remediation Related For Emergency Clean-up	100.30	
02 90 55 00-0107	DAY	Portable Generator, Up To 7,500 Watt For Emergency Clean-up	142.61	
02 90 55 00-0108	DAY	Pressure Washer, Hot For Emergency Clean-up	213.92	
02 90 55 00-0109	DAY	Pressure Washer, Cold For Emergency Clean-up	142.61	
02 90 55 00-0110	DAY	Scaffolding - Per Section For Emergency Clean-up	108.66	
02 90 55 00-0111	DAY	Small Tools - Tool Box For Emergency Clean-up	41.79	
02 90 55 00-0112	DAY	Soda Blasting Equipment For Emergency Clean-up	1,783.33	
02 90 55 00-0113	DAY	Sprayer - Hudson For Emergency Clean-up	13.37	
02 90 55 00-0114	WK	Sprayer - Hudson For Emergency Clean-up	36.78	
02 90 55 00-0115	MO	Sprayer - Hudson For Emergency Clean-up	100.30	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0116	DAY	0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	90.34	
02 90 55 00-0117	WK	0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	265.80	
02 90 55 00-0118	MO	0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	909.77	
02 90 55 00-0119	DAY	0.60 GPM, Airless Paint Sprayer For Emergency Clean-up	178.14	
02 90 55 00-0120	WK	0.60 GPM, Airless Paint Sprayer For Emergency Clean-up	419.90	
02 90 55 00-0121	MO	0.60 GPM, Airless Paint Sprayer For Emergency Clean-up	1,170.62	
02 90 55 00-0122	DAY	0.80 GPM, Airless Paint Sprayer For Emergency Clean-up	190.86	
02 90 55 00-0123	WK	0.80 GPM, Airless Paint Sprayer For Emergency Clean-up	477.15	
02 90 55 00-0124	MO	0.80 GPM, Airless Paint Sprayer For Emergency Clean-up	1,285.14	
02 90 55 00-0125	DAY	Storage Space (Per SF Per Day) For Emergency Clean-up	4.81	
02 90 55 00-0126	DAY	Submersible Pump For Emergency Clean-up	35.65	
02 90 55 00-0127	DAY	Trash Pump - 2" Gas Powered For Emergency Clean-up	256.61	
02 90 55 00-0128	DAY	Vehicle, Pick-up, SUV, Car For Emergency Clean-up	127.38	
02 90 55 00-0129	DAY	Vehicle, Van For Emergency Clean-up	207.69	
02 90 55 00-0130	DAY	16' Or 24' Box Truck Vehicle For Emergency Clean-up Note: Includes Mileage	280.34	
02 90 55 00-0131	DAY	Trailer - Refrigerated 40' Storage For Emergency Clean-up	275.99	
02 90 55 00-0132	DAY	Utility Trailer For Emergency Clean-up Note: Includes Mileage	229.84	
02 90 55 00-0133	DAY	Truck Mount, Per Wand Extraction For Emergency Clean-up	1,036.59	
02 90 55 00-0134	DAY	High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	35.65	
02 90 55 00-0135	WK	High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	98.05	
02 90 55 00-0136	MO	High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	267.40	
02 90 55 00-0137	DAY	12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	121.22	
02 90 55 00-0138	WK	12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	333.35	
02 90 55 00-0139	MO	12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	909.15	
02 90 55 00-0140	DAY	Vacuum - Upright For Emergency Clean-up	30.46	
02 90 55 00-0141	WK	Vacuum - Upright For Emergency Clean-up	83.77	
02 90 55 00-0142	MO	Vacuum - Upright For Emergency Clean-up	228.45	
02 90 55 00-0143	DAY	12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up	51.82	
02 90 55 00-0144	WK	12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up	128.72	
02 90 55 00-0145	MO	12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up	309.26	
02 90 55 00-0146	DAY	55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up	51.82	
02 90 55 00-0147	WK	55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up	128.72	
02 90 55 00-0148	MO	55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up	325.98	
02 90 55 00-0149	DAY	17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up	118.69	
02 90 55 00-0150	WK	17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up	317.62	
02 90 55 00-0151	MO	17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up	886.00	
02 90 55 00-0152	DAY	Zip Wall Poles (Per 2 Poles) For Emergency Clean-up	35.65	
02 90 55 00-0153	WK	Zip Wall Poles (Per 2 Poles) For Emergency Clean-up	98.05	
02 90 55 00-0154	MO	Zip Wall Poles (Per 2 Poles) For Emergency Clean-up	267.40	
02 90 55 00-0155	DAY	10' x 10' Canopy For Emergency Clean-up	105.32	
02 90 55 00-0156	WK	10' x 10' Canopy For Emergency Clean-up	210.63	
02 90 55 00-0157	MO	10' x 10' Canopy For Emergency Clean-up	421.27	
02 90 55 00-0158	DAY	10' x 20' Canopy For Emergency Clean-up	210.63	
02 90 55 00-0159	WK	10' x 20' Canopy For Emergency Clean-up	421.27	
02 90 55 00-0160	MO	10' x 20' Canopy For Emergency Clean-up	842.54	
02 90 55 00-0161	DAY	16' x 16' Canopy For Emergency Clean-up	264.13	
02 90 55 00-0162	WK	16' x 16' Canopy For Emergency Clean-up	528.26	
02 90 55 00-0163	MO	16' x 16' Canopy For Emergency Clean-up	1,056.51	
02 90 55 00-0164	DAY	20' x 20' Canopy For Emergency Clean-up	351.06	
02 90 55 00-0165	WK	20' x 20' Canopy For Emergency Clean-up	702.11	
02 90 55 00-0166	MO	20' x 20' Canopy For Emergency Clean-up	1,404.23	
02 90 55 00-0167	DAY	20' x 30' Canopy For Emergency Clean-up	401.21	
02 90 55 00-0168	WK	20' x 30' Canopy For Emergency Clean-up	802.42	
02 90 55 00-0169	MO	20' x 30' Canopy For Emergency Clean-up	1,604.83	
02 90 55 00-0170	DAY	20' x 40' Canopy For Emergency Clean-up	468.08	
02 90 55 00-0171	WK	20' x 40' Canopy For Emergency Clean-up	936.15	
02 90 55 00-0172	MO	20' x 40' Canopy For Emergency Clean-up	1,872.30	
02 90 55 00-0173	DAY	First Aid Station For Emergency Clean-up	252.76	
02 90 55 00-0174	WK	First Aid Station For Emergency Clean-up	695.09	
02 90 55 00-0175	MO	First Aid Station For Emergency Clean-up	1,895.71	
02 90 55 00-0176	DAY	Portable Eyewash Station For Emergency Clean-up	76.76	
02 90 55 00-0177	WK	Portable Eyewash Station For Emergency Clean-up	211.10	
02 90 55 00-0178	MO	Portable Eyewash Station For Emergency Clean-up	575.73	
02 90 55 00-0179	DAY	2 Way Radio For Emergency Clean-up	41.70	

02 90 55 00-0180 Technical/Electronics Restoration Equipment *(02 90 55 00-0022)*

02 90 55 00-0181	DAY	Computer - Diagnostic For Emergency Clean-up	41.79	
02 90 55 00-0182	WK	Computer - Diagnostic For Emergency Clean-up	114.93	
02 90 55 00-0183	MO	Computer - Diagnostic For Emergency Clean-up	313.44	
02 90 55 00-0184	DAY	Convection Oven - Large For Emergency Clean-up	805.82	
02 90 55 00-0185	WK	Convection Oven - Large For Emergency Clean-up	2,216.01	
02 90 55 00-0186	MO	Convection Oven - Large For Emergency Clean-up	6,043.67	
02 90 55 00-0187	DAY	Convection Oven - Small For Emergency Clean-up	150.45	
02 90 55 00-0188	WK	Convection Oven - Small For Emergency Clean-up	413.75	
02 90 55 00-0189	MO	Convection Oven - Small For Emergency Clean-up	1,128.40	
02 90 55 00-0190	DAY	Convection Oven - Vacuum For Emergency Clean-up	1,150.12	
02 90 55 00-0191	WK	Convection Oven - Vacuum For Emergency Clean-up	3,162.83	
02 90 55 00-0192	MO	Convection Oven - Vacuum For Emergency Clean-up	8,625.90	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0193	DAY	Decontamination Booth For Emergency Clean-up	950.74	
02 90 55 00-0194	WK	Decontamination Booth For Emergency Clean-up	2,614.54	
02 90 55 00-0195	MO	Decontamination Booth For Emergency Clean-up	7,130.56	
02 90 55 00-0196	DAY	DI Water System For Emergency Clean-up	73.84	
02 90 55 00-0197	WK	DI Water System For Emergency Clean-up	203.07	
02 90 55 00-0198	MO	DI Water System For Emergency Clean-up	553.83	
02 90 55 00-0199	DAY	ESD Bench Workstation For Emergency Clean-up	45.23	
02 90 55 00-0200	WK	ESD Bench Workstation For Emergency Clean-up	124.38	
02 90 55 00-0201	MO	ESD Bench Workstation For Emergency Clean-up	339.22	
02 90 55 00-0202	DAY	Heater/Enclosure Control System For Emergency Clean-up	25.08	
02 90 55 00-0203	WK	Heater/Enclosure Control System For Emergency Clean-up	68.96	
02 90 55 00-0204	MO	Heater/Enclosure Control System For Emergency Clean-up	188.07	
02 90 55 00-0205	DAY	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	116.30	
02 90 55 00-0206	WK	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	319.84	
02 90 55 00-0207	MO	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	872.28	
02 90 55 00-0208	DAY	Micro-Blaster/Dust Collector For Emergency Clean-up	376.13	
02 90 55 00-0209	WK	Micro-Blaster/Dust Collector For Emergency Clean-up	1,034.36	
02 90 55 00-0210	MO	Micro-Blaster/Dust Collector For Emergency Clean-up	2,820.99	
02 90 55 00-0211	DAY	Mobile Laboratory For Emergency Clean-up	1,044.81	
02 90 55 00-0212	WK	Mobile Laboratory For Emergency Clean-up	2,873.23	
02 90 55 00-0213	MO	Mobile Laboratory For Emergency Clean-up	7,836.09	
02 90 55 00-0214	DAY	Nitrogen Enclosure Cabinet For Emergency Clean-up	20.06	
02 90 55 00-0215	WK	Nitrogen Enclosure Cabinet For Emergency Clean-up	55.17	
02 90 55 00-0216	MO	Nitrogen Enclosure Cabinet For Emergency Clean-up	150.45	
02 90 55 00-0217	DAY	Odell Cleaning Station For Emergency Clean-up	585.10	
02 90 55 00-0218	WK	Odell Cleaning Station For Emergency Clean-up	1,609.01	
02 90 55 00-0219	MO	Odell Cleaning Station For Emergency Clean-up	4,388.21	
02 90 55 00-0220	DAY	Parts Washer For Emergency Clean-up	41.79	
02 90 55 00-0221	WK	Parts Washer For Emergency Clean-up	114.93	
02 90 55 00-0222	MO	Parts Washer For Emergency Clean-up	313.44	
02 90 55 00-0223	DAY	Ultrasonic Cleaning System For Emergency Clean-up	346.14	
02 90 55 00-0224	WK	Ultrasonic Cleaning System For Emergency Clean-up	951.90	
02 90 55 00-0225	MO	Ultrasonic Cleaning System For Emergency Clean-up	2,596.08	
02 90 55 00-0226	DAY	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	164.76	
02 90 55 00-0227	WK	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	453.10	
02 90 55 00-0228	MO	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	1,235.73	
02 90 55 00-0229		**Drying/Dehumidification Equipment** *(02 90 55 00-0022)*		
02 90 55 00-0230	DAY	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up Note: Includes 25' high-pressure solution hose and 25' Vacuum hose.	178.26	
02 90 55 00-0231	WK	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up Note: Includes 25' high-pressure solution hose and 25' Vacuum hose.	490.23	
02 90 55 00-0232	MO	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up Note: Includes 25' high-pressure solution hose and 25' Vacuum hose.	1,336.98	
02 90 55 00-0233	DAY	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	60.87	
02 90 55 00-0234	WK	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	167.40	
02 90 55 00-0235	MO	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	456.55	
02 90 55 00-0236	DAY	3,000 CFM Axial Air Mover For Emergency Clean-up	101.46	
02 90 55 00-0237	WK	3,000 CFM Axial Air Mover For Emergency Clean-up	279.00	
02 90 55 00-0238	MO	3,000 CFM Axial Air Mover For Emergency Clean-up	760.91	
02 90 55 00-0239	DAY	Injectidry System For Emergency Clean-up	221.05	
02 90 55 00-0240	WK	Injectidry System For Emergency Clean-up	607.88	
02 90 55 00-0241	MO	Injectidry System For Emergency Clean-up	1,657.85	
02 90 55 00-0242	DAY	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	142.61	
02 90 55 00-0243	WK	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	392.18	
02 90 55 00-0244	MO	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,069.58	
02 90 55 00-0245	DAY	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	169.78	
02 90 55 00-0246	WK	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	466.88	
02 90 55 00-0247	MO	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,273.31	
02 90 55 00-0248	DAY	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	196.94	
02 90 55 00-0249	WK	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	541.58	
02 90 55 00-0250	MO	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,477.04	
02 90 55 00-0251	DAY	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	210.52	
02 90 55 00-0252	WK	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	578.93	
02 90 55 00-0253	MO	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	1,578.91	
02 90 55 00-0254	DAY	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	210.52	
02 90 55 00-0255	WK	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	578.93	
02 90 55 00-0256	MO	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	1,578.91	
02 90 55 00-0257	DAY	D-500 Desiccant Dehumidifier For Emergency Clean-up	237.68	
02 90 55 00-0258	WK	D-500 Desiccant Dehumidifier For Emergency Clean-up	653.63	
02 90 55 00-0259	MO	D-500 Desiccant Dehumidifier For Emergency Clean-up	1,782.64	
02 90 55 00-0260	DAY	D-750 Desiccant Dehumidifier For Emergency Clean-up	499.14	
02 90 55 00-0261	WK	D-750 Desiccant Dehumidifier For Emergency Clean-up	1,372.63	
02 90 55 00-0262	MO	D-750 Desiccant Dehumidifier For Emergency Clean-up	3,743.54	
02 90 55 00-0263	DAY	D-1000 Desiccant Dehumidifier For Emergency Clean-up	855.67	
02 90 55 00-0264	WK	D-1000 Desiccant Dehumidifier For Emergency Clean-up	2,353.08	
02 90 55 00-0265	MO	D-1000 Desiccant Dehumidifier For Emergency Clean-up	6,417.50	
02 90 55 00-0266	DAY	D-1500 Desiccant Dehumidifier For Emergency Clean-up	1,317.45	
02 90 55 00-0267	WK	D-1500 Desiccant Dehumidifier For Emergency Clean-up	3,623.00	
02 90 55 00-0268	MO	D-1500 Desiccant Dehumidifier For Emergency Clean-up	9,880.90	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0269	DAY	D-2000 Desiccant Dehumidifier For Emergency Clean-up	1,317.45	
02 90 55 00-0270	WK	D-2000 Desiccant Dehumidifier For Emergency Clean-up	3,623.00	
02 90 55 00-0271	MO	D-2000 Desiccant Dehumidifier For Emergency Clean-up	9,880.90	
02 90 55 00-0272	DAY	D-2250 Desiccant Dehumidifier For Emergency Clean-up	1,375.86	
02 90 55 00-0273	WK	D-2250 Desiccant Dehumidifier For Emergency Clean-up	3,783.61	
02 90 55 00-0274	MO	D-2250 Desiccant Dehumidifier For Emergency Clean-up	10,318.92	
02 90 55 00-0275	DAY	D-3000 Desiccant Dehumidifier For Emergency Clean-up	1,711.33	
02 90 55 00-0276	WK	D-3000 Desiccant Dehumidifier For Emergency Clean-up	4,706.16	
02 90 55 00-0277	MO	D-3000 Desiccant Dehumidifier For Emergency Clean-up	12,834.99	
02 90 55 00-0278	DAY	D-4500 Desiccant Dehumidifier For Emergency Clean-up	1,925.25	
02 90 55 00-0279	WK	D-4500 Desiccant Dehumidifier For Emergency Clean-up	5,294.43	
02 90 55 00-0280	MO	D-4500 Desiccant Dehumidifier For Emergency Clean-up	14,439.36	
02 90 55 00-0281	DAY	D-5000 Desiccant Dehumidifier For Emergency Clean-up	2,067.86	
02 90 55 00-0282	WK	D-5000 Desiccant Dehumidifier For Emergency Clean-up	5,686.61	
02 90 55 00-0283	MO	D-5000 Desiccant Dehumidifier For Emergency Clean-up	15,508.95	
02 90 55 00-0284	DAY	D-9000 Desiccant Dehumidifier For Emergency Clean-up	2,716.40	
02 90 55 00-0285	WK	D-9000 Desiccant Dehumidifier For Emergency Clean-up	7,470.10	
02 90 55 00-0286	MO	D-9000 Desiccant Dehumidifier For Emergency Clean-up	20,373.00	
02 90 55 00-0287	DAY	D-10500 Desiccant Dehumidifier For Emergency Clean-up	2,852.22	
02 90 55 00-0288	WK	D-10500 Desiccant Dehumidifier For Emergency Clean-up	7,843.60	
02 90 55 00-0289	MO	D-10500 Desiccant Dehumidifier For Emergency Clean-up	21,391.65	
02 90 55 00-0290	DAY	3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	677.69	
02 90 55 00-0291	WK	3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	1,863.64	
02 90 55 00-0292	MO	3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	5,082.66	
02 90 55 00-0293	DAY	5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	938.34	
02 90 55 00-0294	WK	5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	2,580.43	
02 90 55 00-0295	MO	5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	7,037.53	
02 90 55 00-0296	DAY	10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	855.67	
02 90 55 00-0297	WK	10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	2,353.08	
02 90 55 00-0298	MO	10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	6,417.50	
02 90 55 00-0299	DAY	25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	1,140.89	
02 90 55 00-0300	WK	25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	3,137.44	
02 90 55 00-0301	MO	25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	8,556.66	
02 90 55 00-0302	DAY	50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	1,925.25	
02 90 55 00-0303	WK	50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	5,294.43	
02 90 55 00-0304	MO	50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	14,439.36	
02 90 55 00-0305	DAY	80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	2,139.16	
02 90 55 00-0306	WK	80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	5,882.70	
02 90 55 00-0307	MO	80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up	16,043.74	
02 90 55 00-0308	DAY	25' Flex Duct For Emergency Clean-up	28.52	
02 90 55 00-0309	WK	25' Flex Duct For Emergency Clean-up	78.44	
02 90 55 00-0310	MO	25' Flex Duct For Emergency Clean-up	213.92	
02 90 55 00-0311	DAY	Hygrothermograph For Emergency Clean-up	41.79	
02 90 55 00-0312	WK	Hygrothermograph For Emergency Clean-up	114.93	
02 90 55 00-0313	MO	Hygrothermograph For Emergency Clean-up	313.44	
02 90 55 00-0314	DAY	Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.	9,811.79	
02 90 55 00-0315	WK	Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.	26,982.42	
02 90 55 00-0316	MO	Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.	73,588.43	

02 90 55 00-0317 Power Equipment *(02 90 55 00-0022)*

02 90 55 00-0318	WK	Up to 65 KVA Generator For Emergency Clean-up	1,290.84	
02 90 55 00-0319	WK	>65 to 125 KVA Generator For Emergency Clean-up	2,184.49	
02 90 55 00-0320	WK	>125 to 250 KVA Generator For Emergency Clean-up	2,130.56	
02 90 55 00-0321	WK	>250 to 375 KVA Generator For Emergency Clean-up	3,673.92	
02 90 55 00-0322	WK	>375 Up to 440 KVA Generator For Emergency Clean-up	4,964.75	
02 90 55 00-0323	WK	>440 to 625 KVA Generator For Emergency Clean-up	7,475.65	
02 90 55 00-0324	WK	>625 to 800 KVA Generator For Emergency Clean-up	7,645.72	
02 90 55 00-0325	WK	>800 to 1,000 KVA Generator For Emergency Clean-up	10,227.38	
02 90 55 00-0326	WK	>1,000 to 1,500 KVA Generator For Emergency Clean-up	15,390.72	
02 90 55 00-0327	EA	Generator Cable/Pigtails (Per Section) For Emergency Clean-up	33.36	
02 90 55 00-0328	EA	Sub-Distribution Panel (Spider Box) For Emergency Clean-up	159.86	
02 90 55 00-0329	EA	Electrical Distribution Panel For Emergency Clean-up	346.14	
02 90 55 00-0330	EA	Quad Box Strings (25' Sections) For Emergency Clean-up	60.07	
02 90 55 00-0331	EA	50' Power Cord For Spider Box For Emergency Clean-up	55.61	
02 90 55 00-0332	EA	Pig Tails (Per Each) For Emergency Clean-up	4.18	

02 90 55 00-0333 Freight Charges *(02 90 55 00-0022)*

02 90 55 00-0334	MI	Freight Up To 1 Ton Pick Up Truck For Emergency Clean-up Equipment	2.09	
02 90 55 00-0335	MI	Freight >1 Ton Pick Up Truck For Emergency Clean-up Equipment	3.76	
02 90 55 00-0336	MI	Freight 16' Or 24' Box Truck For Emergency Clean-up Equipment	3.76	
02 90 55 00-0337	MI	Freight Tractor Trailer For Emergency Clean-up Equipment	5.43	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0338		**Emergency Clean-up Personal Protection Equipment** *(02 90 55 00-0001)* Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Cleanup sections.		
02 90 55 00-0339	EA	Tyvek Coveralls For Emergency Clean-up Personal Protection Equipment	11.80	
02 90 55 00-0340	EA	Tyvek Coveralls With Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment	14.44	
02 90 55 00-0341	EA	Tyvek Coveralls With Hood, Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment	15.14	
02 90 55 00-0342	EA	Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment	19.08	
02 90 55 00-0343	EA	Disposable Dual Cartridge Half-Mask Respirator For Emergency Clean-up Personal Protection Equipment	132.79	
02 90 55 00-0344	EA	N95 Respirator For Emergency Clean-up Personal Protection Equipment	5.17	
02 90 55 00-0345	EA	N95 Respirator With Valve For Emergency Clean-up Personal Protection Equipment	6.04	
02 90 55 00-0346	PR	3M Respirator Cartridges For Emergency Clean-up Personal Protection Equipment	40.55	
02 90 55 00-0347	EA	Respirator Cleaning Wipes, Per Box 100 For Emergency Clean-up Personal Protection Equipment	32.44	
02 90 55 00-0348	PR	P100 Respirator Cartridges For Emergency Clean-up Personal Protection Equipment	40.55	
02 90 55 00-0349	EA	Respirator Cartridge For Emergency Clean-up Personal Protection Equipment	41.24	
02 90 55 00-0350	BOX	Dust Mask, Box of 50, For Emergency Clean-up Personal Protection Equipment	45.98	
02 90 55 00-0351	PR	Cotton Canvas Gloves For Emergency Clean-up Personal Protection Equipment	4.15	
02 90 55 00-0352	BOX	5 Mil, Disposable Latex Gloves, Box of 100, For Emergency Clean-up Personal Protection Equipment	21.39	
02 90 55 00-0353	PR	4 Mil, Disposable Nitrile Gloves For Emergency Clean-up Personal Protection Equipment	0.45	
02 90 55 00-0354	PR	5 Mil, Disposable Vinyl Gloves For Emergency Clean-up Personal Protection Equipment	0.38	
02 90 55 00-0355	PR	17 Mil, Latex Gloves For Emergency Clean-up Personal Protection Equipment	1.81	
02 90 55 00-0356	PR	15 Mil, Nitrile Gloves For Emergency Clean-up Personal Protection Equipment	4.29	
02 90 55 00-0357	PR	Vinyl Coated Gloves With Knit Lining For Emergency Clean-up Personal Protection Equipment	5.88	
02 90 55 00-0358	PR	30 Mil, Polyvinyl Chloride (PVC) And Polyvinyl Chloride (PVC) Blend Gloves For Emergency Clean-up Personal Protection Equipment	6.59	
02 90 55 00-0359	PR	Leather Gloves For Emergency Clean-up Personal Protection Equipment	10.70	
02 90 55 00-0360	EA	Heavy-Duty, Rubber Gloves For Emergency Clean-up Personal Protection Equipment	18.27	
02 90 55 00-0361	PR	Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment	12.37	
02 90 55 00-0362	PR	Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment	20.40	
02 90 55 00-0363	PR	Plastic Safety Glasses For Emergency Clean-up Personal Protection Equipment	5.42	
02 90 55 00-0364	EA	Safety Harness (Per Person/Day) For Emergency Clean-up Personal Protection Equipment	7.13	
02 90 55 00-0365		**Emergency Clean-up Expendables** *(02 90 55 00-0001)* Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Cleanup sections.		
02 90 55 00-0366		**General Materials** *(02 90 55 00-0365)*		
02 90 55 00-0367	GAL	Adhesive Remover For Emergency Clean-up	85.57	
02 90 55 00-0368	GAL	Bioside-HS Cleaning Solution For Emergency Clean-up	28.50	
02 90 55 00-0369	GAL	Biocide Mold Cleaning Solution For Emergency Clean-up	36.36	
02 90 55 00-0370	EA	10" x 12" x 15" Cardboard Storage Box For Emergency Clean-up	4.51	
02 90 55 00-0371	EA	10" x 12" x 24" Cardboard Storage Box For Emergency Clean-up	6.85	
02 90 55 00-0372	EA	10" x 15" x 24" Cardboard Storage Box For Emergency Clean-up	6.85	
02 90 55 00-0373	GAL	Bleach For Emergency Clean-up	9.20	
02 90 55 00-0374	EA	Small Stainless Brush For Emergency Clean-up	7.38	
02 90 55 00-0375	EA	2-1/2 Gallon Buckets For Emergency Clean-up	7.06	
02 90 55 00-0376	EA	5 Gallon Bucket For Emergency Clean-up	10.70	
02 90 55 00-0377	GAL	Carpet Defoamer For Emergency Clean-up	27.52	
02 90 55 00-0378	GAL	Carpet Pre-treat For Emergency Clean-up	27.32	
02 90 55 00-0379	GAL	Carpet Spotter For Emergency Clean-up	45.78	
02 90 55 00-0380	GAL	Carpet/Upholstery Cleaner For Emergency Clean-up	36.92	
02 90 55 00-0381	ROL	Carpet Masking/Shield For Emergency Clean-up	114.31	
02 90 55 00-0382	EA	Chemical Sponge For Emergency Clean-up	3.37	
02 90 55 00-0383	GAL	Clear Seal For Emergency Clean-up	115.04	
02 90 55 00-0384	GAL	Coil Cleaner For Emergency Clean-up	78.70	
02 90 55 00-0385	EA	Decontamination Chamber For Emergency Clean-up	341.97	
02 90 55 00-0386	GAL	All Purpose Degreaser For Emergency Clean-up	37.65	
02 90 55 00-0387	GAL	Heavy-Duty Degreaser For Emergency Clean-up	44.80	
02 90 55 00-0388	GAL	De-Foamer Liquid For Emergency Clean-up	49.48	
02 90 55 00-0389	EA	Deodorization Membrane For Emergency Clean-up	95.84	
02 90 55 00-0390	GAL	9-D-9 Smoke Deodorizer For Emergency Clean-up	147.91	
02 90 55 00-0391	LB	Deodorizing Gel For Emergency Clean-up	34.75	
02 90 55 00-0392	GAL	Deodorizing Liquid For Emergency Clean-up	50.82	
02 90 55 00-0393	PAIL	Deodorizing Block For Emergency Clean-up	8.74	
02 90 55 00-0394	GAL	Disinfectant/Anti-microbial For Emergency Clean-up	90.16	
02 90 55 00-0395	GAL	BruClean Disinfectant For Emergency Clean-up	40.04	
02 90 55 00-0396	GAL	Dryclean For Emergency Clean-up	39.93	
02 90 55 00-0397	GAL	Duct Sealant Spray For Emergency Clean-up	60.18	
02 90 55 00-0398	GAL	Antifungal Duct Sealant For Emergency Clean-up	86.93	
02 90 55 00-0399	GAL	Microbial Encapsulant (Fosters 20 - 40) For Emergency Clean-up	133.39	
02 90 55 00-0400	PR	Ear Plugs For Emergency Clean-up Personal Protection Equipment	0.54	
02 90 55 00-0401	GAL	Encapsulant For Emergency Clean-up	121.10	
02 90 55 00-0402	GAL	Aftershock Fiberlocke For Emergency Clean-up	106.34	
02 90 55 00-0403	GAL	IAQ 2500 Fiberlocke For Emergency Clean-up	103.22	
02 90 55 00-0404	GAL	IAS 6000 Fiberlocke For Emergency Clean-up	106.16	
02 90 55 00-0405	ROL	Filter Material For Emergency Clean-up	306.70	
02 90 55 00-0406	EA	Blue Paper Collection Bag Filter For Emergency Clean-up	8.26	
02 90 55 00-0407	EA	CVAC Filter For High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	655.98	
02 90 55 00-0408	EA	Pre-Filter For Negative Air Machine For Emergency Clean-up	3.15	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0409	EA	Pleated Filter For Negative Air Machine For Emergency Clean-up	14.01	
02 90 55 00-0410	EA	Charcoal Filter For Negative Air Machine For Emergency Clean-up	49.89	
02 90 55 00-0411	EA	High Efficiency Particulate Air (HEPA) Filter For Negative Air Machine For Emergency Clean-up	474.46	
02 90 55 00-0412	EA	Pleated Dehumidifier Filter For Emergency Clean-up	12.52	
02 90 55 00-0413	GAL	Floor Stripper For Emergency Clean-up	18.72	
02 90 55 00-0414	GAL	Floor Wax For Emergency Clean-up	26.75	
02 90 55 00-0415	GAL	Fogger (Thermal) For Emergency Clean-up	156.88	
02 90 55 00-0416	BOX	Furniture Blocks For Emergency Clean-up	126.36	
02 90 55 00-0417	EA	Furniture Polish, Per 10 Oz Can For Emergency Clean-up	17.03	
02 90 55 00-0418	GAL	Glass Cleaner For Emergency Clean-up	11.35	
02 90 55 00-0419	EA	Goof Off Spray, 12 Oz For Emergency Clean-up	19.86	
02 90 55 00-0420	EA	Halogen Light Bulbs For Emergency Clean-up	19.10	
02 90 55 00-0421	QT	Hand Sanitizer For Emergency Clean-up	9.44	
02 90 55 00-0422	EA	Hard Hats For Emergency Clean-up Personal Protection Equipment	7.77	
02 90 55 00-0423	BOX	Hog Rings, Box Of 2,500 For Emergency Clean-up	24.20	
02 90 55 00-0424	GAL	HVAC Coal Cleaner For Emergency Clean-up	70.52	
02 90 55 00-0425	BOX	Inventory Tag, Box Of 1,000 For Emergency Clean-up	170.20	
02 90 55 00-0426	EA	Utility Knives For Emergency Clean-up	14.71	
02 90 55 00-0427	ROL	13" Lay Flat Tubing (250' Roll) For Emergency Clean-up	146.00	
02 90 55 00-0428	ROL	20" Lay Flat Tubing (250' Roll) For Emergency Clean-up	154.14	
02 90 55 00-0429	ROL	29" Lay Flat Tubing (250' Roll) For Emergency Clean-up	306.89	
02 90 55 00-0430	ROL	39" Lay Flat Tubing (250' Roll) For Emergency Clean-up	443.59	
02 90 55 00-0431	GAL	Lemon Oil For Emergency Clean-up	45.64	
02 90 55 00-0432	GAL	LPS 1/Mecca Lube For Emergency Clean-up	48.60	
02 90 55 00-0433	GAL	LPS 2 For Emergency Clean-up	51.43	
02 90 55 00-0434	GAL	LPS Contact Cleaner For Emergency Clean-up	51.19	
02 90 55 00-0435	GAL	Light Lubricant Preserve For Emergency Clean-up	177.67	
02 90 55 00-0436	GAL	Heavy Lubricant Preserver For Emergency Clean-up	26.75	
02 90 55 00-0437	GAL	Machinery Cleaning Solvent For Emergency Clean-up	218.49	
02 90 55 00-0438	GAL	Metal Polishing Paste For Emergency Clean-up	32.89	
02 90 55 00-0439	GAL	MediClean® Disinfectant For Emergency Clean-up	54.06	
02 90 55 00-0440	GAL	Dri-Eaz Milgo Plus Sanitizer For Emergency Clean-up	66.35	
02 90 55 00-0441	EA	Mop Heads For Emergency Clean-up	8.11	
02 90 55 00-0442	EA	Nylon Scouring Pads For Emergency Clean-up	1.47	
02 90 55 00-0443	GAL	Odor Neutralizer For Emergency Clean-up	45.78	
02 90 55 00-0444	EA	Packing Paper, 25 Lb. Bundle For Emergency Clean-up	88.51	
02 90 55 00-0445	EA	Paint Brushes For Emergency Clean-up	6.69	
02 90 55 00-0446	ROL	Corrugated/Craft Paper, 48" x 250' For Emergency Clean-up	206.41	
02 90 55 00-0447	EA	Putty Knives For Emergency Clean-up	6.06	
02 90 55 00-0448	ROL	Red Resin Paper, 200' Roll For Emergency Clean-up	45.04	
02 90 55 00-0449	GAL	Reodorant For Emergency Clean-up	113.68	
02 90 55 00-0450	GAL	Restoracide For Emergency Clean-up	53.32	
02 90 55 00-0451	GAL	Rust Remover For Emergency Clean-up	79.86	
02 90 55 00-0452	EA	Saltesmo Test Samples For Emergency Clean-up	7.42	
02 90 55 00-0453	EA	Sand Bag For Emergency Clean-up Note: Excludes sand material	1.94	
02 90 55 00-0454	EA	Scotch-Brite 7447, Per Box 50 For Emergency Clean-up	35.44	
02 90 55 00-0455	EA	Small Scrub Brushes For Emergency Clean-up	16.98	
02 90 55 00-0456	GAL	Clear Soot Sealant For Emergency Clean-up	92.62	
02 90 55 00-0457	GAL	Pigmented Soot Sealant For Emergency Clean-up	249.78	
02 90 55 00-0458	ROL	Shrinkwrap Plastic For Emergency Clean-up	57.50	
02 90 55 00-0459	EA	Dry Sponges For Emergency Clean-up	5.91	
02 90 55 00-0460	EA	Spray Adhesive, Per Can For Emergency Clean-up	6.00	
02 90 55 00-0461	EA	Spray Bot./Trigger For Emergency Clean-up	5.16	
02 90 55 00-0462	GAL	Stain Remover For Emergency Clean-up	41.35	
02 90 55 00-0463	GAL	Stainless Steel Cleaner For Emergency Clean-up	11.30	
02 90 55 00-0464	EA	Stainless Steel Polish, Per Can For Emergency Clean-up	14.83	
02 90 55 00-0465	LB	Sweeping Compound For Emergency Clean-up	0.72	
02 90 55 00-0466	ROL	Duct Tape, 2" x 50 YD For Emergency Clean-up	11.73	
02 90 55 00-0467	ROL	Environmental (Teal) Tape, 3/4" x 1,440' For Emergency Clean-up	11.04	
02 90 55 00-0468	ROL	HVAC (Aluminum) Tape, 2" x 75' For Emergency Clean-up	29.42	
02 90 55 00-0469	ROL	Blue Masking (Painters) Tape, 1-1/2" x 198' For Emergency Clean-up	15.71	
02 90 55 00-0470	ROL	Poly Box Tape, 2" x 110 YD For Emergency Clean-up	4.85	
02 90 55 00-0471	LB	Terry Towels For Emergency Clean-up	6.89	
02 90 55 00-0472	GAL	Thermal Fog For Emergency Clean-up	93.04	
02 90 55 00-0473	ROL	1.7 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up	36.51	
02 90 55 00-0474	ROL	3 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up	88.60	
02 90 55 00-0475	ROL	4 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up	113.68	
02 90 55 00-0476	ROL	6 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up	145.60	
02 90 55 00-0477	EA	Trisodium Phosphate, 20 Lb. Pail For Emergency Clean-up	48.80	
02 90 55 00-0478	EA	Backpack Vacuum Bags For Emergency Clean-up	1.64	
02 90 55 00-0479	EA	Upright Vacuum Bags For Emergency Clean-up	2.19	
02 90 55 00-0480	GAL	Vinyl And Leather Cleaner For Emergency Clean-up	36.92	
02 90 55 00-0481	ROL	1 Mil Visqueen, 12' x 400', For Emergency Clean-up	47.30	
02 90 55 00-0482	ROL	4 Mil Visqueen, 32' x 100', For Emergency Clean-up	128.43	
02 90 55 00-0483	ROL	6 Mil Visqueen, 32' x 400', For Emergency Clean-up	175.24	
02 90 55 00-0484	LB	Wipes, Cotton Cloth For Emergency Clean-up	4.97	
02 90 55 00-0485	ROL	12" x 750', Wrap, Bubble/Anti-static For Emergency Clean-up	144.24	
02 90 55 00-0486	EA	Wyp-Alls, Case Of 160 Wipes For Emergency Clean-up	18.46	
02 90 55 00-0487	EA	Zip Wall Zippers For Emergency Clean-up	21.89	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0488	EA	Absorbent Matt Roll For Oil And Other Liquids - 15" Wide x 50' Roll Note: 3.3 gallon volume absorption capacity per roll	35.66	
02 90 55 00-0489	EA	Oil Only Sorbent Pads - 15" x 19", Light, Package Of 100 Note: 26 OZ volume absorption capacity per pad	53.49	
02 90 55 00-0490	EA	Oil Only Sorbent Pads - 15" x 19", Medium, Package Of 100 Note: 33 OZ volume absorption capacity per pad	56.36	
02 90 55 00-0491	EA	Oil Only Sorbent Pads - 15" x 19", Heavy, Package Of 100 Note: 45 OZ volume absorption capacity per pad	92.02	
02 90 55 00-0492		Technical/Electronics Restoration Materials *(02 90 55 00-0365)*		
02 90 55 00-0493	EA	Brush - Brass For Emergency Clean-up	5.02	
02 90 55 00-0494	EA	1" Brush, Natural Bristle For Emergency Clean-up	1.60	
02 90 55 00-0495	EA	1/2" Brush, Natural Bristle For Emergency Clean-up	1.34	
02 90 55 00-0496	EA	1/4" Brush, Natural Bristle For Emergency Clean-up	1.14	
02 90 55 00-0497	EA	Brush - Parts For Emergency Clean-up	6.95	
02 90 55 00-0498	EA	Brush - Plastic For Emergency Clean-up	3.61	
02 90 55 00-0499	EA	Brush - Wire Grout For Emergency Clean-up	9.69	
02 90 55 00-0500	EA	Brushing Tool For Emergency Clean-up	18.69	
02 90 55 00-0501	EA	Cleaning Swabs, Cotton For Emergency Clean-up	0.33	
02 90 55 00-0502	EA	Cleaning Swabs, Foam Tip For Emergency Clean-up	0.40	
02 90 55 00-0503	EA	Contact Restorer, Per Can For Emergency Clean-up	30.40	
02 90 55 00-0504	EA	Contact Spray, Per Can For Emergency Clean-up	20.69	
02 90 55 00-0505	UNT	Corrosion Inhibitor Emitter - 1 CF For Emergency Clean-up	3.21	
02 90 55 00-0506	UNT	Corrosion Inhibitor Emitter - 5 CF For Emergency Clean-up	9.19	
02 90 55 00-0507	UNT	Corrosion Inhibitor Emitter - 10 CF For Emergency Clean-up	11.91	
02 90 55 00-0508	LB	Cotton Cleaning Cloths For Emergency Clean-up	18.81	
02 90 55 00-0509	EA	12" x 17" Dust Cloths For Emergency Clean-up	0.30	
02 90 55 00-0510	EA	24" x 24" Dust Cloths For Emergency Clean-up	0.82	
02 90 55 00-0511	EA	Deoxidizing Agent, Per Can For Emergency Clean-up	14.73	
02 90 55 00-0512	GAL	Electronic Grade Detergent For Emergency Clean-up	41.54	
02 90 55 00-0513	SHT	Inventory Labels For Emergency Clean-up	0.22	
02 90 55 00-0514	GAL	Isopropyl Alcohol For Emergency Clean-up	110.07	
02 90 55 00-0515	GAL	Lubrication/Penetrating Oil, Per Can For Emergency Clean-up	179.14	
02 90 55 00-0516	GAL	PC Board Detergent For Emergency Clean-up	85.88	
02 90 55 00-0517	GAL	Rust Inhibitor, Regular Duty For Emergency Clean-up	141.18	
02 90 55 00-0518	GAL	Rust Inhibitor, Moderate Duty For Emergency Clean-up	142.24	
02 90 55 00-0519	GAL	Rust Inhibitor, Severe Duty For Emergency Clean-up	152.04	
02 90 55 00-0520	LB	Wipes, Lint Free Cloths For Emergency Clean-up	7.81	
02 90 55 00-0521	EA	Wire Marker Card For Emergency Clean-up	2.34	
02 90 55 00-0522	EA	Steel Wool, 16 Pad Sleeve For Emergency Clean-up	1.57	
02 90 60		**Water Intrusion Elimination** *(02 90)* Note: Includes materials, labor, equipment, mobilization to eliminate water and dispose of wet materials into container as required. All work to be performed in accordance with IICRC section S500.		
02 90 60 00-0001		Remove Wet Drywall, Ventilate Drywall *(02 90 60)* Note: Includes removal and bag of wet drywall and disposal into a University container.		
02 90 60 00-0002	EA	Up To 75 SF, Wet Drywall Removal For Water Intrusion Elimination	339.03	
02 90 60 00-0003	SF	>75 SF, Wet Drywall Removal For Water Intrusion Elimination	2.18	
02 90 60 00-0004	LF	Ventilate Drywall or Toe Kick For Water Intrusion Elimination	6.06	
02 90 60 00-0005		Remove Wet Insulation *(02 90 60)*		
02 90 60 00-0006	SF	Removal Of Wet Insulation For Water Intrusion Elimination	1.94	
02 90 60 00-0007	SF	Removal Of Contaminated Wet Insulation For Water Intrusion Elimination	2.91	
02 90 60 00-0008		Wet Carpet *(02 90 60)*		
02 90 60 00-0009	SF	Extract Water From Carpet (Non-Contaminated, Cat 1) For Water Intrusion Elimination	1.45	
02 90 60 00-0010	SF	Lift Carpet For Drying (Salvaged) For Water Intrusion Elimination	1.31	
02 90 60 00-0011	LF	Cut Carpet And Open Seams For Drying (Salvaged) For Water Intrusion Elimination	4.12	
02 90 60 00-0012	SF	Removal Of Non-Salvage Wet Carpet And Pad (Tack Down) For Water Intrusion Elimination	2.76	
02 90 60 00-0013	SF	Removal Of Non-Salvage Wet Carpet And Pad (Glue Down) For Water Intrusion Elimination	4.12	
02 90 60 00-0014	LF	Removal Of Wet Tack Strip For Water Intrusion Elimination	4.12	
02 90 60 00-0015	SF	Deodorize Carpet For Water Intrusion Elimination	0.78	
02 90 60 00-0016	EA	Up To 24 SF Area Rug, Off-Site Cleaning For Water Intrusion Elimination Note: Includes removal from site, cleaning, and return.	67.21	
02 90 60 00-0017	EA	>24 To 96 SF Area Rug, Off-Site Cleaning For Water Intrusion Elimination Note: Includes removal from site, cleaning, and return.	84.01	
02 90 60 00-0018	EA	>96 To 140 SF Area Rug, Off-Site Cleaning For Water Intrusion Elimination Note: Includes removal from site, cleaning, and return.	100.80	
02 90 60 00-0019	EA	>140 To 216 SF Area Rug, Off-Site Cleaning For Water Intrusion Elimination Note: Includes removal from site, cleaning, and return.	117.61	
02 90 60 00-0020		Wet Floors *(02 90 60)*		
02 90 60 00-0021	SF	Removal Of Wet Vinyl Flooring For Water Intrusion Elimination	4.36	
02 90 60 00-0022	SF	Removal Of Wet Wood Flooring For Water Intrusion Elimination	4.50	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 60 00-0023		Baseboard And Cove Molding Removal *(02 90 60)*		
02 90 60 00-0024	LF	Removal Of Wet Baseboard For Water Intrusion Elimination	6.06	
02 90 60 00-0025	LF	Removal Of Wet Cove Molding For Water Intrusion Elimination	2.43	

END OF SECTION 02

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 Concrete

03 01 Maintenance of Concrete *(03)*

03 01 30 Maintenance of Cast-In-Place Concrete *(03 01)*

03 01 30 51 Cleaning of Cast-In-Place Concrete *(03 01 30)*

03 01 30 51-0001 Abrasive Blasting *(03 01 30 51)*

Note: Includes containment and cleanup of all material. Includes steel ball media.

03 01 30 51-0002	SF	Concrete Floors, Abrasive Shot (Bead) Blasting	4.06
		For Up To 100, Add	*3.54*
		For >100 To 250, Add	*0.89*
		For >250 To 500, Add	*0.44*
		For >5,000 To 10,000, Deduct	*-0.09*
		For >10,000, Deduct	*-0.18*
03 01 30 51-0003	SF	Concrete Walls, Abrasive Shot (Bead) Blasting	5.81
		For Up To 100, Add	*7.04*
		For >100 To 250, Add	*1.76*
		For >250 To 500, Add	*0.88*
		For >5,000 To 10,000, Deduct	*-0.18*
		For >10,000, Deduct	*-0.35*

03 01 30 71 Rehabilitation of Cast-In-Place Concrete *(03 01 30)*

03 01 30 71-0001 Concrete Resurfacing/Repair *(03 01 30 71)*

03 01 30 71-0002 Concrete Floor Resurfacing *(03 01 30 71-0001)*

03 01 30 71-0003	SF	1/4" Interior Floor Self-leveling, Colored Cementitious Topping	5.43
03 01 30 71-0004	SF	1/2" Interior Floor Self-leveling, Colored Cementitious Topping	7.44
03 01 30 71-0005	SF	1" Interior Floor Self-leveling, Colored Cementitious Topping	13.79

03 01 30 71-0006 Concrete Repair *(03 01 30 71-0001)*

03 01 30 71-0007 Decks Or Floors *(03 01 30 71-0006)*

Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.

03 01 30 71-0008	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar	7.35
03 01 30 71-0009	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	22.57
03 01 30 71-0010	SF	Patch Decks Or Floors With Non-Slip Aggregate, White Aluminum Oxide Grit	0.64
03 01 30 71-0011	CF	Patch Decks Or Floors With Rapid Set Polymer Concrete Methylmethacrylate	218.51
03 01 30 71-0012	CF	Patch Decks Or Floors With SSI FlexPatch	478.92

03 01 30 71-0013 Verticals Or Overheads *(03 01 30 71-0006)*

Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.

03 01 30 71-0014	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar	11.06
03 01 30 71-0015	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	31.33
03 01 30 71-0016	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	35.16
03 01 30 71-0017	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	9.89
03 01 30 71-0018	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound Note: Rapid Set - WunderFixx	17.47

03 01 30 71-0019 Circular Piers *(03 01 30 71-0006)*

03 01 30 71-0020	SF	Patch Circular Piers With 1/8" To 1/4" Elastomeric Patching Compound	13.87
03 01 30 71-0021	SF	Patch Circular Piers With 1/8" To 1/4" Copolymer Cementitious Compound Note: Rapid Set - WunderFixx	23.83

03 01 30 71-0022 Concrete Grinding *(03 01 30 71-0006)*

03 01 30 71-0023	SF	Grinding Cured, Warped, Or Rough Concete Slabs Note: Up to 1/8" of material per pass	1.24

03 01 30 71-0024 Bridge Deck Treatment *(03 01 30 71-0006)*

03 01 30 71-0025	SF	Sweep Bridge Deck	0.02
03 01 30 71-0026	SF	Clean Bridge Deck	0.04
03 01 30 71-0027	SF	Treat Bridge Deck With Methacrylate Resin Sealant	2.44

03 01 30 71-0028 Concrete Finishes *(03 01 30 71-0001)*

03 01 30 71-0029 Concrete Patching *(03 01 30 71-0028)*

03 01 30 71-0030 Walls *(03 01 30 71-0029)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0031	BAG	Sika Top 111 Plus Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 Lb. of 3/8" pea gravel).	187.93	
		For Up To 10, Add	*67.48*	
		For >10 To 25, Add	*40.49*	
		For >25 To 50, Add	*26.99*	
		For >50 To 75, Add	*13.50*	
03 01 30 71-0032	BAG	Sika Grout 212, 50 Lb. Bag Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	129.60	
		For Up To 10, Add	*42.73*	
		For >10 To 25, Add	*25.64*	
		For >25 To 50, Add	*17.09*	
		For >50 To 75, Add	*8.55*	
03 01 30 71-0033	EA	Sika Flex 1A, 10.3 Ounce Tube Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	45.12	
03 01 30 71-0034	BAG	Pea Gravel	33.70	
03 01 30 71-0035		**Spall Concrete Repair** *(03 01 30 71-0001)* Note: Includes removal of defective concrete with chipping hammers, water blasting, cleaning of rebar, formwork, cementitious mortar, curing, and finishing.		
03 01 30 71-0036	SF	Spall Concrete Repair, Up To 3/4" Deep On Vertical/Overhead Surfaces	99.08	
		For Up To 100, Add	*70.43*	
		For >100 To 250, Add	*35.21*	
03 01 30 71-0037	SF	Spall Concrete Repair, >3/4" To 1-1/2" Deep On Vertical/Overhead Surfaces	114.69	
		For Up To 100, Add	*78.25*	
		For >100 To 250, Add	*39.12*	
03 01 30 71-0038	SF	Spall Concrete Repair, >1-1/2" To 3" Deep On Vertical/Overhead Surfaces	172.03	
		For Up To 100, Add	*117.38*	
		For >100 To 250, Add	*58.69*	
03 01 30 71-0039	SF	Spall Concrete Repair, >3" To 4" Deep On Vertical/Overhead Surfaces	224.16	
		For Up To 100, Add	*152.59*	
		For >100 To 250, Add	*76.29*	
03 01 30 71-0040	SF	Spall Concrete Repair, Up To 3/4" Deep On Floor Surfaces	70.91	
		For Up To 100, Add	*49.30*	
		For >100 To 250, Add	*24.65*	
03 01 30 71-0041	SF	Spall Concrete Repair, >3/4" To 1-1/2" Deep On Floor Surfaces	83.40	
		For Up To 100, Add	*54.78*	
		For >100 To 250, Add	*27.39*	
03 01 30 71-0042	SF	Spall Concrete Repair, >1-1/2" To 3" Deep On Floor Surfaces	125.08	
		For Up To 100, Add	*82.16*	
		For >100 To 250, Add	*41.08*	
03 01 30 71-0043	SF	Spall Concrete Repair, >3" To 4" Deep On Floor Surfaces	163.12	
		For Up To 100, Add	*106.81*	
		For >100 To 250, Add	*53.40*	
03 01 30 71-0044		**Concrete Cleaning** *(03 01 30 71-0001)*		
03 01 30 71-0045	SF	Up To 10 SF, Clean Calcite/Staining On Concrete With Brush	23.46	
03 01 30 71-0046	SF	>10 To 100 SF, Clean Calcite/Staining On Concrete With Brush	16.47	
03 01 30 71-0047	SF	>100 To 500 SF, Clean Calcite/Staining On Concrete With Brush	11.56	
03 01 30 71-0048	SF	>500 To 1,000 SF, Clean Calcite/Staining On Concrete With Brush	8.11	
03 01 30 71-0049	SF	>1,000 To 2,500 SF, Clean Calcite/Staining On Concrete With Brush	5.72	
03 01 30 71-0050	SF	>2,500 SF, Clean Calcite/Staining On Concrete With Brush	4.02	
03 01 30 71-0051		**Crack Repair For Concrete** *(03 01 30 71-0001)*		
03 01 30 71-0052		**Non-Structural Crack Repair For Concrete** *(03 01 30 71-0051)*		
03 01 30 71-0053		**Surface Applied, Non-Structural Crack Repair For Concrete** *(03 01 30 71-0052)* Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0054	LF	Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal)	6.93	
		For V-Grooving Crack With Grinder, Add	*5.53*	
03 01 30 71-0055	LF	>1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal)	9.06	
		For V-Grooving Crack With Grinder, Add	*5.39*	
03 01 30 71-0056	LF	Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair)	7.07	
		For V-Grooving Crack With Grinder, Add	*5.53*	
03 01 30 71-0057	LF	>1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair)	9.35	
		For V-Grooving Crack With Grinder, Add	*5.39*	
03 01 30 71-0058	LF	Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant)	7.61	
		For V-Grooving Crack With Grinder, Add	*5.53*	
03 01 30 71-0059	LF	>1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant)	10.43	
		For V-Grooving Crack With Grinder, Add	*5.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0060	LF	Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix)	8.00	
		For V-Grooving Crack With Grinder, Add	*5.53*	
03 01 30 71-0061	LF	>1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix)	11.21	
		For V-Grooving Crack With Grinder, Add	*5.39*	
03 01 30 71-0062		**Pressure Injected, Non-Structural Crack Repair For Concrete** *(03 01 30 71-0052)* Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0063	LF	Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non-Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570)	32.04	
		For Cracks Accessible From Both Sides, Add	*6.53*	
03 01 30 71-0064		**Structural Crack Repair For Concrete** *(03 01 30 71-0051)*		
03 01 30 71-0065		**Surface Applied, Structural Crack Repair For Concrete** *(03 01 30 71-0064)* Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0066	LF	Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35)	8.10	
		For V-Grooving Crack With Grinder, Add	*5.53*	
03 01 30 71-0067	LF	>1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35)	11.41	
		For V-Grooving Crack With Grinder, Add	*5.39*	
03 01 30 71-0068	LF	Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52)	7.89	
		For V-Grooving Crack With Grinder, Add	*5.53*	
03 01 30 71-0069	LF	>1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52)	10.99	
		For V-Grooving Crack With Grinder, Add	*5.39*	
03 01 30 71-0070	LF	Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix)	9.63	
		For V-Grooving Crack With Grinder, Add	*5.53*	
03 01 30 71-0071	LF	>1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix)	14.48	
		For V-Grooving Crack With Grinder, Add	*5.39*	
03 01 30 71-0072		**Pressure Injected, Structural Crack Repair For Concrete** *(03 01 30 71-0064)* Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0073	LF	Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35)	27.86	
		For Cracks Accessible From Both Sides, Add	*6.53*	
03 01 30 71-0074	LF	Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52)	27.65	
		For Cracks Accessible From Both Sides, Add	*6.53*	
03 01 30 71-0075		**Carbon Fiber Strengthening System** *(03 01 30 71-0001)* Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		
03 01 30 71-0076	SF	Carbon Fiber Strengthening System For Concrete Beams, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	110.94	
		For >500 To 1,000, Deduct	*-7.34*	
		For >1,000 To 2,500, Deduct	*-9.92*	
		For >2,500, Deduct	*-12.89*	
03 01 30 71-0077	SF	Carbon Fiber Strengthening System For Concrete Columns, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	99.44	
		For >500 To 1,000, Deduct	*-6.48*	
		For >1,000 To 2,500, Deduct	*-8.77*	
		For >2,500, Deduct	*-11.45*	
03 01 30 71-0078	SF	Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	92.98	
		For >500 To 1,000, Deduct	*-6.00*	
		For >1,000 To 2,500, Deduct	*-8.12*	
		For >2,500, Deduct	*-10.64*	
03 01 30 71-0079	SF	Carbon Fiber Strengthening System For Concrete Walls, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	89.39	
		For >500 To 1,000, Deduct	*-5.73*	
		For >1,000 To 2,500, Deduct	*-7.77*	
		For >2,500, Deduct	*-10.20*	
03 01 30 71-0080	SF	Carbon Fiber Strengthening System For Concrete Slab, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	84.36	
		For >500 To 1,000, Deduct	*-5.35*	
		For >1,000 To 2,500, Deduct	*-7.26*	
		For >2,500, Deduct	*-9.57*	
03 01 30 71-0081		**Concrete Rehabilitation** *(03 01 30 71)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0082		Corrosive Inhibitor *(03 01 30 71-0081)*		
03 01 30 71-0083	SF	Corrosive Inhibitor	6.36	
03 01 30 71-0084		Remove Cracked Or Damaged Concrete Surfacing Material *(03 01 30 71)*		
03 01 30 71-0085	SF	Removal Of Concrete <3/4" Deep On Vertical Wall Surfaces Note: Excludes patching materials	20.87	
03 01 30 71-0086	SF	Removal Of Concrete 3/4" To 1-1/2" Deep On Vertical Wall Surfaces Note: Excludes patching materials.	27.64	
03 01 30 71-0087	SF	Removal Of Concrete >1-1/2" To 3" Deep On Vertical Wall Surfaces Note: Excludes patching materials.	34.43	
03 01 30 71-0088	SF	Removal Of Concrete >3" To 4" Deep On Vertical Wall Surfaces Note: Excludes patching materials.	45.90	
03 01 30 71-0089	SF	Removal Of Concrete <3/4" Deep On Overhead Surfaces Note: Excludes patching materials	41.73	
03 01 30 71-0090	SF	Removal Of Concrete 3/4" To 1-1/2" Deep On Overhead Surfaces Note: Excludes patching materials.	55.30	
03 01 30 71-0091	SF	Removal Of Concrete >1-1/2" To 3" Deep On Overhead Surfaces Note: Excludes patching materials.	68.86	
03 01 30 71-0092	SF	Removal Of Concrete >3" To 4" Deep On Overhead Surfaces Note: Excludes patching materials.	91.81	
03 01 30 72		**Strengthening Of Cast-in-Place Concrete** *(03 01 30)*		
03 01 30 72-0001		Concrete Surface Repairs *(03 01 30 72)*		
03 01 30 72-0002	SF	Sound The Concrete Surface To Locate Delaminated Areas	0.43	

03 05 Common Work Results For Concrete *(03)*

03 05 13 Concrete Admixtures *(03 05)*

03 05 13 00-0001		Concrete Admixtures *(03 05 13)*		
03 05 13 00-0002	CY	Low Range Water Reducing (LRWR), Type A Concrete Admixture	7.79	
03 05 13 00-0003	CY	Set Retarding, Type B Concrete Admixture	5.39	
03 05 13 00-0004	CY	1% Calcium Chloride Accelerating, Type C Concrete Admixture	8.39	
03 05 13 00-0005	CY	2% Calcium Chloride Accelerating, Type C Concrete Admixture	16.78	
03 05 13 00-0006	CY	1% Non-Chloride Accelerating, Type C Concrete Admixture	14.98	
03 05 13 00-0007	CY	2% Non-Chloride Accelerating, Type C Concrete Admixture	29.97	
03 05 13 00-0008	CY	1% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	6.47	
03 05 13 00-0009	CY	2% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	12.62	
03 05 13 00-0010	CY	1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	8.99	
03 05 13 00-0011	CY	2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	17.98	
03 05 13 00-0012	CY	Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	5.99	
03 05 13 00-0013	CY	High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture	14.38	
03 05 13 00-0014	CY	1 Lb./CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	12.79	
03 05 13 00-0015	CY	1-1/2 Lb./CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	19.18	
03 05 13 00-0016	CY	25 Lb./CY Steel Fibers, Concrete Admixture	42.30	
03 05 13 00-0017	CY	10% Microsilica (Silica Fume), Concrete Admixture	95.89	
03 05 13 00-0018	CY	Corrosion Inhibiting Concrete Admixture	35.96	
03 05 13 00-0019	CY	Winter Service Or Heat, Concrete Add	19.18	
03 05 13 00-0020	CY	Chilled Water, Concrete Add	19.18	
03 05 13 00-0021	CY	Subtle Color (See Davis Colors Color Card), Concrete Admixture	32.97	
03 05 13 00-0022	CY	Standard Color (See Davis Colors Color Card), Concrete Admixture	54.94	
03 05 13 00-0023	CY	Premium Color (See Davis Colors Color Card), Concrete Admixture	105.49	
03 05 13 00-0024	CY	Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	146.52	
03 05 13 00-0025	CY	15% Fly Ash, Concrete Admixture	31.91	
		For Each Additional 5% By Volume, Add	*10.64*	

03 10 Concrete Forming and Accessories *(03)*

03 11 Concrete Forming *(03 10)*

03 11 13 Structural Cast-In-Place Concrete Forming *(03 11)*

Note: Per square foot of formwork.

03 11 13 00-0001		Wood Formwork *(03 11 13)* Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0002		Foundation Wood Formwork *(03 11 13 00-0001)* Note: For foundation work below or at grade.		
03 11 13 00-0003	SF	Continuous Footings Foundation Wood Formwork	9.91	
		For <1,000, Add	*1.86*	
		For Foundations >8' Below Grade, Add	*1.80*	
		For Curved Formwork, Add	*3.60*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0004	SF	Pile Cap, Pier Or Spread Footings Foundation Wood Formwork	11.81	
		For <1,000, Add	*2.24*	
		For Foundations >8' Below Grade, Add	*2.17*	
		For Curved Formwork, Add	*4.35*	
03 11 13 00-0005	SF	Mat Foundation Wood Formwork	13.67	
		For <1,000, Add	*2.62*	
		For Foundations >8' Below Grade, Add	*2.56*	
		For Curved Formwork, Add	*5.13*	
03 11 13 00-0006	SF	Grade Beams Or Duct Bank Foundation Wood Formwork	11.41	
		For <1,000, Add	*2.17*	
		For Foundations >8' Below Grade, Add	*2.11*	
		For Curved Formwork, Add	*4.22*	
03 11 13 00-0007	SF	Below Grade Walls Foundation Wood Formwork	16.20	
		Note: Excludes footing		
		For <1,000, Add	*3.07*	
		For Foundations >8' Below Grade, Add	*2.99*	
		For Curved Formwork, Add	*5.97*	

03 11 13 00-0008 Slab Edge And Block-Out Wood Formwork *(03 11 13 00-0001)*

03 11 13 00-0009	LF	Up To 6" High Slab Edge and Block-Out Wood Formwork	7.67	
		For Foundations >8' Below Grade, Add	*1.44*	
		For Curved Formwork, Add	*2.88*	
		For Up To 250, Add	*1.47*	
03 11 13 00-0010	LF	>6" To 12" High Slab Edge and Block-Out Wood Formwork	10.96	
		For Foundations >8' Below Grade, Add	*2.00*	
		For Curved Formwork, Add	*4.01*	
		For Up To 250, Add	*2.07*	
03 11 13 00-0011	SF	>12" High Slab Edge and Block-Out Wood Formwork	14.07	
		For Foundations >8' Below Grade, Add	*2.59*	
		For Curved Formwork, Add	*5.19*	
		For <1,000, Add	*2.67*	

03 11 13 00-0012 Column Wood Formwork *(03 11 13 00-0001)*

03 11 13 00-0013	LF	Up To 8" Square Column Wood Formwork	59.15	
03 11 13 00-0014	LF	>8" To 12" Square Column Wood Formwork	85.97	
03 11 13 00-0015	LF	>12" To 18" Square Column Wood Formwork	108.11	
03 11 13 00-0016	LF	>18" To 24" Square Column Wood Formwork	155.31	
03 11 13 00-0017	LF	>24" To 36" Square Column Wood Formwork	222.93	
03 11 13 00-0018	LF	>36" To 48" Square Column Wood Formwork	294.73	

03 11 13 00-0019 Above Grade Wall Wood Formwork *(03 11 13 00-0001)*

03 11 13 00-0020	SF	Up To 8' High Above Grade Wall Wood Formwork	18.12	
		For Curved Formwork, Add	*6.74*	
		For <1,000, Add	*3.46*	
03 11 13 00-0021	SF	>8' High Above Grade Wall Wood Formwork	21.48	
		For Curved Formwork, Add	*8.00*	
		For <1,000, Add	*4.10*	

03 11 13 00-0022 Elevated Beam Wood Formwork *(03 11 13 00-0001)*

Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.

03 11 13 00-0023	SF	Bottom of Elevated Beam Wood Formwork	23.79	
		For Curved Formwork, Add	*8.80*	
		For <1,000, Add	*4.52*	
03 11 13 00-0024	SF	Vertical Sides of Elevated Beam Wood Formwork	15.03	
		For Curved Formwork, Add	*5.61*	
		For <1,000, Add	*2.87*	

03 11 13 00-0025 Elevated Slab Wood Formwork *(03 11 13 00-0001)*

Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.

03 11 13 00-0026	SF	Elevated Slab Wood Formwork	13.99	
		For <1,000, Add	*2.58*	

03 11 13 00-0027 Metal Framed Formwork *(03 11 13)*

Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.

03 11 13 00-0028 Foundation Metal Framed Formwork *(03 11 13 00-0027)*

Note: For foundation work below or at grade.

03 11 13 00-0029	SF	Continuous Footings Foundation Metal Framed Formwork	9.87	
		For <1,000, Add	*1.77*	
		For Foundations >8' Below Grade, Add	*1.66*	
		For Curved Formwork, Add	*3.33*	
03 11 13 00-0030	SF	Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork	10.89	
		For <1,000, Add	*1.97*	
		For Foundations >8' Below Grade, Add	*1.86*	
		For Curved Formwork, Add	*3.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0031	SF	Mat Foundation Metal Framed Formwork	12.28	
		For <1,000, Add	*2.19*	
		For Foundations >8' Below Grade, Add	*2.06*	
		For Curved Formwork, Add	*4.12*	
03 11 13 00-0032	SF	Grade Beams Or Duct Bank Foundation Metal Framed Formwork	10.37	
		For <1,000, Add	*1.85*	
		For Foundations >8' Below Grade, Add	*1.73*	
		For Curved Formwork, Add	*3.46*	
03 11 13 00-0033	SF	Below Grade Walls Foundation Metal Framed Formwork	15.63	
		Note: Excludes footing.		
		For <1,000, Add	*2.84*	
		For Foundations >8' Below Grade, Add	*2.70*	
		For Curved Formwork, Add	*5.40*	

03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork *(03 11 13 00-0027)*

03 11 13 00-0035	LF	Up To 6" High Slab Edge and Block-Out Metal Framed Formwork	6.69	
		For Foundations >8' Below Grade, Add	*1.29*	
		For Curved Formwork, Add	*2.59*	
		For <250, Add	*1.31*	
03 11 13 00-0036	LF	>6" To 12" High Slab Edge and Block-Out Metal Framed Formwork	8.38	
		For Foundations >8' Below Grade, Add	*1.61*	
		For Curved Formwork, Add	*3.21*	
		For <250, Add	*1.63*	
03 11 13 00-0037	SF	>12" High Slab Edge and Block-Out Metal Framed Formwork	9.29	
		For Foundations >8' Below Grade, Add	*1.78*	
		For Curved Formwork, Add	*3.55*	
		For <1,000, Add	*1.80*	

03 11 13 00-0038 Column Metal Framed Formwork *(03 11 13 00-0027)*

03 11 13 00-0039 Square Columns *(03 11 13 00-0038)*

03 11 13 00-0040	LF	Up To 12" Square Column Metal Framed Formwork	60.78
03 11 13 00-0041	LF	>12" To 16" Square Column Metal Framed Formwork	73.69
03 11 13 00-0042	LF	>16" To 20" Square Column Metal Framed Formwork	86.64
03 11 13 00-0043	LF	>20" To 24" Square Column Metal Framed Formwork	103.39
03 11 13 00-0044	LF	>24" To 30" Square Column Metal Framed Formwork	124.69
03 11 13 00-0045	LF	>30" To 36" Square Column Metal Framed Formwork	149.97
03 11 13 00-0046	LF	>36" To 48" Square Column Metal Framed Formwork	192.57
03 11 13 00-0047	LF	>48" To 60" Square Column Metal Framed Formwork	237.87

03 11 13 00-0048 Round Columns *(03 11 13 00-0038)*

03 11 13 00-0049	LF	Up To 12" Diameter Column Metal Formwork	66.94
03 11 13 00-0050	LF	>12" To 16" Diameter Column Metal Formwork	73.87
03 11 13 00-0051	LF	>16" To 20" Diameter Column Metal Formwork	84.16
03 11 13 00-0052	LF	>20" To 24" Diameter Column Metal Formwork	97.02
03 11 13 00-0053	LF	>24" To 30" Diameter Column Metal Formwork	113.81
03 11 13 00-0054	LF	>30" To 36" Diameter Column Metal Formwork	129.80
03 11 13 00-0055	LF	>36" To 48" Diameter Column Metal Formwork	170.98
03 11 13 00-0056	LF	>48" To 60" Diameter Column Metal Formwork	229.86

03 11 13 00-0057 Above Grade Wall Metal Framed Formwork *(03 11 13 00-0027)*

03 11 13 00-0058	SF	Up to 8' High Above Grade Wall Metal Framed Formwork	9.91	
		For Curved Formwork, Add	*3.11*	
		For <1,000, Add	*1.70*	
03 11 13 00-0059	SF	>8' High Above Grade Wall Metal Framed Formwork	12.16	
		For Curved Formwork, Add	*3.76*	
		For <1,000, Add	*2.06*	

03 11 13 00-0060 Elevated Beam Metal Framed Formwork *(03 11 13 00-0027)*

Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.

03 11 13 00-0061	SF	Bottom of Elevated Beam Metal Framed Formwork	9.70	
		For Curved Formwork, Add	*2.90*	
		For <1,000, Add	*1.61*	
03 11 13 00-0062	SF	Vertical Sides of Elevated Beam Metal Framed Formwork	7.44	
		For Curved Formwork, Add	*2.29*	
		For <1,000, Add	*1.26*	

03 11 13 00-0063 Elevated Slab Metal Framed Formwork *(03 11 13 00-0027)*

Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.

03 11 13 00-0064	SF	Elevated Slab Metal Framed Formwork	12.84	
		For <1,000, Add	*1.93*	

03 11 13 00-0065 Fiber Tube Formwork *(03 11 13)*

Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.

03 11 13 00-0066 Round Column Fiber Tube Formwork *(03 11 13 00-0065)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0067	LF	6" Diameter Round Fiber Tube Formwork	23.40	
		For Plastic Lined, Add	*0.88*	
		For Columns >12' In Length, Add	*2.34*	
03 11 13 00-0068	LF	8" Diameter Round Fiber Tube Formwork	24.72	
		For Plastic Lined, Add	*1.04*	
		For Columns >12' In Length, Add	*2.47*	
03 11 13 00-0069	LF	10" Diameter Round Fiber Tube Formwork	27.46	
		For Plastic Lined, Add	*1.25*	
		For Columns >12' In Length, Add	*2.75*	
03 11 13 00-0070	LF	12" Diameter Round Fiber Tube Formwork	33.91	
		For Plastic Lined, Add	*2.23*	
		For Columns >12' In Length, Add	*3.39*	
03 11 13 00-0071	LF	14" Diameter Round Fiber Tube Formwork	38.05	
		For Plastic Lined, Add	*2.82*	
		For Columns >12' In Length, Add	*3.81*	
03 11 13 00-0072	LF	16" Diameter Round Fiber Tube Formwork	41.39	
		For Plastic Lined, Add	*3.51*	
		For Columns >12' In Length, Add	*4.14*	
03 11 13 00-0073	LF	18" Diameter Round Fiber Tube Formwork	44.53	
		For Plastic Lined, Add	*4.11*	
		For Columns >12' In Length, Add	*4.45*	
03 11 13 00-0074	LF	20" Diameter Round Fiber Tube Formwork	50.60	
		For Plastic Lined, Add	*5.58*	
		For Columns >12' In Length, Add	*5.06*	
03 11 13 00-0075	LF	22" Diameter Round Fiber Tube Formwork	52.96	
		For Plastic Lined, Add	*5.81*	
		For Columns >12' In Length, Add	*5.30*	
03 11 13 00-0076	LF	24" Diameter Round Fiber Tube Formwork	55.63	
		For Plastic Lined, Add	*6.13*	
		For Columns >12' In Length, Add	*5.56*	
03 11 13 00-0077	LF	26" Diameter Round Fiber Tube Formwork	57.89	
		For Plastic Lined, Add	*6.62*	
		For Columns >12' In Length, Add	*5.79*	
03 11 13 00-0078	LF	28" Diameter Round Fiber Tube Formwork	60.13	
		For Plastic Lined, Add	*7.10*	
		For Columns >12' In Length, Add	*6.01*	
03 11 13 00-0079	LF	30" Diameter Round Fiber Tube Formwork	62.39	
		For Plastic Lined, Add	*7.59*	
		For Columns >12' In Length, Add	*6.24*	
03 11 13 00-0080	LF	36" Diameter Round Fiber Tube Formwork	71.95	
		For Plastic Lined, Add	*9.76*	
		For Columns >12' In Length, Add	*7.20*	
03 11 13 00-0081	LF	42" Diameter Round Fiber Tube Formwork	112.39	
		For Plastic Lined, Add	*21.40*	
		For Columns >12' In Length, Add	*11.24*	
03 11 13 00-0082	LF	48" Diameter Round Fiber Tube Formwork	136.60	
		For Plastic Lined, Add	*28.16*	
		For Columns >12' In Length, Add	*13.66*	
03 11 13 00-0083	LF	54" Diameter Round Fiber Tube Formwork	244.97	
		For Plastic Lined, Add	*59.87*	
		For Columns >12' In Length, Add	*24.50*	
03 11 13 00-0084	LF	60" Diameter Round Fiber Tube Formwork	272.68	
		For Plastic Lined, Add	*67.56*	
		For Columns >12' In Length, Add	*27.27*	

03 11 13 00-0085 Accessories For Formwork *(03 11 13)*

03 11 13 00-0086 Keyway Forms, All Materials *(03 11 13 00-0085)*

03 11 13 00-0087	LF	2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials	2.84

03 11 13 00-0088 Chamfer Strips, All Materials *(03 11 13 00-0085)*

03 11 13 00-0089	LF	1/2" Wide Chamfer Strips for Concrete Formwork, All Materials	3.00
03 11 13 00-0090	LF	3/4" Wide Chamfer Strips for Concrete Formwork, All Materials	3.47
03 11 13 00-0091	LF	1" Wide Chamfer Strips for Concrete Formwork, All Materials	4.01

03 11 13 00-0092 Strip Out Reglets For Concrete Formwork *(03 11 13 00-0085)*

03 11 13 00-0093	LF	24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork	14.60

03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal *(03 11 13 00-0085)*

03 11 13 00-0095	EA	2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	16.96
03 11 13 00-0096	EA	4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	20.41
03 11 13 00-0097	EA	6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	24.68
03 11 13 00-0098	EA	8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	27.83
03 11 13 00-0099	EA	12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	35.81
03 11 13 00-0100	EA	18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	76.93

03 11 16 Architectural Cast-In-Place Concrete Forming *(03 11)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 16 13		**Concrete Form Liners** *(03 11 16)*		
03 11 16 13-0001		Concrete Form Liners *(03 11 16 13)*		
03 11 16 13-0002	SF	Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork	6.73	
03 11 16 13-0003	SF	Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	9.11	
03 11 16 13-0004	SF	Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	11.99	
03 11 23		**Permanent Stair Forming** *(03 11)*		
03 11 23 00-0001		Stairway Wood Formwork *(03 11 23)*		
03 11 23 00-0002	SF	Cast On Grade Stairway Wood Formwork	23.02	
		For Curved Formwork, Add	*8.89*	
		For <1,000, Add	*4.50*	
03 11 23 00-0003	SF	Elevated Stairway Wood Formwork	45.75	
		Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
		For Curved Formwork, Add	*17.43*	
		For <1,000, Add	*8.86*	
03 11 23 00-0004		Stairway Metal Framed Formwork *(03 11 23)*		
03 11 23 00-0005	SF	Cast On Grade Stairway Metal Framed Formwork	19.90	
		For Curved Formwork, Add	*7.38*	
		For <1,000, Add	*3.79*	
03 11 23 00-0006	SF	Elevated Stairway Metal Framed Formwork	36.50	
		Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
		For Curved Formwork, Add	*13.66*	
		For <1,000, Add	*6.99*	
03 15		**Concrete Accessories** *(03 10)*		
03 15 13		**Waterstops** *(03 15)*		
03 15 13 13		**Non-Expanding Waterstops** *(03 15 13)*		
03 15 13 13-0001		Polyvinyl Chloride (PVC) Waterstops *(03 15 13 13)*		
03 15 13 13-0002	LF	3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	10.97	
03 15 13 13-0003	LF	3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	12.25	
03 15 13 13-0004	LF	3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	14.54	
03 15 13 13-0005	LF	3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	15.88	
03 15 13 13-0006	LF	1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	23.00	
03 15 13 13-0007	LF	3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	11.60	
03 15 13 13-0008	LF	3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	14.65	
03 15 13 13-0009	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	24.96	
03 15 13 13-0010	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	20.07	
03 15 13 13-0011		Rubber Waterstops *(03 15 13 13)*		
03 15 13 13-0012	LF	3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	12.18	
03 15 13 13-0013	LF	3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	13.86	
03 15 13 13-0014	LF	1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	12.43	
03 15 13 13-0015	LF	1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	16.68	
03 15 13 13-0016	LF	3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	14.19	
03 15 13 13-0017	LF	3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	17.85	
03 15 13 16		**Expanding Waterstops** *(03 15 13)*		
03 15 13 16-0001		Bentonite Waterstops *(03 15 13 16)*		
03 15 13 16-0002	LF	3/4" x 3/8" Bentonite Waterstop	9.56	
03 15 13 16-0003	LF	1-1/4" x 1/2" Bentonite Waterstop	14.40	
03 15 13 16-0004	LF	1" x 3/4" Bentonite Waterstop	16.10	
03 15 13 16-0005	LF	1" x 1" Bentonite Waterstop	18.11	
03 15 16		**Concrete Construction Joints** *(03 15)*		
03 15 16 00-0001		Poured Expansion Joint *(03 15 16)*		
03 15 16 00-0002	LF	1/2" x 1" Plain Asphalt Expansion Joint, Poured	3.46	0.96
		For Installation In Walls, Add	*1.60*	
03 15 16 00-0003	LF	1" x 2" Plain Asphalt Expansion Joint, Poured	7.78	0.96
		For Installation In Walls, Add	*1.80*	
03 15 16 00-0004	LF	1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	4.04	0.96
		For Installation In Walls, Add	*1.60*	
03 15 16 00-0005	LF	1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	10.05	0.96
		For Installation In Walls, Add	*1.80*	
03 15 16 00-0006	LF	1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	5.93	0.96
		For Installation In Walls, Add	*1.80*	
03 15 16 00-0007	LF	1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts	10.93	0.96
		For Installation In Walls, Add	*2.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0008	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	3.85	0.96
		For Installation In Walls, Add	*1.60*	
03 15 16 00-0009	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	4.74	0.96
		For Installation In Walls, Add	*1.60*	
03 15 16 00-0010	LF	1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	12.38	0.96
		For Installation In Walls, Add	*1.80*	
03 15 16 00-0011		**Premolded Expansion Joints** *(03 15 16)*		
03 15 16 00-0012		**Asphalt Saturated Fiber, Premolded Expansion Joints** *(03 15 16 00-0011)*		
03 15 16 00-0013	LF	1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	3.10	1.43
03 15 16 00-0014	LF	1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.57	1.50
03 15 16 00-0015	LF	1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.85	1.57
03 15 16 00-0016	LF	1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.15	1.64
03 15 16 00-0017	LF	3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	3.40	1.43
03 15 16 00-0018	LF	3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.80	1.50
03 15 16 00-0019	LF	3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	4.29	1.57
03 15 16 00-0020	LF	3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.97	1.64
03 15 16 00-0021	LF	1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	3.07	1.36
03 15 16 00-0022	LF	1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	3.35	1.43
03 15 16 00-0023	LF	1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.68	1.50
03 15 16 00-0024	LF	1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.97	1.57
03 15 16 00-0025	LF	1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.31	1.64
03 15 16 00-0026	LF	1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.79	1.71
03 15 16 00-0027	LF	1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	5.16	1.79
03 15 16 00-0028	LF	1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint	5.80	1.86
03 15 16 00-0029	LF	3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.70	1.50
03 15 16 00-0030	LF	3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	4.27	1.57
03 15 16 00-0031	LF	3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	5.23	1.71
03 15 16 00-0032	SF	1" Asphalt Saturated Fiber, Premolded Expansion Joint	9.10	2.35
03 15 16 00-0033		**Cork, Premolded Expansion Joints** *(03 15 16 00-0011)*		
03 15 16 00-0034	LF	1/2" x 4" Cork, Premolded Expansion Joint	5.36	1.50
03 15 16 00-0035	LF	1/2" x 6" Cork, Premolded Expansion Joint	6.04	1.64
03 15 16 00-0036	LF	1/2" x 8" Cork, Premolded Expansion Joint	6.57	1.71
03 15 16 00-0037	LF	1/2" x 10" Cork, Premolded Expansion Joint	9.25	1.79
03 15 16 00-0038	LF	1/2" x 12" Cork, Premolded Expansion Joint	9.85	1.86
03 15 16 00-0039	SF	1/2" Cork, Premolded Expansion Joint	10.86	2.35
03 15 16 00-0040	SF	3/4" Cork, Premolded Expansion Joint	12.61	2.35
03 15 16 00-0041	SF	1" Cork, Premolded Expansion Joint	13.42	2.35
03 15 16 00-0042		**Flexible Polyethylene Foam, Premolded Expansion Joints** *(03 15 16 00-0011)*		
03 15 16 00-0043	LF	1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	3.37	1.50
03 15 16 00-0044	LF	1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.53	1.57
03 15 16 00-0045	LF	1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.72	1.64
03 15 16 00-0046	LF	1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	4.33	1.71
03 15 16 00-0047	LF	1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	3.47	1.50
03 15 16 00-0048	LF	1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.64	1.57
03 15 16 00-0049	LF	1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.78	1.64
03 15 16 00-0050	LF	1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	4.16	1.71
03 15 16 00-0051		**Zip Strip, Premolded Expansion Joints** *(03 15 16 00-0011)*		
03 15 16 00-0052	LF	1" Zip Strip, Premolded Expansion Joint	3.41	1.50
03 15 16 00-0053	LF	1-1/2" Zip Strip, Premolded Expansion Joint	3.73	1.57
03 15 16 00-0054	LF	2" Zip Strip, Premolded Expansion Joint	4.15	1.71
03 15 16 00-0055		**Sponge Rubber, Premolded Expansion Joints** *(03 15 16 00-0011)*		
03 15 16 00-0056	LF	1/2" x 4" Sponge Rubber, Premolded Expansion Joint	5.42	1.43
03 15 16 00-0057	LF	1/2" x 6" Sponge Rubber, Premolded Expansion Joint	6.49	1.43
03 15 16 00-0058		**Asphalt Felt Control Joints Or Bond Breaker** *(03 15 16)*		
03 15 16 00-0059	SF	Asphalt Felt Control Joint, 30 Lb. Felt Bond Breaker	1.61	1.08
		>1,250, Deduct	*-0.08*	
03 15 16 00-0060	SF	Asphalt Felt Control Joint, 15 Lb. Felt Bond Breaker	1.52	1.08
		>1,250, Deduct	*-0.08*	
03 15 16 00-0061		**Keyed Cold Expansion And Control Joints** *(03 15 16)*		
03 15 16 00-0062		**24 Gauge Galvanized Steel With Stakes** *(03 15 16 00-0061)*		
03 15 16 00-0063	LF	24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint	7.94	
03 15 16 00-0064	LF	24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint	8.05	
03 15 16 00-0065	LF	24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint	8.33	
03 15 16 00-0066	LF	24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint	8.78	
03 15 16 00-0067	LF	24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint	10.64	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0068		**Expansion Control Systems** *(03 15 16)*		
03 15 16 00-0069		**Wabo Jeene "FW" Traffic Series Expansion Control System** *(03 15 16 00-0068)* Note: Jeene® is a patented structural sealing joint system comprised of a neoprene profile, which is air-pressurized and bonded in place with a specially formulated epoxy adhesive. Complete adhesion of the epoxy to the profile and joint wall is achieved due to the air inflation during installation.		
03 15 16 00-0070	LF	1" x 1-1/4" Jeene "FW" Expansion Joint System Note: Jeene 25FW. Includes seal, adhesive and all components required for installation. Excludes surface preparation.	105.67	8.62
03 15 16 00-0071	LF	1-5/8" x 2" Jeene "FW" Expansion Joint System Note: Jeene 40FW. Includes seal, adhesive and all components required for installation. Excludes surface preparation.	129.75	9.77
03 15 16 00-0072	LF	2" x 2-1/2" Jeene "FW" Expansion Joint System Note: Jeene 50FW. Includes seal, adhesive and all components required for installation. Excludes surface preparation.	150.10	10.78
03 15 16 00-0073	LF	2-1/2" x 3-1/4" Jeene "FW" Expansion Joint System Note: Jeene 65FW. Includes seal, adhesive and all components required for installation. Excludes surface preparation.	178.10	11.92
03 15 16 00-0074	LF	3" x 3-3/4" Jeene "FW" Expansion Joint System Note: Jeene 75FW. Includes seal, adhesive and all components required for installation. Excludes surface preparation.	222.20	13.08
03 15 16 00-0075	LF	3-7/8" x 5" Jeene "FW" Expansion Joint System Note: Jeene 100FW. Includes seal, adhesive and all components required for installation. Excludes surface preparation.	261.74	14.08
03 15 16 00-0076	LF	5" x 6-1/8" Jeene "FW" Expansion Joint System Note: Jeene 125FW. Includes seal, adhesive and all components required for installation. Excludes surface preparation.	421.03	15.23
03 15 16 00-0077		**Wabo ElastoFlex "EFJ" High Impact Load Expansion Joint System** *(03 15 16 00-0068)* Note: Wabo®ElastoFlex is a watertight continuous membrane system for joints with movements up to four inches in parking decks, loading docks, elevated roadways and other vehicle and forklift traffic. It uses mechanically fastened ethylene propylene diene monomer (EPDM) anchor blocks with molded-in steel inserts to support heavy-duty and high impact loads. The winged flap of the durable elastomeric seal is locked between the anchor block and concrete slab. An epoxy paste bedding adhesive is applied between the winged flap and concrete slab to enhance the product's watertightness. The exposed surfaces are non-metallic and skid resistant while resisting UV deterioration and most chemicals.		
03 15 16 00-0078	LF	1-1/2" ElastoFlex "EFJ" Expansion Joint System Note: ElastoFlex EFJ-225 slab to slab. Includes seal, adhesive, epoxy bonded anchors and all components required for installation. Excludes drilling and surface preparation.	195.91	11.43
03 15 16 00-0079	LF	2-1/2" ElastoFlex "EFJ" Expansion Joint System Note: ElastoFlex EFJ-400 slab to slab. Includes seal, adhesive, epoxy bonded anchors and all components required for installation. Excludes drilling and surface preparation.	243.55	14.29
03 15 16 00-0080	LF	3-3/4" ElastoFlex "EFJ" Expansion Joint System Note: ElastoFlex EFJ-600 slab to slab. Includes seal, adhesive, epoxy bonded anchors and all components required for installation. Excludes drilling and surface preparation.	305.12	17.14
03 15 16 00-0081	LF	1-1/2" ElastoFlex "EFJ-C" Expansion Joint System Note: ElastoFlex EFJ-225C wall to slab. Includes seal, adhesive, epoxy bonded anchors and all components required for installation. Excludes drilling and surface preparation.	151.99	11.43
03 15 16 00-0082	LF	2-1/2" ElastoFlex "EFJ-C" Expansion Joint System Note: ElastoFlex EFJ-400C wall to slab. Includes seal, adhesive, epoxy bonded anchors and all components required for installation. Excludes drilling and surface preparation.	197.06	14.29
03 15 16 00-0083	LF	3-3/4" ElastoFlex "EFJ-C" Expansion Joint System Note: ElastoFlex EFJ-600C wall to slab. Includes seal, adhesive, epoxy bonded anchors and all components required for installation. Excludes drilling and surface preparation.	261.20	17.14
03 15 16 00-0084		**Emseal Seismic Colorseal Expansion Joint System** *(03 15 16 00-0068)* Note: For high-movement and seismic structural expansion joints, panel joints, window perimeter joints, joints around other penetrations of the building envelope such as store-fronts, curtain walls, EIFS panel joints etc, seal shall be silicone pre-coated, preformed, pre-compressed, self-expanding, sealant system. Seal shall combine factory-applied, 15 Shore-A hardness, low-modulus silicone, and a backing of acrylic-impregnated expanding foam into a unified binary sealant system.		
03 15 16 00-0085	LF	1" Seismic Colorseal Expansion Joint System Note: Includes seal, adhesive, field applied silicon cornerbeads and all components required for installation. Excludes surface preparation.	66.77	5.74
03 15 16 00-0086	LF	1-1/2" Seismic Colorseal Expansion Joint System Note: Includes seal, adhesive, field applied silicon cornerbeads and all components required for installation. Excludes surface preparation.	97.18	6.60
03 15 16 00-0087	LF	2" Seismic Colorseal Expansion Joint System Note: Includes seal, adhesive, field applied silicon cornerbeads and all components required for installation. Excludes surface preparation.	132.84	7.47
03 15 16 00-0088	LF	2-1/2" Seismic Colorseal Expansion Joint System Note: Includes seal, adhesive, field applied silicon cornerbeads and all components required for installation. Excludes surface preparation.	163.75	8.18
03 15 16 00-0089	LF	3" Seismic Colorseal Expansion Joint System Note: Includes seal, adhesive, field applied silicon cornerbeads and all components required for installation. Excludes surface preparation.	200.70	9.05
03 15 16 00-0090	LF	3-1/2" Seismic Colorseal Expansion Joint System Note: Includes seal, adhesive, field applied silicon cornerbeads and all components required for installation. Excludes surface preparation.	246.19	9.92
03 15 16 00-0091	LF	4" Seismic Colorseal Expansion Joint System Note: Includes seal, adhesive, field applied silicon cornerbeads and all components required for installation. Excludes surface preparation.	294.31	10.78

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0092	LF	4-1/2" Seismic Colorseal Expansion Joint System Note: Includes seal, adhesive, field applied silicon cornerbeads and all components required for installation. Excludes surface preparation.	337.69	11.50
03 15 16 00-0093	LF	5" Seismic Colorseal Expansion Joint System Note: Includes seal, adhesive, field applied silicon cornerbeads and all components required for installation. Excludes surface preparation.	383.17	12.36

03 15 16 00-0094 Emseal Thermaflex Watertight Expansion Joint System *(03 15 16 00-0068)*

Note: Thermaflex consists of extruded thermo-plastic Santoprene rubber sealing glands with punched flanges embedded in a high-strength, flexible, impact-absorbing elastomeric concrete nosing. The thermo-plastic Santoprene sealing glands are heat-weldable making transitions through changes in direction and plane not only practical but watertight. The elastomeric concrete is two-part polyurethane reinforced with silica sand and fiberglass.

03 15 16 00-0095	LF	1-1/2" Thermaflex TM Expansion Joint System Note: Includes seal, adhesive, polyurethane elastomeric concrete and all components required for installation. Excludes surface preparation.	112.38	8.57
03 15 16 00-0096	LF	2-1/2" Thermaflex TM Expansion Joint System Note: Includes seal, adhesive, polyurethane elastomeric concrete and all components required for installation. Excludes surface preparation.	120.83	9.99
03 15 16 00-0097	EA	Thermaflex TM Fittings Expansion Joint System Note: For direction changes, tees and crosses. Includes seal, adhesive, polyurethane elastomeric concrete and all components required for installation. Excludes surface preparation.	561.32	28.56

03 15 19 Cast-In Concrete Anchors *(03 15)*

03 15 19 00-0001 Cast In Place Anchors *(03 15 19)*

Note: For cast in place installations. Includes nut and washer.

03 15 19 00-0002 J-Type Anchor Bolts *(03 15 19 00-0001)*

See CSI section 03 11 13 00-0002 for template.

03 15 19 00-0003 1/2" And 5/8" Diameter *(03 15 19 00-0002)*

03 15 19 00-0004	EA	1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	15.70
		For Galvanized, Add	*3.80*
		For Stainless Steel, Add	*26.57*
		For >10 To 50, Deduct	*-0.41*
		For >50 To 100, Deduct	*-1.00*
		For >100, Deduct	*-2.00*
03 15 19 00-0005	EA	1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	18.41
		For Galvanized, Add	*4.84*
		For Stainless Steel, Add	*33.85*
		For >10 To 50, Deduct	*-0.44*
		For >50 To 100, Deduct	*-1.12*
		For >100, Deduct	*-2.23*
03 15 19 00-0006	EA	1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	22.79
		For Galvanized, Add	*6.66*
		For Stainless Steel, Add	*46.62*
		For >10 To 50, Deduct	*-0.47*
		For >50 To 100, Deduct	*-1.28*
		For >100, Deduct	*-2.56*
03 15 19 00-0007	EA	5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	26.87
		For Galvanized, Add	*8.70*
		For Stainless Steel, Add	*60.90*
		For >10 To 50, Deduct	*-0.47*
		For >50 To 100, Deduct	*-1.38*
		For >100, Deduct	*-2.76*
03 15 19 00-0008	EA	5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	33.56
		For Galvanized, Add	*11.62*
		For Stainless Steel, Add	*81.31*
		For >10 To 50, Deduct	*-0.52*
		For >50 To 100, Deduct	*-1.61*
		For >100, Deduct	*-3.23*
03 15 19 00-0009	EA	5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	37.91
		For Galvanized, Add	*13.28*
		For Stainless Steel, Add	*92.93*
		For >10 To 50, Deduct	*-0.57*
		For >50 To 100, Deduct	*-1.80*
		For >100, Deduct	*-3.60*

03 15 19 00-0010 3/4" And 7/8" Diameter *(03 15 19 00-0002)*

03 15 19 00-0011	EA	3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	37.72
		For Galvanized, Add	*13.18*
		For Stainless Steel, Add	*92.26*
		For >10 To 50, Deduct	*-0.57*
		For >50 To 100, Deduct	*-1.80*
		For >100, Deduct	*-3.59*
03 15 19 00-0012	EA	3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.36
		For Galvanized, Add	*15.37*
		For Stainless Steel, Add	*107.56*
		For >10 To 50, Deduct	*-0.63*
		For >50 To 100, Deduct	*-2.03*
		For >100, Deduct	*-4.06*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0013	EA	3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	53.57	
		For Galvanized, Add	*19.68*	
		For Stainless Steel, Add	*137.76*	
		For >10 To 50, Deduct	*-0.71*	
		For >50 To 100, Deduct	*-2.41*	
		For >100, Deduct	*-4.81*	
03 15 19 00-0014	EA	3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	65.52	
		For Galvanized, Add	*24.80*	
		For Stainless Steel, Add	*173.60*	
		For >10 To 50, Deduct	*-0.80*	
		For >50 To 100, Deduct	*-2.83*	
		For >100, Deduct	*-5.66*	
03 15 19 00-0015	EA	7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	50.25	
		For Galvanized, Add	*18.02*	
		For Stainless Steel, Add	*126.14*	
		For >10 To 50, Deduct	*-0.71*	
		For >50 To 100, Deduct	*-2.32*	
		For >100, Deduct	*-4.64*	
03 15 19 00-0016	EA	7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	59.39	
		For Galvanized, Add	*21.58*	
		For Stainless Steel, Add	*151.03*	
		For >10 To 50, Deduct	*-0.81*	
		For >50 To 100, Deduct	*-2.70*	
		For >100, Deduct	*-5.41*	
03 15 19 00-0017	EA	7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	76.46	
		For Galvanized, Add	*28.76*	
		For Stainless Steel, Add	*201.32*	
		For >10 To 50, Deduct	*-0.95*	
		For >50 To 100, Deduct	*-3.33*	
		For >100, Deduct	*-6.66*	

03 15 19 00-0018 1" And 1-1/8" Diameter *(03 15 19 00-0002)*

03 15 19 00-0019	EA	1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	62.85	
		For Galvanized, Add	*23.31*	
		For Stainless Steel, Add	*163.14*	
		For >10 To 50, Deduct	*-0.81*	
		For >50 To 100, Deduct	*-2.79*	
		For >100, Deduct	*-5.58*	
03 15 19 00-0020	EA	1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	75.03	
		For Galvanized, Add	*28.05*	
		For Stainless Steel, Add	*196.32*	
		For >10 To 50, Deduct	*-0.95*	
		For >50 To 100, Deduct	*-3.30*	
		For >100, Deduct	*-6.59*	
03 15 19 00-0021	EA	1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	93.04	
		For Galvanized, Add	*35.16*	
		For Stainless Steel, Add	*246.12*	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-4.03*	
		For >100, Deduct	*-8.06*	
03 15 19 00-0022	EA	1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	114.32	
		For Galvanized, Add	*42.96*	
		For Stainless Steel, Add	*300.72*	
		For >10 To 50, Deduct	*-1.42*	
		For >50 To 100, Deduct	*-4.99*	
		For >100, Deduct	*-9.98*	
03 15 19 00-0023	EA	1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	76.09	
		For Galvanized, Add	*29.14*	
		For Stainless Steel, Add	*203.95*	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-3.24*	
		For >100, Deduct	*-6.48*	
03 15 19 00-0024	EA	1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	90.91	
		For Galvanized, Add	*35.07*	
		For Stainless Steel, Add	*245.46*	
		For >10 To 50, Deduct	*-1.04*	
		For >50 To 100, Deduct	*-3.83*	
		For >100, Deduct	*-7.66*	
03 15 19 00-0025	EA	1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	112.86	
		For Galvanized, Add	*43.96*	
		For Stainless Steel, Add	*307.69*	
		For >10 To 50, Deduct	*-1.25*	
		For >50 To 100, Deduct	*-4.69*	
		For >100, Deduct	*-9.39*	
03 15 19 00-0026	EA	1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	138.59	
		For Galvanized, Add	*53.70*	
		For Stainless Steel, Add	*375.90*	
		For >10 To 50, Deduct	*-1.56*	
		For >50 To 100, Deduct	*-5.80*	
		For >100, Deduct	*-11.61*	

03 15 19 00-0027 1-1/4" And 1-1/2" Diameter *(03 15 19 00-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0028	EA	1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	92.57	
		For Galvanized, Add	*36.42*	
		For Stainless Steel, Add	*254.91*	
		For >10 To 50, Deduct	*-0.99*	
		For >50 To 100, Deduct	*-3.79*	
		For >100, Deduct	*-7.59*	
03 15 19 00-0029	EA	1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	110.69	
		For Galvanized, Add	*43.84*	
		For Stainless Steel, Add	*306.85*	
		For >10 To 50, Deduct	*-1.15*	
		For >50 To 100, Deduct	*-4.49*	
		For >100, Deduct	*-8.99*	
03 15 19 00-0030	EA	1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	137.55	
		For Galvanized, Add	*54.96*	
		For Stainless Steel, Add	*384.69*	
		For >10 To 50, Deduct	*-1.38*	
		For >50 To 100, Deduct	*-5.51*	
		For >100, Deduct	*-11.02*	
03 15 19 00-0031	EA	1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	168.77	
		For Galvanized, Add	*67.12*	
		For Stainless Steel, Add	*469.81*	
		For >10 To 50, Deduct	*-1.73*	
		For >50 To 100, Deduct	*-6.81*	
		For >100, Deduct	*-13.62*	
03 15 19 00-0032	EA	1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	113.18	
		For Galvanized, Add	*45.52*	
		For Stainless Steel, Add	*318.64*	
		For >10 To 50, Deduct	*-1.11*	
		For >50 To 100, Deduct	*-4.49*	
		For >100, Deduct	*-8.98*	
03 15 19 00-0033	EA	1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	135.41	
		For Galvanized, Add	*54.79*	
		For Stainless Steel, Add	*383.53*	
		For >10 To 50, Deduct	*-1.29*	
		For >50 To 100, Deduct	*-5.32*	
		For >100, Deduct	*-10.65*	
03 15 19 00-0034	EA	1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	168.41	
		For Galvanized, Add	*68.71*	
		For Stainless Steel, Add	*480.94*	
		For >10 To 50, Deduct	*-1.55*	
		For >50 To 100, Deduct	*-6.54*	
		For >100, Deduct	*-13.07*	
03 15 19 00-0035	EA	1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	206.54	
		For Galvanized, Add	*83.91*	
		For Stainless Steel, Add	*587.34*	
		For >10 To 50, Deduct	*-1.94*	
		For >50 To 100, Deduct	*-8.07*	
		For >100, Deduct	*-16.14*	

03 15 19 00-0036 L-Type Anchor Bolts *(03 15 19 00-0001)*

See CSI section 03 11 13 00-0002 for template.

03 15 19 00-0037 3/4" And 7/8" Diameter *(03 15 19 00-0036)*

03 15 19 00-0038	EA	3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	32.78	
		For Galvanized, Add	*10.08*	
		For Stainless Steel, Add	*70.53*	
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.77*	
		For >100, Deduct	*-3.53*	
03 15 19 00-0039	EA	3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	39.10	
		For Galvanized, Add	*12.45*	
		For Stainless Steel, Add	*87.12*	
		For >10 To 50, Deduct	*-0.71*	
		For >50 To 100, Deduct	*-2.04*	
		For >100, Deduct	*-4.09*	
03 15 19 00-0040	EA	3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	44.78	
		For Galvanized, Add	*14.27*	
		For Stainless Steel, Add	*99.89*	
		For >10 To 50, Deduct	*-0.81*	
		For >50 To 100, Deduct	*-2.34*	
		For >100, Deduct	*-4.68*	
03 15 19 00-0041	EA	3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.58	
		For Galvanized, Add	*14.82*	
		For Stainless Steel, Add	*103.74*	
		For >10 To 50, Deduct	*-0.95*	
		For >50 To 100, Deduct	*-2.64*	
		For >100, Deduct	*-5.27*	
03 15 19 00-0042	EA	3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	53.82	
		For Galvanized, Add	*15.55*	
		For Stainless Steel, Add	*108.85*	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-3.05*	
		For >100, Deduct	*-6.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0043	EA	7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	39.20	
		For Galvanized, Add	*12.50*	
		For Stainless Steel, Add	*87.47*	
		For >10 To 50, Deduct	*-0.71*	
		For >50 To 100, Deduct	*-2.05*	
		For >100, Deduct	*-4.09*	
03 15 19 00-0044	EA	7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	45.35	
		For Galvanized, Add	*14.56*	
		For Stainless Steel, Add	*101.89*	
		For >10 To 50, Deduct	*-0.81*	
		For >50 To 100, Deduct	*-2.35*	
		For >100, Deduct	*-4.70*	
03 15 19 00-0045	EA	7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	52.32	
		For Galvanized, Add	*16.69*	
		For Stainless Steel, Add	*116.83*	
		For >10 To 50, Deduct	*-0.95*	
		For >50 To 100, Deduct	*-2.73*	
		For >100, Deduct	*-5.46*	
03 15 19 00-0046	EA	7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	57.38	
		For Galvanized, Add	*17.33*	
		For Stainless Steel, Add	*121.31*	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-3.14*	
		For >100, Deduct	*-6.28*	
03 15 19 00-0047	EA	7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	64.82	
		For Galvanized, Add	*18.21*	
		For Stainless Steel, Add	*127.47*	
		For >10 To 50, Deduct	*-1.42*	
		For >50 To 100, Deduct	*-3.75*	
		For >100, Deduct	*-7.50*	
03 15 19 00-0048		1" And 1-1/8" Diameter *(03 15 19 00-0036)*		
03 15 19 00-0049	EA	1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.29	
		For Galvanized, Add	*16.03*	
		For Stainless Steel, Add	*112.18*	
		For >10 To 50, Deduct	*-0.81*	
		For >50 To 100, Deduct	*-2.43*	
		For >100, Deduct	*-4.85*	
03 15 19 00-0050	EA	1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	54.98	
		For Galvanized, Add	*18.02*	
		For Stainless Steel, Add	*126.14*	
		For >10 To 50, Deduct	*-0.95*	
		For >50 To 100, Deduct	*-2.80*	
		For >100, Deduct	*-5.59*	
03 15 19 00-0051	EA	1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	63.02	
		For Galvanized, Add	*20.15*	
		For Stainless Steel, Add	*141.05*	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-3.28*	
		For >100, Deduct	*-6.56*	
03 15 19 00-0052	EA	1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	66.90	
		For Galvanized, Add	*21.10*	
		For Stainless Steel, Add	*147.70*	
		For >10 To 50, Deduct	*-1.24*	
		For >50 To 100, Deduct	*-3.53*	
		For >100, Deduct	*-7.05*	
03 15 19 00-0053	EA	1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	72.59	
		For Galvanized, Add	*22.10*	
		For Stainless Steel, Add	*154.67*	
		For >10 To 50, Deduct	*-1.42*	
		For >50 To 100, Deduct	*-3.94*	
		For >100, Deduct	*-7.89*	
03 15 19 00-0054	EA	1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	82.77	
		For Galvanized, Add	*25.61*	
		For Stainless Steel, Add	*179.24*	
		For >10 To 50, Deduct	*-1.58*	
		For >50 To 100, Deduct	*-4.44*	
		For >100, Deduct	*-8.87*	
03 15 19 00-0055	EA	1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	97.80	
		For Galvanized, Add	*29.97*	
		For Stainless Steel, Add	*209.76*	
		For >10 To 50, Deduct	*-1.89*	
		For >50 To 100, Deduct	*-5.29*	
		For >100, Deduct	*-10.57*	
03 15 19 00-0056	EA	1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	61.09	
		For Galvanized, Add	*21.08*	
		For Stainless Steel, Add	*147.53*	
		For >10 To 50, Deduct	*-0.95*	
		For >50 To 100, Deduct	*-2.95*	
		For >100, Deduct	*-5.90*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0057	EA	1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	69.90	
		For Galvanized, Add	*23.59*	
		For Stainless Steel, Add	*165.13*	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-3.45*	
		For >100, Deduct	*-6.90*	
03 15 19 00-0058	EA	1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	74.06	
		For Galvanized, Add	*24.68*	
		For Stainless Steel, Add	*172.76*	
		For >10 To 50, Deduct	*-1.24*	
		For >50 To 100, Deduct	*-3.70*	
		For >100, Deduct	*-7.41*	

03 15 19 00-0059 1-1/4" And 1-3/8" Diameter *(03 15 19 00-0036)*

03 15 19 00-0060	EA	1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	73.69	
		For Galvanized, Add	*25.49*	
		For Stainless Steel, Add	*178.40*	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-3.55*	
		For >100, Deduct	*-7.09*	
03 15 19 00-0061	EA	1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	88.05	
		For Galvanized, Add	*29.83*	
		For Stainless Steel, Add	*208.78*	
		For >10 To 50, Deduct	*-1.42*	
		For >50 To 100, Deduct	*-4.33*	
		For >100, Deduct	*-8.66*	
03 15 19 00-0062	EA	1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	97.47	
		For Galvanized, Add	*33.79*	
		For Stainless Steel, Add	*236.50*	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-4.68*	
		For >100, Deduct	*-9.36*	
03 15 19 00-0063	EA	1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	107.85	
		For Galvanized, Add	*38.15*	
		For Stainless Steel, Add	*267.02*	
		For >10 To 50, Deduct	*-1.58*	
		For >50 To 100, Deduct	*-5.06*	
		For >100, Deduct	*-10.13*	
03 15 19 00-0064	EA	1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	118.49	
		For Galvanized, Add	*41.49*	
		For Stainless Steel, Add	*290.43*	
		For >10 To 50, Deduct	*-1.78*	
		For >50 To 100, Deduct	*-5.63*	
		For >100, Deduct	*-11.25*	
03 15 19 00-0065	EA	1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	129.44	
		For Galvanized, Add	*44.43*	
		For Stainless Steel, Add	*311.01*	
		For >10 To 50, Deduct	*-2.03*	
		For >50 To 100, Deduct	*-6.28*	
		For >100, Deduct	*-12.56*	
03 15 19 00-0066	EA	1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	142.46	
		For Galvanized, Add	*47.56*	
		For Stainless Steel, Add	*332.92*	
		For >10 To 50, Deduct	*-2.37*	
		For >50 To 100, Deduct	*-7.11*	
		For >100, Deduct	*-14.22*	
03 15 19 00-0067	EA	1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	161.99	
		For Galvanized, Add	*52.59*	
		For Stainless Steel, Add	*368.10*	
		For >10 To 50, Deduct	*-2.84*	
		For >50 To 100, Deduct	*-8.31*	
		For >100, Deduct	*-16.62*	
03 15 19 00-0068	EA	1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	86.45	
		For Galvanized, Add	*31.87*	
		For Stainless Steel, Add	*223.06*	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-3.87*	
		For >100, Deduct	*-7.73*	
03 15 19 00-0069	EA	1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	102.99	
		For Galvanized, Add	*37.30*	
		For Stainless Steel, Add	*261.07*	
		For >10 To 50, Deduct	*-1.42*	
		For >50 To 100, Deduct	*-4.70*	
		For >100, Deduct	*-9.41*	
03 15 19 00-0070	EA	1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	114.35	
		For Galvanized, Add	*42.23*	
		For Stainless Steel, Add	*295.58*	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-5.10*	
		For >100, Deduct	*-10.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0071	EA	1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	126.91	
		For Galvanized, Add	*47.68*	
		For Stainless Steel, Add	*333.73*	
		For >10 To 50, Deduct	*-1.58*	
		For >50 To 100, Deduct	*-5.54*	
		For >100, Deduct	*-11.08*	
03 15 19 00-0072	EA	1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	139.26	
		For Galvanized, Add	*51.88*	
		For Stainless Steel, Add	*363.13*	
		For >10 To 50, Deduct	*-1.78*	
		For >50 To 100, Deduct	*-6.14*	
		For >100, Deduct	*-12.29*	
03 15 19 00-0073	EA	1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	151.68	
		For Galvanized, Add	*55.55*	
		For Stainless Steel, Add	*388.85*	
		For >10 To 50, Deduct	*-2.03*	
		For >50 To 100, Deduct	*-6.84*	
		For >100, Deduct	*-13.67*	
03 15 19 00-0074	EA	1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	167.21	
		For Galvanized, Add	*59.94*	
		For Stainless Steel, Add	*419.55*	
		For >10 To 50, Deduct	*-2.37*	
		For >50 To 100, Deduct	*-7.73*	
		For >100, Deduct	*-15.46*	
03 15 19 00-0075	EA	1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	188.30	
		For Galvanized, Add	*65.74*	
		For Stainless Steel, Add	*460.18*	
		For >10 To 50, Deduct	*-2.84*	
		For >50 To 100, Deduct	*-8.97*	
		For >100, Deduct	*-17.94*	

03 15 19 00-0076 1-1/2", 1-3/4", And 2" Diameter *(03 15 19 00-0036)*

03 15 19 00-0077	EA	1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	114.17	
		For Galvanized, Add	*44.17*	
		For Stainless Steel, Add	*309.19*	
		For >10 To 50, Deduct	*-1.29*	
		For >50 To 100, Deduct	*-4.79*	
		For >100, Deduct	*-9.58*	
03 15 19 00-0078	EA	1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	122.55	
		For Galvanized, Add	*46.33*	
		For Stainless Steel, Add	*324.28*	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-5.31*	
		For >100, Deduct	*-10.61*	
03 15 19 00-0079	EA	1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	135.36	
		For Galvanized, Add	*50.97*	
		For Stainless Steel, Add	*356.79*	
		For >10 To 50, Deduct	*-1.67*	
		For >50 To 100, Deduct	*-5.89*	
		For >100, Deduct	*-11.78*	
03 15 19 00-0080	EA	1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	146.89	
		For Galvanized, Add	*55.69*	
		For Stainless Steel, Add	*389.83*	
		For >10 To 50, Deduct	*-1.78*	
		For >50 To 100, Deduct	*-6.34*	
		For >100, Deduct	*-12.67*	
03 15 19 00-0081	EA	1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	158.69	
		For Galvanized, Add	*60.41*	
		For Stainless Steel, Add	*422.87*	
		For >10 To 50, Deduct	*-1.89*	
		For >50 To 100, Deduct	*-6.81*	
		For >100, Deduct	*-13.62*	
03 15 19 00-0082	EA	1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	173.63	
		For Galvanized, Add	*64.96*	
		For Stainless Steel, Add	*454.72*	
		For >10 To 50, Deduct	*-2.19*	
		For >50 To 100, Deduct	*-7.62*	
		For >100, Deduct	*-15.24*	
03 15 19 00-0083	EA	1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	192.19	
		For Galvanized, Add	*70.27*	
		For Stainless Steel, Add	*491.89*	
		For >10 To 50, Deduct	*-2.58*	
		For >50 To 100, Deduct	*-8.68*	
		For >100, Deduct	*-17.36*	
03 15 19 00-0084	EA	1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	218.99	
		For Galvanized, Add	*77.93*	
		For Stainless Steel, Add	*545.51*	
		For >10 To 50, Deduct	*-3.16*	
		For >50 To 100, Deduct	*-10.21*	
		For >100, Deduct	*-20.42*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0085	EA	1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	161.31	
		For Galvanized, Add	*66.46*	
		For Stainless Steel, Add	*465.19*	
		For >10 To 50, Deduct	*-1.42*	
		For >50 To 100, Deduct	*-6.16*	
		For >100, Deduct	*-12.33*	
03 15 19 00-0086	EA	1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	167.36	
		For Galvanized, Add	*67.90*	
		For Stainless Steel, Add	*475.30*	
		For >10 To 50, Deduct	*-1.58*	
		For >50 To 100, Deduct	*-6.55*	
		For >100, Deduct	*-13.10*	
03 15 19 00-0087	EA	1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	171.40	
		For Galvanized, Add	*68.99*	
		For Stainless Steel, Add	*482.93*	
		For >10 To 50, Deduct	*-1.67*	
		For >50 To 100, Deduct	*-6.79*	
		For >100, Deduct	*-13.58*	
03 15 19 00-0088	EA	1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	194.88	
		For Galvanized, Add	*79.69*	
		For Stainless Steel, Add	*557.80*	
		For >10 To 50, Deduct	*-1.78*	
		For >50 To 100, Deduct	*-7.54*	
		For >100, Deduct	*-15.07*	
03 15 19 00-0089	EA	1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	224.55	
		For Galvanized, Add	*91.99*	
		For Stainless Steel, Add	*643.90*	
		For >10 To 50, Deduct	*-2.03*	
		For >50 To 100, Deduct	*-8.66*	
		For >100, Deduct	*-17.31*	
03 15 19 00-0090	EA	1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	233.73	
		For Galvanized, Add	*93.20*	
		For Stainless Steel, Add	*652.37*	
		For >10 To 50, Deduct	*-2.37*	
		For >50 To 100, Deduct	*-9.39*	
		For >100, Deduct	*-18.79*	
03 15 19 00-0091	EA	1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	258.10	
		For Galvanized, Add	*100.64*	
		For Stainless Steel, Add	*704.48*	
		For >10 To 50, Deduct	*-2.84*	
		For >50 To 100, Deduct	*-10.71*	
		For >100, Deduct	*-21.43*	
03 15 19 00-0092	EA	1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	287.81	
		For Galvanized, Add	*108.40*	
		For Stainless Steel, Add	*758.77*	
		For >10 To 50, Deduct	*-3.55*	
		For >50 To 100, Deduct	*-12.52*	
		For >100, Deduct	*-25.04*	
03 15 19 00-0093	EA	2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	235.74	
		For Galvanized, Add	*101.16*	
		For Stainless Steel, Add	*708.12*	
		For >10 To 50, Deduct	*-1.67*	
		For >50 To 100, Deduct	*-8.40*	
		For >100, Deduct	*-16.80*	
03 15 19 00-0094	EA	2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	256.60	
		For Galvanized, Add	*109.37*	
		For Stainless Steel, Add	*765.56*	
		For >10 To 50, Deduct	*-1.89*	
		For >50 To 100, Deduct	*-9.26*	
		For >100, Deduct	*-18.51*	
03 15 19 00-0095	EA	2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	282.12	
		For Galvanized, Add	*119.21*	
		For Stainless Steel, Add	*834.44*	
		For >10 To 50, Deduct	*-2.19*	
		For >50 To 100, Deduct	*-10.33*	
		For >100, Deduct	*-20.66*	
03 15 19 00-0096	EA	2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	304.14	
		For Galvanized, Add	*126.25*	
		For Stainless Steel, Add	*883.72*	
		For >10 To 50, Deduct	*-2.58*	
		For >50 To 100, Deduct	*-11.48*	
		For >100, Deduct	*-22.95*	
03 15 19 00-0097	EA	2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	328.13	
		For Galvanized, Add	*135.66*	
		For Stainless Steel, Add	*949.59*	
		For >10 To 50, Deduct	*-2.84*	
		For >50 To 100, Deduct	*-12.46*	
		For >100, Deduct	*-24.93*	
03 15 19 00-0098	EA	2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	352.84	
		For Galvanized, Add	*144.86*	
		For Stainless Steel, Add	*1,013.99*	
		For >10 To 50, Deduct	*-3.16*	
		For >50 To 100, Deduct	*-13.56*	
		For >100, Deduct	*-27.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0099	EA	2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	392.31	
		For Galvanized, Add	*155.57*	
		For Stainless Steel, Add	*1,088.99*	
		For >10 To 50, Deduct	*-4.06*	
		For >50 To 100, Deduct	*-15.90*	
		For >100, Deduct	*-31.79*	
03 15 19 00-0100	EA	2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	423.23	
		For Galvanized, Add	*171.03*	
		For Stainless Steel, Add	*1,197.21*	
		For >10 To 50, Deduct	*-4.06*	
		For >50 To 100, Deduct	*-16.67*	
		For >100, Deduct	*-33.34*	
03 15 19 00-0101	EA	2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	474.92	
		For Galvanized, Add	*190.12*	
		For Stainless Steel, Add	*1,330.81*	
		For >10 To 50, Deduct	*-4.73*	
		For >50 To 100, Deduct	*-18.97*	
		For >100, Deduct	*-37.95*	

03 15 19 00-0102 2-1/2" And 2-3/4" Diameter *(03 15 19 00-0036)*

03 15 19 00-0103	EA	2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	482.92	
		For Galvanized, Add	*224.75*	
		For Stainless Steel, Add	*1,573.25*	
		For >10 To 50, Deduct	*-1.67*	
		For >50 To 100, Deduct	*-14.58*	
		For >100, Deduct	*-29.16*	
03 15 19 00-0104	EA	2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	507.72	
		For Galvanized, Add	*234.93*	
		For Stainless Steel, Add	*1,644.48*	
		For >10 To 50, Deduct	*-1.89*	
		For >50 To 100, Deduct	*-15.53*	
		For >100, Deduct	*-31.07*	
03 15 19 00-0105	EA	2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	553.24	
		For Galvanized, Add	*254.77*	
		For Stainless Steel, Add	*1,783.36*	
		For >10 To 50, Deduct	*-2.19*	
		For >50 To 100, Deduct	*-17.11*	
		For >100, Deduct	*-34.22*	
03 15 19 00-0106	EA	2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	588.64	
		For Galvanized, Add	*268.50*	
		For Stainless Steel, Add	*1,879.47*	
		For >10 To 50, Deduct	*-2.58*	
		For >50 To 100, Deduct	*-18.59*	
		For >100, Deduct	*-37.18*	
03 15 19 00-0107	EA	2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	622.59	
		For Galvanized, Add	*282.89*	
		For Stainless Steel, Add	*1,980.20*	
		For >10 To 50, Deduct	*-2.84*	
		For >50 To 100, Deduct	*-19.83*	
		For >100, Deduct	*-39.65*	
03 15 19 00-0108	EA	2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	661.14	
		For Galvanized, Add	*299.01*	
		For Stainless Steel, Add	*2,093.04*	
		For >10 To 50, Deduct	*-3.16*	
		For >50 To 100, Deduct	*-21.26*	
		For >100, Deduct	*-42.53*	
03 15 19 00-0109	EA	2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	712.18	
		For Galvanized, Add	*315.51*	
		For Stainless Steel, Add	*2,208.54*	
		For >10 To 50, Deduct	*-4.06*	
		For >50 To 100, Deduct	*-23.89*	
		For >100, Deduct	*-47.78*	
03 15 19 00-0110	EA	2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	544.38	
		For Galvanized, Add	*254.44*	
		For Stainless Steel, Add	*1,781.05*	
		For >10 To 50, Deduct	*-1.78*	
		For >50 To 100, Deduct	*-16.27*	
		For >100, Deduct	*-32.55*	
03 15 19 00-0111	EA	2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	584.92	
		For Galvanized, Add	*272.17*	
		For Stainless Steel, Add	*1,905.19*	
		For >10 To 50, Deduct	*-2.03*	
		For >50 To 100, Deduct	*-17.67*	
		For >100, Deduct	*-35.33*	
03 15 19 00-0112	EA	2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	627.47	
		For Galvanized, Add	*290.07*	
		For Stainless Steel, Add	*2,030.46*	
		For >10 To 50, Deduct	*-2.37*	
		For >50 To 100, Deduct	*-19.24*	
		For >100, Deduct	*-38.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0113	EA	2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	669.20	
		For Galvanized, Add	*306.19*	
		For Stainless Steel, Add	*2,143.33*	
		For >10 To 50, Deduct	*-2.84*	
		For >50 To 100, Deduct	*-20.99*	
		For >100, Deduct	*-41.98*	
03 15 19 00-0114	EA	2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	710.74	
		For Galvanized, Add	*323.81*	
		For Stainless Steel, Add	*2,266.64*	
		For >10 To 50, Deduct	*-3.16*	
		For >50 To 100, Deduct	*-22.50*	
		For >100, Deduct	*-45.01*	
03 15 19 00-0115	EA	2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	768.65	
		For Galvanized, Add	*348.82*	
		For Stainless Steel, Add	*2,441.71*	
		For >10 To 50, Deduct	*-3.55*	
		For >50 To 100, Deduct	*-24.54*	
		For >100, Deduct	*-49.09*	
03 15 19 00-0116	EA	2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	830.68	
		For Galvanized, Add	*368.00*	
		For Stainless Steel, Add	*2,575.97*	
		For >10 To 50, Deduct	*-4.73*	
		For >50 To 100, Deduct	*-27.87*	
		For >100, Deduct	*-55.74*	

03 20 Concrete Reinforcing *(03)*

Note: Includes cutting or torching to size, bending where necessary and tie wires.

03 21 Reinforcement Bars *(03 20)*

Note: Includes cutting, bending, tie wire, tying, bar chairs and all non-mechanical splicing. The weights of reinforcing steel shall be used as follows: #2 (1/8" Diameter) - 0.167 Lb./LF, #3 (3/8" Diameter) - 0.376 Ls./LF, #4 (1/2" Diameter) - 0.668 Lb./LF, #5 (5/8" Diameter) - 1.043 Lb./LF, #6 (3/4" Diameter) - 1.502 Lb./LF, #7 (7/8" Diameter) - 2.044 Lb./LF, #8 (1" Diameter) - 2.670 Lb./LF, #9 (1.128" Diameter) - 3.400 Lb./LF, #10 (1.27" Diameter) - 4.303 Lb./LF, #11 (1.41" Diameter) - 5.313 Lb./LF, #14 (1.693" Diameter) - 7.650 Lb./LF, #18 (2.257" Diameter) - 13.600 Lb./LF.

03 21 11 Plain Steel Reinforcement Bars *(03 21)*

03 21 11 00-0001 Beams And Girders, Steel Reinforcement Bar *(03 21 11)*

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0002	LF	#3, Grade 40, Beams And Girders, Steel Reinforcement Bar	0.81	
		For Up To 100, Add	*0.54*	
		For >100 To 200, Add	*0.29*	
		For >200 To 500, Add	*0.12*	
03 21 11 00-0003	LF	#4, Grade 40, Beams And Girders, Steel Reinforcement Bar	1.37	
		For Up To 100, Add	*0.93*	
		For >100 To 200, Add	*0.50*	
		For >200 To 500, Add	*0.20*	
03 21 11 00-0004	LF	#5, Grade 40, Beams And Girders, Steel Reinforcement Bar	2.05	
		For Up To 100, Add	*1.42*	
		For >100 To 200, Add	*0.76*	
		For >200 To 500, Add	*0.31*	
03 21 11 00-0005	LF	#6, Grade 40, Beams And Girders, Steel Reinforcement Bar	2.84	
		For Up To 100, Add	*2.00*	
		For >100 To 200, Add	*1.07*	
		For >200 To 500, Add	*0.43*	
03 21 11 00-0006	LF	#3, Grade 50, Beams And Girders, Steel Reinforcement Bar	0.83	
		For Up To 100, Add	*0.56*	
		For >100 To 200, Add	*0.30*	
		For >200 To 500, Add	*0.12*	
03 21 11 00-0007	LF	#4, Grade 50, Beams And Girders, Steel Reinforcement Bar	1.40	
		For Up To 100, Add	*0.96*	
		For >100 To 200, Add	*0.52*	
		For >200 To 500, Add	*0.21*	
03 21 11 00-0008	LF	#5, Grade 50, Beams And Girders, Steel Reinforcement Bar	2.10	
		For Up To 100, Add	*1.47*	
		For >100 To 200, Add	*0.79*	
		For >200 To 500, Add	*0.32*	
03 21 11 00-0009	LF	#6, Grade 50, Beams And Girders, Steel Reinforcement Bar	2.91	
		For Up To 100, Add	*2.07*	
		For >100 To 200, Add	*1.11*	
		For >200 To 500, Add	*0.44*	
03 21 11 00-0010	LF	#3, Grade 60, Beams And Girders, Steel Reinforcement Bar	0.85	
		For Up To 100, Add	*0.58*	
		For >100 To 200, Add	*0.31*	
		For >200 To 500, Add	*0.13*	
03 21 11 00-0011	LF	#4, Grade 60, Beams And Girders, Steel Reinforcement Bar	1.45	
		For Up To 100, Add	*1.01*	
		For >100 To 200, Add	*0.54*	
		For >200 To 500, Add	*0.22*	
03 21 11 00-0012	LF	#5, Grade 60, Beams And Girders, Steel Reinforcement Bar	2.17	
		For Up To 100, Add	*1.54*	
		For >100 To 200, Add	*0.82*	
		For >200 To 500, Add	*0.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0013	LF	#6, Grade 60, Beams And Girders, Steel Reinforcement Bar	3.02	
		For Up To 100, Add	*2.18*	
		For >100 To 200, Add	*1.16*	
		For >200 To 500, Add	*0.46*	
03 21 11 00-0014	LF	#7, Grade 60, Beams And Girders, Steel Reinforcement Bar	3.92	
		For Up To 100, Add	*2.25*	
		For >100 To 200, Add	*1.31*	
		For >200 To 400, Add	*0.61*	
03 21 11 00-0015	LF	#8, Grade 60, Beams And Girders, Steel Reinforcement Bar	4.89	
		For Up To 100, Add	*2.86*	
		For >100 To 200, Add	*1.65*	
		For >200 To 400, Add	*0.78*	
03 21 11 00-0016	LF	#9, Grade 60, Beams And Girders, Steel Reinforcement Bar	6.03	
		For Up To 100, Add	*3.57*	
		For >100 To 200, Add	*2.06*	
		For >200 To 400, Add	*0.97*	
03 21 11 00-0017	LF	#10, Grade 60, Beams And Girders, Steel Reinforcement Bar	7.38	
		For Up To 100, Add	*3.60*	
		For >100 To 200, Add	*1.94*	
		For >200 To 300, Add	*0.97*	
03 21 11 00-0018	LF	#11, Grade 60, Beams And Girders, Steel Reinforcement Bar	8.81	
		For Up To 100, Add	*4.36*	
		For >100 To 200, Add	*2.33*	
		For >200 To 300, Add	*1.17*	
03 21 11 00-0019	LF	#14, Grade 60, Beams And Girders, Steel Reinforcement Bar	12.23	
		For Up To 100, Add	*6.14*	
		For >100 To 200, Add	*3.27*	
		For >200 To 300, Add	*1.63*	
03 21 11 00-0020	LF	#18, Grade 60, Beams And Girders, Steel Reinforcement Bar	20.96	
		For Up To 100, Add	*10.68*	
		For >100 To 200, Add	*5.66*	
		For >200 To 300, Add	*2.83*	
03 21 11 00-0021	LF	#6, Grade 75, Beams And Girders, Steel Reinforcement Bar	3.12	
		For Up To 100, Add	*2.28*	
		For >100 To 200, Add	*1.21*	
		For >200 To 500, Add	*0.48*	
03 21 11 00-0022	LF	#7, Grade 75, Beams And Girders, Steel Reinforcement Bar	4.07	
		For Up To 100, Add	*2.36*	
		For >100 To 200, Add	*1.37*	
		For >200 To 400, Add	*0.64*	
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar	5.08	
		For Up To 100, Add	*3.00*	
		For >100 To 200, Add	*1.73*	
		For >200 To 400, Add	*0.81*	
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar	6.27	
		For Up To 100, Add	*3.75*	
		For >100 To 200, Add	*2.15*	
		For >200 To 400, Add	*1.02*	
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar	7.69	
		For Up To 100, Add	*3.79*	
		For >100 To 200, Add	*2.03*	
		For >200 To 300, Add	*1.02*	
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar	9.19	
		For Up To 100, Add	*4.59*	
		For >100 To 200, Add	*2.45*	
		For >200 To 300, Add	*1.22*	
03 21 11 00-0027	LF	#14, Grade 75, Beams And Girders, Steel Reinforcement Bar	12.78	
		For Up To 100, Add	*6.47*	
		For >100 To 200, Add	*3.43*	
		For >200 To 300, Add	*1.72*	
03 21 11 00-0028	LF	#18, Grade 75, Beams And Girders, Steel Reinforcement Bar	21.93	
		For Up To 100, Add	*11.26*	
		For >100 To 200, Add	*5.95*	
		For >200 To 300, Add	*2.97*	
03 21 11 00-0029	LF	#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	0.87	
		For Up To 100, Add	*0.60*	
		For >100 To 200, Add	*0.32*	
		For >200 To 500, Add	*0.13*	
03 21 11 00-0030	LF	#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	1.48	
		For Up To 100, Add	*1.04*	
		For >100 To 200, Add	*0.56*	
		For >200 To 500, Add	*0.22*	
03 21 11 00-0031	LF	#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	2.23	
		For Up To 100, Add	*1.60*	
		For >100 To 200, Add	*0.85*	
		For >200 To 500, Add	*0.34*	
03 21 11 00-0032	LF	#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	3.10	
		For Up To 100, Add	*2.26*	
		For >100 To 200, Add	*1.20*	
		For >200 To 500, Add	*0.48*	
03 21 11 00-0033	LF	#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	4.03	
		For Up To 100, Add	*2.33*	
		For >100 To 200, Add	*1.35*	
		For >200 To 400, Add	*0.63*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0034	LF	#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	5.04	
		For Up To 100, Add	*2.97*	
		For >100 To 200, Add	*1.71*	
		For >200 To 400, Add	*0.81*	
03 21 11 00-0035	LF	#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	6.21	
		For Up To 100, Add	*3.71*	
		For >100 To 200, Add	*2.13*	
		For >200 To 400, Add	*1.01*	
03 21 11 00-0036	LF	#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	7.61	
		For Up To 100, Add	*3.74*	
		For >100 To 200, Add	*2.01*	
		For >200 To 300, Add	*1.00*	
03 21 11 00-0037	LF	#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	9.09	
		For Up To 100, Add	*4.53*	
		For >100 To 200, Add	*2.42*	
		For >200 To 300, Add	*1.21*	
03 21 11 00-0038	LF	#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	12.64	
		For Up To 100, Add	*6.38*	
		For >100 To 200, Add	*3.39*	
		For >200 To 300, Add	*1.70*	
03 21 11 00-0039	LF	#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	21.69	
		For Up To 100, Add	*11.12*	
		For >100 To 200, Add	*5.88*	
		For >200 To 300, Add	*2.94*	

03 21 11 00-0040 Columns, Steel Reinforcement Bar *(03 21 11)*

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0041	LF	#3, Grade 40, Columns, Steel Reinforcement Bar	0.85	
		For Up To 100, Add	*0.56*	
		For >100 To 200, Add	*0.30*	
		For >200 To 500, Add	*0.12*	
03 21 11 00-0042	LF	#4, Grade 40, Columns, Steel Reinforcement Bar	1.45	
		For Up To 100, Add	*0.96*	
		For >100 To 200, Add	*0.52*	
		For >200 To 500, Add	*0.21*	
03 21 11 00-0043	LF	#5, Grade 40, Columns, Steel Reinforcement Bar	2.16	
		For Up To 100, Add	*1.46*	
		For >100 To 200, Add	*0.79*	
		For >200 To 500, Add	*0.32*	
03 21 11 00-0044	LF	#6, Grade 40, Columns, Steel Reinforcement Bar	2.98	
		For Up To 100, Add	*2.06*	
		For >100 To 200, Add	*1.11*	
		For >200 To 500, Add	*0.44*	
03 21 11 00-0045	LF	#3, Grade 50, Columns, Steel Reinforcement Bar	0.87	
		For Up To 100, Add	*0.58*	
		For >100 To 200, Add	*0.31*	
		For >200 To 500, Add	*0.13*	
03 21 11 00-0046	LF	#4, Grade 50, Columns, Steel Reinforcement Bar	1.48	
		For Up To 100, Add	*0.99*	
		For >100 To 200, Add	*0.54*	
		For >200 To 500, Add	*0.22*	
03 21 11 00-0047	LF	#5, Grade 50, Columns, Steel Reinforcement Bar	2.21	
		For Up To 100, Add	*1.51*	
		For >100 To 200, Add	*0.82*	
		For >200 To 500, Add	*0.33*	
03 21 11 00-0048	LF	#6, Grade 50, Columns, Steel Reinforcement Bar	3.05	
		For Up To 100, Add	*2.13*	
		For >100 To 200, Add	*1.14*	
		For >200 To 500, Add	*0.46*	
03 21 11 00-0049	LF	#3, Grade 60, Columns, Steel Reinforcement Bar	0.89	
		For Up To 100, Add	*0.60*	
		For >100 To 200, Add	*0.32*	
		For >200 To 500, Add	*0.13*	
03 21 11 00-0050	LF	#4, Grade 60, Columns, Steel Reinforcement Bar	1.53	
		For Up To 100, Add	*1.04*	
		For >100 To 200, Add	*0.56*	
		For >200 To 500, Add	*0.23*	
03 21 11 00-0051	LF	#5, Grade 60, Columns, Steel Reinforcement Bar	2.28	
		For Up To 100, Add	*1.58*	
		For >100 To 200, Add	*0.85*	
		For >200 To 500, Add	*0.34*	
03 21 11 00-0052	LF	#6, Grade 60, Columns, Steel Reinforcement Bar	3.16	
		For Up To 100, Add	*2.24*	
		For >100 To 200, Add	*1.20*	
		For >200 To 500, Add	*0.48*	
03 21 11 00-0053	LF	#7, Grade 60, Columns, Steel Reinforcement Bar	4.09	
		For Up To 100, Add	*2.31*	
		For >100 To 200, Add	*1.35*	
		For >200 To 400, Add	*0.63*	
03 21 11 00-0054	LF	#8, Grade 60, Columns, Steel Reinforcement Bar	5.09	
		For Up To 100, Add	*2.93*	
		For >100 To 200, Add	*1.70*	
		For >200 To 400, Add	*0.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0055	LF	#9, Grade 60, Columns, Steel Reinforcement Bar	6.26	
		For Up To 100, Add	*3.66*	
		For >100 To 200, Add	*2.11*	
		For >200 To 400, Add	*0.99*	
03 21 11 00-0056	LF	#10, Grade 60, Columns, Steel Reinforcement Bar	7.65	
		For Up To 100, Add	*3.68*	
		For >100 To 200, Add	*1.99*	
		For >200 To 300, Add	*1.00*	
03 21 11 00-0057	LF	#11, Grade 60, Columns, Steel Reinforcement Bar	9.11	
		For Up To 100, Add	*4.45*	
		For >100 To 200, Add	*2.39*	
		For >200 To 300, Add	*1.20*	
03 21 11 00-0058	LF	#14, Grade 60, Columns, Steel Reinforcement Bar	12.63	
		For Up To 100, Add	*6.26*	
		For >100 To 200, Add	*3.35*	
		For >200 To 300, Add	*1.67*	
03 21 11 00-0059	LF	#18, Grade 60, Columns, Steel Reinforcement Bar	21.58	
		For Up To 100, Add	*10.87*	
		For >100 To 200, Add	*5.78*	
		For >200 To 300, Add	*2.89*	
03 21 11 00-0060	LF	#6, Grade 75, Columns, Steel Reinforcement Bar	3.26	
		For Up To 100, Add	*2.34*	
		For >100 To 200, Add	*1.25*	
		For >200 To 500, Add	*0.50*	
03 21 11 00-0061	LF	#7, Grade 75, Columns, Steel Reinforcement Bar	4.24	
		For Up To 100, Add	*2.42*	
		For >100 To 200, Add	*1.41*	
		For >200 To 400, Add	*0.66*	
03 21 11 00-0062	LF	#8, Grade 75, Columns, Steel Reinforcement Bar	5.28	
		For Up To 100, Add	*3.07*	
		For >100 To 200, Add	*1.78*	
		For >200 To 400, Add	*0.83*	
03 21 11 00-0063	LF	#9, Grade 75, Columns, Steel Reinforcement Bar	6.50	
		For Up To 100, Add	*3.84*	
		For >100 To 200, Add	*2.21*	
		For >200 To 400, Add	*1.04*	
03 21 11 00-0064	LF	#10, Grade 75, Columns, Steel Reinforcement Bar	7.96	
		For Up To 100, Add	*3.87*	
		For >100 To 200, Add	*2.09*	
		For >200 To 300, Add	*1.04*	
03 21 11 00-0065	LF	#11, Grade 75, Columns, Steel Reinforcement Bar	9.49	
		For Up To 100, Add	*4.68*	
		For >100 To 200, Add	*2.51*	
		For >200 To 300, Add	*1.25*	
03 21 11 00-0066	LF	#14, Grade 75, Columns, Steel Reinforcement Bar	13.18	
		For Up To 100, Add	*6.59*	
		For >100 To 200, Add	*3.51*	
		For >200 To 300, Add	*1.76*	
03 21 11 00-0067	LF	#18, Grade 75, Columns, Steel Reinforcement Bar	22.55	
		For Up To 100, Add	*11.45*	
		For >100 To 200, Add	*6.07*	
		For >200 To 300, Add	*3.04*	
03 21 11 00-0068	LF	#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	0.91	
		For Up To 100, Add	*0.62*	
		For >100 To 200, Add	*0.33*	
		For >200 To 500, Add	*0.13*	
03 21 11 00-0069	LF	#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.56	
		For Up To 100, Add	*1.07*	
		For >100 To 200, Add	*0.58*	
		For >200 To 500, Add	*0.23*	
03 21 11 00-0070	LF	#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	2.34	
		For Up To 100, Add	*1.64*	
		For >100 To 200, Add	*0.88*	
		For >200 To 500, Add	*0.35*	
03 21 11 00-0071	LF	#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	3.24	
		For Up To 100, Add	*2.32*	
		For >100 To 200, Add	*1.24*	
		For >200 To 500, Add	*0.49*	
03 21 11 00-0072	LF	#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	4.20	
		For Up To 100, Add	*2.39*	
		For >100 To 200, Add	*1.40*	
		For >200 To 400, Add	*0.65*	
03 21 11 00-0073	LF	#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	5.24	
		For Up To 100, Add	*3.04*	
		For >100 To 200, Add	*1.76*	
		For >200 To 400, Add	*0.83*	
03 21 11 00-0074	LF	#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	6.44	
		For Up To 100, Add	*3.79*	
		For >100 To 200, Add	*2.19*	
		For >200 To 400, Add	*1.03*	
03 21 11 00-0075	LF	#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	7.88	
		For Up To 100, Add	*3.82*	
		For >100 To 200, Add	*2.06*	
		For >200 To 300, Add	*1.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0076	LF	#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	9.39	
		For Up To 100, Add	*4.62*	
		For >100 To 200, Add	*2.48*	
		For >200 To 300, Add	*1.24*	
03 21 11 00-0077	LF	#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	13.04	
		For Up To 100, Add	*6.50*	
		For >100 To 200, Add	*3.47*	
		For >200 To 300, Add	*1.74*	
03 21 11 00-0078	LF	#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	22.31	
		For Up To 100, Add	*11.30*	
		For >100 To 200, Add	*6.00*	
		For >200 To 300, Add	*3.00*	

03 21 11 00-0079 Footings, Steel Reinforcement Bar *(03 21 11)*

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar	0.74	
		For Up To 100, Add	*0.51*	
		For >100 To 200, Add	*0.28*	
		For >200 To 500, Add	*0.11*	
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar	1.26	
		For Up To 100, Add	*0.89*	
		For >100 To 200, Add	*0.48*	
		For >200 To 500, Add	*0.19*	
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar	1.90	
		For Up To 100, Add	*1.36*	
		For >100 To 200, Add	*0.73*	
		For >200 To 500, Add	*0.29*	
03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar	2.63	
		For Up To 100, Add	*1.92*	
		For >100 To 200, Add	*1.02*	
		For >200 To 500, Add	*0.41*	
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar	0.76	
		For Up To 100, Add	*0.53*	
		For >100 To 200, Add	*0.29*	
		For >200 To 500, Add	*0.11*	
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar	1.29	
		For Up To 100, Add	*0.92*	
		For >100 To 200, Add	*0.49*	
		For >200 To 500, Add	*0.20*	
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar	1.95	
		For Up To 100, Add	*1.41*	
		For >100 To 200, Add	*0.75*	
		For >200 To 500, Add	*0.30*	
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar	2.70	
		For Up To 100, Add	*1.99*	
		For >100 To 200, Add	*1.05*	
		For >200 To 500, Add	*0.42*	
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar	0.78	
		For Up To 100, Add	*0.55*	
		For >100 To 200, Add	*0.30*	
		For >200 To 500, Add	*0.12*	
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar	1.34	
		For Up To 100, Add	*0.97*	
		For >100 To 200, Add	*0.52*	
		For >200 To 500, Add	*0.21*	
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar	2.02	
		For Up To 100, Add	*1.48*	
		For >100 To 200, Add	*0.79*	
		For >200 To 500, Add	*0.31*	
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar	2.81	
		For Up To 100, Add	*2.10*	
		For >100 To 200, Add	*1.11*	
		For >200 To 500, Add	*0.44*	
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar	3.67	
		For Up To 100, Add	*2.16*	
		For >100 To 200, Add	*1.25*	
		For >200 To 400, Add	*0.59*	
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar	4.59	
		For Up To 100, Add	*2.75*	
		For >100 To 200, Add	*1.58*	
		For >200 To 400, Add	*0.75*	
03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar	5.67	
		For Up To 100, Add	*3.45*	
		For >100 To 200, Add	*1.97*	
		For >200 To 400, Add	*0.93*	
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar	6.96	
		For Up To 100, Add	*4.29*	
		For >100 To 200, Add	*2.43*	
		For >200 To 400, Add	*1.16*	
		For Up To 100, Add	*3.48*	
		For >100 To 200, Add	*1.86*	
		For >200 To 300, Add	*0.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar	8.34	
		For Up To 100, Add	*5.21*	
		For >100 To 200, Add	*2.94*	
		For >200 To 400, Add	*1.41*	
		For Up To 100, Add	*4.22*	
		For >100 To 200, Add	*2.24*	
		For >200 To 300, Add	*1.12*	
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar	11.63	
		For Up To 100, Add	*7.36*	
		For >100 To 200, Add	*4.14*	
		For >200 To 400, Add	*1.99*	
		For Up To 100, Add	*5.96*	
		For >100 To 200, Add	*3.15*	
		For >200 To 300, Add	*1.57*	
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar	20.00	
		For Up To 100, Add	*12.86*	
		For >100 To 200, Add	*7.20*	
		For >200 To 400, Add	*3.46*	
		For Up To 100, Add	*10.39*	
		For >100 To 200, Add	*5.46*	
		For >200 To 300, Add	*2.73*	
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar	2.91	
		For Up To 100, Add	*2.20*	
		For >100 To 200, Add	*1.16*	
		For >200 To 500, Add	*0.46*	
		For Up To 100, Add	*1.71*	
		For >100 To 200, Add	*0.99*	
		For >200 To 400, Add	*0.46*	
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar	3.82	
		For Up To 100, Add	*2.28*	
		For >100 To 200, Add	*1.31*	
		For >200 To 400, Add	*0.62*	
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar	4.78	
		For Up To 100, Add	*2.90*	
		For >100 To 200, Add	*1.65*	
		For >200 To 400, Add	*0.78*	
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar	5.91	
		For Up To 100, Add	*3.63*	
		For >100 To 200, Add	*2.06*	
		For >200 To 400, Add	*0.98*	
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar	7.27	
		For Up To 100, Add	*3.66*	
		For >100 To 200, Add	*1.95*	
		For >200 To 300, Add	*0.97*	
03 21 11 00-0104	LF	#11, Grade 75, Footings, Steel Reinforcement Bar	8.72	
		For Up To 100, Add	*4.45*	
		For >100 To 200, Add	*2.35*	
		For >200 To 300, Add	*1.18*	
03 21 11 00-0105	LF	#14, Grade 75, Footings, Steel Reinforcement Bar	12.18	
		For Up To 100, Add	*6.29*	
		For >100 To 200, Add	*3.31*	
		For >200 To 300, Add	*1.66*	
03 21 11 00-0106	LF	#18, Grade 75, Footings, Steel Reinforcement Bar	20.97	
		For Up To 100, Add	*10.97*	
		For >100 To 200, Add	*5.76*	
		For >200 To 300, Add	*2.88*	
03 21 11 00-0107	LF	#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.80	
		For Up To 100, Add	*0.57*	
		For >100 To 200, Add	*0.31*	
		For >200 To 500, Add	*0.12*	
03 21 11 00-0108	LF	#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.37	
		For Up To 100, Add	*1.00*	
		For >100 To 200, Add	*0.53*	
		For >200 To 500, Add	*0.21*	
03 21 11 00-0109	LF	#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.08	
		For Up To 100, Add	*1.54*	
		For >100 To 200, Add	*0.82*	
		For >200 To 500, Add	*0.33*	
03 21 11 00-0110	LF	#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.89	
		For Up To 100, Add	*2.18*	
		For >100 To 200, Add	*1.15*	
		For >200 To 500, Add	*0.46*	
03 21 11 00-0111	LF	#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.78	
		For Up To 100, Add	*2.25*	
		For >100 To 200, Add	*1.29*	
		For >200 To 400, Add	*0.61*	
03 21 11 00-0112	LF	#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.74	
		For Up To 100, Add	*2.87*	
		For >100 To 200, Add	*1.64*	
		For >200 To 400, Add	*0.78*	
03 21 11 00-0113	LF	#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	5.85	
		For Up To 100, Add	*3.58*	
		For >100 To 200, Add	*2.04*	
		For >200 To 400, Add	*0.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0114	LF	#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	7.19	
		For Up To 100, Add	*3.62*	
		For >100 To 200, Add	*1.92*	
		For >200 To 300, Add	*0.96*	
03 21 11 00-0115	LF	#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	8.62	
		For Up To 100, Add	*4.39*	
		For >100 To 200, Add	*2.32*	
		For >200 To 300, Add	*1.16*	
03 21 11 00-0116	LF	#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	12.04	
		For Up To 100, Add	*6.20*	
		For >100 To 200, Add	*3.27*	
		For >200 To 300, Add	*1.64*	
03 21 11 00-0117	LF	#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	20.73	
		For Up To 100, Add	*10.83*	
		For >100 To 200, Add	*5.68*	
		For >200 To 300, Add	*2.84*	

03 21 11 00-0118 Slab On Grade, Steel Reinforcement Bar *(03 21 11)*

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0119	LF	#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.72	
		For Up To 100, Add	*0.50*	
		For >100 To 200, Add	*0.27*	
		For >200 To 500, Add	*0.11*	
03 21 11 00-0120	LF	#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.23	
		For Up To 100, Add	*0.88*	
		For >100 To 200, Add	*0.47*	
		For >200 To 500, Add	*0.19*	
03 21 11 00-0121	LF	#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.84	
		For Up To 100, Add	*1.34*	
		For >100 To 200, Add	*0.71*	
		For >200 To 500, Add	*0.28*	
03 21 11 00-0122	LF	#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	2.55	
		For Up To 100, Add	*1.88*	
		For >100 To 200, Add	*1.00*	
		For >200 To 500, Add	*0.40*	
03 21 11 00-0123	LF	#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.74	
		For Up To 100, Add	*0.52*	
		For >100 To 200, Add	*0.28*	
		For >200 To 500, Add	*0.11*	
03 21 11 00-0124	LF	#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.26	
		For Up To 100, Add	*0.91*	
		For >100 To 200, Add	*0.48*	
		For >200 To 500, Add	*0.19*	
03 21 11 00-0125	LF	#5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.89	
		For Up To 100, Add	*1.39*	
		For >100 To 200, Add	*0.74*	
		For >200 To 500, Add	*0.29*	
03 21 11 00-0126	LF	#6, Grade 50, Slab On Grade, Steel Reinforcement Bar	2.62	
		For Up To 100, Add	*1.95*	
		For >100 To 200, Add	*1.03*	
		For >200 To 500, Add	*0.41*	
03 21 11 00-0127	LF	#3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.76	
		For Up To 100, Add	*0.54*	
		For >100 To 200, Add	*0.29*	
		For >200 To 500, Add	*0.12*	
03 21 11 00-0128	LF	#4, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.31	
		For Up To 100, Add	*0.96*	
		For >100 To 200, Add	*0.51*	
		For >200 To 500, Add	*0.20*	
03 21 11 00-0129	LF	#5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.96	
		For Up To 100, Add	*1.46*	
		For >100 To 200, Add	*0.77*	
		For >200 To 500, Add	*0.31*	
03 21 11 00-0130	LF	#6, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.73	
		For Up To 100, Add	*2.06*	
		For >100 To 200, Add	*1.09*	
		For >200 To 500, Add	*0.44*	
03 21 11 00-0131	LF	#7, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.59	
		For Up To 100, Add	*2.14*	
		For >100 To 200, Add	*1.23*	
		For >200 To 400, Add	*0.58*	
03 21 11 00-0132	LF	#8, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.49	
		For Up To 100, Add	*2.72*	
		For >100 To 200, Add	*1.55*	
		For >200 To 400, Add	*0.74*	
03 21 11 00-0133	LF	#9, Grade 60, Slab On Grade, Steel Reinforcement Bar	5.55	
		For Up To 100, Add	*3.41*	
		For >100 To 200, Add	*1.94*	
		For >200 To 400, Add	*0.92*	
03 21 11 00-0134	LF	#10, Grade 60, Slab On Grade, Steel Reinforcement Bar	6.83	
		For Up To 100, Add	*3.44*	
		For >100 To 200, Add	*1.83*	
		For >200 To 300, Add	*0.91*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0135	LF	#11, Grade 60, Slab On Grade, Steel Reinforcement Bar	8.19	
		For Up To 100, Add	*4.17*	
		For >100 To 200, Add	*2.21*	
		For >200 To 300, Add	*1.11*	
03 21 11 00-0136	LF	#14, Grade 60, Slab On Grade, Steel Reinforcement Bar	11.42	
		For Up To 100, Add	*5.90*	
		For >100 To 200, Add	*3.11*	
		For >200 To 300, Add	*1.55*	
03 21 11 00-0137	LF	#18, Grade 60, Slab On Grade, Steel Reinforcement Bar	19.69	
		For Up To 100, Add	*10.30*	
		For >100 To 200, Add	*5.40*	
		For >200 To 300, Add	*2.70*	
03 21 11 00-0138	LF	#6, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.83	
		For Up To 100, Add	*2.16*	
		For >100 To 200, Add	*1.14*	
		For >200 To 500, Add	*0.46*	
03 21 11 00-0139	LF	#7, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.74	
		For Up To 100, Add	*2.25*	
		For >100 To 200, Add	*1.29*	
		For >200 To 400, Add	*0.61*	
03 21 11 00-0140	LF	#8, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.68	
		For Up To 100, Add	*2.86*	
		For >100 To 200, Add	*1.63*	
		For >200 To 400, Add	*0.77*	
03 21 11 00-0141	LF	#9, Grade 75, Slab On Grade, Steel Reinforcement Bar	5.79	
		For Up To 100, Add	*3.59*	
		For >100 To 200, Add	*2.03*	
		For >200 To 400, Add	*0.97*	
03 21 11 00-0142	LF	#10, Grade 75, Slab On Grade, Steel Reinforcement Bar	7.14	
		For Up To 100, Add	*3.62*	
		For >100 To 200, Add	*1.92*	
		For >200 To 300, Add	*0.96*	
03 21 11 00-0143	LF	#11, Grade 75, Slab On Grade, Steel Reinforcement Bar	8.57	
		For Up To 100, Add	*4.40*	
		For >100 To 200, Add	*2.32*	
		For >200 To 300, Add	*1.16*	
03 21 11 00-0144	LF	#14, Grade 75, Slab On Grade, Steel Reinforcement Bar	11.97	
		For Up To 100, Add	*6.23*	
		For >100 To 200, Add	*3.27*	
		For >200 To 300, Add	*1.64*	
03 21 11 00-0145	LF	#18, Grade 75, Slab On Grade, Steel Reinforcement Bar	20.66	
		For Up To 100, Add	*10.88*	
		For >100 To 200, Add	*5.69*	
		For >200 To 300, Add	*2.85*	
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.78	
		For Up To 100, Add	*0.56*	
		For >100 To 200, Add	*0.30*	
		For >200 To 500, Add	*0.12*	
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.34	
		For Up To 100, Add	*0.99*	
		For >100 To 200, Add	*0.52*	
		For >200 To 500, Add	*0.21*	
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.02	
		For Up To 100, Add	*1.52*	
		For >100 To 200, Add	*0.80*	
		For >200 To 500, Add	*0.32*	
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.81	
		For Up To 100, Add	*2.14*	
		For >100 To 200, Add	*1.13*	
		For >200 To 500, Add	*0.45*	
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.70	
		For Up To 100, Add	*2.22*	
		For >100 To 200, Add	*1.27*	
		For >200 To 400, Add	*0.60*	
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.64	
		For Up To 100, Add	*2.83*	
		For >100 To 200, Add	*1.61*	
		For >200 To 400, Add	*0.77*	
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	5.73	
		For Up To 100, Add	*3.54*	
		For >100 To 200, Add	*2.01*	
		For >200 To 400, Add	*0.96*	
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	7.06	
		For Up To 100, Add	*3.58*	
		For >100 To 200, Add	*1.90*	
		For >200 To 300, Add	*0.95*	
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	8.47	
		For Up To 100, Add	*4.34*	
		For >100 To 200, Add	*2.29*	
		For >200 To 300, Add	*1.15*	
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	11.83	
		For Up To 100, Add	*6.14*	
		For >100 To 200, Add	*3.23*	
		For >200 To 300, Add	*1.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	20.42	
		For Up To 100, Add	*10.74*	
		For >100 To 200, Add	*5.62*	
		For >200 To 300, Add	*2.81*	

03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar *(03 21 11)*

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.67	
		For Up To 100, Add	*0.48*	
		For >100 To 200, Add	*0.26*	
		For >200 To 500, Add	*0.10*	
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.15	
		For Up To 100, Add	*0.84*	
		For >100 To 200, Add	*0.45*	
		For >200 To 500, Add	*0.18*	
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.74	
		For Up To 100, Add	*1.30*	
		For >100 To 200, Add	*0.69*	
		For >200 To 500, Add	*0.27*	
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	2.41	
		For Up To 100, Add	*1.83*	
		For >100 To 200, Add	*0.96*	
		For >200 To 500, Add	*0.39*	
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.69	
		For Up To 100, Add	*0.50*	
		For >100 To 200, Add	*0.27*	
		For >200 To 500, Add	*0.11*	
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.18	
		For Up To 100, Add	*0.87*	
		For >100 To 200, Add	*0.46*	
		For >200 To 500, Add	*0.19*	
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.79	
		For Up To 100, Add	*1.35*	
		For >100 To 200, Add	*0.71*	
		For >200 To 500, Add	*0.28*	
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	2.48	
		For Up To 100, Add	*1.90*	
		For >100 To 200, Add	*1.00*	
		For >200 To 500, Add	*0.40*	
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.71	
		For Up To 100, Add	*0.52*	
		For >100 To 200, Add	*0.28*	
		For >200 To 500, Add	*0.11*	
03 21 11 00-0167	LF	#4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.23	
		For Up To 100, Add	*0.92*	
		For >100 To 200, Add	*0.49*	
		For >200 To 500, Add	*0.20*	
03 21 11 00-0168	LF	#5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.86	
		For Up To 100, Add	*1.42*	
		For >100 To 200, Add	*0.75*	
		For >200 To 500, Add	*0.30*	
03 21 11 00-0169	LF	#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.59	
		For Up To 100, Add	*2.01*	
		For >100 To 200, Add	*1.05*	
		For >200 To 500, Add	*0.42*	
03 21 11 00-0170	LF	#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.41	
		For Up To 100, Add	*2.07*	
		For >100 To 200, Add	*1.18*	
		For >200 To 400, Add	*0.56*	
03 21 11 00-0171	LF	#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.28	
		For Up To 100, Add	*2.65*	
		For >100 To 200, Add	*1.50*	
		For >200 To 400, Add	*0.72*	
03 21 11 00-0172	LF	#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	5.32	
		For Up To 100, Add	*3.33*	
		For >100 To 200, Add	*1.88*	
		For >200 To 400, Add	*0.90*	
03 21 11 00-0173	LF	#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	6.56	
		For Up To 100, Add	*3.36*	
		For >100 To 200, Add	*1.78*	
		For >200 To 300, Add	*0.89*	
03 21 11 00-0174	LF	#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	7.88	
		For Up To 100, Add	*4.08*	
		For >100 To 200, Add	*2.15*	
		For >200 To 300, Add	*1.07*	
03 21 11 00-0175	LF	#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	11.03	
		For Up To 100, Add	*5.78*	
		For >100 To 200, Add	*3.03*	
		For >200 To 300, Add	*1.51*	
03 21 11 00-0176	LF	#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	19.06	
		For Up To 100, Add	*10.11*	
		For >100 To 200, Add	*5.28*	
		For >200 To 300, Add	*2.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0177	LF	#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.69	
		For Up To 100, Add	*2.11*	
		For >100 To 200, Add	*1.10*	
		For >200 To 500, Add	*0.44*	
03 21 11 00-0178	LF	#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.56	
		For Up To 100, Add	*2.19*	
		For >100 To 200, Add	*1.24*	
		For >200 To 400, Add	*0.59*	
03 21 11 00-0179	LF	#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.47	
		For Up To 100, Add	*2.79*	
		For >100 To 200, Add	*1.58*	
		For >200 To 400, Add	*0.75*	
03 21 11 00-0180	LF	#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	5.56	
		For Up To 100, Add	*3.51*	
		For >100 To 200, Add	*1.98*	
		For >200 To 400, Add	*0.95*	
03 21 11 00-0181	LF	#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	6.87	
		For Up To 100, Add	*3.54*	
		For >100 To 200, Add	*1.87*	
		For >200 To 300, Add	*0.93*	
03 21 11 00-0182	LF	#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	8.26	
		For Up To 100, Add	*4.31*	
		For >100 To 200, Add	*2.26*	
		For >200 To 300, Add	*1.13*	
03 21 11 00-0183	LF	#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	11.58	
		For Up To 100, Add	*6.11*	
		For >100 To 200, Add	*3.19*	
		For >200 To 300, Add	*1.60*	
03 21 11 00-0184	LF	#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	20.03	
		For Up To 100, Add	*10.69*	
		For >100 To 200, Add	*5.57*	
		For >200 To 300, Add	*2.78*	
03 21 11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.73	
		For Up To 100, Add	*0.54*	
		For >100 To 200, Add	*0.29*	
		For >200 To 500, Add	*0.12*	
03 21 11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.26	
		For Up To 100, Add	*0.95*	
		For >100 To 200, Add	*0.50*	
		For >200 To 500, Add	*0.20*	
03 21 11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.92	
		For Up To 100, Add	*1.48*	
		For >100 To 200, Add	*0.78*	
		For >200 To 500, Add	*0.31*	
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.67	
		For Up To 100, Add	*2.09*	
		For >100 To 200, Add	*1.09*	
		For >200 To 500, Add	*0.44*	
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.52	
		For Up To 100, Add	*2.16*	
		For >100 To 200, Add	*1.23*	
		For >200 To 400, Add	*0.58*	
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.43	
		For Up To 100, Add	*2.76*	
		For >100 To 200, Add	*1.56*	
		For >200 To 400, Add	*0.75*	
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	5.50	
		For Up To 100, Add	*3.46*	
		For >100 To 200, Add	*1.95*	
		For >200 To 400, Add	*0.93*	
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	6.79	
		For Up To 100, Add	*3.50*	
		For >100 To 200, Add	*1.84*	
		For >200 To 300, Add	*0.92*	
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	8.16	
		For Up To 100, Add	*4.25*	
		For >100 To 200, Add	*2.23*	
		For >200 To 300, Add	*1.12*	
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	11.44	
		For Up To 100, Add	*6.02*	
		For >100 To 200, Add	*3.15*	
		For >200 To 300, Add	*1.58*	
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	19.79	
		For Up To 100, Add	*10.55*	
		For >100 To 200, Add	*5.50*	
		For >200 To 300, Add	*2.75*	

03 21 11 00-0196 Walls, Steel Reinforcement Bar *(03 21 11)*

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar	0.65	
		For Up To 100, Add	*0.48*	
		For >100 To 200, Add	*0.25*	
		For >200 To 500, Add	*0.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar	1.11	
		For Up To 100, Add	*0.83*	
		For >100 To 200, Add	*0.44*	
		For >200 To 500, Add	*0.18*	
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar	1.68	
		For Up To 100, Add	*1.27*	
		For >100 To 200, Add	*0.67*	
		For >200 To 500, Add	*0.27*	
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar	2.34	
		For Up To 100, Add	*1.80*	
		For >100 To 200, Add	*0.95*	
		For >200 To 500, Add	*0.38*	
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar	0.67	
		For Up To 100, Add	*0.50*	
		For >100 To 200, Add	*0.26*	
		For >200 To 500, Add	*0.11*	
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar	1.14	
		For Up To 100, Add	*0.86*	
		For >100 To 200, Add	*0.45*	
		For >200 To 500, Add	*0.18*	
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar	1.73	
		For Up To 100, Add	*1.32*	
		For >100 To 200, Add	*0.70*	
		For >200 To 500, Add	*0.28*	
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar	2.41	
		For Up To 100, Add	*1.87*	
		For >100 To 200, Add	*0.98*	
		For >200 To 500, Add	*0.39*	
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar	0.69	
		For Up To 100, Add	*0.52*	
		For >100 To 200, Add	*0.27*	
		For >200 To 500, Add	*0.11*	
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar	1.19	
		For Up To 100, Add	*0.91*	
		For >100 To 200, Add	*0.48*	
		For >200 To 500, Add	*0.19*	
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar	1.80	
		For Up To 100, Add	*1.39*	
		For >100 To 200, Add	*0.73*	
		For >200 To 500, Add	*0.29*	
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar	2.52	
		For Up To 100, Add	*1.98*	
		For >100 To 200, Add	*1.04*	
		For >200 To 500, Add	*0.41*	
03 21 11 00-0209	LF	#7, Grade 60, Walls, Steel Reinforcement Bar	3.31	
		For Up To 100, Add	*2.04*	
		For >100 To 200, Add	*1.16*	
		For >200 To 400, Add	*0.55*	
03 21 11 00-0210	LF	#8, Grade 60, Walls, Steel Reinforcement Bar	4.19	
		For Up To 100, Add	*2.61*	
		For >100 To 200, Add	*1.48*	
		For >200 To 400, Add	*0.71*	
03 21 11 00-0211	LF	#9, Grade 60, Walls, Steel Reinforcement Bar	5.21	
		For Up To 100, Add	*3.29*	
		For >100 To 200, Add	*1.85*	
		For >200 To 400, Add	*0.89*	
03 21 11 00-0212	LF	#10, Grade 60, Walls, Steel Reinforcement Bar	6.42	
		For Up To 100, Add	*3.32*	
		For >100 To 200, Add	*1.75*	
		For >200 To 300, Add	*0.87*	
03 21 11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar	7.73	
		For Up To 100, Add	*4.04*	
		For >100 To 200, Add	*2.12*	
		For >200 To 300, Add	*1.06*	
03 21 11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar	10.83	
		For Up To 100, Add	*5.72*	
		For >100 To 200, Add	*2.99*	
		For >200 To 300, Add	*1.49*	
03 21 11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar	18.75	
		For Up To 100, Add	*10.02*	
		For >100 To 200, Add	*5.21*	
		For >200 To 300, Add	*2.61*	
03 21 11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar	2.62	
		For Up To 100, Add	*2.08*	
		For >100 To 200, Add	*1.09*	
		For >200 To 500, Add	*0.43*	
03 21 11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar	3.46	
		For Up To 100, Add	*2.15*	
		For >100 To 200, Add	*1.22*	
		For >200 To 400, Add	*0.58*	
03 21 11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar	4.38	
		For Up To 100, Add	*2.76*	
		For >100 To 200, Add	*1.55*	
		For >200 To 400, Add	*0.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar	5.45	
		For Up To 100, Add	*3.47*	
		For >100 To 200, Add	*1.95*	
		For >200 To 400, Add	*0.94*	
03 21 11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar	6.73	
		For Up To 100, Add	*3.50*	
		For >100 To 200, Add	*1.84*	
		For >200 To 300, Add	*0.92*	
03 21 11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar	8.11	
		For Up To 100, Add	*4.26*	
		For >100 To 200, Add	*2.23*	
		For >200 To 300, Add	*1.12*	
03 21 11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar	11.38	
		For Up To 100, Add	*6.05*	
		For >100 To 200, Add	*3.15*	
		For >200 To 300, Add	*1.58*	
03 21 11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar	19.72	
		For Up To 100, Add	*10.60*	
		For >100 To 200, Add	*5.51*	
		For >200 To 300, Add	*2.75*	
03 21 11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.71	
		For Up To 100, Add	*0.54*	
		For >100 To 200, Add	*0.28*	
		For >200 To 500, Add	*0.11*	
03 21 11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.22	
		For Up To 100, Add	*0.94*	
		For >100 To 200, Add	*0.49*	
		For >200 To 500, Add	*0.20*	
03 21 11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.86	
		For Up To 100, Add	*1.45*	
		For >100 To 200, Add	*0.76*	
		For >200 To 500, Add	*0.30*	
03 21 11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.60	
		For Up To 100, Add	*2.06*	
		For >100 To 200, Add	*1.08*	
		For >200 To 500, Add	*0.43*	
03 21 11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.42	
		For Up To 100, Add	*2.12*	
		For >100 To 200, Add	*1.20*	
		For >200 To 400, Add	*0.57*	
03 21 11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.34	
		For Up To 100, Add	*2.73*	
		For >100 To 200, Add	*1.54*	
		For >200 To 400, Add	*0.74*	
03 21 11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	5.39	
		For Up To 100, Add	*3.42*	
		For >100 To 200, Add	*1.92*	
		For >200 To 400, Add	*0.92*	
03 21 11 00-0231	LF	#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	6.65	
		For Up To 100, Add	*3.45*	
		For >100 To 200, Add	*1.82*	
		For >200 To 300, Add	*0.91*	
03 21 11 00-0232	LF	#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	8.01	
		For Up To 100, Add	*4.20*	
		For >100 To 200, Add	*2.20*	
		For >200 To 300, Add	*1.10*	
03 21 11 00-0233	LF	#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	11.24	
		For Up To 100, Add	*5.96*	
		For >100 To 200, Add	*3.11*	
		For >200 To 300, Add	*1.56*	
03 21 11 00-0234	LF	#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	19.48	
		For Up To 100, Add	*10.46*	
		For >100 To 200, Add	*5.43*	
		For >200 To 300, Add	*2.72*	

03 21 11 00-0235 Mechanical Joint Connection *(03 21 11)*

03 21 11 00-0236 Thermal Type Mechanical Joint Connection *(03 21 11 00-0235)*

03 21 11 00-0237	EA	Thermal Type Mechanical Joint Connection, Add Per Splice	277.93

03 21 11 00-0238 Screwed Type Mechanical Joint Connection *(03 21 11 00-0235)*

03 21 11 00-0239	EA	Screwed Type Mechanical Joint Connection, Add Per Splice	151.23

03 21 11 00-0240 Deformed Straight Dowels *(03 21 11)*

Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.

03 21 11 00-0241	EA	3/8" Diameter x 24" Long, Deformed Straight Dowel	3.65
		For Up To 12" Length, Deduct	*-0.46*
		For >12" To <24" Length, Deduct	*-0.23*
03 21 11 00-0242	EA	1/2" Diameter x 24" Long, Deformed Straight Dowel	4.37
		For Up To 12" Length, Deduct	*-0.60*
		For >12" To <24" Length, Deduct	*-0.30*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0243	EA	5/8" Diameter x 24" Long, Deformed Straight Dowel	5.39	
		For Up To 12" Length, Deduct	*-0.95*	
		For >12" To <24" Length, Deduct	*-0.48*	
03 21 11 00-0244	EA	3/4" Diameter x 24" Long, Deformed Straight Dowel	6.62	
		For Up To 12" Length, Deduct	*-1.38*	
		For >12" To <24" Length, Deduct	*-0.69*	
03 21 11 00-0245	EA	7/8" Diameter x 24" Long, Deformed Straight Dowel	7.88	
		For Up To 12" Length, Deduct	*-1.92*	
		For >12" To <24" Length, Deduct	*-0.96*	
03 21 11 00-0246	EA	1" Diameter x 24" Long, Deformed Straight Dowel	9.95	
		For Up To 12" Length, Deduct	*-2.46*	
		For >12" To <24" Length, Deduct	*-1.23*	
03 21 11 00-0247	EA	1-1/8" Diameter x 24" Long, Deformed Straight Dowel	11.75	
		For Up To 12" Length, Deduct	*-3.03*	
		For >12" To <24" Length, Deduct	*-1.51*	
03 21 11 00-0248	EA	1-1/4" Diameter x 24" Long, Deformed Straight Dowel	14.46	
		For Up To 12" Length, Deduct	*-3.96*	
		For >12" To <24" Length, Deduct	*-1.98*	
03 21 11 00-0249	EA	1-3/8" Diameter x 24" Long, Deformed Straight Dowel	17.22	
		For Up To 12" Length, Deduct	*-4.89*	
		For >12" To <24" Length, Deduct	*-2.44*	

03 21 11 00-0250 Dowel Or Hairpin, Drilled And Epoxy Into Concrete *(03 21 11)*

03 21 11 00-0251	EA	Dowels Or Hairpin, 1/2" x 30" Length, Drilled And Epoxy In Concrete, 6" Embedment	33.85
03 21 11 00-0252	EA	Dowels Or Hairpin, 1/2" x 36" Length, Drilled And Epoxy In Concrete, >6" To 12" Embedment	35.34

03 21 11 00-0253 Spirals, Reinforcing Steel *(03 21 11)*

03 21 11 00-0254	TON	Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	3,604.26	
		For Grade 75, Add	*127.56*	
03 21 11 00-0255	TON	>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel	3,558.58	
		For Grade 75, Add	*127.56*	
03 21 11 00-0256	TON	>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel	3,523.74	
		For Grade 75, Add	*127.56*	
03 21 11 00-0257	TON	>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel	3,466.75	
		For Grade 75, Add	*127.56*	
03 21 11 00-0258	TON	>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel	3,389.69	
		For Grade 75, Add	*127.56*	
03 21 11 00-0259	TON	>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel	3,355.30	
		For Grade 75, Add	*130.70*	
03 21 11 00-0260	TON	>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel	3,290.78	
		For Grade 75, Add	*130.70*	

03 21 11 00-0261 Accessories For Reinforcing Steel *(03 21 11)*

03 21 11 00-0262 Reinforcing Steel Lap-Weld Splice *(03 21 11 00-0261)*

03 21 11 00-0263	EA	Up To #6 Reinforcing Steel Lap-Weld Splice	70.87
03 21 11 00-0264	EA	>#6 Reinforcing Steel Lap-Weld Splice	113.72

03 21 11 00-0265 Reinforcing Steel Sleeve And Wedge Splice Joint *(03 21 11 00-0261)*

03 21 11 00-0266	EA	Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint	38.29
03 21 11 00-0267	EA	#5 Reinforcing Steel, Sleeve And Wedge Splice Joint	59.65
03 21 11 00-0268	EA	#6 Reinforcing Steel, Sleeve And Wedge Splice Joint	90.23

03 21 13 Galvanized Reinforcement Steel Bars *(03 21)*

03 21 13 00-0001 Beams And Girders, Galvanized Steel Reinforcement Bar *(03 21 13)*

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0002	LF	#3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.99	
		For Up To 100, Add	*0.72*	
		For >100 To 200, Add	*0.38*	
		For >200 To 500, Add	*0.15*	
03 21 13 00-0003	LF	#4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.70	
		For Up To 100, Add	*1.26*	
		For >100 To 200, Add	*0.67*	
		For >200 To 500, Add	*0.27*	
03 21 13 00-0004	LF	#5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.56	
		For Up To 100, Add	*1.93*	
		For >100 To 200, Add	*1.02*	
		For >200 To 500, Add	*0.41*	
03 21 13 00-0005	LF	#6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	3.57	
		For Up To 100, Add	*2.73*	
		For >100 To 200, Add	*1.44*	
		For >200 To 500, Add	*0.57*	
03 21 13 00-0006	LF	#3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.01	
		For Up To 100, Add	*0.74*	
		For >100 To 200, Add	*0.39*	
		For >200 To 500, Add	*0.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0007	LF	#4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.73	
		For Up To 100, Add	*1.29*	
		For >100 To 200, Add	*0.68*	
		For >200 To 500, Add	*0.27*	
03 21 13 00-0008	LF	#5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.61	
		For Up To 100, Add	*1.98*	
		For >100 To 200, Add	*1.04*	
		For >200 To 500, Add	*0.42*	
03 21 13 00-0009	LF	#6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	3.64	
		For Up To 100, Add	*2.80*	
		For >100 To 200, Add	*1.47*	
		For >200 To 500, Add	*0.59*	
03 21 13 00-0010	LF	#3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.04	
		For Up To 100, Add	*0.77*	
		For >100 To 200, Add	*0.41*	
		For >200 To 500, Add	*0.16*	
03 21 13 00-0011	LF	#4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.78	
		For Up To 100, Add	*1.34*	
		For >100 To 200, Add	*0.71*	
		For >200 To 500, Add	*0.28*	
03 21 13 00-0012	LF	#5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.68	
		For Up To 100, Add	*2.05*	
		For >100 To 200, Add	*1.08*	
		For >200 To 500, Add	*0.43*	
03 21 13 00-0013	LF	#6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.75	
		For Up To 100, Add	*2.91*	
		For >100 To 200, Add	*1.53*	
		For >200 To 500, Add	*0.61*	
03 21 13 00-0014	LF	#7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.92	
		For Up To 100, Add	*3.00*	
		For >100 To 200, Add	*1.71*	
		For >200 To 400, Add	*0.81*	
03 21 13 00-0015	LF	#8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.20	
		For Up To 100, Add	*3.84*	
		For >100 To 200, Add	*2.18*	
		For >200 To 400, Add	*1.04*	
03 21 13 00-0016	LF	#9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	7.69	
		For Up To 100, Add	*4.82*	
		For >100 To 200, Add	*2.72*	
		For >200 To 400, Add	*1.30*	
03 21 13 00-0017	LF	#10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	9.49	
		For Up To 100, Add	*4.87*	
		For >100 To 200, Add	*2.57*	
		For >200 To 300, Add	*1.29*	
03 21 13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	11.41	
		For Up To 100, Add	*5.92*	
		For >100 To 200, Add	*3.11*	
		For >200 To 300, Add	*1.56*	
03 21 13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	15.98	
		For Up To 100, Add	*8.39*	
		For >100 To 200, Add	*4.39*	
		For >200 To 300, Add	*2.20*	
03 21 13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	27.61	
		For Up To 100, Add	*14.67*	
		For >100 To 200, Add	*7.65*	
		For >200 To 300, Add	*3.83*	
03 21 13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.86	
		For Up To 100, Add	*3.02*	
		For >100 To 200, Add	*1.58*	
		For >200 To 500, Add	*0.63*	
03 21 13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.07	
		For Up To 100, Add	*3.11*	
		For >100 To 200, Add	*1.77*	
		For >200 To 400, Add	*0.84*	
03 21 13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.39	
		For Up To 100, Add	*3.98*	
		For >100 To 200, Add	*2.25*	
		For >200 To 400, Add	*1.08*	
03 21 13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.94	
		For Up To 100, Add	*5.01*	
		For >100 To 200, Add	*2.82*	
		For >200 To 400, Add	*1.35*	
03 21 13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	9.79	
		For Up To 100, Add	*5.05*	
		For >100 To 200, Add	*2.66*	
		For >200 To 300, Add	*1.33*	
03 21 13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	11.79	
		For Up To 100, Add	*6.15*	
		For >100 To 200, Add	*3.23*	
		For >200 To 300, Add	*1.61*	
03 21 13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	16.52	
		For Up To 100, Add	*8.71*	
		For >100 To 200, Add	*4.56*	
		For >200 To 300, Add	*2.28*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	28.59	
		For Up To 100, Add	*15.26*	
		For >100 To 200, Add	*7.95*	
		For >200 To 300, Add	*3.97*	

03 21 13 00-0029 Columns, Galvanized Steel Reinforcement Bar *(03 21 13)*

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.03	
		For Up To 100, Add	*0.74*	
		For >100 To 200, Add	*0.39*	
		For >200 To 500, Add	*0.16*	
03 21 13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.78	
		For Up To 100, Add	*1.29*	
		For >100 To 200, Add	*0.69*	
		For >200 To 500, Add	*0.28*	
03 21 13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.67	
		For Up To 100, Add	*1.97*	
		For >100 To 200, Add	*1.05*	
		For >200 To 500, Add	*0.42*	
03 21 13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	3.71	
		For Up To 100, Add	*2.79*	
		For >100 To 200, Add	*1.47*	
		For >200 To 500, Add	*0.59*	
03 21 13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.05	
		For Up To 100, Add	*0.76*	
		For >100 To 200, Add	*0.40*	
		For >200 To 500, Add	*0.16*	
03 21 13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.81	
		For Up To 100, Add	*1.32*	
		For >100 To 200, Add	*0.70*	
		For >200 To 500, Add	*0.28*	
03 21 13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.72	
		For Up To 100, Add	*2.02*	
		For >100 To 200, Add	*1.07*	
		For >200 To 500, Add	*0.43*	
03 21 13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	3.78	
		For Up To 100, Add	*2.86*	
		For >100 To 200, Add	*1.51*	
		For >200 To 500, Add	*0.60*	
03 21 13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.08	
		For Up To 100, Add	*0.79*	
		For >100 To 200, Add	*0.42*	
		For >200 To 500, Add	*0.17*	
03 21 13 00-0039	LF	#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.86	
		For Up To 100, Add	*1.37*	
		For >100 To 200, Add	*0.73*	
		For >200 To 500, Add	*0.29*	
03 21 13 00-0040	LF	#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.79	
		For Up To 100, Add	*2.09*	
		For >100 To 200, Add	*1.11*	
		For >200 To 500, Add	*0.44*	
03 21 13 00-0041	LF	#6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	3.89	
		For Up To 100, Add	*2.97*	
		For >100 To 200, Add	*1.56*	
		For >200 To 500, Add	*0.62*	
03 21 13 00-0042	LF	#7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	5.09	
		For Up To 100, Add	*3.06*	
		For >100 To 200, Add	*1.75*	
		For >200 To 400, Add	*0.83*	
03 21 13 00-0043	LF	#8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	6.40	
		For Up To 100, Add	*3.91*	
		For >100 To 200, Add	*2.23*	
		For >200 To 400, Add	*1.06*	
03 21 13 00-0044	LF	#9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	7.92	
		For Up To 100, Add	*4.90*	
		For >100 To 200, Add	*2.78*	
		For >200 To 400, Add	*1.32*	
03 21 13 00-0045	LF	#10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	9.76	
		For Up To 100, Add	*4.95*	
		For >100 To 200, Add	*2.63*	
		For >200 To 300, Add	*1.31*	
03 21 13 00-0046	LF	#11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	11.71	
		For Up To 100, Add	*6.01*	
		For >100 To 200, Add	*3.17*	
		For >200 To 300, Add	*1.59*	
03 21 13 00-0047	LF	#14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	16.38	
		For Up To 100, Add	*8.51*	
		For >100 To 200, Add	*4.47*	
		For >200 To 300, Add	*2.24*	
03 21 13 00-0048	LF	#18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	28.23	
		For Up To 100, Add	*14.86*	
		For >100 To 200, Add	*7.78*	
		For >200 To 300, Add	*3.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0049	LF	#6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	4.00	
		For Up To 100, Add	*3.08*	
		For >100 To 200, Add	*1.62*	
		For >200 To 500, Add	*0.65*	
03 21 13 00-0050	LF	#7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	5.24	
		For Up To 100, Add	*3.17*	
		For >100 To 200, Add	*1.81*	
		For >200 To 400, Add	*0.86*	
03 21 13 00-0051	LF	#8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	6.59	
		For Up To 100, Add	*4.05*	
		For >100 To 200, Add	*2.30*	
		For >200 To 400, Add	*1.10*	
03 21 13 00-0052	LF	#9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	8.17	
		For Up To 100, Add	*5.09*	
		For >100 To 200, Add	*2.88*	
		For >200 To 400, Add	*1.37*	
03 21 13 00-0053	LF	#10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	10.06	
		For Up To 100, Add	*5.13*	
		For >100 To 200, Add	*2.72*	
		For >200 To 300, Add	*1.36*	
03 21 13 00-0054	LF	#11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	12.09	
		For Up To 100, Add	*6.24*	
		For >100 To 200, Add	*3.29*	
		For >200 To 300, Add	*1.64*	
03 21 13 00-0055	LF	#14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	16.92	
		For Up To 100, Add	*8.83*	
		For >100 To 200, Add	*4.64*	
		For >200 To 300, Add	*2.32*	
03 21 13 00-0056	LF	#18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	29.21	
		For Up To 100, Add	*15.44*	
		For >100 To 200, Add	*8.07*	
		For >200 To 300, Add	*4.03*	

03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar *(03 21 13)*

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0058	LF	#3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	0.92	
		For Up To 100, Add	*0.69*	
		For >100 To 200, Add	*0.37*	
		For >200 To 500, Add	*0.15*	
03 21 13 00-0059	LF	#4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.59	
		For Up To 100, Add	*1.22*	
		For >100 To 200, Add	*0.64*	
		For >200 To 500, Add	*0.26*	
03 21 13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	2.41	
		For Up To 100, Add	*1.87*	
		For >100 To 200, Add	*0.98*	
		For >200 To 500, Add	*0.39*	
03 21 13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	3.36	
		For Up To 100, Add	*2.65*	
		For >100 To 200, Add	*1.38*	
		For >200 To 500, Add	*0.55*	
03 21 13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.94	
		For Up To 100, Add	*0.71*	
		For >100 To 200, Add	*0.38*	
		For >200 To 500, Add	*0.15*	
03 21 13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.62	
		For Up To 100, Add	*1.25*	
		For >100 To 200, Add	*0.66*	
		For >200 To 500, Add	*0.26*	
03 21 13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.46	
		For Up To 100, Add	*1.92*	
		For >100 To 200, Add	*1.01*	
		For >200 To 500, Add	*0.40*	
03 21 13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	3.43	
		For Up To 100, Add	*2.72*	
		For >100 To 200, Add	*1.42*	
		For >200 To 500, Add	*0.57*	
03 21 13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.97	
		For Up To 100, Add	*0.74*	
		For >100 To 200, Add	*0.39*	
		For >200 To 500, Add	*0.16*	
03 21 13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.67	
		For Up To 100, Add	*1.30*	
		For >100 To 200, Add	*0.68*	
		For >200 To 500, Add	*0.27*	
03 21 13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.53	
		For Up To 100, Add	*1.99*	
		For >100 To 200, Add	*1.04*	
		For >200 To 500, Add	*0.42*	
03 21 13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.54	
		For Up To 100, Add	*2.83*	
		For >100 To 200, Add	*1.47*	
		For >200 To 500, Add	*0.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.67	
		For Up To 100, Add	*2.91*	
		For >100 To 200, Add	*1.65*	
		For >200 To 400, Add	*0.79*	
03 21 13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	5.90	
		For Up To 100, Add	*3.74*	
		For >100 To 200, Add	*2.10*	
		For >200 To 400, Add	*1.01*	
03 21 13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	7.33	
		For Up To 100, Add	*4.69*	
		For >100 To 200, Add	*2.63*	
		For >200 To 400, Add	*1.27*	
03 21 13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	9.07	
		For Up To 100, Add	*4.74*	
		For >100 To 200, Add	*2.49*	
		For >200 To 300, Add	*1.24*	
03 21 13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	10.94	
		For Up To 100, Add	*5.78*	
		For >100 To 200, Add	*3.02*	
		For >200 To 300, Add	*1.51*	
03 21 13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	15.38	
		For Up To 100, Add	*8.21*	
		For >100 To 200, Add	*4.27*	
		For >200 To 300, Add	*2.14*	
03 21 13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	26.65	
		For Up To 100, Add	*14.38*	
		For >100 To 200, Add	*7.46*	
		For >200 To 300, Add	*3.73*	
03 21 13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.65	
		For Up To 100, Add	*2.94*	
		For >100 To 200, Add	*1.53*	
		For >200 To 500, Add	*0.61*	
03 21 13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.82	
		For Up To 100, Add	*3.03*	
		For >100 To 200, Add	*1.71*	
		For >200 To 400, Add	*0.82*	
03 21 13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	6.09	
		For Up To 100, Add	*3.88*	
		For >100 To 200, Add	*2.18*	
		For >200 To 400, Add	*1.05*	
03 21 13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	7.58	
		For Up To 100, Add	*4.88*	
		For >100 To 200, Add	*2.73*	
		For >200 To 400, Add	*1.32*	
03 21 13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	9.37	
		For Up To 100, Add	*4.92*	
		For >100 To 200, Add	*2.58*	
		For >200 To 300, Add	*1.29*	
03 21 13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	11.32	
		For Up To 100, Add	*6.01*	
		For >100 To 200, Add	*3.13*	
		For >200 To 300, Add	*1.57*	
03 21 13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	15.92	
		For Up To 100, Add	*8.53*	
		For >100 To 200, Add	*4.44*	
		For >200 To 300, Add	*2.22*	
03 21 13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	27.63	
		For Up To 100, Add	*14.97*	
		For >100 To 200, Add	*7.75*	
		For >200 To 300, Add	*3.88*	

03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar *(03 21 13)*

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.90	
		For Up To 100, Add	*0.68*	
		For >100 To 200, Add	*0.36*	
		For >200 To 500, Add	*0.14*	
03 21 13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.56	
		For Up To 100, Add	*1.21*	
		For >100 To 200, Add	*0.63*	
		For >200 To 500, Add	*0.25*	
03 21 13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	2.35	
		For Up To 100, Add	*1.85*	
		For >100 To 200, Add	*0.97*	
		For >200 To 500, Add	*0.39*	
03 21 13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	3.28	
		For Up To 100, Add	*2.61*	
		For >100 To 200, Add	*1.36*	
		For >200 To 500, Add	*0.55*	
03 21 13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.92	
		For Up To 100, Add	*0.70*	
		For >100 To 200, Add	*0.37*	
		For >200 To 500, Add	*0.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.59	
		For Up To 100, Add	*1.24*	
		For >100 To 200, Add	*0.65*	
		For >200 To 500, Add	*0.26*	
03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	2.40	
		For Up To 100, Add	*1.90*	
		For >100 To 200, Add	*0.99*	
		For >200 To 500, Add	*0.40*	
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	3.35	
		For Up To 100, Add	*2.68*	
		For >100 To 200, Add	*1.40*	
		For >200 To 500, Add	*0.56*	
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.95	
		For Up To 100, Add	*0.73*	
		For >100 To 200, Add	*0.39*	
		For >200 To 500, Add	*0.15*	
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.64	
		For Up To 100, Add	*1.29*	
		For >100 To 200, Add	*0.67*	
		For >200 To 500, Add	*0.27*	
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.47	
		For Up To 100, Add	*1.97*	
		For >100 To 200, Add	*1.03*	
		For >200 To 500, Add	*0.41*	
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.46	
		For Up To 100, Add	*2.79*	
		For >100 To 200, Add	*1.45*	
		For >200 To 500, Add	*0.58*	
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.59	
		For Up To 100, Add	*2.89*	
		For >100 To 200, Add	*1.63*	
		For >200 To 400, Add	*0.78*	
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.80	
		For Up To 100, Add	*3.70*	
		For >100 To 200, Add	*2.08*	
		For >200 To 400, Add	*1.00*	
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	7.21	
		For Up To 100, Add	*4.65*	
		For >100 To 200, Add	*2.60*	
		For >200 To 400, Add	*1.25*	
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	8.94	
		For Up To 100, Add	*4.70*	
		For >100 To 200, Add	*2.46*	
		For >200 To 300, Add	*1.23*	
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	10.79	
		For Up To 100, Add	*5.73*	
		For >100 To 200, Add	*2.99*	
		For >200 To 300, Add	*1.50*	
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	15.17	
		For Up To 100, Add	*8.15*	
		For >100 To 200, Add	*4.23*	
		For >200 To 300, Add	*2.12*	
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	26.34	
		For Up To 100, Add	*14.29*	
		For >100 To 200, Add	*7.40*	
		For >200 To 300, Add	*3.70*	
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.57	
		For Up To 100, Add	*2.90*	
		For >100 To 200, Add	*1.51*	
		For >200 To 500, Add	*0.60*	
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	4.74	
		For Up To 100, Add	*3.00*	
		For >100 To 200, Add	*1.69*	
		For >200 To 400, Add	*0.81*	
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.99	
		For Up To 100, Add	*3.84*	
		For >100 To 200, Add	*2.15*	
		For >200 To 400, Add	*1.04*	
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	7.46	
		For Up To 100, Add	*4.84*	
		For >100 To 200, Add	*2.70*	
		For >200 To 400, Add	*1.30*	
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	9.24	
		For Up To 100, Add	*4.88*	
		For >100 To 200, Add	*2.55*	
		For >200 To 300, Add	*1.28*	
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	11.17	
		For Up To 100, Add	*5.96*	
		For >100 To 200, Add	*3.10*	
		For >200 To 300, Add	*1.55*	
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	15.71	
		For Up To 100, Add	*8.47*	
		For >100 To 200, Add	*4.39*	
		For >200 To 300, Add	*2.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	27.32	
		For Up To 100, Add	*14.88*	
		For >100 To 200, Add	*7.69*	
		For >200 To 300, Add	*3.85*	

03 21 13 00-0113 Elevated Slabs, Galvanized Steel Reinforcement Bar *(03 21 13)*

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.85	
		For Up To 100, Add	*0.66*	
		For >100 To 200, Add	*0.35*	
		For >200 To 500, Add	*0.14*	
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.48	
		For Up To 100, Add	*1.17*	
		For >100 To 200, Add	*0.61*	
		For >200 To 500, Add	*0.25*	
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.25	
		For Up To 100, Add	*1.81*	
		For >100 To 200, Add	*0.94*	
		For >200 To 500, Add	*0.38*	
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.14	
		For Up To 100, Add	*2.56*	
		For >100 To 200, Add	*1.33*	
		For >200 To 500, Add	*0.53*	
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.87	
		For Up To 100, Add	*0.68*	
		For >100 To 200, Add	*0.36*	
		For >200 To 500, Add	*0.14*	
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.51	
		For Up To 100, Add	*1.20*	
		For >100 To 200, Add	*0.63*	
		For >200 To 500, Add	*0.25*	
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.30	
		For Up To 100, Add	*1.86*	
		For >100 To 200, Add	*0.97*	
		For >200 To 500, Add	*0.39*	
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.21	
		For Up To 100, Add	*2.63*	
		For >100 To 200, Add	*1.36*	
		For >200 To 500, Add	*0.55*	
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.90	
		For Up To 100, Add	*0.71*	
		For >100 To 200, Add	*0.37*	
		For >200 To 500, Add	*0.15*	
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.56	
		For Up To 100, Add	*1.25*	
		For >100 To 200, Add	*0.65*	
		For >200 To 500, Add	*0.26*	
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.37	
		For Up To 100, Add	*1.93*	
		For >100 To 200, Add	*1.00*	
		For >200 To 500, Add	*0.40*	
03 21 13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.32	
		For Up To 100, Add	*2.74*	
		For >100 To 200, Add	*1.42*	
		For >200 To 500, Add	*0.57*	
03 21 13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.41	
		For Up To 100, Add	*2.82*	
		For >100 To 200, Add	*1.58*	
		For >200 To 400, Add	*0.76*	
03 21 13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.59	
		For Up To 100, Add	*3.63*	
		For >100 To 200, Add	*2.02*	
		For >200 To 400, Add	*0.98*	
03 21 13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.98	
		For Up To 100, Add	*4.57*	
		For >100 To 200, Add	*2.54*	
		For >200 To 400, Add	*1.23*	
03 21 13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.67	
		For Up To 100, Add	*4.62*	
		For >100 To 200, Add	*2.41*	
		For >200 To 300, Add	*1.20*	
03 21 13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	10.48	
		For Up To 100, Add	*5.64*	
		For >100 To 200, Add	*2.93*	
		For >200 To 300, Add	*1.46*	
03 21 13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	14.78	
		For Up To 100, Add	*8.03*	
		For >100 To 200, Add	*4.15*	
		For >200 To 300, Add	*2.08*	
03 21 13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	25.71	
		For Up To 100, Add	*14.10*	
		For >100 To 200, Add	*7.27*	
		For >200 To 300, Add	*3.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.43	
		For Up To 100, Add	*2.85*	
		For >100 To 200, Add	*1.47*	
		For >200 To 500, Add	*0.59*	
03 21 13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.56	
		For Up To 100, Add	*2.94*	
		For >100 To 200, Add	*1.64*	
		For >200 To 400, Add	*0.79*	
03 21 13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.78	
		For Up To 100, Add	*3.77*	
		For >100 To 200, Add	*2.10*	
		For >200 To 400, Add	*1.02*	
03 21 13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	7.23	
		For Up To 100, Add	*4.76*	
		For >100 To 200, Add	*2.64*	
		For >200 To 400, Add	*1.28*	
03 21 13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.97	
		For Up To 100, Add	*4.80*	
		For >100 To 200, Add	*2.50*	
		For >200 To 300, Add	*1.25*	
03 21 13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	10.86	
		For Up To 100, Add	*5.87*	
		For >100 To 200, Add	*3.04*	
		For >200 To 300, Add	*1.52*	
03 21 13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	15.32	
		For Up To 100, Add	*8.35*	
		For >100 To 200, Add	*4.32*	
		For >200 To 300, Add	*2.16*	
03 21 13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	26.69	
		For Up To 100, Add	*14.69*	
		For >100 To 200, Add	*7.57*	
		For >200 To 300, Add	*3.78*	

03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar *(03 21 13)*

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.83	
		For Up To 100, Add	*0.66*	
		For >100 To 200, Add	*0.34*	
		For >200 To 500, Add	*0.14*	
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.44	
		For Up To 100, Add	*1.16*	
		For >100 To 200, Add	*0.60*	
		For >200 To 500, Add	*0.24*	
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	2.19	
		For Up To 100, Add	*1.78*	
		For >100 To 200, Add	*0.93*	
		For >200 To 500, Add	*0.37*	
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	3.07	
		For Up To 100, Add	*2.53*	
		For >100 To 200, Add	*1.31*	
		For >200 To 500, Add	*0.52*	
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.85	
		For Up To 100, Add	*0.68*	
		For >100 To 200, Add	*0.35*	
		For >200 To 500, Add	*0.14*	
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.47	
		For Up To 100, Add	*1.19*	
		For >100 To 200, Add	*0.62*	
		For >200 To 500, Add	*0.25*	
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	2.24	
		For Up To 100, Add	*1.83*	
		For >100 To 200, Add	*0.95*	
		For >200 To 500, Add	*0.38*	
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	3.14	
		For Up To 100, Add	*2.60*	
		For >100 To 200, Add	*1.35*	
		For >200 To 500, Add	*0.54*	
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.88	
		For Up To 100, Add	*0.71*	
		For >100 To 200, Add	*0.37*	
		For >200 To 500, Add	*0.15*	
03 21 13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.52	
		For Up To 100, Add	*1.24*	
		For >100 To 200, Add	*0.64*	
		For >200 To 500, Add	*0.26*	
03 21 13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.31	
		For Up To 100, Add	*1.90*	
		For >100 To 200, Add	*0.99*	
		For >200 To 500, Add	*0.39*	
03 21 13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.25	
		For Up To 100, Add	*2.71*	
		For >100 To 200, Add	*1.40*	
		For >200 To 500, Add	*0.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.31	
		For Up To 100, Add	*2.79*	
		For >100 To 200, Add	*1.56*	
		For >200 To 400, Add	*0.75*	
03 21 13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.50	
		For Up To 100, Add	*3.60*	
		For >100 To 200, Add	*2.00*	
		For >200 To 400, Add	*0.97*	
03 21 13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	6.87	
		For Up To 100, Add	*4.53*	
		For >100 To 200, Add	*2.52*	
		For >200 To 400, Add	*1.22*	
03 21 13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	8.53	
		For Up To 100, Add	*4.58*	
		For >100 To 200, Add	*2.38*	
		For >200 To 300, Add	*1.19*	
03 21 13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	10.33	
		For Up To 100, Add	*5.60*	
		For >100 To 200, Add	*2.90*	
		For >200 To 300, Add	*1.45*	
03 21 13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	14.58	
		For Up To 100, Add	*7.97*	
		For >100 To 200, Add	*4.11*	
		For >200 To 300, Add	*2.06*	
03 21 13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	25.40	
		For Up To 100, Add	*14.01*	
		For >100 To 200, Add	*7.21*	
		For >200 To 300, Add	*3.60*	
03 21 13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.36	
		For Up To 100, Add	*2.82*	
		For >100 To 200, Add	*1.46*	
		For >200 To 500, Add	*0.58*	
03 21 13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.46	
		For Up To 100, Add	*2.90*	
		For >100 To 200, Add	*1.62*	
		For >200 To 400, Add	*0.78*	
03 21 13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.69	
		For Up To 100, Add	*3.74*	
		For >100 To 200, Add	*2.08*	
		For >200 To 400, Add	*1.01*	
03 21 13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	7.12	
		For Up To 100, Add	*4.72*	
		For >100 To 200, Add	*2.62*	
		For >200 To 400, Add	*1.27*	
03 21 13 00-0165	LF	#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	8.83	
		For Up To 100, Add	*4.76*	
		For >100 To 200, Add	*2.47*	
		For >200 To 300, Add	*1.24*	
03 21 13 00-0166	LF	#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	10.71	
		For Up To 100, Add	*5.82*	
		For >100 To 200, Add	*3.01*	
		For >200 To 300, Add	*1.51*	
03 21 13 00-0167	LF	#14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	15.12	
		For Up To 100, Add	*8.29*	
		For >100 To 200, Add	*4.28*	
		For >200 To 300, Add	*2.14*	
03 21 13 00-0168	LF	#18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	26.38	
		For Up To 100, Add	*14.60*	
		For >100 To 200, Add	*7.50*	
		For >200 To 300, Add	*3.75*	

03 21 16 Epoxy-Coated Reinforcement Steel Bars *(03 21)*

03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar *(03 21 16)*

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002	LF	#3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.97	
		For Up To 100, Add	*0.70*	
		For >100 To 200, Add	*0.37*	
		For >200 To 500, Add	*0.15*	
03 21 16 00-0003	LF	#4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.66	
		For Up To 100, Add	*1.22*	
		For >100 To 200, Add	*0.65*	
		For >200 To 500, Add	*0.26*	
03 21 16 00-0004	LF	#5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.50	
		For Up To 100, Add	*1.87*	
		For >100 To 200, Add	*0.99*	
		For >200 To 500, Add	*0.40*	
03 21 16 00-0005	LF	#6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.49	
		For Up To 100, Add	*2.65*	
		For >100 To 200, Add	*1.40*	
		For >200 To 500, Add	*0.56*	
03 21 16 00-0006	LF	#3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.99	
		For Up To 100, Add	*0.72*	
		For >100 To 200, Add	*0.38*	
		For >200 To 500, Add	*0.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0007	LF	#4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.69	
		For Up To 100, Add	*1.25*	
		For >100 To 200, Add	*0.66*	
		For >200 To 500, Add	*0.27*	
03 21 16 00-0008	LF	#5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.55	
		For Up To 100, Add	*1.92*	
		For >100 To 200, Add	*1.01*	
		For >200 To 500, Add	*0.41*	
03 21 16 00-0009	LF	#6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.56	
		For Up To 100, Add	*2.72*	
		For >100 To 200, Add	*1.43*	
		For >200 To 500, Add	*0.57*	
03 21 16 00-0010	LF	#3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.02	
		For Up To 100, Add	*0.75*	
		For >100 To 200, Add	*0.40*	
		For >200 To 500, Add	*0.16*	
03 21 16 00-0011	LF	#4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.74	
		For Up To 100, Add	*1.30*	
		For >100 To 200, Add	*0.69*	
		For >200 To 500, Add	*0.28*	
03 21 16 00-0012	LF	#5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.63	
		For Up To 100, Add	*2.00*	
		For >100 To 200, Add	*1.05*	
		For >200 To 500, Add	*0.42*	
03 21 16 00-0013	LF	#6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.67	
		For Up To 100, Add	*2.83*	
		For >100 To 200, Add	*1.49*	
		For >200 To 500, Add	*0.59*	
03 21 16 00-0014	LF	#7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.81	
		For Up To 100, Add	*2.92*	
		For >100 To 200, Add	*1.67*	
		For >200 To 400, Add	*0.79*	
03 21 16 00-0015	LF	#8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.06	
		For Up To 100, Add	*3.74*	
		For >100 To 200, Add	*2.12*	
		For >200 To 400, Add	*1.01*	
03 21 16 00-0016	LF	#9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.51	
		For Up To 100, Add	*4.68*	
		For >100 To 200, Add	*2.65*	
		For >200 To 400, Add	*1.27*	
03 21 16 00-0017	LF	#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	9.26	
		For Up To 100, Add	*4.73*	
		For >100 To 200, Add	*2.50*	
		For >200 To 300, Add	*1.25*	
03 21 16 00-0018	LF	#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	11.13	
		For Up To 100, Add	*5.75*	
		For >100 To 200, Add	*3.03*	
		For >200 To 300, Add	*1.52*	
03 21 16 00-0019	LF	#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	15.57	
		For Up To 100, Add	*8.14*	
		For >100 To 200, Add	*4.27*	
		For >200 To 300, Add	*2.14*	
03 21 16 00-0020	LF	#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	26.89	
		For Up To 100, Add	*14.24*	
		For >100 To 200, Add	*7.44*	
		For >200 To 300, Add	*3.72*	
03 21 16 00-0021	LF	#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.78	
		For Up To 100, Add	*2.94*	
		For >100 To 200, Add	*1.54*	
		For >200 To 500, Add	*0.62*	
03 21 16 00-0022	LF	#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.96	
		For Up To 100, Add	*3.03*	
		For >100 To 200, Add	*1.73*	
		For >200 To 400, Add	*0.82*	
03 21 16 00-0023	LF	#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.25	
		For Up To 100, Add	*3.88*	
		For >100 To 200, Add	*2.20*	
		For >200 To 400, Add	*1.05*	
03 21 16 00-0024	LF	#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.76	
		For Up To 100, Add	*4.87*	
		For >100 To 200, Add	*2.75*	
		For >200 To 400, Add	*1.32*	
03 21 16 00-0025	LF	#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	9.57	
		For Up To 100, Add	*4.92*	
		For >100 To 200, Add	*2.60*	
		For >200 To 300, Add	*1.30*	
03 21 16 00-0026	LF	#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	11.51	
		For Up To 100, Add	*5.98*	
		For >100 To 200, Add	*3.14*	
		For >200 To 300, Add	*1.57*	
03 21 16 00-0027	LF	#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	16.12	
		For Up To 100, Add	*8.47*	
		For >100 To 200, Add	*4.44*	
		For >200 To 300, Add	*2.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0028	LF	#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	27.86	
		For Up To 100, Add	*14.82*	
		For >100 To 200, Add	*7.73*	
		For >200 To 300, Add	*3.86*	

03 21 16 00-0029 Columns, Epoxy Coated Steel Reinforcement Bar *(03 21 16)*

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0030	LF	#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.01	
		For Up To 100, Add	*0.72*	
		For >100 To 200, Add	*0.38*	
		For >200 To 500, Add	*0.15*	
03 21 16 00-0031	LF	#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.74	
		For Up To 100, Add	*1.25*	
		For >100 To 200, Add	*0.67*	
		For >200 To 500, Add	*0.27*	
03 21 16 00-0032	LF	#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.61	
		For Up To 100, Add	*1.91*	
		For >100 To 200, Add	*1.02*	
		For >200 To 500, Add	*0.41*	
03 21 16 00-0033	LF	#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	3.63	
		For Up To 100, Add	*2.71*	
		For >100 To 200, Add	*1.43*	
		For >200 To 500, Add	*0.57*	
03 21 16 00-0034	LF	#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.03	
		For Up To 100, Add	*0.74*	
		For >100 To 200, Add	*0.39*	
		For >200 To 500, Add	*0.16*	
03 21 16 00-0035	LF	#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.77	
		For Up To 100, Add	*1.28*	
		For >100 To 200, Add	*0.68*	
		For >200 To 500, Add	*0.27*	
03 21 16 00-0036	LF	#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.66	
		For Up To 100, Add	*1.96*	
		For >100 To 200, Add	*1.04*	
		For >200 To 500, Add	*0.42*	
03 21 16 00-0037	LF	#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	3.70	
		For Up To 100, Add	*2.78*	
		For >100 To 200, Add	*1.47*	
		For >200 To 500, Add	*0.59*	
03 21 16 00-0038	LF	#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.06	
		For Up To 100, Add	*0.77*	
		For >100 To 200, Add	*0.41*	
		For >200 To 500, Add	*0.16*	
03 21 16 00-0039	LF	#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.82	
		For Up To 100, Add	*1.33*	
		For >100 To 200, Add	*0.71*	
		For >200 To 500, Add	*0.28*	
03 21 16 00-0040	LF	#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.74	
		For Up To 100, Add	*2.04*	
		For >100 To 200, Add	*1.08*	
		For >200 To 500, Add	*0.43*	
03 21 16 00-0041	LF	#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.81	
		For Up To 100, Add	*2.89*	
		For >100 To 200, Add	*1.52*	
		For >200 To 500, Add	*0.61*	
03 21 16 00-0042	LF	#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	4.98	
		For Up To 100, Add	*2.98*	
		For >100 To 200, Add	*1.71*	
		For >200 To 400, Add	*0.81*	
03 21 16 00-0043	LF	#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	6.26	
		For Up To 100, Add	*3.81*	
		For >100 To 200, Add	*2.17*	
		For >200 To 400, Add	*1.03*	
03 21 16 00-0044	LF	#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	7.74	
		For Up To 100, Add	*4.77*	
		For >100 To 200, Add	*2.71*	
		For >200 To 400, Add	*1.29*	
03 21 16 00-0045	LF	#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	9.53	
		For Up To 100, Add	*4.81*	
		For >100 To 200, Add	*2.56*	
		For >200 To 300, Add	*1.28*	
03 21 16 00-0046	LF	#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	11.43	
		For Up To 100, Add	*5.84*	
		For >100 To 200, Add	*3.09*	
		For >200 To 300, Add	*1.55*	
03 21 16 00-0047	LF	#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	15.97	
		For Up To 100, Add	*8.26*	
		For >100 To 200, Add	*4.35*	
		For >200 To 300, Add	*2.18*	
03 21 16 00-0048	LF	#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	27.51	
		For Up To 100, Add	*14.42*	
		For >100 To 200, Add	*7.56*	
		For >200 To 300, Add	*3.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0049	LF	#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.92	
		For Up To 100, Add	*3.00*	
		For >100 To 200, Add	*1.58*	
		For >200 To 500, Add	*0.63*	
03 21 16 00-0050	LF	#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	5.13	
		For Up To 100, Add	*3.09*	
		For >100 To 200, Add	*1.77*	
		For >200 To 400, Add	*0.84*	
03 21 16 00-0051	LF	#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	6.45	
		For Up To 100, Add	*3.95*	
		For >100 To 200, Add	*2.25*	
		For >200 To 400, Add	*1.07*	
03 21 16 00-0052	LF	#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	7.99	
		For Up To 100, Add	*4.95*	
		For >100 To 200, Add	*2.81*	
		For >200 To 400, Add	*1.34*	
03 21 16 00-0053	LF	#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	9.84	
		For Up To 100, Add	*5.00*	
		For >100 To 200, Add	*2.65*	
		For >200 To 300, Add	*1.33*	
03 21 16 00-0054	LF	#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	11.81	
		For Up To 100, Add	*6.07*	
		For >100 To 200, Add	*3.20*	
		For >200 To 300, Add	*1.60*	
03 21 16 00-0055	LF	#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	16.52	
		For Up To 100, Add	*8.59*	
		For >100 To 200, Add	*4.52*	
		For >200 To 300, Add	*2.26*	
03 21 16 00-0056	LF	#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	28.48	
		For Up To 100, Add	*15.01*	
		For >100 To 200, Add	*7.85*	
		For >200 To 300, Add	*3.93*	

03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar *(03 21 16)*

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.90	
		For Up To 100, Add	*0.67*	
		For >100 To 200, Add	*0.36*	
		For >200 To 500, Add	*0.14*	
03 21 16 00-0059	LF	#4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.55	
		For Up To 100, Add	*1.18*	
		For >100 To 200, Add	*0.62*	
		For >200 To 500, Add	*0.25*	
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	2.35	
		For Up To 100, Add	*1.81*	
		For >100 To 200, Add	*0.95*	
		For >200 To 500, Add	*0.38*	
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	3.28	
		For Up To 100, Add	*2.57*	
		For >100 To 200, Add	*1.34*	
		For >200 To 500, Add	*0.54*	
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	0.92	
		For Up To 100, Add	*0.69*	
		For >100 To 200, Add	*0.37*	
		For >200 To 500, Add	*0.15*	
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.58	
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	2.40	
		For Up To 100, Add	*1.86*	
		For >100 To 200, Add	*0.98*	
		For >200 To 500, Add	*0.39*	
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	3.35	
		For Up To 100, Add	*2.64*	
		For >100 To 200, Add	*1.38*	
		For >200 To 500, Add	*0.55*	
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	0.95	
		For Up To 100, Add	*0.72*	
		For >100 To 200, Add	*0.38*	
		For >200 To 500, Add	*0.15*	
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.63	
		For Up To 100, Add	*1.26*	
		For >100 To 200, Add	*0.66*	
		For >200 To 500, Add	*0.26*	
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	2.48	
		For Up To 100, Add	*1.94*	
		For >100 To 200, Add	*1.02*	
		For >200 To 500, Add	*0.41*	
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	3.46	
		For Up To 100, Add	*2.75*	
		For >100 To 200, Add	*1.43*	
		For >200 To 500, Add	*0.57*	
03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	4.56	
		For Up To 100, Add	*2.83*	
		For >100 To 200, Add	*1.60*	
		For >200 To 400, Add	*0.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	5.76	
		For Up To 100, Add	*3.63*	
		For >100 To 200, Add	*2.05*	
		For >200 To 400, Add	*0.98*	
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	7.15	
		For Up To 100, Add	*4.56*	
		For >100 To 200, Add	*2.56*	
		For >200 To 400, Add	*1.23*	
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	8.84	
		For Up To 100, Add	*4.61*	
		For >100 To 200, Add	*2.42*	
		For >200 To 300, Add	*1.21*	
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	10.66	
		For Up To 100, Add	*5.61*	
		For >100 To 200, Add	*2.94*	
		For >200 To 300, Add	*1.47*	
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	14.97	
		For Up To 100, Add	*7.96*	
		For >100 To 200, Add	*4.15*	
		For >200 To 300, Add	*2.08*	
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	25.93	
		For Up To 100, Add	*13.95*	
		For >100 To 200, Add	*7.24*	
		For >200 To 300, Add	*3.62*	
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	3.57	
		For Up To 100, Add	*2.86*	
		For >100 To 200, Add	*1.49*	
		For >200 To 500, Add	*0.60*	
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	4.71	
		For Up To 100, Add	*2.94*	
		For >100 To 200, Add	*1.66*	
		For >200 To 400, Add	*0.80*	
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	5.95	
		For Up To 100, Add	*3.77*	
		For >100 To 200, Add	*2.12*	
		For >200 To 400, Add	*1.02*	
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	7.40	
		For Up To 100, Add	*4.75*	
		For >100 To 200, Add	*2.66*	
		For >200 To 400, Add	*1.28*	
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	9.15	
		For Up To 100, Add	*4.79*	
		For >100 To 200, Add	*2.51*	
		For >200 To 300, Add	*1.26*	
03 21 16 00-0082	LF	#11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	11.04	
		For Up To 100, Add	*5.84*	
		For >100 To 200, Add	*3.05*	
		For >200 To 300, Add	*1.53*	
03 21 16 00-0083	LF	#14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	15.52	
		For Up To 100, Add	*8.29*	
		For >100 To 200, Add	*4.32*	
		For >200 To 300, Add	*2.16*	
03 21 16 00-0084	LF	#18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	26.90	
		For Up To 100, Add	*14.53*	
		For >100 To 200, Add	*7.53*	
		For >200 To 300, Add	*3.77*	

03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar *(03 21 16)*

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0086	LF	#3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.88	
		For Up To 100, Add	*0.66*	
		For >100 To 200, Add	*0.35*	
		For >200 To 500, Add	*0.14*	
03 21 16 00-0087	LF	#4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.52	
		For Up To 100, Add	*1.17*	
		For >100 To 200, Add	*0.61*	
		For >200 To 500, Add	*0.25*	
03 21 16 00-0088	LF	#5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.29	
		For Up To 100, Add	*1.79*	
		For >100 To 200, Add	*0.94*	
		For >200 To 500, Add	*0.37*	
03 21 16 00-0089	LF	#6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.20	
		For Up To 100, Add	*2.53*	
		For >100 To 200, Add	*1.32*	
		For >200 To 500, Add	*0.53*	
03 21 16 00-0090	LF	#3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.90	
		For Up To 100, Add	*0.68*	
		For >100 To 200, Add	*0.36*	
		For >200 To 500, Add	*0.14*	
03 21 16 00-0091	LF	#4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.55	
		For Up To 100, Add	*1.20*	
		For >100 To 200, Add	*0.63*	
		For >200 To 500, Add	*0.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0092	LF	#5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.34	
		For Up To 100, Add	*1.84*	
		For >100 To 200, Add	*0.96*	
		For >200 To 500, Add	*0.38*	
03 21 16 00-0093	LF	#6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.27	
		For Up To 100, Add	*2.60*	
		For >100 To 200, Add	*1.36*	
		For >200 To 500, Add	*0.54*	
03 21 16 00-0094	LF	#3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.93	
		For Up To 100, Add	*0.71*	
		For >100 To 200, Add	*0.38*	
		For >200 To 500, Add	*0.15*	
03 21 16 00-0095	LF	#4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.60	
		For Up To 100, Add	*1.25*	
		For >100 To 200, Add	*0.65*	
		For >200 To 500, Add	*0.26*	
03 21 16 00-0096	LF	#5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.42	
		For Up To 100, Add	*1.92*	
		For >100 To 200, Add	*1.00*	
		For >200 To 500, Add	*0.40*	
03 21 16 00-0097	LF	#6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.38	
		For Up To 100, Add	*2.71*	
		For >100 To 200, Add	*1.41*	
		For >200 To 500, Add	*0.57*	
03 21 16 00-0098	LF	#7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.48	
		For Up To 100, Add	*2.80*	
		For >100 To 200, Add	*1.58*	
		For >200 To 400, Add	*0.76*	
03 21 16 00-0099	LF	#8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.66	
		For Up To 100, Add	*3.60*	
		For >100 To 200, Add	*2.02*	
		For >200 To 400, Add	*0.97*	
03 21 16 00-0100	LF	#9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	7.03	
		For Up To 100, Add	*4.52*	
		For >100 To 200, Add	*2.53*	
		For >200 To 400, Add	*1.22*	
03 21 16 00-0101	LF	#10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	8.71	
		For Up To 100, Add	*4.57*	
		For >100 To 200, Add	*2.39*	
		For >200 To 300, Add	*1.20*	
03 21 16 00-0102	LF	#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	10.51	
		For Up To 100, Add	*5.57*	
		For >100 To 200, Add	*2.91*	
		For >200 To 300, Add	*1.45*	
03 21 16 00-0103	LF	#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	14.76	
		For Up To 100, Add	*7.90*	
		For >100 To 200, Add	*4.11*	
		For >200 To 300, Add	*2.05*	
03 21 16 00-0104	LF	#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	25.62	
		For Up To 100, Add	*13.86*	
		For >100 To 200, Add	*7.18*	
		For >200 To 300, Add	*3.59*	
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.49	
		For Up To 100, Add	*2.82*	
		For >100 To 200, Add	*1.47*	
		For >200 To 500, Add	*0.59*	
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.63	
		For Up To 100, Add	*2.92*	
		For >100 To 200, Add	*1.64*	
		For >200 To 400, Add	*0.79*	
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.85	
		For Up To 100, Add	*3.74*	
		For >100 To 200, Add	*2.10*	
		For >200 To 400, Add	*1.01*	
03 21 16 00-0108	LF	#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	7.28	
		For Up To 100, Add	*4.70*	
		For >100 To 200, Add	*2.63*	
		For >200 To 400, Add	*1.27*	
03 21 16 00-0109	LF	#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	9.02	
		For Up To 100, Add	*4.75*	
		For >100 To 200, Add	*2.49*	
		For >200 To 300, Add	*1.24*	
03 21 16 00-0110	LF	#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	10.89	
		For Up To 100, Add	*5.79*	
		For >100 To 200, Add	*3.02*	
		For >200 To 300, Add	*1.51*	
03 21 16 00-0111	LF	#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	15.31	
		For Up To 100, Add	*8.23*	
		For >100 To 200, Add	*4.27*	
		For >200 To 300, Add	*2.14*	
03 21 16 00-0112	LF	#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	26.59	
		For Up To 100, Add	*14.44*	
		For >100 To 200, Add	*7.47*	
		For >200 To 300, Add	*3.74*	

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0113		Elevated Slabs, Epoxy Coated Steel Reinforcement Bar *(03 21 16)*			
		Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0114	LF	#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		0.83	
		For Up To 100, Add		*0.64*	
		For >100 To 200, Add		*0.34*	
		For >200 To 500, Add		*0.14*	
03 21 16 00-0115	LF	#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		1.44	
		For Up To 100, Add		*1.13*	
		For >100 To 200, Add		*0.59*	
		For >200 To 500, Add		*0.24*	
03 21 16 00-0116	LF	#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		2.19	
		For Up To 100, Add		*1.75*	
		For >100 To 200, Add		*0.91*	
		For >200 To 500, Add		*0.36*	
03 21 16 00-0117	LF	#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		3.06	
		For Up To 100, Add		*2.48*	
		For >100 To 200, Add		*1.29*	
		For >200 To 500, Add		*0.52*	
03 21 16 00-0118	LF	#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		0.85	
		For Up To 100, Add		*0.66*	
		For >100 To 200, Add		*0.35*	
		For >200 To 500, Add		*0.14*	
03 21 16 00-0119	LF	#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		1.47	
		For Up To 100, Add		*1.16*	
		For >100 To 200, Add		*0.61*	
		For >200 To 500, Add		*0.24*	
03 21 16 00-0120	LF	#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		2.24	
		For Up To 100, Add		*1.80*	
		For >100 To 200, Add		*0.94*	
		For >200 To 500, Add		*0.37*	
03 21 16 00-0121	LF	#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		3.13	
		For Up To 100, Add		*2.55*	
		For >100 To 200, Add		*1.32*	
		For >200 To 500, Add		*0.53*	
03 21 16 00-0122	LF	#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		0.88	
		For Up To 100, Add		*0.69*	
		For >100 To 200, Add		*0.36*	
		For >200 To 500, Add		*0.15*	
03 21 16 00-0123	LF	#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		1.52	
		For Up To 100, Add		*1.21*	
		For >100 To 200, Add		*0.63*	
		For >200 To 500, Add		*0.25*	
03 21 16 00-0124	LF	#5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		2.32	
		For Up To 100, Add		*1.88*	
		For >100 To 200, Add		*0.98*	
		For >200 To 500, Add		*0.39*	
03 21 16 00-0125	LF	#6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		3.24	
		For Up To 100, Add		*2.66*	
		For >100 To 200, Add		*1.38*	
		For >200 To 500, Add		*0.55*	
03 21 16 00-0126	LF	#7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		4.30	
		For Up To 100, Add		*2.74*	
		For >100 To 200, Add		*1.54*	
		For >200 To 400, Add		*0.74*	
03 21 16 00-0127	LF	#8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		5.45	
		For Up To 100, Add		*3.52*	
		For >100 To 200, Add		*1.97*	
		For >200 To 400, Add		*0.95*	
03 21 16 00-0128	LF	#9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		6.80	
		For Up To 100, Add		*4.44*	
		For >100 To 200, Add		*2.47*	
		For >200 To 400, Add		*1.19*	
03 21 16 00-0129	LF	#10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		8.44	
		For Up To 100, Add		*4.49*	
		For >100 To 200, Add		*2.34*	
		For >200 To 300, Add		*1.17*	
03 21 16 00-0130	LF	#11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		10.20	
		For Up To 100, Add		*5.47*	
		For >100 To 200, Add		*2.84*	
		For >200 To 300, Add		*1.42*	
03 21 16 00-0131	LF	#14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		14.37	
		For Up To 100, Add		*7.78*	
		For >100 To 200, Add		*4.03*	
		For >200 To 300, Add		*2.02*	
03 21 16 00-0132	LF	#18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		24.99	
		For Up To 100, Add		*13.67*	
		For >100 To 200, Add		*7.06*	
		For >200 To 300, Add		*3.53*	
03 21 16 00-0133	LF	#6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		3.35	
		For Up To 100, Add		*2.77*	
		For >100 To 200, Add		*1.43*	
		For >200 To 500, Add		*0.57*	
03 21 16 00-0134	LF	#7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar		4.45	
		For Up To 100, Add		*2.85*	
		For >100 To 200, Add		*1.60*	
		For >200 To 400, Add		*0.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0135	LF	#8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	5.64	
		For Up To 100, Add	*3.67*	
		For >100 To 200, Add	*2.04*	
		For >200 To 400, Add	*0.99*	
03 21 16 00-0136	LF	#9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	7.05	
		For Up To 100, Add	*4.62*	
		For >100 To 200, Add	*2.57*	
		For >200 To 400, Add	*1.24*	
03 21 16 00-0137	LF	#10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	8.75	
		For Up To 100, Add	*4.67*	
		For >100 To 200, Add	*2.43*	
		For >200 To 300, Add	*1.22*	
03 21 16 00-0138	LF	#11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	10.58	
		For Up To 100, Add	*5.70*	
		For >100 To 200, Add	*2.96*	
		For >200 To 300, Add	*1.48*	
03 21 16 00-0139	LF	#14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	14.92	
		For Up To 100, Add	*8.11*	
		For >100 To 200, Add	*4.20*	
		For >200 To 300, Add	*2.10*	
03 21 16 00-0140	LF	#18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	25.96	
		For Up To 100, Add	*14.25*	
		For >100 To 200, Add	*7.35*	
		For >200 To 300, Add	*3.67*	

03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar *(03 21 16)*

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0142	LF	#3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	0.81	
		For Up To 100, Add	*0.64*	
		For >100 To 200, Add	*0.33*	
		For >200 To 500, Add	*0.13*	
03 21 16 00-0143	LF	#4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	1.40	
		For Up To 100, Add	*1.12*	
		For >100 To 200, Add	*0.58*	
		For >200 To 500, Add	*0.23*	
03 21 16 00-0144	LF	#5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	2.13	
		For Up To 100, Add	*1.72*	
		For >100 To 200, Add	*0.90*	
		For >200 To 500, Add	*0.36*	
03 21 16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	2.99	
		For Up To 100, Add	*2.45*	
		For >100 To 200, Add	*1.27*	
		For >200 To 500, Add	*0.51*	
03 21 16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	0.83	
		For Up To 100, Add	*0.66*	
		For >100 To 200, Add	*0.34*	
		For >200 To 500, Add	*0.14*	
03 21 16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	1.43	
		For Up To 100, Add	*1.15*	
		For >100 To 200, Add	*0.60*	
		For >200 To 500, Add	*0.24*	
03 21 16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	2.18	
		For Up To 100, Add	*1.77*	
		For >100 To 200, Add	*0.92*	
		For >200 To 500, Add	*0.37*	
03 21 16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	3.06	
		For Up To 100, Add	*2.52*	
		For >100 To 200, Add	*1.31*	
		For >200 To 500, Add	*0.52*	
03 21 16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	0.86	
		For Up To 100, Add	*0.69*	
		For >100 To 200, Add	*0.36*	
		For >200 To 500, Add	*0.14*	
03 21 16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	1.48	
		For Up To 100, Add	*1.20*	
		For >100 To 200, Add	*0.62*	
		For >200 To 500, Add	*0.25*	
03 21 16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	2.26	
		For Up To 100, Add	*1.85*	
		For >100 To 200, Add	*0.96*	
		For >200 To 500, Add	*0.38*	
03 21 16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	3.17	
		For Up To 100, Add	*2.63*	
		For >100 To 200, Add	*1.36*	
		For >200 To 500, Add	*0.54*	
03 21 16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	4.20	
		For Up To 100, Add	*2.71*	
		For >100 To 200, Add	*1.51*	
		For >200 To 400, Add	*0.73*	
03 21 16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	5.36	
		For Up To 100, Add	*3.49*	
		For >100 To 200, Add	*1.95*	
		For >200 To 400, Add	*0.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	6.69	
		For Up To 100, Add	*4.40*	
		For >100 To 200, Add	*2.44*	
		For >200 To 400, Add	*1.18*	
03 21 16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	8.30	
		For Up To 100, Add	*4.44*	
		For >100 To 200, Add	*2.31*	
		For >200 To 300, Add	*1.16*	
03 21 16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	10.05	
		For Up To 100, Add	*5.43*	
		For >100 To 200, Add	*2.81*	
		For >200 To 300, Add	*1.41*	
03 21 16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	14.17	
		For Up To 100, Add	*7.72*	
		For >100 To 200, Add	*3.99*	
		For >200 To 300, Add	*2.00*	
03 21 16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	24.68	
		For Up To 100, Add	*13.58*	
		For >100 To 200, Add	*6.99*	
		For >200 To 300, Add	*3.50*	
03 21 16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	3.28	
		For Up To 100, Add	*2.74*	
		For >100 To 200, Add	*1.42*	
		For >200 To 500, Add	*0.57*	
03 21 16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	4.35	
		For Up To 100, Add	*2.82*	
		For >100 To 200, Add	*1.57*	
		For >200 To 400, Add	*0.76*	
03 21 16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	5.55	
		For Up To 100, Add	*3.63*	
		For >100 To 200, Add	*2.02*	
		For >200 To 400, Add	*0.98*	
03 21 16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	6.94	
		For Up To 100, Add	*4.59*	
		For >100 To 200, Add	*2.54*	
		For >200 To 400, Add	*1.23*	
03 21 16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	8.61	
		For Up To 100, Add	*4.63*	
		For >100 To 200, Add	*2.40*	
		For >200 To 300, Add	*1.20*	
03 21 16 00-0166	LF	#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	10.43	
		For Up To 100, Add	*5.66*	
		For >100 To 200, Add	*2.93*	
		For >200 To 300, Add	*1.46*	
03 21 16 00-0167	LF	#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	14.72	
		For Up To 100, Add	*8.05*	
		For >100 To 200, Add	*4.16*	
		For >200 To 300, Add	*2.08*	
03 21 16 00-0168	LF	#18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	25.65	
		For Up To 100, Add	*14.16*	
		For >100 To 200, Add	*7.28*	
		For >200 To 300, Add	*3.64*	

03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels *(03 21 16)*

Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete, 05 05 19 00-0181 for chemical adhesive.

03 21 16 00-0170	EA	3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	6.02	
		For Up To 12" Length, Deduct	*-0.64*	
		For >12" To <24" Length, Deduct	*-0.32*	
03 21 16 00-0171	EA	1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	7.15	
		For Up To 12" Length, Deduct	*-0.97*	
		For >12" To <24" Length, Deduct	*-0.49*	
03 21 16 00-0172	EA	5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	8.91	
		For Up To 12" Length, Deduct	*-1.45*	
		For >12" To <24" Length, Deduct	*-0.72*	
03 21 16 00-0173	EA	3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	11.09	
		For Up To 12" Length, Deduct	*-1.92*	
		For >12" To <24" Length, Deduct	*-0.96*	
03 21 16 00-0174	EA	7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	13.41	
		For Up To 12" Length, Deduct	*-2.62*	
		For >12" To <24" Length, Deduct	*-1.31*	
03 21 16 00-0175	EA	1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	15.63	
		For Up To 12" Length, Deduct	*-3.22*	
		For >12" To <24" Length, Deduct	*-1.61*	
03 21 16 00-0176	EA	1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	18.48	
		For Up To 12" Length, Deduct	*-3.90*	
		For >12" To <24" Length, Deduct	*-1.95*	
03 21 16 00-0177	EA	1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	22.25	
		For Up To 12" Length, Deduct	*-4.73*	
		For >12" To <24" Length, Deduct	*-2.36*	

03 21 16 00-0178 Epoxy Coated Deformed Straight Dowel Assemblies *(03 21 16)*

Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0179	EA	3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar	59.94	
03 21 16 00-0180	EA	1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar	67.57	
03 21 16 00-0181	EA	5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar	75.64	
03 21 16 00-0182	EA	3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar	88.27	
03 21 16 00-0183	EA	7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar	96.08	
03 21 16 00-0184	EA	1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar	115.04	

03 21 19 Stainless Steel Reinforcement Bars *(03 21)*

03 21 19 00-0001 Beams And Girders, Stainless Steel Reinforcement Bar *(03 21 19)*

Note: ASTM A-955.

03 21 19 00-0002	LF	#3, Grade 40, Beams And Girders, Stainless Steel Reinforcement Bar	1.90	
		For Up To 100, Add	*1.63*	
		For >100 To 200, Add	*0.84*	
		For >200 To 500, Add	*0.34*	
03 21 19 00-0003	LF	#4, Grade 40, Beams And Girders, Stainless Steel Reinforcement Bar	3.35	
		For Up To 100, Add	*2.91*	
		For >100 To 200, Add	*1.49*	
		For >200 To 500, Add	*0.60*	
03 21 19 00-0004	LF	#5, Grade 40, Beams And Girders, Stainless Steel Reinforcement Bar	5.10	
		For Up To 100, Add	*4.47*	
		For >100 To 200, Add	*2.29*	
		For >200 To 500, Add	*0.92*	
03 21 19 00-0005	LF	#6, Grade 40, Beams And Girders, Stainless Steel Reinforcement Bar	7.18	
		For Up To 100, Add	*6.34*	
		For >100 To 200, Add	*3.24*	
		For >200 To 500, Add	*1.30*	
03 21 19 00-0006	LF	#3, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	2.08	
		For Up To 100, Add	*1.81*	
		For >100 To 200, Add	*0.93*	
		For >200 To 500, Add	*0.37*	
03 21 19 00-0007	LF	#4, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	3.70	
		For Up To 100, Add	*3.26*	
		For >100 To 200, Add	*1.67*	
		For >200 To 500, Add	*0.67*	
03 21 19 00-0008	LF	#5, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	5.63	
		For Up To 100, Add	*5.00*	
		For >100 To 200, Add	*2.55*	
		For >200 To 500, Add	*1.02*	
03 21 19 00-0009	LF	#6, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	7.94	
		For Up To 100, Add	*7.10*	
		For >100 To 200, Add	*3.62*	
		For >200 To 500, Add	*1.45*	
03 21 19 00-0010	LF	#7, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	10.63	
		For Up To 100, Add	*7.28*	
		For >100 To 200, Add	*3.99*	
		For >200 To 400, Add	*1.95*	
03 21 19 00-0011	LF	#8, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	13.75	
		For Up To 100, Add	*9.50*	
		For >100 To 200, Add	*5.20*	
		For >200 To 400, Add	*2.55*	
03 21 19 00-0012	LF	#9, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	17.25	
		For Up To 100, Add	*11.99*	
		For >100 To 200, Add	*6.54*	
		For >200 To 400, Add	*3.21*	
03 21 19 00-0013	LF	#10, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	21.60	
		For Up To 100, Add	*12.14*	
		For >100 To 200, Add	*6.21*	
		For >200 To 300, Add	*3.10*	
03 21 19 00-0014	LF	#11, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	26.24	
		For Up To 100, Add	*14.82*	
		For >100 To 200, Add	*7.56*	
		For >200 To 300, Add	*3.78*	
03 21 19 00-0015	LF	#14, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	37.39	
		For Up To 100, Add	*21.23*	
		For >100 To 200, Add	*10.82*	
		For >200 To 300, Add	*5.41*	
03 21 19 00-0016	LF	#18, Grade 60, Beams And Girders, Stainless Steel Reinforcement Bar	65.66	
		For Up To 100, Add	*37.50*	
		For >100 To 200, Add	*19.07*	
		For >200 To 300, Add	*9.53*	
03 21 19 00-0017	LF	#6, Grade 75, Beams And Girders, Stainless Steel Reinforcement Bar	8.31	
		For Up To 100, Add	*7.47*	
		For >100 To 200, Add	*3.81*	
		For >200 To 500, Add	*1.52*	
03 21 19 00-0018	LF	#7, Grade 75, Beams And Girders, Stainless Steel Reinforcement Bar	11.14	
		For Up To 100, Add	*7.67*	
		For >100 To 200, Add	*4.20*	
		For >200 To 400, Add	*2.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 19 00-0019	LF	#8, Grade 75, Beams And Girders, Stainless Steel Reinforcement Bar	14.43	
		For Up To 100, Add	*10.01*	
		For >100 To 200, Add	*5.47*	
		For >200 To 400, Add	*2.68*	
03 21 19 00-0020	LF	#9, Grade 75, Beams And Girders, Stainless Steel Reinforcement Bar	18.11	
		For Up To 100, Add	*12.63*	
		For >100 To 200, Add	*6.89*	
		For >200 To 400, Add	*3.39*	
03 21 19 00-0021	LF	#10, Grade 75, Beams And Girders, Stainless Steel Reinforcement Bar	22.69	
		For Up To 100, Add	*12.79*	
		For >100 To 200, Add	*6.53*	
		For >200 To 300, Add	*3.27*	
03 21 19 00-0022	LF	#11, Grade 75, Beams And Girders, Stainless Steel Reinforcement Bar	27.57	
		For Up To 100, Add	*15.62*	
		For >100 To 200, Add	*7.96*	
		For >200 To 300, Add	*3.98*	
03 21 19 00-0023	LF	#14, Grade 75, Beams And Girders, Stainless Steel Reinforcement Bar	39.31	
		For Up To 100, Add	*22.39*	
		For >100 To 200, Add	*11.39*	
		For >200 To 300, Add	*5.70*	
03 21 19 00-0024	LF	#18, Grade 75, Beams And Girders, Stainless Steel Reinforcement Bar	69.08	
		For Up To 100, Add	*39.55*	
		For >100 To 200, Add	*20.09*	
		For >200 To 300, Add	*10.05*	

03 21 19 00-0025 Columns, Stainless Steel Reinforcement Bar *(03 21 19)*

Note: ASTM A-955.

03 21 19 00-0026	LF	#3, Grade 40, Columns, Stainless Steel Reinforcement Bar	1.94	
		For Up To 100, Add	*1.65*	
		For >100 To 200, Add	*0.85*	
		For >200 To 500, Add	*0.34*	
03 21 19 00-0027	LF	#4, Grade 40, Columns, Stainless Steel Reinforcement Bar	3.43	
		For Up To 100, Add	*2.94*	
		For >100 To 200, Add	*1.51*	
		For >200 To 500, Add	*0.61*	
03 21 19 00-0028	LF	#5, Grade 40, Columns, Stainless Steel Reinforcement Bar	5.21	
		For Up To 100, Add	*4.51*	
		For >100 To 200, Add	*2.32*	
		For >200 To 500, Add	*0.93*	
03 21 19 00-0029	LF	#6, Grade 40, Columns, Stainless Steel Reinforcement Bar	7.32	
		For Up To 100, Add	*6.40*	
		For >100 To 200, Add	*3.28*	
		For >200 To 500, Add	*1.31*	
03 21 19 00-0030	LF	#3, Grade 60, Columns, Stainless Steel Reinforcement Bar	2.12	
		For Up To 100, Add	*1.83*	
		For >100 To 200, Add	*0.94*	
		For >200 To 500, Add	*0.38*	
03 21 19 00-0031	LF	#4, Grade 60, Columns, Stainless Steel Reinforcement Bar	3.78	
		For Up To 100, Add	*3.29*	
		For >100 To 200, Add	*1.69*	
		For >200 To 500, Add	*0.68*	
03 21 19 00-0032	LF	#5, Grade 60, Columns, Stainless Steel Reinforcement Bar	5.74	
		For Up To 100, Add	*5.04*	
		For >100 To 200, Add	*2.58*	
		For >200 To 500, Add	*1.03*	
03 21 19 00-0033	LF	#6, Grade 60, Columns, Stainless Steel Reinforcement Bar	8.08	
		For Up To 100, Add	*7.16*	
		For >100 To 200, Add	*3.66*	
		For >200 To 500, Add	*1.46*	
03 21 19 00-0034	LF	#7, Grade 60, Columns, Stainless Steel Reinforcement Bar	10.80	
		For Up To 100, Add	*7.34*	
		For >100 To 200, Add	*4.04*	
		For >200 To 400, Add	*1.97*	
03 21 19 00-0035	LF	#8, Grade 60, Columns, Stainless Steel Reinforcement Bar	13.95	
		For Up To 100, Add	*9.57*	
		For >100 To 200, Add	*5.25*	
		For >200 To 400, Add	*2.57*	
03 21 19 00-0036	LF	#9, Grade 60, Columns, Stainless Steel Reinforcement Bar	17.48	
		For Up To 100, Add	*12.07*	
		For >100 To 200, Add	*6.60*	
		For >200 To 400, Add	*3.24*	
03 21 19 00-0037	LF	#10, Grade 60, Columns, Stainless Steel Reinforcement Bar	21.87	
		For Up To 100, Add	*12.22*	
		For >100 To 200, Add	*6.26*	
		For >200 To 300, Add	*3.13*	
03 21 19 00-0038	LF	#11, Grade 60, Columns, Stainless Steel Reinforcement Bar	26.54	
		For Up To 100, Add	*14.91*	
		For >100 To 200, Add	*7.62*	
		For >200 To 300, Add	*3.81*	
03 21 19 00-0039	LF	#14, Grade 60, Columns, Stainless Steel Reinforcement Bar	37.79	
		For Up To 100, Add	*21.35*	
		For >100 To 200, Add	*10.90*	
		For >200 To 300, Add	*5.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 19 00-0040	LF	#18, Grade 60, Columns, Stainless Steel Reinforcement Bar	66.28	
		For Up To 100, Add	*37.69*	
		For >100 To 200, Add	*19.19*	
		For >200 To 300, Add	*9.60*	
03 21 19 00-0041	LF	#6, Grade 75, Columns, Stainless Steel Reinforcement Bar	8.45	
		For Up To 100, Add	*7.53*	
		For >100 To 200, Add	*3.84*	
		For >200 To 500, Add	*1.54*	
03 21 19 00-0042	LF	#7, Grade 75, Columns, Stainless Steel Reinforcement Bar	11.31	
		For Up To 100, Add	*7.73*	
		For >100 To 200, Add	*4.24*	
		For >200 To 400, Add	*2.07*	
03 21 19 00-0043	LF	#8, Grade 75, Columns, Stainless Steel Reinforcement Bar	14.63	
		For Up To 100, Add	*10.08*	
		For >100 To 200, Add	*5.52*	
		For >200 To 400, Add	*2.70*	
03 21 19 00-0044	LF	#9, Grade 75, Columns, Stainless Steel Reinforcement Bar	18.34	
		For Up To 100, Add	*12.72*	
		For >100 To 200, Add	*6.95*	
		For >200 To 400, Add	*3.41*	
03 21 19 00-0045	LF	#10, Grade 75, Columns, Stainless Steel Reinforcement Bar	22.96	
		For Up To 100, Add	*12.87*	
		For >100 To 200, Add	*6.59*	
		For >200 To 300, Add	*3.29*	
03 21 19 00-0046	LF	#11, Grade 75, Columns, Stainless Steel Reinforcement Bar	27.87	
		For Up To 100, Add	*15.71*	
		For >100 To 200, Add	*8.02*	
		For >200 To 300, Add	*4.01*	
03 21 19 00-0047	LF	#14, Grade 75, Columns, Stainless Steel Reinforcement Bar	39.71	
		For Up To 100, Add	*22.51*	
		For >100 To 200, Add	*11.47*	
		For >200 To 300, Add	*5.74*	
03 21 19 00-0048	LF	#18, Grade 75, Columns, Stainless Steel Reinforcement Bar	69.70	
		For Up To 100, Add	*39.74*	
		For >100 To 200, Add	*20.22*	
		For >200 To 300, Add	*10.11*	

03 21 19 00-0049 Footings, Stainless Steel Reinforcement Bar *(03 21 19)*

Note: ASTM A-955.

03 21 19 00-0050	LF	#3, Grade 40, Footings, Stainless Steel Reinforcement Bar	1.83	
		For Up To 100, Add	*1.60*	
		For >100 To 200, Add	*0.82*	
		For >200 To 500, Add	*0.33*	
03 21 19 00-0051	LF	#4, Grade 40, Footings, Stainless Steel Reinforcement Bar	3.24	
		For Up To 100, Add	*2.87*	
		For >100 To 200, Add	*1.47*	
		For >200 To 500, Add	*0.59*	
03 21 19 00-0052	LF	#5, Grade 40, Footings, Stainless Steel Reinforcement Bar	4.95	
		For Up To 100, Add	*4.41*	
		For >100 To 200, Add	*2.25*	
		For >200 To 500, Add	*0.90*	
03 21 19 00-0053	LF	#6, Grade 40, Footings, Stainless Steel Reinforcement Bar	6.97	
		For Up To 100, Add	*6.26*	
		For >100 To 200, Add	*3.19*	
		For >200 To 500, Add	*1.28*	
03 21 19 00-0054	LF	#3, Grade 60, Footings, Stainless Steel Reinforcement Bar	2.01	
		For Up To 100, Add	*1.78*	
		For >100 To 200, Add	*0.91*	
		For >200 To 500, Add	*0.36*	
03 21 19 00-0055	LF	#4, Grade 60, Footings, Stainless Steel Reinforcement Bar	3.59	
		For Up To 100, Add	*3.22*	
		For >100 To 200, Add	*1.64*	
		For >200 To 500, Add	*0.66*	
03 21 19 00-0056	LF	#5, Grade 60, Footings, Stainless Steel Reinforcement Bar	5.48	
		For Up To 100, Add	*4.94*	
		For >100 To 200, Add	*2.52*	
		For >200 To 500, Add	*1.01*	
03 21 19 00-0057	LF	#6, Grade 60, Footings, Stainless Steel Reinforcement Bar	7.73	
		For Up To 100, Add	*7.02*	
		For >100 To 200, Add	*3.57*	
		For >200 To 500, Add	*1.43*	
03 21 19 00-0058	LF	#7, Grade 60, Footings, Stainless Steel Reinforcement Bar	10.38	
		For Up To 100, Add	*7.20*	
		For >100 To 200, Add	*3.93*	
		For >200 To 400, Add	*1.93*	
03 21 19 00-0059	LF	#8, Grade 60, Footings, Stainless Steel Reinforcement Bar	13.45	
		For Up To 100, Add	*9.40*	
		For >100 To 200, Add	*5.12*	
		For >200 To 400, Add	*2.52*	
03 21 19 00-0060	LF	#9, Grade 60, Footings, Stainless Steel Reinforcement Bar	16.89	
		For Up To 100, Add	*11.86*	
		For >100 To 200, Add	*6.45*	
		For >200 To 400, Add	*3.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 19 00-0061	LF	#10, Grade 60, Footings, Stainless Steel Reinforcement Bar	21.18	
		For Up To 100, Add	*12.01*	
		For >100 To 200, Add	*6.12*	
		For >200 To 300, Add	*3.06*	
03 21 19 00-0062	LF	#11, Grade 60, Footings, Stainless Steel Reinforcement Bar	25.77	
		For Up To 100, Add	*14.68*	
		For >100 To 200, Add	*7.47*	
		For >200 To 300, Add	*3.73*	
03 21 19 00-0063	LF	#14, Grade 60, Footings, Stainless Steel Reinforcement Bar	36.79	
		For Up To 100, Add	*21.05*	
		For >100 To 200, Add	*10.70*	
		For >200 To 300, Add	*5.35*	
03 21 19 00-0064	LF	#18, Grade 60, Footings, Stainless Steel Reinforcement Bar	64.70	
		For Up To 100, Add	*37.21*	
		For >100 To 200, Add	*18.87*	
		For >200 To 300, Add	*9.44*	
03 21 19 00-0065	LF	#6, Grade 75, Footings, Stainless Steel Reinforcement Bar	8.10	
		For Up To 100, Add	*7.39*	
		For >100 To 200, Add	*3.75*	
		For >200 To 500, Add	*1.50*	
03 21 19 00-0066	LF	#7, Grade 75, Footings, Stainless Steel Reinforcement Bar	10.89	
		For Up To 100, Add	*7.58*	
		For >100 To 200, Add	*4.14*	
		For >200 To 400, Add	*2.03*	
03 21 19 00-0067	LF	#8, Grade 75, Footings, Stainless Steel Reinforcement Bar	14.13	
		For Up To 100, Add	*9.91*	
		For >100 To 200, Add	*5.39*	
		For >200 To 400, Add	*2.65*	
03 21 19 00-0068	LF	#9, Grade 75, Footings, Stainless Steel Reinforcement Bar	17.75	
		For Up To 100, Add	*12.51*	
		For >100 To 200, Add	*6.80*	
		For >200 To 400, Add	*3.35*	
03 21 19 00-0069	LF	#10, Grade 75, Footings, Stainless Steel Reinforcement Bar	22.27	
		For Up To 100, Add	*12.66*	
		For >100 To 200, Add	*6.45*	
		For >200 To 300, Add	*3.22*	
03 21 19 00-0070	LF	#11, Grade 75, Footings, Stainless Steel Reinforcement Bar	27.10	
		For Up To 100, Add	*15.47*	
		For >100 To 200, Add	*7.87*	
		For >200 To 300, Add	*3.93*	
03 21 19 00-0071	LF	#14, Grade 75, Footings, Stainless Steel Reinforcement Bar	38.71	
		For Up To 100, Add	*22.21*	
		For >100 To 200, Add	*11.27*	
		For >200 To 300, Add	*5.64*	
03 21 19 00-0072	LF	#18, Grade 75, Footings, Stainless Steel Reinforcement Bar	68.12	
		For Up To 100, Add	*39.26*	
		For >100 To 200, Add	*19.90*	
		For >200 To 300, Add	*9.95*	

03 21 19 00-0073 Slab On Grade, Stainless Steel Reinforcement Bar *(03 21 19)*

Note: ASTM A-955.

03 21 19 00-0074	LF	#3, Grade 40, Slab On Grade, Stainless Steel Reinforcement Bar	1.81	
		For Up To 100, Add	*1.59*	
		For >100 To 200, Add	*0.82*	
		For >200 To 500, Add	*0.33*	
03 21 19 00-0075	LF	#4, Grade 40, Slab On Grade, Stainless Steel Reinforcement Bar	3.21	
		For Up To 100, Add	*2.86*	
		For >100 To 200, Add	*1.46*	
		For >200 To 500, Add	*0.58*	
03 21 19 00-0076	LF	#5, Grade 40, Slab On Grade, Stainless Steel Reinforcement Bar	4.89	
		For Up To 100, Add	*4.39*	
		For >100 To 200, Add	*2.24*	
		For >200 To 500, Add	*0.89*	
03 21 19 00-0077	LF	#6, Grade 40, Slab On Grade, Stainless Steel Reinforcement Bar	6.89	
		For Up To 100, Add	*6.22*	
		For >100 To 200, Add	*3.17*	
		For >200 To 500, Add	*1.27*	
03 21 19 00-0078	LF	#3, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	1.99	
		For Up To 100, Add	*1.77*	
		For >100 To 200, Add	*0.91*	
		For >200 To 500, Add	*0.36*	
03 21 19 00-0079	LF	#4, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	3.56	
		For Up To 100, Add	*3.21*	
		For >100 To 200, Add	*1.63*	
		For >200 To 500, Add	*0.65*	
03 21 19 00-0080	LF	#5, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	5.42	
		For Up To 100, Add	*4.92*	
		For >100 To 200, Add	*2.50*	
		For >200 To 500, Add	*1.00*	
03 21 19 00-0081	LF	#6, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	7.65	
		For Up To 100, Add	*6.98*	
		For >100 To 200, Add	*3.55*	
		For >200 To 500, Add	*1.42*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 19 00-0082	LF	#7, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	10.30	
		For Up To 100, Add	*7.17*	
		For >100 To 200, Add	*3.91*	
		For >200 To 400, Add	*1.92*	
03 21 19 00-0083	LF	#8, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	13.35	
		For Up To 100, Add	*9.36*	
		For >100 To 200, Add	*5.10*	
		For >200 To 400, Add	*2.51*	
03 21 19 00-0084	LF	#9, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	16.77	
		For Up To 100, Add	*11.82*	
		For >100 To 200, Add	*6.42*	
		For >200 To 400, Add	*3.17*	
03 21 19 00-0085	LF	#10, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	21.05	
		For Up To 100, Add	*11.97*	
		For >100 To 200, Add	*6.10*	
		For >200 To 300, Add	*3.05*	
03 21 19 00-0086	LF	#11, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	25.62	
		For Up To 100, Add	*14.63*	
		For >100 To 200, Add	*7.44*	
		For >200 To 300, Add	*3.72*	
03 21 19 00-0087	LF	#14, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	36.58	
		For Up To 100, Add	*20.99*	
		For >100 To 200, Add	*10.66*	
		For >200 To 300, Add	*5.33*	
03 21 19 00-0088	LF	#18, Grade 60, Slab On Grade, Stainless Steel Reinforcement Bar	64.39	
		For Up To 100, Add	*37.12*	
		For >100 To 200, Add	*18.81*	
		For >200 To 300, Add	*9.41*	
03 21 19 00-0089	LF	#6, Grade 75, Slab On Grade, Stainless Steel Reinforcement Bar	8.02	
		For Up To 100, Add	*7.35*	
		For >100 To 200, Add	*3.73*	
		For >200 To 500, Add	*1.49*	
03 21 19 00-0090	LF	#7, Grade 75, Slab On Grade, Stainless Steel Reinforcement Bar	10.81	
		For Up To 100, Add	*7.55*	
		For >100 To 200, Add	*4.12*	
		For >200 To 400, Add	*2.02*	
03 21 19 00-0091	LF	#8, Grade 75, Slab On Grade, Stainless Steel Reinforcement Bar	14.03	
		For Up To 100, Add	*9.87*	
		For >100 To 200, Add	*5.37*	
		For >200 To 400, Add	*2.64*	
03 21 19 00-0092	LF	#9, Grade 75, Slab On Grade, Stainless Steel Reinforcement Bar	17.63	
		For Up To 100, Add	*12.47*	
		For >100 To 200, Add	*6.77*	
		For >200 To 400, Add	*3.34*	
03 21 19 00-0093	LF	#10, Grade 75, Slab On Grade, Stainless Steel Reinforcement Bar	22.14	
		For Up To 100, Add	*12.62*	
		For >100 To 200, Add	*6.42*	
		For >200 To 300, Add	*3.21*	
03 21 19 00-0094	LF	#11, Grade 75, Slab On Grade, Stainless Steel Reinforcement Bar	26.95	
		For Up To 100, Add	*15.43*	
		For >100 To 200, Add	*7.84*	
		For >200 To 300, Add	*3.92*	
03 21 19 00-0095	LF	#14, Grade 75, Slab On Grade, Stainless Steel Reinforcement Bar	38.50	
		For Up To 100, Add	*22.14*	
		For >100 To 200, Add	*11.23*	
		For >200 To 300, Add	*5.62*	
03 21 19 00-0096	LF	#18, Grade 75, Slab On Grade, Stainless Steel Reinforcement Bar	67.81	
		For Up To 100, Add	*39.17*	
		For >100 To 200, Add	*19.84*	
		For >200 To 300, Add	*9.92*	

03 21 19 00-0097 Elevated Slabs, Stainless Steel Reinforcement Bar *(03 21 19)*

Note: ASTM A-955.

03 21 19 00-0098	LF	#3, Grade 40, Elevated Slabs, Stainless Steel Reinforcement Bar	1.76	
		For Up To 100, Add	*1.57*	
		For >100 To 200, Add	*0.80*	
		For >200 To 500, Add	*0.32*	
03 21 19 00-0099	LF	#4, Grade 40, Elevated Slabs, Stainless Steel Reinforcement Bar	3.13	
		For Up To 100, Add	*2.82*	
		For >100 To 200, Add	*1.44*	
		For >200 To 500, Add	*0.58*	
03 21 19 00-0100	LF	#5, Grade 40, Elevated Slabs, Stainless Steel Reinforcement Bar	4.79	
		For Up To 100, Add	*4.35*	
		For >100 To 200, Add	*2.21*	
		For >200 To 500, Add	*0.88*	
03 21 19 00-0101	LF	#6, Grade 40, Elevated Slabs, Stainless Steel Reinforcement Bar	6.75	
		For Up To 100, Add	*6.17*	
		For >100 To 200, Add	*3.13*	
		For >200 To 500, Add	*1.25*	
03 21 19 00-0102	LF	#3, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	1.94	
		For Up To 100, Add	*1.75*	
		For >100 To 200, Add	*0.89*	
		For >200 To 500, Add	*0.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 19 00-0103	LF	#4, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	3.48	
		For Up To 100, Add	*3.17*	
		For >100 To 200, Add	*1.61*	
		For >200 To 500, Add	*0.65*	
03 21 19 00-0104	LF	#5, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	5.32	
		For Up To 100, Add	*4.88*	
		For >100 To 200, Add	*2.48*	
		For >200 To 500, Add	*0.99*	
03 21 19 00-0105	LF	#6, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	7.51	
		For Up To 100, Add	*6.93*	
		For >100 To 200, Add	*3.51*	
		For >200 To 500, Add	*1.41*	
03 21 19 00-0106	LF	#7, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	10.12	
		For Up To 100, Add	*7.11*	
		For >100 To 200, Add	*3.87*	
		For >200 To 400, Add	*1.90*	
03 21 19 00-0107	LF	#8, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	13.14	
		For Up To 100, Add	*9.29*	
		For >100 To 200, Add	*5.04*	
		For >200 To 400, Add	*2.49*	
03 21 19 00-0108	LF	#9, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	16.54	
		For Up To 100, Add	*11.74*	
		For >100 To 200, Add	*6.37*	
		For >200 To 400, Add	*3.14*	
03 21 19 00-0109	LF	#10, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	20.78	
		For Up To 100, Add	*11.89*	
		For >100 To 200, Add	*6.04*	
		For >200 To 300, Add	*3.02*	
03 21 19 00-0110	LF	#11, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	25.31	
		For Up To 100, Add	*14.54*	
		For >100 To 200, Add	*7.38*	
		For >200 To 300, Add	*3.69*	
03 21 19 00-0111	LF	#14, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	36.19	
		For Up To 100, Add	*20.87*	
		For >100 To 200, Add	*10.58*	
		For >200 To 300, Add	*5.29*	
03 21 19 00-0112	LF	#18, Grade 60, Elevated Slabs, Stainless Steel Reinforcement Bar	63.76	
		For Up To 100, Add	*36.93*	
		For >100 To 200, Add	*18.69*	
		For >200 To 300, Add	*9.34*	
03 21 19 00-0113	LF	#6, Grade 75, Elevated Slabs, Stainless Steel Reinforcement Bar	7.88	
		For Up To 100, Add	*7.30*	
		For >100 To 200, Add	*3.70*	
		For >200 To 500, Add	*1.48*	
03 21 19 00-0114	LF	#7, Grade 75, Elevated Slabs, Stainless Steel Reinforcement Bar	10.63	
		For Up To 100, Add	*7.49*	
		For >100 To 200, Add	*4.07*	
		For >200 To 400, Add	*2.01*	
03 21 19 00-0115	LF	#8, Grade 75, Elevated Slabs, Stainless Steel Reinforcement Bar	13.82	
		For Up To 100, Add	*9.80*	
		For >100 To 200, Add	*5.32*	
		For >200 To 400, Add	*2.62*	
03 21 19 00-0116	LF	#9, Grade 75, Elevated Slabs, Stainless Steel Reinforcement Bar	17.40	
		For Up To 100, Add	*12.39*	
		For >100 To 200, Add	*6.71*	
		For >200 To 400, Add	*3.31*	
03 21 19 00-0117	LF	#10, Grade 75, Elevated Slabs, Stainless Steel Reinforcement Bar	21.87	
		For Up To 100, Add	*12.54*	
		For >100 To 200, Add	*6.37*	
		For >200 To 300, Add	*3.18*	
03 21 19 00-0118	LF	#11, Grade 75, Elevated Slabs, Stainless Steel Reinforcement Bar	26.64	
		For Up To 100, Add	*15.34*	
		For >100 To 200, Add	*7.78*	
		For >200 To 300, Add	*3.89*	
03 21 19 00-0119	LF	#14, Grade 75, Elevated Slabs, Stainless Steel Reinforcement Bar	38.11	
		For Up To 100, Add	*22.03*	
		For >100 To 200, Add	*11.15*	
		For >200 To 300, Add	*5.58*	
03 21 19 00-0120	LF	#18, Grade 75, Elevated Slabs, Stainless Steel Reinforcement Bar	67.18	
		For Up To 100, Add	*38.98*	
		For >100 To 200, Add	*19.71*	
		For >200 To 300, Add	*9.86*	

03 21 19 00-0121 Walls, Stainless Steel Reinforcement Bar *(03 21 19)*

Note: ASTM A-955.

03 21 19 00-0122	LF	#3, Grade 40, Walls, Stainless Steel Reinforcement Bar	1.74	
		For Up To 100, Add	*1.57*	
		For >100 To 200, Add	*0.80*	
		For >200 To 500, Add	*0.32*	
03 21 19 00-0123	LF	#4, Grade 40, Walls, Stainless Steel Reinforcement Bar	3.09	
		For Up To 100, Add	*2.81*	
		For >100 To 200, Add	*1.43*	
		For >200 To 500, Add	*0.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 19 00-0124	LF	#5, Grade 40, Walls, Stainless Steel Reinforcement Bar	4.73	
		For Up To 100, Add	*4.32*	
		For >100 To 200, Add	*2.20*	
		For >200 To 500, Add	*0.88*	
03 21 19 00-0125	LF	#6, Grade 40, Walls, Stainless Steel Reinforcement Bar	6.68	
		For Up To 100, Add	*6.14*	
		For >100 To 200, Add	*3.12*	
		For >200 To 500, Add	*1.25*	
03 21 19 00-0126	LF	#3, Grade 60, Walls, Stainless Steel Reinforcement Bar	1.92	
		For Up To 100, Add	*1.75*	
		For >100 To 200, Add	*0.89*	
		For >200 To 500, Add	*0.36*	
03 21 19 00-0127	LF	#4, Grade 60, Walls, Stainless Steel Reinforcement Bar	3.44	
		For Up To 100, Add	*3.16*	
		For >100 To 200, Add	*1.60*	
		For >200 To 500, Add	*0.64*	
03 21 19 00-0128	LF	#5, Grade 60, Walls, Stainless Steel Reinforcement Bar	5.26	
		For Up To 100, Add	*4.85*	
		For >100 To 200, Add	*2.46*	
		For >200 To 500, Add	*0.98*	
03 21 19 00-0129	LF	#6, Grade 60, Walls, Stainless Steel Reinforcement Bar	7.44	
		For Up To 100, Add	*6.90*	
		For >100 To 200, Add	*3.50*	
		For >200 To 500, Add	*1.40*	
03 21 19 00-0130	LF	#7, Grade 60, Walls, Stainless Steel Reinforcement Bar	10.02	
		For Up To 100, Add	*7.07*	
		For >100 To 200, Add	*3.84*	
		For >200 To 400, Add	*1.89*	
03 21 19 00-0131	LF	#8, Grade 60, Walls, Stainless Steel Reinforcement Bar	13.05	
		For Up To 100, Add	*9.26*	
		For >100 To 200, Add	*5.02*	
		For >200 To 400, Add	*2.48*	
03 21 19 00-0132	LF	#9, Grade 60, Walls, Stainless Steel Reinforcement Bar	16.43	
		For Up To 100, Add	*11.70*	
		For >100 To 200, Add	*6.34*	
		For >200 To 400, Add	*3.13*	
03 21 19 00-0133	LF	#10, Grade 60, Walls, Stainless Steel Reinforcement Bar	20.64	
		For Up To 100, Add	*11.85*	
		For >100 To 200, Add	*6.01*	
		For >200 To 300, Add	*3.01*	
03 21 19 00-0134	LF	#11, Grade 60, Walls, Stainless Steel Reinforcement Bar	25.16	
		For Up To 100, Add	*14.49*	
		For >100 To 200, Add	*7.35*	
		For >200 To 300, Add	*3.67*	
03 21 19 00-0135	LF	#14, Grade 60, Walls, Stainless Steel Reinforcement Bar	35.99	
		For Up To 100, Add	*20.81*	
		For >100 To 200, Add	*10.54*	
		For >200 To 300, Add	*5.27*	
03 21 19 00-0136	LF	#18, Grade 60, Walls, Stainless Steel Reinforcement Bar	63.45	
		For Up To 100, Add	*36.84*	
		For >100 To 200, Add	*18.62*	
		For >200 To 300, Add	*9.31*	
03 21 19 00-0137	LF	#6, Grade 75, Walls, Stainless Steel Reinforcement Bar	7.81	
		For Up To 100, Add	*7.27*	
		For >100 To 200, Add	*3.68*	
		For >200 To 500, Add	*1.47*	
03 21 19 00-0138	LF	#7, Grade 75, Walls, Stainless Steel Reinforcement Bar	10.53	
		For Up To 100, Add	*7.45*	
		For >100 To 200, Add	*4.05*	
		For >200 To 400, Add	*2.00*	
03 21 19 00-0139	LF	#8, Grade 75, Walls, Stainless Steel Reinforcement Bar	13.73	
		For Up To 100, Add	*9.77*	
		For >100 To 200, Add	*5.29*	
		For >200 To 400, Add	*2.61*	
03 21 19 00-0140	LF	#9, Grade 75, Walls, Stainless Steel Reinforcement Bar	17.29	
		For Up To 100, Add	*12.35*	
		For >100 To 200, Add	*6.68*	
		For >200 To 400, Add	*3.30*	
03 21 19 00-0141	LF	#10, Grade 75, Walls, Stainless Steel Reinforcement Bar	21.73	
		For Up To 100, Add	*12.50*	
		For >100 To 200, Add	*6.34*	
		For >200 To 300, Add	*3.17*	
03 21 19 00-0142	LF	#11, Grade 75, Walls, Stainless Steel Reinforcement Bar	26.49	
		For Up To 100, Add	*15.29*	
		For >100 To 200, Add	*7.75*	
		For >200 To 300, Add	*3.87*	
03 21 19 00-0143	LF	#14, Grade 75, Walls, Stainless Steel Reinforcement Bar	37.91	
		For Up To 100, Add	*21.97*	
		For >100 To 200, Add	*11.11*	
		For >200 To 300, Add	*5.56*	
03 21 19 00-0144	LF	#18, Grade 75, Walls, Stainless Steel Reinforcement Bar	66.87	
		For Up To 100, Add	*38.89*	
		For >100 To 200, Add	*19.65*	
		For >200 To 300, Add	*9.83*	

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MINOR
CSI UOM DESCRIPTION — TOTAL DIRECT UNIT COST — DEMOLITION UNIT COST

03 22 Fabric and Grid Reinforcing *(03 20)*

03 22 11 Plain Steel Welded Wire Fabric Reinforcing *(03 22)*

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

03 22 11 00-0001 Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs *(03 22 11)*

Note: Includes bar chairs. Under 5 tons. ASTM A-185

03 22 11 00-0002	SF	6" x 6" x #10, (W1.4 x W1.4), 21 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	0.91	
		For >5 Ton, Deduct	*-0.14*	
03 22 11 00-0003	SF	6" x 6" x #8, (W2.1 x W2.1), 30 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.05	
		For >5 Ton, Deduct	*-0.16*	
03 22 11 00-0004	SF	6" x 6" x #6, (W2.9 x W2.9), 42 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.19	
		For >5 Ton, Deduct	*-0.18*	
03 22 11 00-0005	SF	6" x 6" x #4, (W4.0 x W4.0), 58 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.40	
		For >5 Ton, Deduct	*-0.20*	
03 22 11 00-0006	SF	4" x 4" x #10, (W1.4 x W1.4), 31 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.10	
		For >5 Ton, Deduct	*-0.16*	
03 22 11 00-0007	SF	4" x 4" x #8, (W2.1 x W2.1), 44 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.23	
		For >5 Ton, Deduct	*-0.18*	
03 22 11 00-0008	SF	4" x 4" x #6, (W2.9 x W2.9), 62 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.54	
		For >5 Ton, Deduct	*-0.21*	
03 22 11 00-0009	SF	4" x 4" x #4, (W4.0 x W4.0), 85 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.79	
		For >5 Ton, Deduct	*-0.24*	
03 22 11 00-0010	SF	2" x 2" x #12, (W0.9 x W0.9), 37 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.68	
		For >5 Ton, Deduct	*-0.22*	
03 22 11 00-0011	SF	2" x 2" x #10, (W1.4 x W1.4), 60 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	2.31	
		For >5 Ton, Deduct	*-0.29*	
		For Galvanized, Add	*0.58*	
		For Epoxy Coated, Add	*1.15*	
03 22 11 00-0012	SF	2" x 2" x #8, (W2.1 x W2.1), 88 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	3.10	
		For >5 Ton, Deduct	*-0.38*	

03 22 13 Galvanized Welded Wire Fabric Reinforcing *(03 22)*

03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs *(03 22 13)*

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002	SF	6" x 6" x #10, (W1.4 x W1.4), 21 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.01	
		For >5 Ton, Deduct	*-0.15*	
03 22 13 00-0003	SF	6" x 6" x #8, (W2.1 x W2.1), 29 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.17	
		For >5 Ton, Deduct	*-0.17*	
03 22 13 00-0004	SF	6" x 6" x #6, (W2.9 x W2.9), 42 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.34	
		For >5 Ton, Deduct	*-0.19*	
03 22 13 00-0005	SF	6" x 6" x #4, (W4.0 x W4.0), 58 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.62	
		For >5 Ton, Deduct	*-0.22*	
03 22 13 00-0006	SF	4" x 4" x #10, (W1.4 x W1.4), 31 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.23	
		For >5 Ton, Deduct	*-0.18*	
03 22 13 00-0007	SF	4" x 4" x #8, (W2.1 x W2.1), 43 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.40	
		For >5 Ton, Deduct	*-0.20*	
03 22 13 00-0008	SF	4" x 4" x #6, (W2.9 x W2.9), 62 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.82	
		For >5 Ton, Deduct	*-0.24*	
03 22 13 00-0009	SF	4" x 4" x #4, (W4.0 x W4.0), 85 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	2.14	
		For >5 Ton, Deduct	*-0.28*	

03 22 13 00-0010 Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns *(03 22 13)*

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0011	SF	2" x 2" x #14, (W0.5 x W0.5), 21 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns	3.57	
		For >5 Ton, Deduct	*-0.56*	

03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing *(03 22)*

03 22 16 00-0001 Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs *(03 22 16)*

Note: Includes bar chairs. Under 5 tons.

03 22 16 00-0002	SF	6" x 6" x #10, (W1.4 x W1.4), 21 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.00	
		For >5 Ton, Deduct	*-0.15*	
03 22 16 00-0003	SF	6" x 6" x #8, (W2.1 x W2.1), 29 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.15	
		For >5 Ton, Deduct	*-0.17*	
03 22 16 00-0004	SF	6" x 6" x #6, (W2.9 x W2.9), 42 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.32	
		For >5 Ton, Deduct	*-0.19*	
03 22 16 00-0005	SF	6" x 6" x #4, (W4.0 x W4.0), 58 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.59	
		For >5 Ton, Deduct	*-0.22*	
03 22 16 00-0006	SF	4" x 4" x #10, (W1.4 x W1.4), 31 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.22	
		For >5 Ton, Deduct	*-0.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 16 00-0007	SF	4" x 4" x #8, (W2.1 x W2.1), 43 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.38	
		For >5 Ton, Deduct	*-0.19*	
03 22 16 00-0008	SF	4" x 4" x #6, (W2.9 x W2.9), 62 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.78	
		For >5 Ton, Deduct	*-0.24*	
03 22 16 00-0009	SF	4" x 4" x #4, (W4.0 x W4.0), 85 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	2.10	
		For >5 Ton, Deduct	*-0.27*	

03 22 23 Stainless Steel Welded Wire Fabric Reinforcing *(03 22)*

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

03 22 23 00-0001 Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs *(03 22 23)*

03 22 23 00-0002	SF	6" x 6" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.66
03 22 23 00-0003	SF	4" x 4" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	2.13

03 30 Cast-In-Place Concrete *(03)*

See CSI section 01 74 19 00-0043 for hauling over 15 miles.

03 30 53 Miscellaneous Cast-in-Place Concrete *(03 30)*

03 30 53 00-0001 Place Concrete Duct Bank *(03 30 53)*

03 30 53 00-0002	CY	Direct Chute, Place 3,000 PSI Concrete Duct Bank	210.75
		For 2,000 PSI Concrete, Deduct	*-9.32*
		For 2,500 PSI Concrete, Deduct	*-4.66*
		For 3,500 PSI Concrete, Add	*8.63*
		For 3,750 PSI Concrete, Add	*11.74*
		For 4,000 PSI Concrete, Add	*14.84*
		For 4,500 PSI Concrete, Add	*17.26*
		For 5,000 PSI Concrete, Add	*19.68*
		For 6,000 PSI Concrete, Add	*46.60*
		For 7,500 PSI Concrete, Add	*115.73*
		For White Cement Concrete, Add	*20.71*
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*
		For Lightweight Aggregate, ASTM C330, Add	*60.41*
		For Up To 20, Add	*15.26*
		For >20 To 50, Add	*5.72*
		For >100 To 200, Deduct	*-4.22*
		For >200 To 400, Deduct	*-8.43*
		For >400, Deduct	*-12.65*

03 30 53 00-0003 Place Concrete Thrust Blocks And Backfill *(03 30 53)*

03 30 53 00-0004	CY	Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	258.75
		For 2,000 PSI Concrete, Deduct	*-9.32*
		For 2,500 PSI Concrete, Deduct	*-4.66*
		For 3,500 PSI Concrete, Add	*8.63*
		For 3,750 PSI Concrete, Add	*11.74*
		For 4,000 PSI Concrete, Add	*14.84*
		For 4,500 PSI Concrete, Add	*17.26*
		For 5,000 PSI Concrete, Add	*19.68*
		For 6,000 PSI Concrete, Add	*46.60*
		For 7,500 PSI Concrete, Add	*115.74*
		For White Cement Concrete, Add	*20.71*
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*
		For Lightweight Aggregate, ASTM C330, Add	*60.41*

03 30 53 00-0005 Place Concrete Slurry *(03 30 53)*

03 30 53 00-0006	CY	Direct Chute, Place Two Sack Cement, Concrete Slurry Note: Two 94# sack cement per CY.	196.64
03 30 53 00-0007	CY	Concrete Pump, Place Two Sack Cement, Concrete Slurry Note: Two 94# sack cement per CY. Excludes pumping equipment.	189.04

03 30 53 00-0008 Hand Mix And Place Concrete *(03 30 53)*

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0009	CF	Hand Mix And Place 3,000 PSI Concrete Note: For use where conventional equipment access is limited or when directed by the owner. Includes local aggregate, sand, bagged cement (Type I) and water.	21.51	
		For Up To 25 CF, Add	*2.52*	
		For 2,000 PSI Concrete, Deduct	*-0.40*	
		For 2,500 PSI Concrete, Deduct	*-0.20*	
		For 3,500 PSI Concrete, Add	*0.37*	
		For 3,750 PSI Concrete, Add	*0.50*	
		For 4,000 PSI Concrete, Add	*0.63*	
		For 4,500 PSI Concrete, Add	*0.74*	
		For 5,000 PSI Concrete, Add	*0.84*	
		For 6,000 PSI Concrete, Add	*1.99*	
		For 7,500 PSI Concrete, Add	*4.95*	
		For White Cement Concrete, Add	*0.89*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*0.96*	
		For High Early Strength, Type 3 ASTM C150, Add	*0.74*	
		For Lightweight Aggregate, ASTM C330, Add	*2.58*	

03 31 Structural Concrete *(03 30)*

03 31 13 Heavyweight Structural Concrete *(03 31)*

Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 31 13 00-0086 for small concrete purchases (short load), 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.

03 31 13 00-0001 Concrete Slab Assemblies *(03 31 13)*

03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies *(03 31 13 00-0001)*

Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.

03 31 13 00-0003	SF	4" 3,000 PSI Slab On Grade Concrete Slab Assembly	8.54	
		For 2,000 PSI Concrete, Deduct	*-0.23*	
		For 2,500 PSI Concrete, Deduct	*-0.11*	
		For 3,500 PSI Concrete, Add	*0.08*	
		For 4,000 PSI Concrete, Add	*0.26*	
		For 4,500 PSI Concrete, Add	*0.33*	
		For 5,000 PSI Concrete, Add	*0.38*	
		For Reinforcing Rods Are At 18" On Center, Deduct	*-0.54*	
		For Reinforcing Rods Are At 24" On Center, Deduct	*-0.80*	
		For Up To 500, Add	*3.45*	
		For >500 To 1,000, Add	*2.37*	
		For >1,000 To 2,000, Add	*1.29*	
		For >2,000 To 5,000, Add	*0.64*	
		For >10,000 To 20,000, Deduct	*-0.21*	
		For >20,000 To 35,000, Deduct	*-0.42*	
		For >35,000 To 50,000, Deduct	*-0.64*	
		For >50,000 To 70,000, Deduct	*-0.85*	
		For >70,000, Deduct	*-1.06*	
03 31 13 00-0004	SF	5" 3,000 PSI Slab On Grade Concrete Slab Assembly	9.32	
		For 2,000 PSI Concrete, Deduct	*-0.26*	
		For 2,500 PSI Concrete, Deduct	*-0.13*	
		For 3,500 PSI Concrete, Add	*0.09*	
		For 4,000 PSI Concrete, Add	*0.30*	
		For 4,500 PSI Concrete, Add	*0.38*	
		For 5,000 PSI Concrete, Add	*0.43*	
		For Reinforcing Rods Are At 18" On Center, Deduct	*-0.54*	
		For Reinforcing Rods Are At 24" On Center, Deduct	*-0.80*	
		For Up To 500, Add	*3.69*	
		For >500 To 1,000, Add	*2.54*	
		For >1,000 To 2,000, Add	*1.39*	
		For >2,000 To 5,000, Add	*0.69*	
		For >10,000 To 20,000, Deduct	*-0.24*	
		For >20,000 To 35,000, Deduct	*-0.47*	
		For >35,000 To 50,000, Deduct	*-0.70*	
		For >50,000 To 70,000, Deduct	*-0.94*	
		For >70,000, Deduct	*-1.17*	
03 31 13 00-0005	SF	6" 3,000 PSI Slab On Grade Concrete Slab Assembly	10.42	
		For 2,000 PSI Concrete, Deduct	*-0.30*	
		For 2,500 PSI Concrete, Deduct	*-0.15*	
		For 3,500 PSI Concrete, Add	*0.11*	
		For 4,000 PSI Concrete, Add	*0.35*	
		For 4,500 PSI Concrete, Add	*0.44*	
		For 5,000 PSI Concrete, Add	*0.51*	
		For Reinforcing Rods Are At 18" On Center, Deduct	*-0.54*	
		For Reinforcing Rods Are At 24" On Center, Deduct	*-0.80*	
		For Up To 500, Add	*4.03*	
		For >500 To 1,000, Add	*2.78*	
		For >1,000 To 2,000, Add	*1.53*	
		For >2,000 To 5,000, Add	*0.76*	
		For >10,000 To 20,000, Deduct	*-0.28*	
		For >20,000 To 35,000, Deduct	*-0.54*	
		For >35,000 To 50,000, Deduct	*-0.80*	
		For >50,000 To 70,000, Deduct	*-1.06*	
		For >70,000, Deduct	*-1.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0006	SF	7" 3,000 PSI Slab On Grade Concrete Slab Assembly	11.47	
		For 2,000 PSI Concrete, Deduct	*-0.35*	
		For 2,500 PSI Concrete, Deduct	*-0.17*	
		For 3,500 PSI Concrete, Add	*0.12*	
		For 4,000 PSI Concrete, Add	*0.40*	
		For 4,500 PSI Concrete, Add	*0.51*	
		For 5,000 PSI Concrete, Add	*0.58*	
		For Reinforcing Rods Are At 18" On Center, Deduct	*-0.54*	
		For Reinforcing Rods Are At 24" On Center, Deduct	*-0.80*	
		For Up To 500, Add	*4.32*	
		For >500 To 1,000, Add	*2.99*	
		For >1,000 To 2,000, Add	*1.65*	
		For >2,000 To 5,000, Add	*0.83*	
		For >10,000 To 20,000, Deduct	*-0.32*	
		For >20,000 To 35,000, Deduct	*-0.61*	
		For >35,000 To 50,000, Deduct	*-0.89*	
		For >50,000 To 70,000, Deduct	*-1.18*	
		For >70,000, Deduct	*-1.47*	
03 31 13 00-0007	SF	8" 3,000 PSI Slab On Grade Concrete Slab Assembly	12.36	
		For 2,000 PSI Concrete, Deduct	*-0.38*	
		For 2,500 PSI Concrete, Deduct	*-0.19*	
		For 3,500 PSI Concrete, Add	*0.13*	
		For 4,000 PSI Concrete, Add	*0.45*	
		For 4,500 PSI Concrete, Add	*0.56*	
		For 5,000 PSI Concrete, Add	*0.65*	
		For Reinforcing Rods Are At 18" On Center, Deduct	*-0.54*	
		For Reinforcing Rods Are At 24" On Center, Deduct	*-0.80*	
		For Up To 500, Add	*4.58*	
		For >500 To 1,000, Add	*3.17*	
		For >1,000 To 2,000, Add	*1.76*	
		For >2,000 To 5,000, Add	*0.88*	
		For >10,000 To 20,000, Deduct	*-0.35*	
		For >20,000 To 35,000, Deduct	*-0.66*	
		For >35,000 To 50,000, Deduct	*-0.97*	
		For >50,000 To 70,000, Deduct	*-1.28*	
		For >70,000, Deduct	*-1.59*	
03 31 13 00-0008	SF	10" 3,000 PSI Slab On Grade Concrete Slab Assembly	14.62	
		For 2,000 PSI Concrete, Deduct	*-0.48*	
		For 2,500 PSI Concrete, Deduct	*-0.24*	
		For 3,500 PSI Concrete, Add	*0.17*	
		For 4,000 PSI Concrete, Add	*0.56*	
		For 4,500 PSI Concrete, Add	*0.71*	
		For 5,000 PSI Concrete, Add	*0.81*	
		For Reinforcing Rods Are At 18" On Center, Deduct	*-0.54*	
		For Reinforcing Rods Are At 24" On Center, Deduct	*-0.80*	
		For Up To 500, Add	*5.19*	
		For >500 To 1,000, Add	*3.61*	
		For >1,000 To 2,000, Add	*2.03*	
		For >2,000 To 5,000, Add	*1.01*	
		For >10,000 To 20,000, Deduct	*-0.45*	
		For >20,000 To 35,000, Deduct	*-0.81*	
		For >35,000 To 50,000, Deduct	*-1.18*	
		For >50,000 To 70,000, Deduct	*-1.54*	
		For >70,000, Deduct	*-1.91*	
03 31 13 00-0009	SF	12" 3,000 PSI Slab On Grade Concrete Slab Assembly	16.39	
		For 2,000 PSI Concrete, Deduct	*-0.56*	
		For 2,500 PSI Concrete, Deduct	*-0.28*	
		For 3,500 PSI Concrete, Add	*0.20*	
		For 4,000 PSI Concrete, Add	*0.65*	
		For 4,500 PSI Concrete, Add	*0.81*	
		For 5,000 PSI Concrete, Add	*0.94*	
		For Reinforcing Rods Are At 18" On Center, Deduct	*-0.54*	
		For Reinforcing Rods Are At 24" On Center, Deduct	*-0.80*	
		For Up To 500, Add	*5.71*	
		For >500 To 1,000, Add	*3.98*	
		For >1,000 To 2,000, Add	*2.25*	
		For >2,000 To 5,000, Add	*1.12*	
		For >10,000 To 20,000, Deduct	*-0.52*	
		For >20,000 To 35,000, Deduct	*-0.93*	
		For >35,000 To 50,000, Deduct	*-1.34*	
		For >50,000 To 70,000, Deduct	*-1.74*	
		For >70,000, Deduct	*-2.15*	

03 31 13 00-0010 Concrete Delivery And Placement *(03 31 13)*
Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 03 05 13 00-0001 for admixtures.

03 31 13 00-0011 Place Concrete By Method Indicated *(03 31 13 00-0010)*
Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.

03 31 13 00-0012 Place Concrete Pile Caps *(03 31 13 00-0011)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0013	CY	Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	316.18	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.74*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*57.43*	
		For >20 To 50, Add	*21.54*	
		For >100 To 200, Deduct	*-6.32*	
		For >200 To 400, Deduct	*-12.65*	
		For >400, Deduct	*-18.97*	
03 31 13 00-0014	CY	Direct Chute, Place 3,000 PSI Concrete Pile Caps	235.93	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*25.33*	
		For >20 To 50, Add	*9.50*	
		For >100 To 200, Deduct	*-4.72*	
		For >200 To 400, Deduct	*-9.44*	
		For >400, Deduct	*-14.16*	
03 31 13 00-0015	CY	Concrete Pump, Place 3,000 PSI Concrete Pile Caps	247.31	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*24.13*	
		For >20 To 50, Add	*9.05*	
		For >100 To 200, Deduct	*-4.95*	
		For >200 To 400, Deduct	*-9.89*	
		For >400, Deduct	*-14.84*	

03 31 13 00-0016 Place Concrete Continuous Footings *(03 31 13 00-0011)*

03 31 13 00-0017	CY	Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings	300.22	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*51.05*	
		For >20 To 50, Add	*19.14*	
		For >100 To 200, Deduct	*-6.00*	
		For >200 To 400, Deduct	*-12.01*	
		For >400, Deduct	*-18.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0018	CY	Direct Chute, Place 3,000 PSI Concrete Continuous Footings	228.91	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*22.52*	
		For >20 To 50, Add	*8.45*	
		For >100 To 200, Deduct	*-4.58*	
		For >200 To 400, Deduct	*-9.16*	
		For >400, Deduct	*-13.73*	
03 31 13 00-0019	CY	Concrete Pump, Place 3,000 PSI Concrete Continuous Footings Note: Excludes pumping equipment.	240.60	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*21.44*	
		For >20 To 50, Add	*8.04*	
		For >100 To 200, Deduct	*-4.81*	
		For >200 To 400, Deduct	*-9.62*	
		For >400, Deduct	*-14.44*	

03 31 13 00-0020 Place Concrete Spread Footings *(03 31 13 00-0011)*

03 31 13 00-0021	CY	Crane And Bucket, Place 3,000 PSI Concrete Spread Footings	387.96	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*86.14*	
		For >20 To 50, Add	*32.30*	
		For >100 To 200, Deduct	*-7.76*	
		For >200 To 400, Deduct	*-15.52*	
		For >400, Deduct	*-23.28*	
03 31 13 00-0022	CY	Direct Chute, Place 3,000 PSI Concrete Spread Footings	267.61	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*38.00*	
		For >20 To 50, Add	*14.25*	
		For >100 To 200, Deduct	*-5.35*	
		For >200 To 400, Deduct	*-10.70*	
		For >400, Deduct	*-16.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0023	CY	Concrete Pump, Place 3,000 PSI Concrete Spread Footings Note: Excludes pumping equipment.	277.47	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*36.19*	
		For >20 To 50, Add	*13.57*	
		For >100 To 200, Deduct	*-5.55*	
		For >200 To 400, Deduct	*-11.10*	
		For >400, Deduct	*-16.65*	

03 31 13 00-0024 Place Concrete Mat Foundation *(03 31 13 00-0011)*

03 31 13 00-0025	CY	Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation	210.88	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*15.31*	
		For >20 To 50, Add	*5.74*	
		For >100 To 200, Deduct	*-4.22*	
		For >200 To 400, Deduct	*-8.44*	
		For >400, Deduct	*-12.65*	
03 31 13 00-0026	CY	Direct Chute, Place 3,000 PSI Concrete Mat Foundation	189.50	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*6.76*	
		For >20 To 50, Add	*2.54*	
		For >100 To 200, Deduct	*-3.79*	
		For >200 To 400, Deduct	*-7.58*	
		For >400, Deduct	*-11.37*	
03 31 13 00-0027	CY	Concrete Pump, Place 3,000 PSI Concrete Mat Foundation Note: Excludes pumping equipment.	201.06	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*5.63*	
		For >20 To 50, Add	*2.11*	
		For >100 To 200, Deduct	*-4.02*	
		For >200 To 400, Deduct	*-8.04*	
		For >400, Deduct	*-12.06*	

03 31 13 00-0028 Place Concrete Grade Beams *(03 31 13 00-0011)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0029	CY	Crane And Bucket, Place 3,000 PSI Concrete Grade Beams	274.70	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*40.84*	
		For >20 To 50, Add	*15.32*	
		For >100 To 200, Deduct	*-5.49*	
		For >200 To 400, Deduct	*-10.99*	
		For >400, Deduct	*-16.48*	
03 31 13 00-0030	CY	Direct Chute, Place 3,000 PSI Concrete Grade Beams	217.63	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*18.01*	
		For >20 To 50, Add	*6.75*	
		For >100 To 200, Deduct	*-4.35*	
		For >200 To 400, Deduct	*-8.71*	
		For >400, Deduct	*-13.06*	
03 31 13 00-0031	CY	Concrete Pump, Place 3,000 PSI Concrete Grade Beams Note: Excludes pumping equipment.	229.89	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*17.16*	
		For >20 To 50, Add	*6.44*	
		For >100 To 200, Deduct	*-4.60*	
		For >200 To 400, Deduct	*-9.20*	
		For >400, Deduct	*-13.79*	

03 31 13 00-0032 Place Concrete Slab On Grade *(03 31 13 00-0011)*

03 31 13 00-0033	CY	Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	277.09	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*41.80*	
		For >20 To 50, Add	*15.67*	
		For >100 To 200, Deduct	*-5.54*	
		For >200 To 400, Deduct	*-11.08*	
		For >400, Deduct	*-16.63*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0034	CY	>6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	251.89	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*31.72*	
		For >20 To 50, Add	*11.89*	
		For >100 To 200, Deduct	*-5.04*	
		For >200 To 400, Deduct	*-10.08*	
		For >400, Deduct	*-15.11*	
03 31 13 00-0035	CY	Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	218.70	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*18.44*	
		For >20 To 50, Add	*6.92*	
		For >100 To 200, Deduct	*-4.37*	
		For >200 To 400, Deduct	*-8.75*	
		For >400, Deduct	*-13.12*	
03 31 13 00-0036	CY	>6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	207.57	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*13.99*	
		For >20 To 50, Add	*5.25*	
		For >100 To 200, Deduct	*-4.15*	
		For >200 To 400, Deduct	*-8.30*	
		For >400, Deduct	*-12.45*	
03 31 13 00-0037	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	225.41	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*15.37*	
		For >20 To 50, Add	*5.76*	
		For >100 To 200, Deduct	*-4.51*	
		For >200 To 400, Deduct	*-9.02*	
		For >400, Deduct	*-13.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0038	CY	>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade Note: Excludes pumping equipment.	216.14	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*11.66*	
		For >20 To 50, Add	*4.37*	
		For >100 To 200, Deduct	*-4.32*	
		For >200 To 400, Deduct	*-8.65*	
		For >400, Deduct	*-12.97*	
03 31 13 00-0039		Place Concrete Stairs *(03 31 13 00-0011)*		
03 31 13 00-0040	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs	642.76	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*188.06*	
		For >20 To 50, Add	*70.52*	
		For >100 To 200, Deduct	*-12.86*	
		For >200 To 400, Deduct	*-25.71*	
		For >400, Deduct	*-38.57*	
03 31 13 00-0041	CY	Direct Chute, Place 3,000 PSI On Grade Concrete Stairs	380.04	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*82.98*	
		For >20 To 50, Add	*31.12*	
		For >100 To 200, Deduct	*-7.60*	
		For >200 To 400, Deduct	*-15.20*	
		For >400, Deduct	*-22.80*	
03 31 13 00-0042	CY	Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs Note: Excludes pumping equipment.	359.88	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*69.16*	
		For >20 To 50, Add	*25.93*	
		For >100 To 200, Deduct	*-7.20*	
		For >200 To 400, Deduct	*-14.40*	
		For >400, Deduct	*-21.59*	
03 31 13 00-0043		Place Concrete Superstructure By Method Indicated *(03 31 13 00-0010)* See CSI section 03 37 16 00-0001 for concrete pump truck.		
03 31 13 00-0044		Place Elevated Concrete Beams *(03 31 13 00-0043)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0045	CY	Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams	427.84	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*102.10*	
		For >20 To 50, Add	*38.29*	
		For >100 To 200, Deduct	*-8.56*	
		For >200 To 400, Deduct	*-17.11*	
		For >400, Deduct	*-25.67*	
03 31 13 00-0046	CY	Concrete Pump, Place 3,000 PSI Elevated Concrete Beams Note: Excludes pumping equipment.	294.23	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*42.90*	
		For >20 To 50, Add	*16.09*	
		For >100 To 200, Deduct	*-5.88*	
		For >200 To 400, Deduct	*-11.77*	
		For >400, Deduct	*-17.65*	

03 31 13 00-0047 Place Elevated Concrete Slab *(03 31 13 00-0043)*

03 31 13 00-0048	CY	Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	292.76	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*48.06*	
		For >20 To 50, Add	*18.02*	
		For >100 To 200, Deduct	*-5.86*	
		For >200 To 400, Deduct	*-11.71*	
		For >400, Deduct	*-17.57*	
03 31 13 00-0049	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	263.78	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*36.47*	
		For >20 To 50, Add	*13.68*	
		For >100 To 200, Deduct	*-5.28*	
		For >200 To 400, Deduct	*-10.55*	
		For >400, Deduct	*-15.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0050	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab Note: Excludes pumping equipment.	237.48	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*20.20*	
		For >20 To 50, Add	*7.57*	
		For >100 To 200, Deduct	*-4.75*	
		For >200 To 400, Deduct	*-9.50*	
		For >400, Deduct	*-14.25*	
03 31 13 00-0051	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab Note: Excludes pumping equipment.	225.29	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*15.32*	
		For >20 To 50, Add	*5.75*	
		For >100 To 200, Deduct	*-4.51*	
		For >200 To 400, Deduct	*-9.01*	
		For >400, Deduct	*-13.52*	

03 31 13 00-0052 Place Concrete Columns *(03 31 13 00-0043)*

03 31 13 00-0053	CY	12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	448.27	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*110.27*	
		For >20 To 50, Add	*41.35*	
		For >100 To 200, Deduct	*-8.97*	
		For >200 To 400, Deduct	*-17.93*	
		For >400, Deduct	*-26.90*	
03 31 13 00-0054	CY	18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	372.97	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*80.15*	
		For >20 To 50, Add	*30.06*	
		For >100 To 200, Deduct	*-7.46*	
		For >200 To 400, Deduct	*-14.92*	
		For >400, Deduct	*-22.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0055	CY	24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	319.11	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*58.60*	
		For >20 To 50, Add	*21.98*	
		For >100 To 200, Deduct	*-6.38*	
		For >200 To 400, Deduct	*-12.76*	
		For >400, Deduct	*-19.15*	
03 31 13 00-0056	CY	36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	295.12	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*49.01*	
		For >20 To 50, Add	*18.38*	
		For >100 To 200, Deduct	*-5.90*	
		For >200 To 400, Deduct	*-11.80*	
		For >400, Deduct	*-17.71*	
03 31 13 00-0057	CY	12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns Note: Excludes pumping equipment.	302.81	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*46.33*	
		For >20 To 50, Add	*17.37*	
		For >100 To 200, Deduct	*-6.06*	
		For >200 To 400, Deduct	*-12.11*	
		For >400, Deduct	*-18.17*	
03 31 13 00-0058	CY	18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns Note: Excludes pumping equipment.	271.18	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*33.68*	
		For >20 To 50, Add	*12.63*	
		For >100 To 200, Deduct	*-5.42*	
		For >200 To 400, Deduct	*-10.85*	
		For >400, Deduct	*-16.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0059	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns Note: Excludes pumping equipment.	248.54	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*24.62*	
		For >20 To 50, Add	*9.23*	
		For >100 To 200, Deduct	*-4.97*	
		For >200 To 400, Deduct	*-9.94*	
		For >400, Deduct	*-14.91*	
03 31 13 00-0060	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns Note: Excludes pumping equipment.	238.46	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*20.59*	
		For >20 To 50, Add	*7.72*	
		For >100 To 200, Deduct	*-4.77*	
		For >200 To 400, Deduct	*-9.54*	
		For >400, Deduct	*-14.31*	

03 31 13 00-0061 Place Concrete Walls *(03 31 13 00-0043)*

03 31 13 00-0062	CY	Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	431.03	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*103.37*	
		For >20 To 50, Add	*38.76*	
		For >100 To 200, Deduct	*-8.62*	
		For >200 To 400, Deduct	*-17.24*	
		For >400, Deduct	*-25.86*	
03 31 13 00-0063	CY	12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	409.61	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*94.80*	
		For >20 To 50, Add	*35.55*	
		For >100 To 200, Deduct	*-8.19*	
		For >200 To 400, Deduct	*-16.38*	
		For >400, Deduct	*-24.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0064	CY	15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	353.51	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*72.36*	
		For >20 To 50, Add	*27.14*	
		For >100 To 200, Deduct	*-7.07*	
		For >200 To 400, Deduct	*-14.14*	
		For >400, Deduct	*-21.21*	
03 31 13 00-0065	CY	Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	286.61	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*45.60*	
		For >20 To 50, Add	*17.10*	
		For >100 To 200, Deduct	*-5.73*	
		For >200 To 400, Deduct	*-11.46*	
		For >400, Deduct	*-17.20*	
03 31 13 00-0066	CY	12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	263.80	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*36.48*	
		For >20 To 50, Add	*13.68*	
		For >100 To 200, Deduct	*-5.28*	
		For >200 To 400, Deduct	*-10.55*	
		For >400, Deduct	*-15.83*	
03 31 13 00-0067	CY	15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	252.40	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*31.92*	
		For >20 To 50, Add	*11.97*	
		For >100 To 200, Deduct	*-5.05*	
		For >200 To 400, Deduct	*-10.10*	
		For >400, Deduct	*-15.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0068	CY	Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	295.57	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*43.43*	
		For >20 To 50, Add	*16.29*	
		For >100 To 200, Deduct	*-5.91*	
		For >200 To 400, Deduct	*-11.82*	
		For >400, Deduct	*-17.73*	
03 31 13 00-0069	CY	12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	273.85	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*34.74*	
		For >20 To 50, Add	*13.03*	
		For >100 To 200, Deduct	*-5.48*	
		For >200 To 400, Deduct	*-10.95*	
		For >400, Deduct	*-16.43*	
03 31 13 00-0070	CY	15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	262.99	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*30.40*	
		For >20 To 50, Add	*11.40*	
		For >100 To 200, Deduct	*-5.26*	
		For >200 To 400, Deduct	*-10.52*	
		For >400, Deduct	*-15.78*	

03 31 13 00-0071 Place Elevated Concrete Stairs *(03 31 13 00-0043)*

03 31 13 00-0072	CY	Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	695.06	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*208.98*	
		For >20 To 50, Add	*78.37*	
		For >100 To 200, Deduct	*-13.90*	
		For >200 To 400, Deduct	*-27.80*	
		For >400, Deduct	*-41.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0073	CY	Direct Chute, Place 3,000 PSI Elevated Concrete Stairs	403.08	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*92.19*	
		For >20 To 50, Add	*34.57*	
		For >100 To 200, Deduct	*-8.06*	
		For >200 To 400, Deduct	*-16.12*	
		For >400, Deduct	*-24.18*	
03 31 13 00-0074	CY	Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs Note: Excludes pumping equipment.	379.06	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*76.83*	
		For >20 To 50, Add	*28.81*	
		For >100 To 200, Deduct	*-7.58*	
		For >200 To 400, Deduct	*-15.16*	
		For >400, Deduct	*-22.74*	

03 31 13 00-0075 Place Concrete Coping *(03 31 13 00-0043)*

03 31 13 00-0076	CY	Crane And Bucket, Place 3,000 PSI Concrete Coping	713.11	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*216.20*	
		For >20 To 50, Add	*81.08*	
		For >100 To 200, Deduct	*-14.26*	
		For >200 To 400, Deduct	*-28.52*	
		For >400, Deduct	*-42.79*	
03 31 13 00-0077	CY	Direct Chute, Place 3,000 PSI Concrete Coping	401.53	
		For 2,000 PSI Concrete, Deduct	*-9.32*	
		For 2,500 PSI Concrete, Deduct	*-4.66*	
		For 3,500 PSI Concrete, Add	*8.63*	
		For 3,750 PSI Concrete, Add	*11.74*	
		For 4,000 PSI Concrete, Add	*14.84*	
		For 4,500 PSI Concrete, Add	*17.26*	
		For 5,000 PSI Concrete, Add	*19.68*	
		For 6,000 PSI Concrete, Add	*46.60*	
		For 7,500 PSI Concrete, Add	*115.73*	
		For White Cement Concrete, Add	*20.71*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*22.44*	
		For High Early Strength, Type 3 ASTM C150, Add	*17.26*	
		For Lightweight Aggregate, ASTM C330, Add	*60.41*	
		For Up To 20, Add	*91.57*	
		For >20 To 50, Add	*34.34*	
		For >100 To 200, Deduct	*-8.03*	
		For >200 To 400, Deduct	*-16.06*	
		For >400, Deduct	*-24.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0078	CY	Concrete Pump, Place 3,000 PSI Concrete Coping Note: Excludes pumping equipment.	533.75	
		For 2,000 PSI Concrete, Deduct	*-10.10*	
		For 2,500 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Add	*9.35*	
		For 3,750 PSI Concrete, Add	*12.72*	
		For 4,000 PSI Concrete, Add	*16.08*	
		For 4,500 PSI Concrete, Add	*18.70*	
		For 5,000 PSI Concrete, Add	*21.32*	
		For 6,000 PSI Concrete, Add	*50.49*	
		For 7,500 PSI Concrete, Add	*125.38*	
		For White Cement Concrete, Add	*22.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*24.31*	
		For High Early Strength, Type 3 ASTM C150, Add	*18.70*	
		For Lightweight Aggregate, ASTM C330, Add	*65.45*	
		For Up To 20, Add	*138.70*	
		For >20 To 50, Add	*52.01*	
		For >100 To 200, Deduct	*-10.68*	
		For >200 To 400, Deduct	*-21.35*	
		For >400, Deduct	*-32.03*	
03 31 13 00-0079		Concrete Carts *(03 31 13 00-0010)* Note: Used to place concrete were necessary.		
03 31 13 00-0080	CY	50' Haul, Non-Motorized, Concrete Buggy	26.86	
03 31 13 00-0081	CY	150' Haul, Non-Motorized, Concrete Buggy	35.96	
03 31 13 00-0082	CY	250' Haul, Non-Motorized, Concrete Buggy	47.95	
03 31 13 00-0083	CY	50' Haul, Motorized, Concrete Buggy	12.08	
03 31 13 00-0084	CY	150' Haul, Motorized, Concrete Buggy	16.19	
03 31 13 00-0085	CY	250' Haul, Motorized, Concrete Buggy	21.59	
03 31 13 00-0086		Delivery Fee For Small Concrete Purchases (Short Load) *(03 31 13)*		
03 31 13 00-0087	CY	Delivery Fee For Small Concrete Purchases (Short Load) Per CY For Each CY Less Than 9 CY Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.	27.69	
03 31 13 00-0088		Wash Out Truck For Non-Standard Concrete *(03 31 13)* Note: Not portland.		
03 31 13 00-0089	EA	Concrete Truck Washout For Non-Standard Concrete Note: Excludes washout container or bin	196.40	
03 31 13 00-0090		Equipment Pads *(03 31 13)*		
03 31 13 00-0091		Small Concrete Equipment Housekeeping Pad Assemblies *(03 31 13 00-0090)* Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
03 31 13 00-0092	SF	4" Equipment Pad With Welded Wire Reinforcement Assembly	21.26	
03 31 13 00-0093	SF	4" Equipment Pad With Rebar Assembly	27.08	
03 31 13 00-0094	SF	6" Equipment Pad With Rebar Assembly	33.88	
03 31 13 00-0095	SF	8" Equipment Pad With Rebar Assembly	42.40	
03 31 16		**Lightweight Structural Concrete** *(03 31)*		
03 31 16 00-0001		Low Density Cellular / Foam Concrete Fill *(03 31 16)*		
03 31 16 00-0002	CY	Lightweight Low Density Pervious Cellular/Foam Concrete, 100 To 120 PCF Density Range	322.21	
03 31 23		**High-Performance Structural Concrete** *(03 31)*		
03 31 23 00-0001		Structural (Fly Ash) Concrete *(03 31 23)*		
03 31 23 00-0002	CY	Direct Chute, 150 PSI Structural (Fly Ash) Concrete	131.98	
03 31 23 00-0003	CY	Direct Chute, 500 PSI Structural (Fly Ash) Concrete	134.58	
03 31 23 00-0004	CY	Direct Chute, 1,000 PSI Structural (Fly Ash) Concrete	138.06	
03 35		**Concrete Finishing** *(03 30)*		
03 35 13		**High-Tolerance Concrete Floor Finishing** *(03 35)*		
03 35 13 00-0001		Floor Finishes *(03 35 13)* Note: Task is for final finish type and includes all required prior finishes.		
03 35 13 00-0002	SF	Screed, Concrete Floor Finish	1.17	
		For Up To 100, Add	*2.34*	
		For >100 To 250, Add	*0.59*	
		For >250 To 500, Add	*0.29*	
		For >5,000 To 10,000, Deduct	*-0.06*	
		For >10,000, Deduct	*-0.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 13 00-0003	SF	Darby, Concrete Floor Finish	1.41	
		For Up To 100, Add	*2.82*	
		For >100 To 250, Add	*0.71*	
		For >250 To 500, Add	*0.35*	
		For >5,000 To 10,000, Deduct	*-0.07*	
		For >10,000, Deduct	*-0.14*	
03 35 13 00-0004	SF	Broom, Concrete Floor Finish	1.55	
		For Up To 100, Add	*3.10*	
		For >100 To 250, Add	*0.78*	
		For >250 To 500, Add	*0.39*	
		For >5,000 To 10,000, Deduct	*-0.08*	
		For >10,000, Deduct	*-0.16*	
03 35 13 00-0005	SF	Final Float, Concrete Floor Finish	1.81	
		For Up To 100, Add	*3.62*	
		For >100 To 250, Add	*0.91*	
		For >250 To 500, Add	*0.45*	
		For >5,000 To 10,000, Deduct	*-0.09*	
		For >10,000, Deduct	*-0.18*	
03 35 13 00-0006	SF	Steel Trowel, Concrete Floor Finish	2.03	
		For Up To 100, Add	*4.06*	
		For >100 To 250, Add	*1.02*	
		For >250 To 500, Add	*0.51*	
		For >5,000 To 10,000, Deduct	*-0.10*	
		For >10,000, Deduct	*-0.20*	
03 35 13 00-0007	SF	Concrete Floor Finishes, Machine	1.81	
		For Up To 100, Add	*3.62*	
		For >100 To 250, Add	*0.91*	
		For >250 To 500, Add	*0.45*	
		For >5,000 To 10,000, Deduct	*-0.09*	
		For >10,000, Deduct	*-0.18*	

03 35 16 Heavy-Duty Concrete Floor Finishing *(03 35)*

03 35 16 00-0001 Shake On Floor Hardeners *(03 35 16)*

03 35 16 00-0002	SF	0.3 Lb./SF, Metallic, Shake On Floor Hardener	1.41
03 35 16 00-0003	SF	0.65 Lb./SF, Metallic, Shake On Floor Hardener	2.14
03 35 16 00-0004	SF	0.3 Lb./SF, Non-Metallic, Shake On Floor Hardener	1.34
03 35 16 00-0005	SF	0.65 Lb./SF, Non-Metallic, Shake On Floor Hardener	1.59

03 35 19 Colored Concrete Finishing *(03 35)*

03 35 19 00-0001 Concrete Surface Treatments *(03 35 19)*

03 35 19 00-0002	SF	Acrylic Latex Bonding Agent	0.59
03 35 19 00-0003	SF	Epoxy Resin Bonding Agent	3.48
03 35 19 00-0004	SF	Clear Acrylic Sealer, Hardener And Dustproofer	0.41
03 35 19 00-0005	SF	Colored Acrylic Sealer, Hardener And Dustproofer	0.43

03 35 23 Exposed Aggregate Concrete Finishing *(03 35)*

03 35 23 00-0001 Exposed Aggregate, Concrete Finish *(03 35 23)*

03 35 23 00-0002	SF	Exposed Aggregate, Concrete Floor Finish	4.28

03 35 26 Grooved Concrete Surface Finishing *(03 35)*

03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing *(03 35 26)*

03 35 26 00-0002	SF	Ramp, Grooved Concrete Surface Finishing	5.15

03 35 29 Tooled Concrete Finishing *(03 35)*

03 35 29 00-0001 Marblecrete Finishes *(03 35 29)*

03 35 29 00-0002	SF	2" Thick Marblecrete And Finish	42.34
03 35 29 00-0003	SF	4" Thick Marblecrete And Finish	56.81

03 35 29 00-0004 Solid Board Concrete Finish *(03 35 29)*

03 35 29 00-0005	SF	Solid Board Concrete, Non-Uniform Finish, 1 Use, Add To Formwork	19.85

03 35 33 Stamped Concrete Finishing *(03 35)*

03 35 33 00-0001 Stamped Concrete Finishes *(03 35 33)*

03 35 33 00-0002	SF	Up To 2,500 SF Stamped Concrete Finish	4.70
03 35 33 00-0003	SF	>2,500 To 10,000 SF Stamped Concrete Finish	4.26
03 35 33 00-0004	SF	>10,000 SF Stamped Concrete Finish	4.07

03 35 43 Polished Concrete Finishing *(03 35)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 35 43 00-0001 Concrete Floor Polishing System *(03 35 43)*

Note: The floor polishing system below may consist of one or multiple applications of each task/step below depending on existing conditions and desired results.

03 35 43 00-0002	SF	Mechanically Grind Concrete Floor With 40 Grit Metal Bonded Diamond Wheels	2.23	
		For Up To 500, Add	*4.21*	
		For >500 To 1,000, Add	*3.91*	
		For >1,000 To 2,500, Add	*2.58*	
		For >2,500 To 4,000, Add	*1.35*	
		For >8,000 To 15,000, Deduct	*-0.52*	
		For >15,000 To 25,000, Deduct	*-0.66*	
		For >25,000, Deduct	*-0.93*	
03 35 43 00-0003	SF	Mechanically Grind Concrete Floor With 80 Grit Metal Bonded Diamond Wheels	1.79	
		For Up To 500, Add	*3.36*	
		For >500 To 1,000, Add	*3.11*	
		For >1,000 To 2,500, Add	*2.06*	
		For >2,500 To 4,000, Add	*1.07*	
		For >8,000 To 15,000, Deduct	*-0.42*	
		For >15,000 To 25,000, Deduct	*-0.53*	
		For >25,000, Deduct	*-0.74*	
03 35 43 00-0004	SF	Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels	1.50	
		For Up To 500, Add	*2.79*	
		For >500 To 1,000, Add	*2.59*	
		For >1,000 To 2,500, Add	*1.71*	
		For >2,500 To 4,000, Add	*0.89*	
		For >8,000 To 15,000, Deduct	*-0.35*	
		For >15,000 To 25,000, Deduct	*-0.44*	
		For >25,000, Deduct	*-0.62*	
03 35 43 00-0005	SF	Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels	1.40	
		For Up To 500, Add	*2.60*	
		For >500 To 1,000, Add	*2.41*	
		For >1,000 To 2,500, Add	*1.59*	
		For >2,500 To 4,000, Add	*0.83*	
		For >8,000 To 15,000, Deduct	*-0.32*	
		For >15,000 To 25,000, Deduct	*-0.41*	
		For >25,000, Deduct	*-0.58*	
03 35 43 00-0006	SF	Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels	1.29	
		For Up To 500, Add	*2.39*	
		For >500 To 1,000, Add	*2.21*	
		For >1,000 To 2,500, Add	*1.46*	
		For >2,500 To 4,000, Add	*0.76*	
		For >8,000 To 15,000, Deduct	*-0.30*	
		For >15,000 To 25,000, Deduct	*-0.38*	
		For >25,000, Deduct	*-0.53*	
03 35 43 00-0007	SF	Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels	1.29	
		For Up To 500, Add	*2.39*	
		For >500 To 1,000, Add	*2.21*	
		For >1,000 To 2,500, Add	*1.46*	
		For >2,500 To 4,000, Add	*0.76*	
		For >8,000 To 15,000, Deduct	*-0.30*	
		For >15,000 To 25,000, Deduct	*-0.38*	
		For >25,000, Deduct	*-0.53*	
03 35 43 00-0008	SF	Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels	1.29	
		For Up To 500, Add	*2.39*	
		For >500 To 1,000, Add	*2.21*	
		For >1,000 To 2,500, Add	*1.46*	
		For >2,500 To 4,000, Add	*0.76*	
		For >8,000 To 15,000, Deduct	*-0.30*	
		For >15,000 To 25,000, Deduct	*-0.38*	
		For >25,000, Deduct	*-0.53*	
03 35 43 00-0009	SF	Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels	1.29	
		For Up To 500, Add	*2.39*	
		For >500 To 1,000, Add	*2.21*	
		For >1,000 To 2,500, Add	*1.46*	
		For >2,500 To 4,000, Add	*0.76*	
		For >8,000 To 15,000, Deduct	*-0.30*	
		For >15,000 To 25,000, Deduct	*-0.38*	
		For >25,000, Deduct	*-0.53*	
03 35 43 00-0010	SF	High Speed Burnish Concrete Floor With Diamond Pads	0.33	
		For Up To 500, Add	*0.52*	
		For >500 To 1,000, Add	*0.49*	
		For >1,000 To 2,500, Add	*0.32*	
		For >2,500 To 4,000, Add	*0.17*	
		For >8,000 To 15,000, Deduct	*-0.06*	
		For >15,000 To 25,000, Deduct	*-0.08*	
		For >25,000, Deduct	*-0.12*	
03 35 43 00-0011	SF	Apply 1 Coat Of Concrete Densifier For Concrete Floor Polishing	0.64	
		For Up To 500, Add	*0.64*	
		For >500 To 1,000, Add	*0.59*	
		For >1,000 To 2,500, Add	*0.39*	
		For >2,500 To 4,000, Add	*0.20*	
		For >8,000 To 15,000, Deduct	*-0.08*	
		For >15,000 To 25,000, Deduct	*-0.10*	
		For >25,000, Deduct	*-0.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0012	SF	Apply 2 Coats Of Concrete Densifier With Stain Protector For Concrete Floor Polishing	1.11	
		For Up To 500, Add	*0.95*	
		For >500 To 1,000, Add	*0.88*	
		For >1,000 To 2,500, Add	*0.58*	
		For >2,500 To 4,000, Add	*0.30*	
		For >8,000 To 15,000, Deduct	*-0.12*	
		For >15,000 To 25,000, Deduct	*-0.15*	
		For >25,000, Deduct	*-0.21*	
03 35 43 00-0013	SF	Concrete Floor Polishing Final Cleanup	0.17	
		For Up To 500, Add	*0.33*	
		For >500 To 1,000, Add	*0.31*	
		For >1,000 To 2,500, Add	*0.20*	
		For >2,500 To 4,000, Add	*0.11*	
		For >8,000 To 15,000, Deduct	*-0.04*	
		For >15,000 To 25,000, Deduct	*-0.05*	
		For >25,000, Deduct	*-0.07*	

03 35 63 Slip-Resistant Floor Finishing *(03 35)*

03 35 63 00-0001 Slip-Resistant Floor Finishing *(03 35 63)*

03 35 63 00-0002	SF	Aluminum Oxide Abrasive Floor Finish, 0.25 Lb./SF	2.00	
		For Up To 100, Add	*2.24*	
		For >100 To 250, Add	*0.56*	
		For >250 To 500, Add	*0.28*	
		For >5,000 To 10,000, Deduct	*-0.06*	
		For >10,000, Deduct	*-0.11*	
03 35 63 00-0003	SF	Non-Slip Protection, Aluminum Oxide At 1-1/4 Lb./SF, Emery - Corundum	2.81	
		For Up To 100, Add	*2.24*	
		For >100 To 250, Add	*0.56*	
		For >250 To 500, Add	*0.28*	
		For >5,000 To 10,000, Deduct	*-0.06*	
03 35 63 00-0004	SF	Silicone Carbide Abrasive Floor Finish 0.25 Lb./SF	1.77	
		For Up To 100, Add	*2.24*	
		For >100 To 250, Add	*0.56*	
		For >250 To 500, Add	*0.28*	
		For >5,000 To 10,000, Deduct	*-0.06*	
		For >10,000, Deduct	*-0.11*	

03 35 66 Acid Etch Floor Finishing *(03 35)*

03 35 66 00-0001 Acid Etch Floor *(03 35 66)*

03 35 66 00-0002	SF	Concrete Floor Finishes, Etch With Acid And Rinse	1.09	
		For Up To 100, Add	*1.08*	
		For >100 To 250, Add	*0.27*	
		For >250 To 500, Add	*0.14*	
		For >5,000 To 10,000, Deduct	*-0.03*	
		For >10,000, Deduct	*-0.05*	

03 35 83 Concrete Wall Finishing *(03 35)*

03 35 83 00-0001 Wall Finishes *(03 35 83)*

03 35 83 00-0002	SF	Burlap Rub With Grout, New Concrete Wall Finishes	2.07	
		For Up To 100, Add	*3.94*	
		For >100 To 250, Add	*0.99*	
		For >250 To 500, Add	*0.49*	
		For >5,000 To 10,000, Deduct	*-0.10*	
		For >10,000, Deduct	*-0.20*	
03 35 83 00-0003	SF	1/16" Float Finish, New Concrete Wall Finishes	3.10	
		For Up To 100, Add	*5.90*	
		For >100 To 250, Add	*1.48*	
		For >250 To 500, Add	*0.74*	
		For >5,000 To 10,000, Deduct	*-0.15*	
		For >10,000, Deduct	*-0.30*	
03 35 83 00-0004	SF	Etch With Acid And Rinse, New Concrete Wall Finishes	1.20	
		For Up To 100, Add	*1.30*	
		For >100 To 250, Add	*0.33*	
		For >250 To 500, Add	*0.16*	
		For >5,000 To 10,000, Deduct	*-0.03*	
		For >10,000, Deduct	*-0.07*	
03 35 83 00-0005	SF	Bush Hammer Green Concrete, New Concrete Wall Finishes	6.29	
		For Up To 100, Add	*12.48*	
		For >100 To 250, Add	*3.12*	
		For >250 To 500, Add	*1.56*	
		For >5,000 To 10,000, Deduct	*-0.31*	
		For >10,000, Deduct	*-0.62*	
03 35 83 00-0006	SF	Bush Hammer Cured Concrete, New Concrete Wall Finishes	9.74	
		For Up To 100, Add	*19.28*	
		For >100 To 250, Add	*4.82*	
		For >250 To 500, Add	*2.41*	
		For >5,000 To 10,000, Deduct	*-0.48*	
		For >10,000, Deduct	*-0.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0007	SF	Break Ties And Patch, New Concrete Wall Finishes	1.18	
		For Up To 100, Add	*2.12*	
		For >100 To 250, Add	*0.53*	
		For >250 To 500, Add	*0.27*	
		For >5,000 To 10,000, Deduct	*-0.05*	
		For >10,000, Deduct	*-0.11*	
03 35 83 00-0008	SF	Carborundum Dry Rub, New Concrete Wall Finishes	4.04	
		For Up To 100, Add	*7.84*	
		For >100 To 250, Add	*1.96*	
		For >250 To 500, Add	*0.98*	
		For >5,000 To 10,000, Deduct	*-0.20*	
		For >10,000, Deduct	*-0.39*	
03 35 83 00-0009	SF	Carborundum Wet Rub, New Concrete Wall Finishes	6.18	
		For Up To 100, Add	*12.12*	
		For >100 To 250, Add	*3.03*	
		For >250 To 500, Add	*1.52*	
		For >5,000 To 10,000, Deduct	*-0.30*	
		For >10,000, Deduct	*-0.61*	
03 35 83 00-0010	SF	Up To 1/4" Penetration Abrasive Media Blasting, New Concrete Wall Finishes Note: 4.5 Lb. of sand or abrasive media material per SF	6.14	
		For Up To 100, Add	*9.98*	
		For >100 To 250, Add	*2.50*	
		For >250 To 500, Add	*1.25*	
		For >5,000 To 10,000, Deduct	*-0.25*	
		For >10,000, Deduct	*-0.50*	
03 35 83 00-0011	SF	>1/4" To 1/2" Penetration Abrasive Media Blasting, New Concrete Wall Finishes Note: 9 Lb. of sand abrasive media material per SF	12.27	
		For Up To 100, Add	*19.96*	
		For >100 To 250, Add	*4.99*	
		For >250 To 500, Add	*2.50*	
		For >5,000 To 10,000, Deduct	*-0.50*	
		For >10,000, Deduct	*-1.00*	

03 37 Specialty Placed Concrete *(03 30)*

Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.

03 37 13 Shotcrete *(03 37)*

03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair *(03 37 13)*

03 37 13 00-0002	SF	1" Thick Shotcrete, Fiber Reinforced	3.77	
		For Up To 25, Add	*0.72*	
		For >25 To 50, Add	*0.42*	
		For >50 To 150, Add	*0.17*	
03 37 13 00-0003	SF	2" Thick Shotcrete, Fiber Reinforced	7.07	
		For Up To 25, Add	*1.33*	
		For >25 To 50, Add	*0.77*	
		For >50 To 150, Add	*0.31*	
03 37 13 00-0004	SF	3" Thick Shotcrete, Fiber Reinforced	9.99	
		For Up To 25, Add	*1.84*	
		For >25 To 50, Add	*1.06*	
		For >50 To 150, Add	*0.42*	
03 37 13 00-0005	SF	4" Thick Shotcrete, Fiber Reinforced	12.56	
		For Up To 25, Add	*2.26*	
		For >25 To 50, Add	*1.30*	
		For >50 To 150, Add	*0.50*	
03 37 13 00-0006	SF	6" Thick Shotcrete, Fiber Reinforced	16.94	
		For Up To 25, Add	*2.92*	
		For >25 To 50, Add	*1.66*	
		For >50 To 150, Add	*0.61*	

03 37 13 00-0007 Gunite (Dry Mix Shotcrete), Sprayed *(03 37 13)*

03 37 13 00-0008	SF	1" Thick Gunite (Dry Mix Shotcrete), Sprayed	4.18	
		For Radius Or Irregular Surface, Add	*1.27*	
		For Up To 25, Add	*0.90*	
		For >25 To 50, Add	*0.53*	
		For >50 To 150, Add	*0.24*	
03 37 13 00-0009	SF	2" Thick Gunite (Dry Mix Shotcrete), Sprayed	7.69	
		For Radius Or Irregular Surface, Add	*2.28*	
		For Up To 25, Add	*1.62*	
		For >25 To 50, Add	*0.95*	
		For >50 To 150, Add	*0.43*	
03 37 13 00-0010	SF	3" Thick Gunite (Dry Mix Shotcrete), Sprayed	10.68	
		For Radius Or Irregular Surface, Add	*3.08*	
		For Up To 25, Add	*2.22*	
		For >25 To 50, Add	*1.30*	
		For >50 To 150, Add	*0.58*	
03 37 13 00-0011	SF	4" Thick Gunite (Dry Mix Shotcrete), Sprayed	13.22	
		For Radius Or Irregular Surface, Add	*3.69*	
		For Up To 25, Add	*2.71*	
		For >25 To 50, Add	*1.58*	
		For >50 To 150, Add	*0.69*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0012	SF	5" Thick Gunite (Dry Mix Shotcrete), Sprayed	15.37	
		For Radius Or Irregular Surface, Add	*4.15*	
		For Up To 25, Add	*3.09*	
		For >25 To 50, Add	*1.81*	
		For >50 To 150, Add	*0.78*	
03 37 13 00-0013	SF	6" Thick Gunite (Dry Mix Shotcrete), Sprayed	17.20	
		For Radius Or Irregular Surface, Add	*4.48*	
		For Up To 25, Add	*3.40*	
		For >25 To 50, Add	*1.98*	
		For >50 To 150, Add	*0.84*	
03 37 13 00-0014	SF	8" Thick Gunite (Dry Mix Shotcrete), Sprayed	21.43	
		For Radius Or Irregular Surface, Add	*5.38*	
		For Up To 25, Add	*4.16*	
		For >25 To 50, Add	*2.42*	
		For >50 To 150, Add	*1.01*	
03 37 13 00-0015	SF	10" Thick Gunite (Dry Mix Shotcrete), Sprayed	25.10	
		For Radius Or Irregular Surface, Add	*6.05*	
		For Up To 25, Add	*4.78*	
		For >25 To 50, Add	*2.77*	
		For >50 To 150, Add	*1.13*	
03 37 13 00-0016	SF	12" Thick Gunite (Dry Mix Shotcrete), Sprayed	28.30	
		For Radius Or Irregular Surface, Add	*6.53*	
		For Up To 25, Add	*5.28*	
		For >25 To 50, Add	*3.05*	
		For >50 To 150, Add	*1.22*	

03 37 16 Pumped Concrete *(03 37)*

03 37 16 00-0001 Concrete Pumping With Boom Truck *(03 37 16)*

Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for cleanup of equipment add one hour. Use four hours as the minimum cost including set-up and cleanup. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.

03 37 16 00-0002	HR	55' To 60' Boom Truck For Concrete Placement Note: 95 CY per hour rating	375.72
03 37 16 00-0003	HR	70' To 80' Boom Truck For Concrete Placement Note: 117 CY per hour rating	415.44
03 37 16 00-0004	HR	90' To 100' Boom Truck For Concrete Placement Note: 117 CY per hour rating	558.87
03 37 16 00-0005	HR	105' To 115' Boom Truck For Concrete Placement Note: 117 CY per hour rating	648.16
03 37 16 00-0006	HR	120' To 130' Boom Truck For Concrete Placement Note: 170 CY per hour rating	740.30
03 37 16 00-0007	HR	135' To 140' Boom Truck For Concrete Placement Note: 170 CY per hour rating	935.45
03 37 16 00-0008	HR	148' To 155' Boom Truck For Concrete Placement Note: 170 CY per hour rating	1,051.88
03 37 16 00-0009	HR	170' To 175' Boom Truck For Concrete Placement Note: 182 CY per hour rating	1,333.89
03 37 16 00-0010	HR	35 CY/HR, 66 HP Trailer Mounted Concrete Pump Note: Includes hoses	247.49

03 38 Post-Tensioned Concrete *(03 30)*

03 38 16 Unbonded Post-Tensioned Concrete *(03 38)*

03 38 16 00-0001 Post-Tensioned Concrete Slab, 1/2" Diameter, Non-bonded Strands, HDPE Sheathed *(03 38 16)*

03 38 16 00-0002	SF	Up To 600 SF Slab, Placing HDPE Sheathing, Un-Grouted Single Post-Tensioned Strands @ 36" O.C.	1.34
03 38 16 00-0003	SF	Up To 600 SF Slab, Placing HDPE Sheathing, Un-Grouted Single Post-Tensioned Strands @ 42" O.C.	1.23
03 38 16 00-0004	SF	Up To 600 SF Slab, Placing HDPE Sheathing, Un-Grouted Single Post-Tensioned Strands @ 48" O.C.	1.11
03 38 16 00-0005	SF	> 600 To 1,200 SF Slab, Placing HDPE Sheathing, Un-Grouted Single Post-Tensioned Strands @ 36" O.C.	1.23
03 38 16 00-0006	SF	> 600 To 1,200 SF Slab, Placing HDPE Sheathing, Un-Grouted Single Post-Tensioned Strands @ 42" O.C.	1.10
03 38 16 00-0007	SF	> 600 To 1,200 SF Slab, Placing HDPE Sheathing, Un-Grouted Single Post-Tensioned Strands @ 48" O.C.	1.00
03 38 16 00-0008	SF	> 1,200 SF Slab, Placing HDPE Sheathing, Un-Grouted Single Post-Tensioned Strands @ 36" O.C.	1.15
03 38 16 00-0009	SF	> 1,200 SF Slab, Placing HDPE Sheathing, Un-Grouted Single Post-Tensioned Strands @ 42" O.C.	1.03
03 38 16 00-0010	SF	> 1,200 SF Slab, Placing HDPE Sheathing, Un-Grouted Single Post-Tensioned Strands @ 48" O.C.	0.92

03 38 16 00-0011 Stressing Of Slab, 1/2" Diameter, Non-bonded Strands, Tensioned Concrete *(03 38 16)*

03 38 16 00-0012	SF	Up To 600 SF Slab, Stressing Of Strands @ 36" O.C.	0.48
03 38 16 00-0013	SF	Up To 600 SF Slab, Stressing Of Strands @ 42" O.C.	0.45
03 38 16 00-0014	SF	Up To 600 SF Slab, Stressing Of Strands @ 48" O.C.	0.41
03 38 16 00-0015	SF	>600 To 1,200 SF Slab, Stressing Of Strands @ 36" O.C.	0.43
03 38 16 00-0016	SF	>600 To 1,200 SF Slab, Stressing Of Strands @ 42" O.C.	0.40
03 38 16 00-0017	SF	>600 To 1,200 SF Slab, Stressing Of Strands @ 48" O.C.	0.37
03 38 16 00-0018	SF	>1,200 SF Slab, Stressing Of Strands @ 36" O.C.	0.32
03 38 16 00-0019	SF	>1,200 SF Slab, Stressing Of Strands @ 42" O.C.	0.30
03 38 16 00-0020	SF	>1,200 SF Slab, Stressing Of Strands @ 48" O.C.	0.27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 39 Concrete Curing *(03 30)*

03 39 13 Water Concrete Curing *(03 39)*

03 39 13 00-0001 Water Concrete Curing *(03 39 13)*

03 39 13 00-0002 SF Water Based Curing, Sealing, Hardening And Dustproofing Compound 0.38
Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.

03 39 23 Membrane Concrete Curing *(03 39)*

03 39 23 23 Sheet Membrane Concrete Curing *(03 39 23)*

03 39 23 23-0001 Warm Weather Concrete Curing Blankets *(03 39 23 23)*

03 39 23 23-0002 CSF Warm Weather Concrete Curing Blankets 35.37

03 39 23 23-0003 Cold Weather Concrete Curing Blankets *(03 39 23 23)*

03 39 23 23-0004 CSF Electric, Cold Weather Concrete Curing Blanket 188.49
03 39 23 23-0005 CSF Non-Electric, Cold Weather Concrete Curing Blanket 40.62

03 40 Precast Concrete *(03)*

Note: Precast concrete material prices are based on a precast operation producing large quantities of precast products. Includes the concrete panel, delivery to construction site and overhead/mobilization charges for the precast plant.

03 41 Precast Structural Concrete *(03 40)*

03 41 16 Precast Concrete Slabs *(03 41)*

03 41 16 00-0001 Flat Floor Slab/Floor Plank *(03 41 16)*

03 41 16 00-0002 Erection Costs For Using A 90 Ton Crawler Crane *(03 41 16 00-0001)*
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0003	EA	Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane	395.03	316.05
03 41 16 00-0004	EA	Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	439.13	351.25
03 41 16 00-0005	EA	Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane	466.29	373.01
03 41 16 00-0006	EA	Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane	494.33	395.48
03 41 16 00-0007	EA	Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane	529.02	423.19
03 41 16 00-0008	EA	Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	565.38	452.30
03 41 16 00-0009	EA	Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane	607.12	485.66
03 41 16 00-0010	EA	Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	660.30	528.21
03 41 16 00-0011	EA	Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane	717.94	574.43

03 41 16 00-0012 Material Cost *(03 41 16 00-0001)*
Note: Includes cost for 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations cost.

03 41 16 00-0013	SF	4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	35.85
		For 3,500 PSI Concrete, Add	*0.72*
		For 4,000 PSI Concrete, Add	*1.08*
		For 4,500 PSI Concrete, Add	*1.43*
		For 5,000 PSI Concrete, Add	*2.15*
03 41 16 00-0014	SF	5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	43.02
		For 3,500 PSI Concrete, Add	*0.86*
		For 4,000 PSI Concrete, Add	*1.29*
		For 4,500 PSI Concrete, Add	*1.72*
		For 5,000 PSI Concrete, Add	*2.58*
03 41 16 00-0015	SF	6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	52.58
		For 3,500 PSI Concrete, Add	*1.05*
		For 4,000 PSI Concrete, Add	*1.58*
		For 4,500 PSI Concrete, Add	*2.10*
		For 5,000 PSI Concrete, Add	*3.15*
03 41 16 00-0016	SF	8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	69.79
		For 3,500 PSI Concrete, Add	*1.40*
		For 4,000 PSI Concrete, Add	*2.09*
		For 4,500 PSI Concrete, Add	*2.79*
		For 5,000 PSI Concrete, Add	*4.19*

03 41 16 00-0017 Floor Units, Combination Beam And Slab *(03 41 16)*

03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane *(03 41 16 00-0017)*
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0019	EA	Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane	485.62	388.48
03 41 16 00-0020	EA	Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane	529.29	423.49
03 41 16 00-0021	EA	Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane	585.01	467.95
03 41 16 00-0022	EA	Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane	649.59	519.64
03 41 16 00-0023	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane	730.20	584.11

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0024		Erection Costs Using A 125 Ton Crawler Crane *(03 41 16 00-0017)* Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0025	EA	Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane	609.37	487.54
03 41 16 00-0026	EA	Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane	664.19	531.31
03 41 16 00-0027	EA	Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane	734.11	587.33
03 41 16 00-0028	EA	Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane	815.14	652.14
03 41 16 00-0029	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane	916.29	733.10
03 41 16 00-0030	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane	996.28	796.97
03 41 16 00-0031	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane	1,101.16	880.92
03 41 16 00-0032	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane	1,218.76	975.07
03 41 16 00-0033	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane	1,379.46	1,103.58
03 41 16 00-0034		Material Cost *(03 41 16 00-0017)* Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.		
03 41 16 00-0035		4" Slab *(03 41 16 00-0034)*		
03 41 16 00-0036	CY	Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete	3,776.16	
		For 3,500 PSI Concrete, Add	*75.52*	
		For 4,000 PSI Concrete, Add	*113.28*	
		For 4,500 PSI Concrete, Add	*151.05*	
		For 5,000 PSI Concrete, Add	*226.57*	
03 41 16 00-0037	CY	Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete	3,823.96	
		For 3,500 PSI Concrete, Add	*76.48*	
		For 4,000 PSI Concrete, Add	*114.72*	
		For 4,500 PSI Concrete, Add	*152.96*	
		For 5,000 PSI Concrete, Add	*229.44*	
03 41 16 00-0038	CY	Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete	4,301.96	
		For 3,500 PSI Concrete, Add	*86.04*	
		For 4,000 PSI Concrete, Add	*129.06*	
		For 4,500 PSI Concrete, Add	*172.08*	
		For 5,000 PSI Concrete, Add	*258.12*	
03 41 16 00-0039		5" Slab *(03 41 16 00-0034)*		
03 41 16 00-0040	CY	Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete	3,871.76	
		For 3,500 PSI Concrete, Add	*77.44*	
		For 4,000 PSI Concrete, Add	*116.15*	
		For 4,500 PSI Concrete, Add	*154.87*	
		For 5,000 PSI Concrete, Add	*232.31*	
03 41 16 00-0041	CY	Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete	4,015.16	
		For 3,500 PSI Concrete, Add	*80.30*	
		For 4,000 PSI Concrete, Add	*120.45*	
		For 4,500 PSI Concrete, Add	*160.61*	
		For 5,000 PSI Concrete, Add	*240.91*	
03 41 16 00-0042	CY	Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete	5,114.55	
		For 3,500 PSI Concrete, Add	*102.29*	
		For 4,000 PSI Concrete, Add	*153.44*	
		For 4,500 PSI Concrete, Add	*204.58*	
		For 5,000 PSI Concrete, Add	*306.87*	
03 41 16 00-0043		6" Slab *(03 41 16 00-0034)*		
03 41 16 00-0044	CY	Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete	4,015.16	
		For 3,500 PSI Concrete, Add	*80.30*	
		For 4,000 PSI Concrete, Add	*120.45*	
		For 4,500 PSI Concrete, Add	*160.61*	
		For 5,000 PSI Concrete, Add	*240.91*	
03 41 16 00-0045	CY	Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete	4,779.96	
		For 3,500 PSI Concrete, Add	*95.60*	
		For 4,000 PSI Concrete, Add	*143.40*	
		For 4,500 PSI Concrete, Add	*191.20*	
		For 5,000 PSI Concrete, Add	*286.80*	
03 41 16 00-0046	CY	Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete	5,831.55	
		For 3,500 PSI Concrete, Add	*116.63*	
		For 4,000 PSI Concrete, Add	*174.95*	
		For 4,500 PSI Concrete, Add	*233.26*	
		For 5,000 PSI Concrete, Add	*349.89*	
03 41 19		**Precast Concrete Wall Panels** *(03 41)*		
03 41 19 00-0001		Structural Wall Panels *(03 41 19)* Note: Gray, smooth form or board finish one side.		
03 41 19 00-0002		Erection Cost Using 50 Ton Hydraulic Crane *(03 41 19 00-0001)* Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0003	EA	Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	394.21	315.40
03 41 19 00-0004	EA	Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	438.23	350.52
03 41 19 00-0005	EA	Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	493.31	394.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0006	EA	Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	527.93	422.31
03 41 19 00-0007	EA	Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	564.21	451.37
03 41 19 00-0008	EA	Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	605.87	484.66
03 41 19 00-0009	EA	Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	658.94	527.12
03 41 19 00-0010	EA	Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	716.46	573.24

03 41 19 00-0011 Erection Cost Using 90 Ton Crawler Crane *(03 41 19 00-0001)*

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.

03 41 19 00-0012	EA	Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	436.84	349.44
03 41 19 00-0013	EA	Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	485.62	388.48
03 41 19 00-0014	EA	Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	546.65	437.38
03 41 19 00-0015	EA	Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	585.01	467.95
03 41 19 00-0016	EA	Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	625.23	500.19
03 41 19 00-0017	EA	Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	671.39	537.14
03 41 19 00-0018	EA	Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	730.20	584.11
03 41 19 00-0019	EA	Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	793.95	635.09
03 41 19 00-0020	EA	Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	877.52	702.06
03 41 19 00-0021	EA	Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	971.23	776.95
03 41 19 00-0022	EA	Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	1,099.31	879.49
03 41 19 00-0023	EA	Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,250.46	1,000.37
03 41 19 00-0024	EA	Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane	1,449.81	1,159.87

03 41 19 00-0025 Material Cost *(03 41 19 00-0001)*

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.

03 41 19 00-0026	SF	4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect	47.80
		For 3,500 PSI Concrete, Add	*0.96*
		For 4,000 PSI Concrete, Add	*1.43*
		For 4,500 PSI Concrete, Add	*1.91*
		For 5,000 PSI Concrete, Add	*2.87*
		For White Facing, Add	*9.56*
		For Solid White Through Thickness, Add	*9.56*
		For Broken Rib Finish, Add	*4.78*
		For Fluted Surface, Add	*4.78*
		For Exposed Aggregate, Add	*9.56*
		For Sandblasting Of Surface, Add	*4.78*
		For 2" Polystyrene Insulation, Add	*2.21*
03 41 19 00-0027	SF	5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect	58.79
		For 3,500 PSI Concrete, Add	*1.18*
		For 4,000 PSI Concrete, Add	*1.76*
		For 4,500 PSI Concrete, Add	*2.35*
		For 5,000 PSI Concrete, Add	*3.53*
		For White Facing, Add	*11.76*
		For Solid White Through Thickness, Add	*11.76*
		For Broken Rib Finish, Add	*5.88*
		For Fluted Surface, Add	*5.88*
		For Exposed Aggregate, Add	*11.76*
		For Sandblasting Of Surface, Add	*5.88*
		For 2" Polystyrene Insulation, Add	*2.21*
03 41 19 00-0028	SF	6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect	70.74
		For 3,500 PSI Concrete, Add	*1.41*
		For 4,000 PSI Concrete, Add	*2.12*
		For 4,500 PSI Concrete, Add	*2.83*
		For 5,000 PSI Concrete, Add	*4.24*
		For White Facing, Add	*14.15*
		For Solid White Through Thickness, Add	*14.15*
		For Broken Rib Finish, Add	*7.07*
		For Fluted Surface, Add	*7.07*
		For Exposed Aggregate, Add	*14.15*
		For Sandblasting Of Surface, Add	*7.07*
		For 2" Polystyrene Insulation, Add	*2.21*
03 41 19 00-0029	SF	8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect	93.21
		For 3,500 PSI Concrete, Add	*1.86*
		For 4,000 PSI Concrete, Add	*2.80*
		For 4,500 PSI Concrete, Add	*3.73*
		For 5,000 PSI Concrete, Add	*5.59*
		For White Facing, Add	*18.64*
		For Solid White Through Thickness, Add	*18.64*
		For Broken Rib Finish, Add	*9.32*
		For Fluted Surface, Add	*9.32*
		For Exposed Aggregate, Add	*18.64*
		For Sandblasting Of Surface, Add	*9.32*
		For 2" Polystyrene Insulation, Add	*2.21*

03 41 19 00-0030 Partition Panels *(03 41 19)*

03 41 19 00-0031 Erection Costs Using 20 Ton Hydraulic Crane *(03 41 19 00-0030)*

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 19 00-0032	EA	Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane	313.17	250.49
03 41 19 00-0033	EA	Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane	348.13	278.54

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0034	EA	Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane	391.88	313.49
03 41 19 00-0035	EA	Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane	448.22	358.57
03 41 19 00-0036	EA	Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane	481.31	385.08
03 41 19 00-0037	EA	Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane	523.46	418.76
03 41 19 00-0038	EA	Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane	569.17	455.38
03 41 19 00-0039	EA	Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane	629.08	503.28

03 41 19 00-0040 Erection Costs Using 50 Ton Hydraulic Crane *(03 41 19 00-0030)*

Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.

03 41 19 00-0041	EA	Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	394.21	315.40
03 41 19 00-0042	EA	Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane	438.23	350.52
03 41 19 00-0043	EA	Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	493.31	394.67
03 41 19 00-0044	EA	Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane	564.21	451.37
03 41 19 00-0045	EA	Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	605.87	484.66
03 41 19 00-0046	EA	Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane	658.94	527.12
03 41 19 00-0047	EA	Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	716.46	573.24
03 41 19 00-0048	EA	Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane	791.89	633.47
03 41 19 00-0049	EA	Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane	876.46	701.18
03 41 19 00-0050	EA	Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane	992.03	793.57
03 41 19 00-0051	EA	Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane	1,128.43	902.75
03 41 19 00-0052	EA	Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane	1,308.33	1,046.62

03 41 19 00-0053 Material Cost *(03 41 19 00-0030)*

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.

03 41 19 00-0054	SF	4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect	45.41
		For 4,000 PSI Concrete, Add	*1.36*
		For 4,500 PSI Concrete, Add	*1.82*
		For 5,000 PSI Concrete, Add	*2.72*
		For White Facing, Add	*9.08*
		For Solid White Through Thickness, Add	*9.08*
		For Broken Rib Finish, Add	*4.54*
		For Fluted Surface, Add	*4.54*
		For Exposed Aggregate, Add	*9.08*
		For Sandblasting Of Surface, Add	*4.54*
03 41 19 00-0055	SF	5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect	55.92
		For 4,000 PSI Concrete, Add	*1.68*
		For 4,500 PSI Concrete, Add	*2.24*
		For 5,000 PSI Concrete, Add	*3.36*
		For White Facing, Add	*11.18*
		For Solid White Through Thickness, Add	*11.18*
		For Broken Rib Finish, Add	*5.59*
		For Fluted Surface, Add	*5.59*
		For Exposed Aggregate, Add	*11.18*
		For Sandblasting Of Surface, Add	*5.59*
03 41 19 00-0056	SF	6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect	66.92
		For 4,000 PSI Concrete, Add	*2.01*
		For 4,500 PSI Concrete, Add	*2.68*
		For 5,000 PSI Concrete, Add	*4.02*
		For White Facing, Add	*13.38*
		For Solid White Through Thickness, Add	*13.38*
		For Broken Rib Finish, Add	*6.69*
		For Fluted Surface, Add	*6.69*
		For Exposed Aggregate, Add	*13.38*
		For Sandblasting Of Surface, Add	*6.69*
03 41 19 00-0057	SF	8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect	88.43
		For 4,000 PSI Concrete, Add	*2.65*
		For 4,500 PSI Concrete, Add	*3.54*
		For 5,000 PSI Concrete, Add	*5.31*
		For White Facing, Add	*17.69*
		For Solid White Through Thickness, Add	*17.69*
		For Broken Rib Finish, Add	*8.84*
		For Fluted Surface, Add	*8.84*
		For Exposed Aggregate, Add	*17.69*
		For Sandblasting Of Surface, Add	*8.84*

03 41 19 00-0058 Cladding Panels *(03 41 19)*

03 41 19 00-0059 Erection Costs Using 50 Ton Hydraulic Crane *(03 41 19 00-0058)*

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 19 00-0060	EA	Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	416.01	332.75
03 41 19 00-0061	EA	Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	465.33	372.24
03 41 19 00-0062	EA	Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	527.93	422.31
03 41 19 00-0063	EA	Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	564.21	451.37
03 41 19 00-0064	EA	Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	605.87	484.66
03 41 19 00-0065	EA	Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	658.94	527.12
03 41 19 00-0066	EA	Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	716.46	573.24
03 41 19 00-0067	EA	Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	791.89	633.47

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0068		**Erection Costs Using 90 Ton Crawler Crane** *(03 41 19 00-0058)* Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0069	EA	Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	461.00	368.74
03 41 19 00-0070	EA	Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	515.66	412.52
03 41 19 00-0071	EA	Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	585.01	467.95
03 41 19 00-0072	EA	Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	625.23	500.19
03 41 19 00-0073	EA	Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	671.39	537.14
03 41 19 00-0074	EA	Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	730.20	584.11
03 41 19 00-0075	EA	Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane	793.95	635.09
03 41 19 00-0076	EA	Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	877.52	702.06
03 41 19 00-0077	EA	Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	971.23	776.95
03 41 19 00-0078	EA	Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	1,099.31	879.49
03 41 19 00-0079	EA	Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	1,250.46	1,000.37
03 41 19 00-0080	EA	Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,449.81	1,159.87
03 41 19 00-0081		**Material Cost** *(03 41 19 00-0058)* Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082	SF	4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect	45.41	
		For 3,500 PSI Concrete, Add	*0.91*	
		For 4,000 PSI Concrete, Add	*1.36*	
		For 4,500 PSI Concrete, Add	*1.82*	
		For 5,000 PSI Concrete, Add	*2.72*	
		For White Facing, Add	*9.08*	
		For Solid White Through Thickness, Add	*9.08*	
		For Broken Rib Finish, Add	*4.54*	
		For Fluted Surface, Add	*4.54*	
		For Exposed Aggregate, Add	*9.08*	
		For Sandblasting Of Surface, Add	*4.54*	
03 41 19 00-0083	SF	5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect	55.92	
		For 3,500 PSI Concrete, Add	*1.12*	
		For 4,000 PSI Concrete, Add	*1.68*	
		For 4,500 PSI Concrete, Add	*2.24*	
		For 5,000 PSI Concrete, Add	*3.36*	
		For White Facing, Add	*11.18*	
		For Solid White Through Thickness, Add	*11.18*	
		For Broken Rib Finish, Add	*5.59*	
		For Fluted Surface, Add	*5.59*	
		For Exposed Aggregate, Add	*11.18*	
		For Sandblasting Of Surface, Add	*5.59*	
03 41 19 00-0084	SF	6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect	66.92	
		For 3,500 PSI Concrete, Add	*1.34*	
		For 4,000 PSI Concrete, Add	*2.01*	
		For 4,500 PSI Concrete, Add	*2.68*	
		For 5,000 PSI Concrete, Add	*4.02*	
		For White Facing, Add	*13.38*	
		For Solid White Through Thickness, Add	*13.38*	
		For Broken Rib Finish, Add	*6.69*	
		For Fluted Surface, Add	*6.69*	
		For Exposed Aggregate, Add	*13.38*	
		For Sandblasting Of Surface, Add	*6.69*	
03 41 19 00-0085	SF	8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect	88.43	
		For 3,500 PSI Concrete, Add	*1.77*	
		For 4,000 PSI Concrete, Add	*2.65*	
		For 4,500 PSI Concrete, Add	*3.54*	
		For 5,000 PSI Concrete, Add	*5.31*	
		For White Facing, Add	*17.69*	
		For Solid White Through Thickness, Add	*17.69*	
		For Broken Rib Finish, Add	*8.84*	
		For Fluted Surface, Add	*8.84*	
		For Exposed Aggregate, Add	*17.69*	
		For Sandblasting Of Surface, Add	*8.84*	
03 41 19 00-0086		**Sandwich Panel** *(03 41 19)*		
03 41 19 00-0087		**Erection Costs Using 50 Ton Hydraulic Crane** *(03 41 19 00-0086)* Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0088	EA	Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	416.01	332.75
03 41 19 00-0089	EA	Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	465.33	372.24
03 41 19 00-0090	EA	Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	527.93	422.31
03 41 19 00-0091	EA	Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	564.21	451.37
03 41 19 00-0092	EA	Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	605.87	484.66
03 41 19 00-0093	EA	Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	658.94	527.12
03 41 19 00-0094	EA	Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	716.46	573.24
03 41 19 00-0095	EA	Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	791.89	633.47
03 41 19 00-0096		**Erection Costs Using 90 Ton Crawler Crane** *(03 41 19 00-0086)* Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0097	EA	Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	416.87	333.44
03 41 19 00-0098	EA	Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	466.29	373.01
03 41 19 00-0099	EA	Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	529.02	423.19
03 41 19 00-0100	EA	Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	565.38	452.30
03 41 19 00-0101	EA	Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	607.12	485.66
03 41 19 00-0102	EA	Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	660.30	528.21
03 41 19 00-0103	EA	Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	717.94	574.43
03 41 19 00-0104	EA	Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	793.52	634.78
03 41 19 00-0105	EA	Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	878.27	702.63
03 41 19 00-0106	EA	Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	994.08	795.21
03 41 19 00-0107	EA	Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	1,130.76	904.61
03 41 19 00-0108	EA	Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,311.03	1,048.78

03 41 19 00-0109 Material Cost *(03 41 19 00-0086)*

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.

03 41 19 00-0110	SF	4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	62.14
		For 3,500 PSI Concrete, Add	*1.24*
		For 4,000 PSI Concrete, Add	*1.86*
		For 4,500 PSI Concrete, Add	*2.49*
		For 5,000 PSI Concrete, Add	*3.73*
		For White Facing, Add	*12.43*
		For Solid White Through Thickness, Add	*12.43*
		For Broken Rib Finish, Add	*6.21*
		For Fluted Surface, Add	*6.21*
		For Exposed Aggregate, Add	*12.43*
		For Sandblasting Of Surface, Add	*6.21*
03 41 19 00-0111	SF	5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	73.13
		For 3,500 PSI Concrete, Add	*1.46*
		For 4,000 PSI Concrete, Add	*2.19*
		For 4,500 PSI Concrete, Add	*2.93*
		For 5,000 PSI Concrete, Add	*4.39*
		For White Facing, Add	*14.63*
		For Solid White Through Thickness, Add	*14.63*
		For Broken Rib Finish, Add	*7.31*
		For Fluted Surface, Add	*7.31*
		For Exposed Aggregate, Add	*14.63*
		For Sandblasting Of Surface, Add	*7.31*
03 41 19 00-0112	SF	6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	85.08
		For 3,500 PSI Concrete, Add	*1.70*
		For 4,000 PSI Concrete, Add	*2.55*
		For 4,500 PSI Concrete, Add	*3.40*
		For 5,000 PSI Concrete, Add	*5.10*
		For White Facing, Add	*17.02*
		For Solid White Through Thickness, Add	*17.02*
		For Broken Rib Finish, Add	*8.51*
		For Fluted Surface, Add	*8.51*
		For Exposed Aggregate, Add	*17.02*
		For Sandblasting Of Surface, Add	*8.51*
03 41 19 00-0113	SF	8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	107.55
		For 3,500 PSI Concrete, Add	*2.15*
		For 4,000 PSI Concrete, Add	*3.23*
		For 4,500 PSI Concrete, Add	*4.30*
		For 5,000 PSI Concrete, Add	*6.45*
		For White Facing, Add	*21.51*
		For Solid White Through Thickness, Add	*21.51*
		For Broken Rib Finish, Add	*10.76*
		For Fluted Surface, Add	*10.76*
		For Exposed Aggregate, Add	*21.51*
		For Sandblasting Of Surface, Add	*10.76*

03 41 23 Precast Concrete Stairs *(03 41)*

03 41 23 00-0001 Erection Costs Using A 50 Ton Hydraulic Crane *(03 41 23)*

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 23 00-0002	EA	Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane	438.23	350.52
03 41 23 00-0003	EA	Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	465.33	372.24
03 41 23 00-0004	EA	Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane	493.31	394.67
03 41 23 00-0005	EA	Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	527.93	422.31
03 41 23 00-0006	EA	Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane	564.21	451.37
03 41 23 00-0007	EA	Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	605.87	484.66
03 41 23 00-0008	EA	Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane	658.94	527.12
03 41 23 00-0009	EA	Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	716.46	573.24

03 41 23 00-0010 Erection Costs Using A 90 Ton Crawler Crane *(03 41 23)*

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 23 00-0011	EA	Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane	438.23	350.52
03 41 23 00-0012	EA	Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	465.33	372.24
03 41 23 00-0013	EA	Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane	493.31	394.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 23 00-0014	EA	Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	527.93	422.31
03 41 23 00-0015	EA	Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane	564.21	451.37
03 41 23 00-0016	EA	Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	605.87	484.66
03 41 23 00-0017	EA	Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane	658.94	527.12
03 41 23 00-0018	EA	Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	716.46	573.24

03 41 23 00-0019 Material Cost *(03 41 23)*

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast operations.

03 41 23 00-0020	EA	3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser	957.95	
		For 3,500 PSI Concrete, Add	*125.01*	
		For 4,000 PSI Concrete, Add	*234.89*	
		For 4,500 PSI Concrete, Add	*345.25*	
		For 5,000 PSI Concrete, Add	*469.68*	

03 41 26 Precast Concrete Structural Sections *(03 41)*

03 41 26 00-0001 Precast Beams, Girder And Joists *(03 41 26)*

03 41 26 00-0002 Erection Costs Using A 90 Ton Crawler Crane *(03 41 26 00-0001)*

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 26 00-0003	EA	Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane	546.65	437.38
03 41 26 00-0004	EA	Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane	585.01	467.95
03 41 26 00-0005	EA	Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane	625.23	500.19
03 41 26 00-0006	EA	Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane	671.39	537.14

03 41 26 00-0007 Erection Costs Using A 125 Ton Crawler Crane *(03 41 26 00-0001)*

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 26 00-0008	EA	Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane	685.97	548.73
03 41 26 00-0009	EA	Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane	734.11	587.33
03 41 26 00-0010	EA	Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane	784.57	627.66
03 41 26 00-0011	EA	Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane	842.49	673.95
03 41 26 00-0012	EA	Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane	916.29	733.10
03 41 26 00-0013	EA	Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane	996.28	796.97
03 41 26 00-0014	EA	Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane	1,101.16	880.92
03 41 26 00-0015	EA	Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane	1,218.76	975.07

03 41 26 00-0016 Material Cost *(03 41 26 00-0001)*

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.

03 41 26 00-0017 1,000 Lb./LF Live Load *(03 41 26 00-0016)*

03 41 26 00-0018	LF	Precast Structural Sections, 1,000 Lb./LF, 15' Span Live Load, Span, 3,000 PSI	191.56	
		For 3,500 PSI Concrete, Add	*5.23*	
		For 4,000 PSI Concrete, Add	*7.85*	
		For 4,500 PSI Concrete, Add	*10.46*	
		For 5,000 PSI Concrete, Add	*15.71*	
03 41 26 00-0019	LF	Precast Structural Sections, 1,000 Lb./LF, 20' Span Live Load, Span, 3,000 PSI	239.45	
		For 3,500 PSI Concrete, Add	*6.54*	
		For 4,000 PSI Concrete, Add	*9.82*	
		For 4,500 PSI Concrete, Add	*13.07*	
		For 5,000 PSI Concrete, Add	*19.63*	
03 41 26 00-0020	LF	Precast Structural Sections, 1,000 Lb./LF, 30' Span Live Load, Span, 3,000 PSI	287.34	
		For 3,500 PSI Concrete, Add	*7.84*	
		For 4,000 PSI Concrete, Add	*11.78*	
		For 4,500 PSI Concrete, Add	*15.69*	
		For 5,000 PSI Concrete, Add	*23.56*	

03 41 26 00-0021 3,000 Lb./LF Live Load *(03 41 26 00-0016)*

03 41 26 00-0022	LF	Precast Structural Sections, 3,000 Lb./LF, 15' Span Live Load, Span, 3,000 PSI	239.45	
		For 3,500 PSI Concrete, Add	*6.54*	
		For 4,000 PSI Concrete, Add	*9.82*	
		For 4,500 PSI Concrete, Add	*13.07*	
		For 5,000 PSI Concrete, Add	*19.63*	
03 41 26 00-0023	LF	Precast Structural Sections, 3,000 Lb./LF, 20' Span Live Load, Span, 3,000 PSI	287.34	
		For 3,500 PSI Concrete, Add	*7.84*	
		For 4,000 PSI Concrete, Add	*11.78*	
		For 4,500 PSI Concrete, Add	*15.69*	
		For 5,000 PSI Concrete, Add	*23.56*	
03 41 26 00-0024	LF	Precast Structural Sections, 3,000 Lb./LF, 30' Span Live Load, Span, 3,000 PSI	383.12	
		For 3,500 PSI Concrete, Add	*10.46*	
		For 4,000 PSI Concrete, Add	*15.71*	
		For 4,500 PSI Concrete, Add	*20.92*	
		For 5,000 PSI Concrete, Add	*31.42*	

03 41 26 00-0025 5,000 Lb./LF Live Load *(03 41 26 00-0016)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0026	LF	Precast Structural Sections, 5,000 Lb./LF, 15' Span Live Load, Span, 3,000 PSI	335.23	
		For 3,500 PSI Concrete, Add	*9.15*	
		For 4,000 PSI Concrete, Add	*13.74*	
		For 4,500 PSI Concrete, Add	*18.30*	
		For 5,000 PSI Concrete, Add	*27.49*	
03 41 26 00-0027	LF	Precast Structural Sections, 5,000 Lb./LF, 20' Span Live Load, Span, 3,000 PSI	383.12	
		For 3,500 PSI Concrete, Add	*10.46*	
		For 4,000 PSI Concrete, Add	*15.71*	
		For 4,500 PSI Concrete, Add	*20.92*	
		For 5,000 PSI Concrete, Add	*31.42*	
03 41 26 00-0028	LF	Precast Structural Sections, 5,000 Lb./LF, 30' Span Live Load, Span, 3,000 PSI	478.91	
		For 3,500 PSI Concrete, Add	*13.07*	
		For 4,000 PSI Concrete, Add	*19.64*	
		For 4,500 PSI Concrete, Add	*26.15*	
		For 5,000 PSI Concrete, Add	*39.27*	
03 41 26 00-0029		**Precast Concrete Columns** *(03 41 26)*		
03 41 26 00-0030		**Erection Costs Using A 90 Ton Crawler Crane** *(03 41 26 00-0029)*		
		Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0031	EA	Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	316.30	253.00
03 41 26 00-0032	EA	Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	336.29	268.98
03 41 26 00-0033	EA	Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	360.41	288.35
03 41 26 00-0034	EA	Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	386.59	309.26
03 41 26 00-0035	EA	Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	416.87	333.44
03 41 26 00-0036	EA	Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	452.30	361.84
03 41 26 00-0037	EA	Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	494.33	395.48
03 41 26 00-0038		**Material Cost** *(03 41 26 00-0029)*		
		Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.		
03 41 26 00-0039		**12" x 12" Column, Square, Tied** *(03 41 26 00-0038)*		
03 41 26 00-0040	CY	12" x 12" Precast Column, Tied, Average Reinforced 351 Lb./CY	991.49	
		For 3,500 PSI Concrete, Add	*74.36*	
		For 4,000 PSI Concrete, Add	*139.80*	
		For 4,500 PSI Concrete, Add	*206.23*	
		For 5,000 PSI Concrete, Add	*280.59*	
03 41 26 00-0041		**16" x 16" Column, Square, Tied** *(03 41 26 00-0038)*		
03 41 26 00-0042	CY	16" x 16" Precast Column, Tied, Average Reinforced 368 Lb./CY	1,015.97	
		For 3,500 PSI Concrete, Add	*76.20*	
		For 4,000 PSI Concrete, Add	*143.25*	
		For 4,500 PSI Concrete, Add	*211.32*	
		For 5,000 PSI Concrete, Add	*287.52*	
03 41 26 00-0043		**20" x 20" Column, Square, Tied** *(03 41 26 00-0038)*		
03 41 26 00-0044	CY	20" x 20" Precast Column, Tied, Average Reinforced 357 Lb./CY	1,017.93	
		For 3,500 PSI Concrete, Add	*76.34*	
		For 4,000 PSI Concrete, Add	*143.53*	
		For 4,500 PSI Concrete, Add	*211.73*	
		For 5,000 PSI Concrete, Add	*288.07*	
03 41 26 00-0045		**24" x 24" Column, Square, Tied** *(03 41 26 00-0038)*		
03 41 26 00-0046	CY	24" x 24" Precast Column, Tied, Average Reinforced 365 Lb./CY	1,017.93	
		For 3,500 PSI Concrete, Add	*76.34*	
		For 4,000 PSI Concrete, Add	*143.53*	
		For 4,500 PSI Concrete, Add	*211.73*	
		For 5,000 PSI Concrete, Add	*288.07*	
03 41 26 00-0047		**28" x 28" Column, Square, Tied** *(03 41 26 00-0038)*		
03 41 26 00-0048	CY	28" x 28" Precast Column, Tied, Average Reinforced 347 Lb./CY	1,017.93	
		For 3,500 PSI Concrete, Add	*76.34*	
		For 4,000 PSI Concrete, Add	*143.53*	
		For 4,500 PSI Concrete, Add	*211.73*	
		For 5,000 PSI Concrete, Add	*288.07*	
03 41 26 00-0049		**32" x 32" Column, Square, Tied** *(03 41 26 00-0038)*		
03 41 26 00-0050	CY	32" x 32" Precast Column, Tied, Average Reinforced 351 Lb./CY	1,015.97	
		For 3,500 PSI Concrete, Add	*76.20*	
		For 4,000 PSI Concrete, Add	*143.25*	
		For 4,500 PSI Concrete, Add	*211.32*	
		For 5,000 PSI Concrete, Add	*287.52*	
03 41 26 00-0051		**36" x 36" Column, Square, Tied** *(03 41 26 00-0038)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0052	CY	36" x 36" Precast Column, Tied, Average Reinforced 278 Lb./CY	1,017.93	
		For 3,500 PSI Concrete, Add	*76.34*	
		For 4,000 PSI Concrete, Add	*143.53*	
		For 4,500 PSI Concrete, Add	*211.73*	
		For 5,000 PSI Concrete, Add	*288.07*	

03 41 33 Precast Structural Pretensioned Concrete *(03 41)*

03 41 33 00-0001 Slabs, Roof And Floor Members *(03 41 33)*

03 41 33 00-0002	SF	4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor	20.20	2.59
03 41 33 00-0003	SF	6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor	25.19	2.59
03 41 33 00-0004	SF	8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor	30.18	2.72
03 41 33 00-0005	SF	10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor	35.19	2.85

03 41 33 00-0006 Tee Members *(03 41 33)*

03 41 33 00-0007 Multiple Tee, Roof And Floor *(03 41 33 00-0006)*

03 41 33 00-0008	SF	Prestressed Multiple Tee, Roof And Floor Members	45.43	3.36

03 41 33 00-0009 Double Tee Wall Member *(03 41 33 00-0006)*

03 41 33 00-0010	SF	Prestressed Double Tee Wall Members Precast Concrete, <40' Span	64.20	9.20

03 41 33 00-0011 Single Tee, Short Span, Roof Members *(03 41 33 00-0006)*

03 41 33 00-0012	SF	Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span	53.37	5.57

03 41 33 00-0013 Single Tee, Long Span, Roof Members *(03 41 33 00-0006)*

03 41 33 00-0014	SF	Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span	64.08	4.79

03 41 33 00-0015 Prestressed Concrete Items *(03 41 33)*

03 41 33 00-0016 Prestressed Quad Tee *(03 41 33 00-0015)*

03 41 33 00-0017	SF	Tees, Prestressed Quad Tee, Short Spans, Roof	32.92	1.04
03 41 33 00-0018	SF	Tees, Prestressed Quad Tee, Short Spans, Floor	34.36	1.04

03 41 33 00-0019 Prestressed Double Tee *(03 41 33 00-0015)*

03 41 33 00-0020	SF	Tees, Double Tee, Floor Members , 60' Span	54.75	0.91
03 41 33 00-0021	SF	Tees, Double Tee, Floor Members , 80' Span	75.40	0.91
03 41 33 00-0022	SF	Tees, Double Tee, Roof Members, 30' Span	37.34	1.55
03 41 33 00-0023	SF	Tees, Double Tee, Roof Members, 50' Span	57.89	1.04
03 41 33 00-0024	SF	Tees, Double Tee, Wall Members, Up To 55' High	40.46	2.07

03 41 33 00-0025 Prestressed Single Tee *(03 41 33 00-0015)*

03 41 33 00-0026	SF	Tees, Single Tee Roof Members, 40' Span	64.77	2.34
03 41 33 00-0027	SF	Tees, Single Tee Roof Members, 80' Span	75.05	1.42
03 41 33 00-0028	SF	Tees, Single Tee Roof Members, 100' Span	99.31	1.30
03 41 33 00-0029	SF	Tees, Single Tee Roof Members, 120' Span	104.58	1.30

03 41 33 00-0030 Prestressed Double Tee Floor Members *(03 41 33 00-0015)*

03 41 33 00-0031	EA	Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'	16,751.39	373.02
03 41 33 00-0032	EA	Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'	18,240.06	414.48
03 41 33 00-0033	EA	Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'	30,518.55	466.28
03 41 33 00-0034	EA	Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'	6,554.81	339.22
03 41 33 00-0035	EA	Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'	8,608.86	373.02
03 41 33 00-0036	EA	Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'	11,003.72	373.02
03 41 33 00-0037	EA	Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'	12,252.91	414.48
03 41 33 00-0038	EA	Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'	15,670.41	466.28
03 41 33 00-0039	EA	Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'	28,207.26	533.12

03 41 33 00-0040 Prestressed Double Tee Roof Members *(03 41 33 00-0015)*

03 41 33 00-0041	EA	Tees, Double Tees, Roof Members, Lightweight, 20" X 8' Wide, 45'	13,159.09	373.02
03 41 33 00-0042	EA	Tees, Double Tees, Roof Members, Lightweight, 24" X 8' Wide, 50'	17,282.12	414.48
03 41 33 00-0043	EA	Tees, Double Tees, Roof Members, Lightweight, 32" X 10' Wide, 60'	28,363.17	466.28
03 41 33 00-0044	EA	Tees, Double Tees, Roof Members, Standard Weight, 12" X 8' Wide, 30'	8,805.98	339.22
03 41 33 00-0045	EA	Tees, Double Tees, Roof Members, Standard Weight, 16" X 8' Wide, 30'	9,279.42	373.02
03 41 33 00-0046	EA	Tees, Double Tees, Roof Members, Standard Weight, 18" X 8' Wide, 30'	10,285.26	373.02
03 41 33 00-0047	EA	Tees, Double Tees, Roof Members, Standard Weight, 20" X 8' Wide, 40'	10,576.51	414.48
03 41 33 00-0048	EA	Tees, Double Tees, Roof Members, Standard Weight, 24" X 8' Wide, 50'	13,994.00	466.28
03 41 33 00-0049	EA	Tees, Double Tees, Roof Members, Standard Weight, 32" X 10' Wide, 60'	24,136.00	533.12

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0050		**Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab** *(03 41 33)*		
03 41 33 00-0051	SF	Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete	34.78	
03 41 33 00-0052	SF	Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete	36.22	
03 41 33 00-0053	SF	Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete	37.90	
03 41 33 00-0054	SF	Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete	39.14	
03 41 33 00-0055	SF	Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete	41.82	
03 41 33 00-0056		**Double And Single Tees** *(03 41 33)*		
03 41 33 00-0057		**Double And Single Tees With 16" Roof And Floor Loading** *(03 41 33 00-0056)*		
03 41 33 00-0058	SF	Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	42.03	
03 41 33 00-0059	SF	Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	41.04	
03 41 33 00-0060	SF	Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	38.76	
03 41 33 00-0061	SF	Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	42.03	
03 41 33 00-0062	SF	Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	41.90	
03 41 33 00-0063	SF	Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	64.45	
03 41 33 00-0064	SF	Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	63.02	
03 41 33 00-0065	SF	Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	59.02	
03 41 33 00-0066	SF	Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	64.45	
03 41 33 00-0067	SF	Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	60.44	
03 41 33 00-0068		**Double And Single Tees With 24" Roof And Floor Loading** *(03 41 33 00-0056)*		
03 41 33 00-0069	SF	Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	43.32	
03 41 33 00-0070	SF	Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	42.33	
03 41 33 00-0071	SF	Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	40.92	
03 41 33 00-0072	SF	Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	43.32	
03 41 33 00-0073	SF	Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	41.90	
03 41 33 00-0074	SF	Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	66.17	
03 41 33 00-0075	SF	Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	64.75	
03 41 33 00-0076	SF	Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	62.47	
03 41 33 00-0077	SF	Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	66.17	
03 41 33 00-0078	SF	Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	64.32	
03 41 33 00-0079		**Double And Single Tees With 32" Roof And Floor Loading** *(03 41 33 00-0056)*		
03 41 33 00-0080	SF	Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	45.66	
03 41 33 00-0081	SF	Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	44.22	
03 41 33 00-0082	SF	Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	42.79	
03 41 33 00-0083	SF	Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	70.23	
03 41 33 00-0084	SF	Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	67.92	
03 41 33 00-0085	SF	Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	65.21	

03 48 Precast Concrete Specialties *(03 40)*

03 48 16 Precast Concrete Splash Blocks *(03 48)*

03 48 16 00-0001		**Precast Concrete Splash Blocks** *(03 48 16)*		
03 48 16 00-0002	EA	Precast Concrete Splash Blocks, 20" x 12" x 3"	44.34	4.31

03 48 21 Precast Concrete Handrails *(03 48)*

03 48 21 00-0001		**Installation Cost** *(03 48 21)*		
		Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.		
03 48 21 00-0002	EA	Install Precast Handrails, 0-2 Ton/Handrail	178.46	80.34
03 48 21 00-0003	EA	Install Precast Handrails, Over 2 Ton/Handrail	214.03	96.28
03 48 21 00-0004		**Material Cost** *(03 48 21)*		
		Note: Includes 3000 PSI concrete, imbedded items, formwork and precast operations.		
03 48 21 00-0005	CY	4" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,784.01	
		For 3,500 PSI Concrete, Add	*246.91*	
		For 4,000 PSI Concrete, Add	*463.92*	
		For 4,500 PSI Concrete, Add	*681.88*	
		For 5,000 PSI Concrete, Add	*927.65*	
03 48 21 00-0006	CY	5" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,927.70	
		For 3,500 PSI Concrete, Add	*256.28*	
		For 4,000 PSI Concrete, Add	*481.54*	
		For 4,500 PSI Concrete, Add	*707.77*	
		For 5,000 PSI Concrete, Add	*962.88*	
03 48 21 00-0007	CY	6" Thick 3,000 PSI Concrete Precast Concrete Handrail	4,071.40	
		For 3,500 PSI Concrete, Add	*265.66*	
		For 4,000 PSI Concrete, Add	*499.15*	
		For 4,500 PSI Concrete, Add	*733.67*	
		For 5,000 PSI Concrete, Add	*998.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 21 00-0008	CY	8" Thick 3,000 PSI Concrete Precast Concrete Handrail	4,262.99	
		For 3,500 PSI Concrete, Add	*278.16*	
		For 4,000 PSI Concrete, Add	*522.64*	
		For 4,500 PSI Concrete, Add	*768.19*	
		For 5,000 PSI Concrete, Add	*1,045.07*	

03 48 22 Precast Concrete Sun Screen and Trellis *(03 48)*

03 48 22 00-0001 Sun Screen Blades *(03 48 22)*

03 48 22 00-0002 Installation Cost *(03 48 22 00-0001)*

Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.

03 48 22 00-0003	EA	Install Precast Sun Screen Blade, 0-1 Ton/Each	89.22	40.17
03 48 22 00-0004	EA	Install Precast Sun Screen Blade, 1-2 Ton/Each	107.20	48.21
03 48 22 00-0005	EA	Install Precast Sun Screen Blade, 2-3 Ton/Each	133.94	60.32

03 48 22 00-0006 Material Cost *(03 48 22 00-0001)*

Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.

03 48 22 00-0007	CY	4" Thick 3,000 PSI Concrete Precast Sun Screen Blades	4,023.50
		For 3,500 PSI Concrete, Add	*262.53*
		For 4,000 PSI Concrete, Add	*493.28*
		For 4,500 PSI Concrete, Add	*725.03*
		For 5,000 PSI Concrete, Add	*986.36*
03 48 22 00-0008	CY	5" Thick 3,000 PSI Concrete Precast Sun Screen Blades	4,167.19
		For 3,500 PSI Concrete, Add	*271.91*
		For 4,000 PSI Concrete, Add	*510.90*
		For 4,500 PSI Concrete, Add	*750.93*
		For 5,000 PSI Concrete, Add	*1,021.59*
03 48 22 00-0009	CY	6" Thick 3,000 PSI Concrete Precast Sun Screen Blades	4,358.79
		For 3,500 PSI Concrete, Add	*284.41*
		For 4,000 PSI Concrete, Add	*534.39*
		For 4,500 PSI Concrete, Add	*785.45*
		For 5,000 PSI Concrete, Add	*1,068.56*
03 48 22 00-0010	CY	8" Thick 3,000 PSI Concrete Precast Sun Screen Blades	4,550.39
		For 3,500 PSI Concrete, Add	*296.91*
		For 4,000 PSI Concrete, Add	*557.88*
		For 4,500 PSI Concrete, Add	*819.98*
		For 5,000 PSI Concrete, Add	*1,115.53*

03 48 22 00-0011 Sun Screen/Trellis Units *(03 48 22)*

03 48 22 00-0012 Installation Cost Using A 50 Ton Hydraulic Crane *(03 48 22 00-0011)*

Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.

03 48 22 00-0013	EA	Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane	416.01	187.18
03 48 22 00-0014	EA	Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane	465.33	209.47
03 48 22 00-0015	EA	Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane	527.93	237.53
03 48 22 00-0016	EA	Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane	564.21	253.90

03 48 22 00-0017 Material Cost *(03 48 22 00-0011)*

Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.

03 48 22 00-0018	CY	4" Thick 3,000 PSI Concrete Precast Trellises Blades	4,646.18
		For 3,500 PSI Concrete, Add	*303.16*
		For 4,000 PSI Concrete, Add	*569.62*
		For 4,500 PSI Concrete, Add	*837.24*
		For 5,000 PSI Concrete, Add	*1,139.01*
03 48 22 00-0019	CY	5" Thick 3,000 PSI Concrete Precast Trellises Blades	4,789.88
		For 3,500 PSI Concrete, Add	*312.54*
		For 4,000 PSI Concrete, Add	*587.24*
		For 4,500 PSI Concrete, Add	*863.14*
		For 5,000 PSI Concrete, Add	*1,174.24*
03 48 22 00-0020	CY	6" Thick 3,000 PSI Concrete Precast Trellises Blades	4,981.48
		For 3,500 PSI Concrete, Add	*325.04*
		For 4,000 PSI Concrete, Add	*610.73*
		For 4,500 PSI Concrete, Add	*897.66*
		For 5,000 PSI Concrete, Add	*1,221.21*
03 48 22 00-0021	CY	8" Thick 3,000 PSI Concrete Precast Trellises Blades	5,220.97
		For 3,500 PSI Concrete, Add	*340.67*
		For 4,000 PSI Concrete, Add	*640.09*
		For 4,500 PSI Concrete, Add	*940.82*
		For 5,000 PSI Concrete, Add	*1,279.92*

03 48 24 Precast Minaret Segments *(03 48)*

03 48 24 00-0001 Installation Costs Using A 50 Ton Hydraulic Crane *(03 48 24)*

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.

03 48 24 00-0002 L - Shaped Segments *(03 48 24 00-0001)*

03 48 24 00-0003	EA	Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	404.82	323.86
03 48 24 00-0004	EA	Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	453.64	362.93
03 48 24 00-0005	EA	Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	512.93	410.32
03 48 24 00-0006	EA	Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	547.12	437.69

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 24 00-0007		**O - Shaped Segments** *(03 48 24 00-0001)*		
03 48 24 00-0008	EA	Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	427.84	342.34
03 48 24 00-0009	EA	Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	480.18	384.09
03 48 24 00-0010	EA	Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	543.82	435.01
03 48 24 00-0011	EA	Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	582.42	465.90
03 48 24 00-0012		**Platform Segment** *(03 48 24 00-0001)*		
03 48 24 00-0013	EA	Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	820.68	656.60
03 48 24 00-0014	EA	Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	992.03	793.57
03 48 24 00-0015	EA	Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	1,100.91	880.74
03 48 24 00-0016	EA	Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	1,236.64	989.35
03 48 24 00-0017		**Cap Segment** *(03 48 24 00-0001)*		
03 48 24 00-0018	EA	Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	449.13	359.26
03 48 24 00-0019	EA	Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	501.53	401.16
03 48 24 00-0020	EA	Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	571.36	457.02
03 48 24 00-0021	EA	Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	609.97	487.91
03 48 24 00-0022		**Installation Costs Using A 90 Ton Crawler Crane** *(03 48 24)*		
		Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023		**L - Shaped Segments** *(03 48 24 00-0022)*		
03 48 24 00-0024	EA	Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	405.66	324.53
03 48 24 00-0025	EA	Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	454.58	363.68
03 48 24 00-0026	EA	Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	513.99	411.17
03 48 24 00-0027	EA	Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	548.25	438.60
03 48 24 00-0028		**O - Shaped Segment** *(03 48 24 00-0022)*		
03 48 24 00-0029	EA	Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	428.73	343.05
03 48 24 00-0030	EA	Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	481.17	384.89
03 48 24 00-0031	EA	Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	544.94	435.91
03 48 24 00-0032	EA	Install Minaret, O-Shaped Segments, 5-7 Ton/Each 795' Maximum Radius With 90 Ton Crane	583.62	466.86
03 48 24 00-0033		**Platform Segment** *(03 48 24 00-0022)*		
03 48 24 00-0034	EA	Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	655.52	524.40
03 48 24 00-0035	EA	Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	793.52	634.78
03 48 24 00-0036	EA	Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	878.27	702.63
03 48 24 00-0037	EA	Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	994.08	795.21
03 48 24 00-0038		**Cap Segment** *(03 48 24 00-0022)*		
03 48 24 00-0039	EA	Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	450.06	360.00
03 48 24 00-0040	EA	Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	502.56	401.99
03 48 24 00-0041	EA	Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	572.54	457.96
03 48 24 00-0042	EA	Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	611.23	488.92
03 48 24 00-0043		**Material Costs** *(03 48 24)*		
		Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044	CY	Precast Concrete Minaret, L-Shaped Segments, 3,000 PSI Concrete Note: Including Post Tension Cost	11,495.07	
03 48 24 00-0045	CY	Precast Concrete Minaret, O-Shaped Segments, 3,000 PSI Concrete Note: Including Post Tension Cost	11,495.07	
03 48 24 00-0046	CY	Precast Concrete Minaret, Platform Segments, 3,000 PSI Concrete Note: Including Post Tension Cost	11,495.07	
03 48 24 00-0047	CY	Precast Concrete Minaret, Cap Segments, 3,000 PSI Concrete Note: Including Post Tension Cost	11,495.07	
03 48 29		**Precast Accessories** *(03 48)*		
		Note: Includes installation labor, material and equipment.		
03 48 29 00-0001		**Bearing Pads For Precast Members** *(03 48 29)*		
03 48 29 00-0002		**Continuous 2" Wide Strips** *(03 48 29 00-0001)*		
03 48 29 00-0003	LF	Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips Note: For precast members	1.39	
03 48 29 00-0004	LF	Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips Note: For precast members.	1.91	
03 48 29 00-0005	LF	Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips Note: For precast members	3.05	
03 48 29 00-0006	LF	Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips Note: For precast members	4.22	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 29 00-0007	LF	Bearing Pads, Continuous 2" Wide x 1" Thick Strips Note: For precast members	5.45	
03 48 29 00-0008	LF	Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips Note: For precast members	7.77	
03 48 29 00-0009		Bearing Pad Pipe Supports *(03 48 29)*		
03 48 29 00-0010	LF	8" Diameter Precast Balustrade, Decorative Shapes	96.29	
03 48 29 00-0011	LF	Precast Rail Cap, <1 SF Cross Section	61.74	
03 48 29 00-0012	LF	4" x 4" Precast Pipe Support	16.30	
03 48 46		**Precast Skylight Shells** *(03 48)*		
03 48 46 00-0001		Installation Cost Using A 90 Ton Crawler Crane *(03 48 46)* Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 46 00-0002	EA	Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane	585.01	263.29
03 48 46 00-0003	EA	Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane	649.59	292.33
03 48 46 00-0004	EA	Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane	730.20	328.60
03 48 46 00-0005		Material Cost *(03 48 46)* Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 46 00-0006	CY	3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius	4,809.17	
03 48 49		**Precast Landings** *(03 48)*		
03 48 49 00-0001	SF	3" Thick Precast Landing	118.24	
03 48 49 00-0002	SF	4" Thick Precast Landing	137.97	
03 48 49 00-0003	SF	5" Thick Precast Landing	156.60	
03 48 49 00-0004	SF	6" Thick Precast Landing	180.50	
03 48 54		**Precast Concrete Blocks** *(03 48)*		
03 48 54 00-0001		Precast Interlocking Concrete Blocks *(03 48 54)* Note: Includes lifting loop		
03 48 54 00-0002	EA	2' x 2' x 2' Precast Interlocking Concrete (Ecology) Block	158.90	47.49
03 48 54 00-0003	EA	2' x 2' x 3' Precast Interlocking Concrete (Ecology) Block	189.90	53.42
03 48 54 00-0004	EA	2' x 2' x 4' Precast Interlocking Concrete (Ecology) Block	220.89	59.36
03 48 54 00-0005	EA	2' x 2' x 6' Precast Interlocking Concrete (Ecology) Block	299.03	65.30
03 48 54 00-0006	EA	2' x 2' x 8' Precast Interlocking Concrete (Ecology) Block	359.36	71.23

03 50 Cast Decks and Underlayment *(03)*

03 51 Cast Roof Decks *(03 50)*

03 51 13 Cementitious Wood Fiber Decks *(03 51)*

03 51 13 00-0001		Cement Fiber Tongue And Groove Planks *(03 51 13)*		
03 51 13 00-0002	SF	1" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.26	
03 51 13 00-0003	SF	1-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.42	
03 51 13 00-0004	SF	2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.63	
03 51 13 00-0005	SF	2-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	5.19	
03 51 13 00-0006	SF	3" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	5.82	
03 51 13 00-0007	SF	3-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	6.54	
03 51 13 00-0008	SF	4" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	7.41	

03 51 16 Gypsum Concrete Roof Decks *(03 51)*

03 51 16 00-0001		Class A Gypsum Fill Concrete Deck *(03 51 16)*		
03 51 16 00-0002	SF	2" Thick Precast Gypsum Fill Concrete Deck, Class A	13.23	0.65
03 51 16 00-0003	SF	2-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A	16.41	0.75
03 51 16 00-0004	SF	3" Thick Precast Gypsum Fill Concrete Deck, Class A	19.59	0.86
03 51 16 00-0005	SF	3-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A	22.81	0.96
03 51 16 00-0006	SF	4" Thick Precast Gypsum Fill Concrete Deck, Class A	26.06	1.08
03 51 16 00-0007		Form Board For Lightweight Deck *(03 51 16)*		
03 51 16 00-0008	SF	Gypsum Deck Form Board, 1/2" Drywall For Lightweight Deck	2.72	
03 51 16 00-0009	SF	Gypsum Deck Form Board, 1" Mineral Fiber Board For Lightweight Deck	3.62	
03 51 16 00-0010	SF	Gypsum Deck Form Board, 1-1/2" Mineral Fiber Board For Lightweight Deck	7.46	
03 51 16 00-0011	SF	Gypsum Deck Form Board, 1" Cementitious Fiber Board For Lightweight Deck	3.01	0.72
03 51 16 00-0012	SF	Gypsum Deck Form Board, 1-1/2" Cementitious Fiber Board For Lightweight Deck	3.65	0.72
03 51 16 00-0013	SF	Gypsum Deck Form Board, 1" Glass Fiber Board For Lightweight Deck	4.05	0.72
03 51 16 00-0014	SF	Gypsum Deck Form Board, 1-1/2" Glass Fiber Board For Lightweight Deck	5.01	0.72
03 51 16 00-0015		Gypsum Plank *(03 51 16)*		

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 51 16 00-0016	SF	2" Thick, Insulating Concrete Gypsum Plank, Roof Deck	4.29	
03 51 16 00-0017	SF	3" Thick, Insulating Concrete Gypsum Plank, Roof Deck	5.59	

03 53 Concrete Topping *(03 50)*

Note: Installed over new or existing concrete.

03 53 14 Granolithic Concrete Topping *(03 53)*

03 53 14 00-0001 Granolithic Topping Laid After *(03 53 14)*

Note: Using 1:1:1-1/2 mix.

03 53 14 00-0002	SF	1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.90
03 53 14 00-0003	SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	5.27
03 53 14 00-0004	SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	6.56

03 53 19 Concrete Overlayment *(03 53)*

03 53 19 00-0001 Integral Topping Including Hard Trowel Finish *(03 53 19)*

Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.90
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.24
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.78
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.46
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	6.28
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.30
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.91

03 54 Cast Underlayment *(03 50)*

Note: Includes primer. Excludes sandblasting existing smooth finished concrete surface (where necessary).

03 54 16 Hydraulic Cement Underlayment *(03 54)*

03 54 16 00-0001 Self Leveling Cementitious Underlayment For Floors *(03 54 16)*

Note: Includes primer.

03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors	2.02
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.17*
		For >100 To 250 SF, Add	*0.08*
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors	3.48
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.17*
		For >100 To 250 SF, Add	*0.08*
03 54 16 00-0004	SF	3/8" Thick Self Leveling Cementitious Underlayment For Floors	4.93
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.17*
		For >100 To 250 SF, Add	*0.08*
03 54 16 00-0005	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors	6.39
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.17*
		For >100 To 250 SF, Add	*0.08*
03 54 16 00-0006	SF	5/8" Thick Self Leveling Cementitious Underlayment For Floors	7.85
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.17*
		For >100 To 250 SF, Add	*0.08*
03 54 16 00-0007	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors	9.35
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.19*
		For >100 To 250 SF, Add	*0.10*
03 54 16 00-0008	SF	1" Thick Self Leveling Cementitious Underlayment For Floors	12.27
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.19*
		For >100 To 250 SF, Add	*0.10*
03 54 16 00-0009	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors	15.23
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.22*
		For >100 To 250 SF, Add	*0.11*
03 54 16 00-0010	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors	18.14
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.22*
		For >100 To 250 SF, Add	*0.11*
03 54 16 00-0011	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors	21.17
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	*0.27*
		For >100 To 250 SF, Add	*0.14*

03 60 Grouting *(03)*

03 61 Cementitious Grouting *(03 60)*

Note: 1 part cement to 3 parts sand by volume.

03 61 16 Cementitious Flowable Grout *(03 61)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 61 16 00-0001		Cementitious Flowable Grout *(03 61 16)*		
03 61 16 00-0002	CY	Cementitious Flowable Grout	496.44	

03 62 Non-Shrink Grouting *(03 60)*

03 62 13 Non-Metallic Non-Shrink Grouting *(03 62)*

03 62 13 00-0001		Fluid Type, Non-Metallic Non-Shrink Grouting For Bases *(03 62 13)*		
03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	30.16	
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	44.42	
03 62 13 00-0004		Non-Metallic Non-Shrink Grouting For Bases *(03 62 13)*		
03 62 13 00-0005	SF	1" Deep, Non-Metallic Non-Shrink Grout For Bases	44.65	
03 62 13 00-0006	SF	2" Deep, Non-Metallic Non-Shrink Grout For Bases	70.76	
03 62 13 00-0007		Non-Metallic Non-Shrink Grouting For Joints *(03 62 13)*		
03 62 13 00-0008		1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints *(03 62 13 00-0007)*		
03 62 13 00-0009	LF	4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.33	
03 62 13 00-0010	LF	6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	3.04	
03 62 13 00-0011	LF	8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	4.03	
03 62 13 00-0012		1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints *(03 62 13 00-0007)*		
03 62 13 00-0013	LF	4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.42	
03 62 13 00-0014	LF	6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	4.52	
03 62 13 00-0015	LF	8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	6.01	

03 62 16 Metallic Non-Shrink Grouting *(03 62)*

03 62 16 00-0001		Metallic Non-Shrink Grouting For Bases *(03 62 16)*		
03 62 16 00-0002	SF	1" Deep, Metallic Non-Shrink Grout For Bases	38.42	
03 62 16 00-0003	SF	2" Deep, Metallic Non-Shrink Grout For Bases	58.68	
03 62 16 00-0004		Metallic Non-Shrink Grouting For Joints *(03 62 16)*		
03 62 16 00-0005		1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints *(03 62 16 00-0004)*		
03 62 16 00-0006	LF	4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	1.94	
03 62 16 00-0007	LF	6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.45	
03 62 16 00-0008	LF	8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	3.27	
03 62 16 00-0009		1" Joint Thickness, Metallic Non-Shrink Grout For Joints *(03 62 16 00-0004)*		
03 62 16 00-0010	LF	4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.66	
03 62 16 00-0011	LF	6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	3.34	
03 62 16 00-0012	LF	8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	4.46	

03 63 Epoxy Grouting *(03 60)*

03 63 00 00-0001		Spray On Concrete Epoxy Grout *(03 63)*		
		Note: (Sika 224) per thickness per coat.		
03 63 00 00-0002	SF	1/4" Thick Coat Spray On Concrete Epoxy Grout	4.47	
		For Color, Add	*1.16*	
03 63 00 00-0003	SF	3/8" Thick Coat Spray On Concrete Epoxy Grout	6.18	
		For Color, Add	*1.74*	
03 63 00 00-0004	SF	1/2" Thick Coat Spray On Concrete Epoxy Grout	7.91	
		For Color, Add	*2.33*	
03 63 00 00-0005	SF	5/8" Thick Coat Spray On Concrete Epoxy Grout	9.47	
		For Color, Add	*2.91*	
03 63 00 00-0006	SF	3/4" Thick Coat Spray On Concrete Epoxy Grout	11.04	
		For Color, Add	*3.50*	
03 63 00 00-0007	SF	1" Thick Coat Spray On Concrete Epoxy Grout	14.30	
		For Color, Add	*4.67*	

03 64 Injection Grouting *(03 60)*

Note: By volume of void filled. Includes injection ports.

03 64 23 Epoxy Injection Grouting *(03 64)*

03 64 23 00-0001		Pressure Injected Epoxy Grout *(03 64 23)*		
03 64 23 00-0002	CF	Pressure Injected Epoxy Grout	1,413.56	
		For >4, Deduct	*-149.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 64 26		**Cementitious Injection Grouting** *(03 64)*		
03 64 26 00-0001		Pressure Injected Cementitious Grout *(03 64 26)*		
03 64 26 00-0002	CF	Pressure Injected Cementitious Grout	248.54	
		For >4, Deduct	*-64.09*	
03 65		**Rail Grout** *(03 60)*		
03 65 00 00-0001	CF	Rail Grout, 70A With A 19% Kiln Dried Sand	684.98	
		Note: "440" rail grout by Preformed Line Products Company		
		For Up To 20, Ad	*151.60*	
		For From 20 To 50, Add	*41.55*	

03 80 Concrete Cutting and Boring *(03)*

03 81 Concrete Cutting *(03 80)*

03 81 13 Flat Concrete Sawing *(03 81)*

See CSI section 02 41 19 13-0057 for saw cutting.

03 81 16 Track Mounted Concrete Wall Sawing *(03 81)*

See CSI section 02 41 19 13-0057 for saw cutting.

03 82 Concrete Boring *(03 80)*

03 82 13 Concrete Core Drilling *(03 82)*

See CSI section 02 41 19 13-0080 for core drilling.

END OF SECTION 03

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CSI	UOM	MINOR DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

04 Masonry

04 01 Maintenance of Masonry *(04)*

04 01 20 Maintenance of Unit Masonry *(04 01)*

Note: For use on existing brick. Includes cleanup of debris. Excludes disposal.

04 01 20 41 Unit Masonry Stabilization *(04 01 20)*

04 01 20 41-0001 Masonry Repair (Helifix®) *(04 01 20 41)*

04 01 20 41-0002 Grouted Ties For Stabilizing Solid Masonry (Helifix® CemTie) *(04 01 20 41-0001)*
Note: Austenitic stainless steel. For stabilizing solid masonry. Includes drilling, cementitious grout and patching surface.

04 01 20 41-0003 304 Stainless Steel Helical Pin, Grouted Ties For Stabilizing Solid Masonry (Helifix® CemTie) *(04 01 20 41-0002)*

04 01 20 41-0004	EA	8mm Diameter, 350mm Length, 304 Stainless Steel Helical Pin, Grouted Tie For Stabilizing Solid Masonry (Helifix® CemTie)		26.45	
		For Up To 10, Add		*11.29*	
		For >10 To 50, Add		*5.65*	
04 01 20 41-0005	EA	8mm Diameter, 600mm Length, 304 Stainless Steel Helical Pin, Grouted Tie For Stabilizing Solid Masonry (Helifix® CemTie)		38.40	
		For Up To 10, Add		*11.29*	
		For >10 To 50, Add		*5.65*	
04 01 20 41-0006	EA	8mm Diameter, 900mm Length, 304 Stainless Steel Helical Pin, Grouted Tie For Stabilizing Solid Masonry (Helifix® CemTie)		51.37	
		For Up To 10, Add		*11.29*	
		For >10 To 50, Add		*5.65*	

04 01 20 41-0007 316 Stainless Steel Helical Pin, Grouted Ties For Stabilizing Solid Masonry (Helifix® CemTie) *(04 01 20 41-0002)*

04 01 20 41-0008	EA	8mm Diameter, 350mm Length, 316 Stainless Steel Helical Pin, Grouted Tie For Stabilizing Solid Masonry (Helifix® CemTie)		29.04	
		For Up To 10, Add		*11.29*	
		For >10 To 50, Add		*5.65*	
04 01 20 41-0009	EA	8mm Diameter, 600mm Length, 316 Stainless Steel Helical Pin, Grouted Tie For Stabilizing Solid Masonry (Helifix® CemTie)		43.00	
		For Up To 10, Add		*11.29*	
		For >10 To 50, Add		*5.65*	
04 01 20 41-0010	EA	8mm Diameter, 900mm Length, 316 Stainless Steel Helical Pin, Grouted Tie For Stabilizing Solid Masonry (Helifix® CemTie)		58.27	
		For Up To 10, Add		*11.29*	
		For >10 To 50, Add		*5.65*	

04 01 20 41-0011 Ties For Stitching Masonry Cracks (Helifix® Helibar) *(04 01 20 41-0001)*
Note: Austenitic stainless steel. For stabilizing cracked masonry. Includes removing horizontal mortar and re-pointing mortar bed. Includes cementitious grout. Excludes repairing vertical crack.

04 01 20 41-0012 304 Stainless Steel Helical Pin, Ties For Stitching Masonry Cracks (Helifix® Helibar) *(04 01 20 41-0011)*

04 01 20 41-0013	EA	4.5mm Diameter, 1m Length, 304 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)		69.95	
		For Up To 10, Add		*45.17*	
		For >10 To 50, Add		*22.59*	
04 01 20 41-0014	EA	4.5mm Diameter, 1.2m Length, 304 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)		76.74	
		For Up To 10, Add		*45.17*	
		For >10 To 50, Add		*22.59*	
04 01 20 41-0015	EA	4.5mm Diameter, 7m Length, 304 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)		234.22	
		For Up To 10, Add		*45.17*	
		For >10 To 50, Add		*22.59*	
04 01 20 41-0016	EA	6mm Diameter, 1m Length, 304 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)		69.95	
		For Up To 10, Add		*45.17*	
		For >10 To 50, Add		*22.59*	
04 01 20 41-0017	EA	6mm Diameter, 1.2m Length, 304 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)		76.74	
		For Up To 10, Add		*45.17*	
		For >10 To 50, Add		*22.59*	
04 01 20 41-0018	EA	6mm Diameter, 1.5m Length, 304 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)		84.46	
		For Up To 10, Add		*45.17*	
		For >10 To 50, Add		*22.59*	
04 01 20 41-0019	EA	6mm Diameter, 2m Length, 304 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)		98.97	
		For Up To 10, Add		*45.17*	
		For >10 To 50, Add		*22.59*	
04 01 20 41-0020	EA	6mm Diameter, 7m Length, 304 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)		234.22	
		For Up To 10, Add		*45.17*	
		For >10 To 50, Add		*22.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 01 20 41-0021		316 Stainless Steel Helical Pin, Ties For Stitching Masonry Cracks (Helifix® Helibar) *(04 01 20 41-0011)*		
04 01 20 41-0022	EA	4.5mm Diameter, 1m Length, 316 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)	73.65	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0023	EA	4.5mm Diameter, 1.2m Length, 316 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)	81.67	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0024	EA	4.5mm Diameter, 7m Length, 316 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)	265.01	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0025	EA	6mm Diameter, 1m Length, 316 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)	73.65	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0026	EA	6mm Diameter, 1.2m Length, 316 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)	81.67	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0027	EA	6mm Diameter, 1.5m Length, 316 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)	90.62	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0028	EA	6mm Diameter, 2m Length, 316 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)	107.60	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0029	EA	6mm Diameter, 7m Length, 316 Stainless Steel Helical Pin, Tie For Stitching Masonry Cracks (Helifix® Helibar)	265.01	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0030		Mechanical Repair Anchors (Helifix® TorkFix) *(04 01 20 41-0001)*		
		Note: Austenitic stainless steel. For stabilizing masonry veneer walls to inner wythes of brick, concrete block, wood studs or steel studs. Includes drilling and patching surface.		
04 01 20 41-0031		304 Stainless Steel, Mechanical Repair Anchors (Helifix® TorkFix) *(04 01 20 41-0030)*		
04 01 20 41-0032	EA	4-1/2" Length, Brick To Brick/Concrete Block, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	13.30	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0033	EA	5-1/2" Length, Brick To Brick/Concrete Block, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	14.52	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0034	EA	6-1/2" Length, Brick To Brick/Concrete Block, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	15.74	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0035	EA	7-1/2" Length, Brick To Brick/Concrete Block, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	16.95	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0036	EA	8-1/2" Length, Brick To Brick/Concrete Block, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	18.17	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0037	EA	9-1/2" Length, Brick To Brick/Concrete Block, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	19.39	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0038	EA	4-1/2" Length, Brick To Wood Frame/Steel Stud, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	13.30	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0039	EA	5-1/2" Length, Brick To Wood Frame/Steel Stud, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	14.52	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0040	EA	6-1/2" Length, Brick To Wood Frame/Steel Stud, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	15.74	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0041	EA	7-1/2" Length, Brick To Wood Frame/Steel Stud, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	16.95	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0042	EA	8-1/2" Length, Brick To Wood Frame/Steel Stud, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	18.17	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0043	EA	10-1/2" Length, Brick To Wood Frame/Steel Stud, 304 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	20.60	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0044	EA	4-1/2" Length, 304 Stainless Steel, Veneer Panel Anchor (Helifix® TorkFix)	13.30	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0045	EA	6-1/2" Length, 304 Stainless Steel, Veneer Panel Anchor (Helifix® TorkFix)	15.74	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0046	EA	8" Length, 304 Stainless Steel, Veneer Panel Anchor (Helifix® TorkFix)	17.56	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 01 20 41-0047		316 Stainless Steel, Mechanical Repair Anchors (Helifix® TorkFix) *(04 01 20 41-0030)*		
04 01 20 41-0048	EA	4-1/2" Length, Brick To Brick/Concrete Block, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	13.30	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0049	EA	5-1/2" Length, Brick To Brick/Concrete Block, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	14.52	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0050	EA	6-1/2" Length, Brick To Brick/Concrete Block, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	15.74	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0051	EA	7-1/2" Length, Brick To Brick/Concrete Block, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	16.95	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0052	EA	8-1/2" Length, Brick To Brick/Concrete Block, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	18.17	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0053	EA	9-1/2" Length, Brick To Brick/Concrete Block, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	19.39	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0054	EA	4-1/2" Length, Brick To Wood Frame/Steel Stud, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	13.30	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0055	EA	5-1/2" Length, Brick To Wood Frame/Steel Stud, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	14.52	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0056	EA	6-1/2" Length, Brick To Wood Frame/Steel Stud, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	15.74	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0057	EA	7-1/2" Length, Brick To Wood Frame/Steel Stud, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	16.95	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0058	EA	8-1/2" Length, Brick To Wood Frame/Steel Stud, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	18.17	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0059	EA	10-1/2" Length, Brick To Wood Frame/Steel Stud, 316 Stainless Steel, Mechanical Repair Anchor (Helifix® TorkFix)	20.60	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0060	EA	4-1/2" Length, 316 Stainless Steel, Veneer Panel Anchor (Helifix® TorkFix)	13.30	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0061	EA	6-1/2" Length, 316 Stainless Steel, Veneer Panel Anchor (Helifix® TorkFix)	15.74	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0062	EA	8" Length, 316 Stainless Steel, Veneer Panel Anchor (Helifix® TorkFix)	17.56	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0063		Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®) *(04 01 20 41-0001)*		
		Note: Austenitic stainless steel. For pinning stucco, terracotta, granite, marble, etc., to concrete block, brick or solid concrete. Includes drilling and patching surface.		
04 01 20 41-0064		304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®) *(04 01 20 41-0063)*		
04 01 20 41-0065	EA	8mm Diameter, 115mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	10.44	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0066	EA	8mm Diameter, 155mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	10.88	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0067	EA	8mm Diameter, 170mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	10.97	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0068	EA	8mm Diameter, 195mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.15	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 01 20 41-0069	EA	8mm Diameter, 220mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.46	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0070	EA	8mm Diameter, 245mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.73	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0071	EA	8mm Diameter, 270mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.87	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0072	EA	8mm Diameter, 295mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.04	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0073	EA	8mm Diameter, 325mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.82	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0074	EA	8mm Diameter, 350mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.92	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0075	EA	8mm Diameter, 400mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	13.86	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0076	EA	8mm Diameter, 450mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	14.65	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0077	EA	8mm Diameter, 500mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	15.33	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0078	EA	8mm Diameter, 550mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	17.72	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0079	EA	8mm Diameter, 600mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	19.84	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0080	EA	8mm Diameter, 700mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	22.66	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0081	EA	10mm Diameter, 125mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	10.59	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0082	EA	10mm Diameter, 155mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.06	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0083	EA	10mm Diameter, 170mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.49	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0084	EA	10mm Diameter, 195mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.87	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0085	EA	10mm Diameter, 220mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.11	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 01 20 41-0086	EA	10mm Diameter, 245mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.28	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0087	EA	10mm Diameter, 270mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.56	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0088	EA	10mm Diameter, 300mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.68	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0089	EA	10mm Diameter, 350mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	13.23	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0090	EA	10mm Diameter, 400mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	14.02	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0091	EA	10mm Diameter, 450mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	14.67	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0092	EA	10mm Diameter, 500mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	15.50	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0093	EA	10mm Diameter, 550mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	19.98	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0094	EA	10mm Diameter, 600mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	22.49	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0095	EA	10mm Diameter, 700mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	26.38	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0096	EA	8mm Tapered To 6.5mm Diameter, 155mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	11.62	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0097	EA	8mm Tapered To 6.5mm Diameter, 170mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	11.90	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0098	EA	8mm Tapered To 6.5mm Diameter, 185mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	12.08	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0099	EA	8mm Tapered To 6.5mm Diameter, 195mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	12.21	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0100	EA	8mm Tapered To 6.5mm Diameter, 220mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	12.60	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0101	EA	8mm Tapered To 6.5mm Diameter, 245mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.22	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0102	EA	8mm Tapered To 6.5mm Diameter, 270mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.45	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 01 20 41-0103	EA	8mm Tapered To 6.5mm Diameter, 295mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	14.07	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0104	EA	10mm Tapered To 8mm Diameter, 155mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	12.34	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0105	EA	10mm Tapered To 8mm Diameter, 170mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	12.88	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0106	EA	10mm Tapered To 8mm Diameter, 195mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.25	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0107	EA	10mm Tapered To 8mm Diameter, 220mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.50	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0108	EA	10mm Tapered To 8mm Diameter, 245mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.67	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0109	EA	10mm Tapered To 8mm Diameter, 300mm Length, 304 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	14.07	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0110	EA	304 Stainless Steel, Seismic Connector (Helifix® DryFix®) Note: For installation over the DryFix® helical pin. Excludes removal of grout from the horizontal mortar joint and installation of Helibar or 9 gauge continuous wire.	5.57	
		For Up To 10, Add	*3.39*	
		For >10 To 50, Add	*1.70*	

04 01 20 41-0111 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®) *(04 01 20 41-0063)*

04 01 20 41-0112	EA	8mm Diameter, 115mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.14	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0113	EA	8mm Diameter, 155mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.68	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0114	EA	8mm Diameter, 170mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.79	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0115	EA	8mm Diameter, 195mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.01	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0116	EA	8mm Diameter, 220mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.41	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0117	EA	8mm Diameter, 245mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.74	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0118	EA	8mm Diameter, 270mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.91	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0119	EA	8mm Diameter, 295mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	13.13	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 01 20 41-0120	EA	8mm Diameter, 325mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	13.93	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0121	EA	8mm Diameter, 350mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	14.08	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0122	EA	8mm Diameter, 400mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	15.25	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0123	EA	8mm Diameter, 450mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	16.23	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0124	EA	8mm Diameter, 500mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	17.08	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0125	EA	8mm Diameter, 550mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	20.07	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0126	EA	8mm Diameter, 600mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	22.48	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0127	EA	8mm Diameter, 700mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	26.01	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0128	EA	10mm Diameter, 125mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.42	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0129	EA	10mm Diameter, 155mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	11.95	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0130	EA	10mm Diameter, 170mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.49	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0131	EA	10mm Diameter, 195mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	12.96	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0132	EA	10mm Diameter, 220mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	13.27	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0133	EA	10mm Diameter, 245mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	13.47	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0134	EA	10mm Diameter, 270mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	13.83	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0135	EA	10mm Diameter, 300mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	13.97	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0136	EA	10mm Diameter, 350mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	14.62	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 01 20 41-0137	EA	10mm Diameter, 400mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	15.50	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0138	EA	10mm Diameter, 450mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	16.32	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0139	EA	10mm Diameter, 500mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	17.35	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0140	EA	10mm Diameter, 550mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	22.95	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0141	EA	10mm Diameter, 600mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	25.62	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0142	EA	10mm Diameter, 700mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix®)	30.49	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0143	EA	8mm Tapered To 6.5mm Diameter, 155mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	12.72	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0144	EA	8mm Tapered To 6.5mm Diameter, 170mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.03	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0145	EA	8mm Tapered To 6.5mm Diameter, 185mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.25	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0146	EA	8mm Tapered To 6.5mm Diameter, 195mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.42	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0147	EA	8mm Tapered To 6.5mm Diameter, 220mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.90	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0148	EA	8mm Tapered To 6.5mm Diameter, 245mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	14.68	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0149	EA	8mm Tapered To 6.5mm Diameter, 270mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	14.93	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0150	EA	8mm Tapered To 6.5mm Diameter, 295mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	15.70	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0151	EA	10mm Tapered To 8mm Diameter, 155mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	13.51	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0152	EA	10mm Tapered To 8mm Diameter, 170mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	14.18	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0153	EA	10mm Tapered To 8mm Diameter, 195mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	14.65	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 01 20 41-0154	EA	10mm Tapered To 8mm Diameter, 220mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	14.96	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0155	EA	10mm Tapered To 8mm Diameter, 245mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	15.16	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0156	EA	10mm Tapered To 8mm Diameter, 300mm Length, 316 Stainless Steel Helical Pin, Dry Mechanical Pinning And Remedial Tying System (Helifix® DryFix® Asymmetric)	15.66	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
		For Metal Stud Clip, Add	*2.96*	
04 01 20 41-0157	EA	316 Stainless Steel, Seismic Connector (Helifix® DryFix®) Note: For installation over the DryFix® helical pin. Excludes removal of grout from the horizontal mortar joint and installation of Helibar or 9 gauge continuous wire.	6.10	
		For Up To 10, Add	*3.39*	
		For >10 To 50, Add	*1.70*	
04 01 20 41-0158		Concrete Patching Pins (Helifix® PatchPin) *(04 01 20 41-0001)* Note: Austenitic stainless steel. For patching reinforced concrete. Includes drilling. Excludes patching mortar.		
04 01 20 41-0159		304 Stainless Steel Helical Pin, Concrete Patching Pins (Helifix® PatchPin) *(04 01 20 41-0158)*		
04 01 20 41-0160	EA	8mm Diameter, 70mm Length, 304 Stainless Steel Helical Pin, Concrete Patching Pin (Helifix® PatchPin)	8.75	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0161	EA	8mm Diameter, 102mm Length, 304 Stainless Steel Helical Pin, Concrete Patching Pin (Helifix® PatchPin)	8.81	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0162		316 Stainless Steel Helical Pin, Concrete Patching Pins (Helifix® PatchPin) *(04 01 20 41-0158)*		
04 01 20 41-0163	EA	8mm Diameter, 70mm Length, 316 Stainless Steel Helical Pin, Concrete Patching Pin (Helifix® PatchPin)	9.12	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0164	EA	8mm Diameter, 102mm Length, 316 Stainless Steel Helical Pin, Concrete Patching Pin (Helifix® PatchPin)	9.21	
		For Up To 10, Add	*6.78*	
		For >10 To 50, Add	*3.39*	
04 01 20 41-0165		Movement Joint Ties (Helifix® Movement Joint Tie *(04 01 20 41-0001)* Note: Austenitic stainless steel. For creating movement joints in existing walls. Includes removing horizontal mortar and re-pointing mortar bed. Includes cementitious grout.		
04 01 20 41-0166		304 Stainless Steel Helical Pin, Movement Joint Ties (Helifix® Movement Joint Tie) *(04 01 20 41-0165)*		
04 01 20 41-0167	EA	6mm Diameter, 400mm Length, 304 Stainless Steel Helical Pin, Movement Joint Tie With De-Bond Sleeve (Helifix® Movement Joint Tie)	56.40	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0168		316 Stainless Steel Helical Pin, Movement Joint Ties (Helifix® Movement Joint Tie) *(04 01 20 41-0165)*		
04 01 20 41-0169	EA	6mm Diameter, 400mm Length, 316 Stainless Steel Helical Pin, Movement Joint Tie With De-Bond Sleeve (Helifix® Movement Joint Tie)	58.10	
		For Up To 10, Add	*45.17*	
		For >10 To 50, Add	*22.59*	
04 01 20 41-0170		Unit Masonry Stabilization *(04 01 20 41)*		
04 01 20 41-0171		Repair Bulging Or Loose Masonry *(04 01 20 41-0170)*		
04 01 20 41-0172	SF	Repair Bulging Or Loose Masonry Using Existing Masonry Note: Includes saw cutting, toothing, removing loose masonry, installing anchor and reinstalling brick and mortar.	92.95	
04 01 20 41-0173	SF	Repair Bulging Or Loose Masonry Using New Masonry Note: Includes saw cutting, toothing, removing loose masonry, installing anchor and installing new brick and mortar.	99.79	
04 01 20 51		**Unit Masonry Maintenance** *(04 01 20)*		
04 01 20 51-0001		Repair Masonry *(04 01 20 51)* Note: Includes mortar for repair.		
04 01 20 51-0002	SF	Patch And Repair Terra Cotta Walls Or Coping Note: Including Replacement Of Damaged Material	22.28	
04 01 20 51-0003	SF	Patch And Repair Terra Cotta Floors Note: Including Replacement Of Damaged Material	20.72	
04 01 20 51-0004	CF	Remove And Reset Coping, Including New Ties	52.83	
		For Temporary Storage And Cleaning, Add	*48.35*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 01 20 51-0005	LF	Chip And Repair With Masonry Patch, Cracks Up To 1/4"	5.19	
04 01 20 51-0006	SF	Patching Over Masonry Surface With Elastomeric Paint Using A Trowel 6" Blade	8.34	
04 01 20 51-0007	EA	Cutout Individual Damaged Brick And Replace With New Brick	15.14	
04 01 20 51-0008	LF	Pressure Grout Block/Brick, Portland Cement Base, Using LA City RGA Rule Of General Application 1-91	411.74	
04 01 20 51-0009	LF	Pressure Grout Block/Brick, Portland Cement Base, Master Builders RHEOCEM 900	117.47	
04 01 20 51-0010	LF	Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non-Structural Crack Repair For Masonry, Installed With Automated Injection Equipment (SealBoss 1570)	37.69	
		For Cracks Accessible From Both Sides, Add	*7.66*	
04 01 20 51-0011	LF	Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Masonry, Installed With Automated Injection Equipment (Sikadur® 52)	33.30	
		For Cracks Accessible From Both Sides, Add	*7.66*	
04 01 20 51-0012	LF	Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Masonry, Surface Applied Trowel (Sikadur® 52)	8.85	
		For V-Grooving Crack With Grinder, Add	*6.32*	
04 01 20 51-0013	LF	>1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Masonry, Surface Applied With Trowel (Sikadur® 52)	11.95	
		For V-Grooving Crack With Grinder, Add	*5.99*	

04 01 20 51-0014 Grind Unit Masonry *(04 01 20 51)*

04 01 20 51-0015	SF	Grind Smooth Masonry Wall	4.43	

04 01 20 91 Unit Masonry Restoration *(04 01 20)*

04 01 20 91-0001 Cut And Repoint Masonry *(04 01 20 91)*

Note: Remove existing mortar to 3/4" depth. Repoint with pointing mortar. Includes pointing mortar, cutting, rinsing and cleaning joint.

04 01 20 91-0002	SF	Cut And Repoint, Hard Mortar, Running Bond, Brick	11.28	
		For Common Bond, Add	*0.42*	
		For Flemish Bond, Add	*1.48*	
		For English Bond, Add	*2.43*	
		For Oversized Or Larger Than Standard, Deduct	*-1.69*	
		For >250 To 1,000, Deduct	*-0.53*	
		For >1,000, Deduct	*-1.09*	
04 01 20 91-0003	SF	Cut And Repoint, Soft, Loose Or Crumbling Mortar, Running Bond, Brick	7.89	
		For Common Bond, Add	*0.29*	
		For Flemish Bond, Add	*1.01*	
		For English Bond, Add	*1.65*	
		For Oversized Or Larger Than Standard, Deduct	*-1.18*	
		For >250 To 1,000, Deduct	*-0.36*	
		For >1,000, Deduct	*-0.75*	
04 01 20 91-0004	SF	Cut And Repoint, Hard Mortar, Running Bond, Concrete Block	6.02	
		For Common Bond, Add	*0.21*	
		For Oversized Or Larger Than Standard, Deduct	*-0.90*	
		For >250 To 1,000, Deduct	*-0.27*	
		For >1,000, Deduct	*-0.57*	
04 01 20 91-0005	SF	Cut And Repoint, Soft, Loose Or Crumbling Mortar, Running Bond, Concrete Block	4.33	
		For Common Bond, Add	*0.14*	
		For Oversized Or Larger Than Standard, Deduct	*-0.65*	
		For >250 To 1,000, Deduct	*-0.18*	
		For >1,000, Deduct	*-0.40*	
04 01 20 91-0006	LF	Cut And Repoint Brick/Block, Irregular Shapes And Other Than Complete SF Area	3.54	

04 01 50 Maintenance of Refractory Masonry *(04 01)*

04 01 50 52 Refractory Masonry Cleaning *(04 01 50)*

04 01 50 52-0001 Chimney Cleaning *(04 01 50 52)*

04 01 50 52-0002	LF	Up To 2 SF Cross Section Chimney Cleaning	7.68	
04 01 50 52-0003	LF	>2 To 4 SF Cross Section Chimney Cleaning	15.34	
04 01 50 52-0004	LF	>4 SF Cross Section Chimney Cleaning	23.02	

04 05 Common Work Results for Masonry *(04)*

04 05 13 Masonry Mortaring *(04 05)*

04 05 13 26 Engineered Masonry Mortaring *(04 05 13)*

Note: Mortar, sand and standard supplements are included in the cost of brick, block, stone, simulated or synthetic masonry units.

04 05 13 26-0001 Masonry Cement Mortar *(04 05 13 26)*

Note: Ratio is bag material to sand.

04 05 13 26-0002	CF	Type M Masonry Cement 1:1:6 Mix	8.48	
04 05 13 26-0003	CF	Type N Masonry Cement 1:3 Mix	7.82	
04 05 13 26-0004	CF	Type O Masonry Cement 1:3 Mix	8.03	
04 05 13 26-0005	CF	Type PM Masonry Cement 1:1:6 Mix, 2,500 PSI	8.79	
04 05 13 26-0006	CF	Type S Masonry Cement 1/2:1:4 Mix	9.27	

04 05 13 26-0007 Mortar Admixture *(04 05 13 26)*

04 05 13 26-0008	CF	Water - Repellent Stearate - Cost Based On CF Of Mortar	0.42	

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	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 13 26-0009		CF	Pozzolanic Plasticizers - Cost Based On CF Of Mortar	0.08	
04 05 13 26-0010			Color Admixtures For Mortar *(04 05 13 26)*		
			Note: Costs are based on CF of mortar.		
04 05 13 26-0011		CF	Buff Colored Admixture	2.69	
04 05 13 26-0012		CF	Brown Colored Admixture	3.05	
04 05 13 26-0013		CF	Black Colored Admixture	3.78	
04 05 13 26-0014		CF	Red Colored Admixture	8.27	
04 05 13 26-0015			Portland Cement *(04 05 13 26)*		
04 05 13 26-0016		CF	Type I, Normal Portland Cement	14.34	
04 05 13 26-0017		CF	Type II, Modified Portland Cement	7.15	
04 05 13 26-0018		CF	Type III, High Early Strength Portland Cement	7.59	
04 05 13 26-0019		CF	Type I, White Non-Staining Portland Cement	15.89	

04 05 16 Masonry Grouting *(04 05)*

04 05 16 26 Engineered Masonry Grouting *(04 05 16)*

Note: Excludes reinforcement.

04 05 16 26-0001			Grout Bond Beams And Lintels, Grout Fill *(04 05 16 26)*		
			Note: Excludes block.		
04 05 16 26-0002		LF	Grout Bond Beams And Lintels - 6" Block, Grout Fill Only, 0.1125 CF/LF, 8" Deep	4.90	
04 05 16 26-0003		LF	Grout Bond Beams And Lintels - 8" Block, Grout Fill Only, 0.20 CF/LF, 8" Deep	5.35	
04 05 16 26-0004		LF	Grout Bond Beams And Lintels - 10" Block, Grout Fill Only, 0.25 CF/LF, 8" Deep	5.95	
04 05 16 26-0005		LF	Grout Bond Beams And Lintels, 12" Block, Grout Fill Only, 0.30 CF/LF, 8" Deep	6.64	
04 05 16 26-0006			Grout Concrete Block Cores, Grout Fill *(04 05 16 26)*		
			Note: Per SF of face area filled.		
04 05 16 26-0007		SF	Grout Concrete Block Cores- 4" Block, (0.067 CF/SF) Grout Fill Block Solid	3.86	
04 05 16 26-0008		SF	Grout Concrete Block Cores- 6" Block, (0.175 CF/SF) Grout Fill Block Solid	5.57	
04 05 16 26-0009		SF	Grout Concrete Block Cores- 8" Block, (0.258 CF/SF) Grout Fill Block Solid	7.95	
04 05 16 26-0010		SF	Grout Concrete Block Cores- 10" Block, (0.34 CF/SF) Grout Fill Block Solid	9.75	
04 05 16 26-0011		SF	Grout Concrete Block Cores- 12" Block, (0.422 CF/SF) Grout Fill Block Solid	11.50	
04 05 16 26-0012			Grout Cavity Walls, Grout Fill *(04 05 16 26)*		
			Note: Per SF of face area filled.		
04 05 16 26-0013		SF	Grout Cavity Walls - 2" Space, (0.167 CF/SF) Grout Fill	4.49	
04 05 16 26-0014		SF	Grout Cavity Walls - 3" Space, (0.250 CF/SF) Grout Fill	6.33	
04 05 16 26-0015		SF	Grout Cavity Walls - 4" Space, (0.333 CF/SF) Grout Fill	7.94	
04 05 16 26-0016		SF	Grout Cavity Walls - 6" Space, (0.500 CF/SF) Grout Fill	10.74	
04 05 16 26-0017			Grout Frames, Grout Fill *(04 05 16 26)*		
04 05 16 26-0018		LF	Grout Door Frames - Grout Fill	7.07	
04 05 16 26-0019		LF	Grout Window Frames - Grout Fill	6.04	
04 05 16 26-0020			Sand Filled Walls *(04 05 16 26)*		
04 05 16 26-0021			Sand Fill Cavity Walls, Sand Fill *(04 05 16 26-0020)*		
			Note: Per SF of face area filled.		
04 05 16 26-0022		SF	Sand Fill Cavity Walls - 2" Space, (0.167 CF/SF) Sand Fill	3.76	
04 05 16 26-0023		SF	Sand Fill Cavity Walls - 3" Space, (0.250 CF/SF) Sand Fill	5.19	
04 05 16 26-0024		SF	Sand Fill Cavity Walls - 4" Space, (0.333 CF/SF) Sand Fill	6.37	
04 05 16 26-0025		SF	Sand Fill Cavity Walls - 6" Space, (0.500 CF/SF) Sand Fill	8.47	

04 05 19 Masonry Anchorage and Reinforcing *(04 05)*

04 05 19 13 Continuous Joint Reinforcing *(04 05 19)*

Note: Includes cutting and bending.

04 05 19 13-0001			Continuous Joint Reinforcing *(04 05 19 13)*		
04 05 19 13-0002			Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0001)*		
04 05 19 13-0003			Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0002)*		
04 05 19 13-0004			Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0003)*		
04 05 19 13-0005		CLF	#4 (For 4" Walls), Mill Galvanized, Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	77.75	
			For Hot-Dipped Galvanized, Add	*16.77*	
			For Stainless Steel, Add	*67.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0006	CLF	#6 (For 6" Walls), Mill Galvanized, Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	82.47	
		For Hot-Dipped Galvanized, Add	*17.61*	
		For Stainless Steel, Add	*70.44*	
04 05 19 13-0007	CLF	#8 (For 8" Walls), Mill Galvanized, Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	88.66	
		For Hot-Dipped Galvanized, Add	*18.56*	
		For Stainless Steel, Add	*74.24*	
04 05 19 13-0008	CLF	#10 (For 10" Walls), Mill Galvanized, Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	95.98	
		For Hot-Dipped Galvanized, Add	*19.64*	
		For Stainless Steel, Add	*78.56*	
04 05 19 13-0009	CLF	#12 (For 12" Walls), Mill Galvanized, Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	104.38	
		For Hot-Dipped Galvanized, Add	*20.69*	
		For Stainless Steel, Add	*82.76*	
04 05 19 13-0010	CLF	#13 (For 13" Walls), Mill Galvanized, Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	110.45	
		For Hot-Dipped Galvanized, Add	*21.21*	
		For Stainless Steel, Add	*84.82*	
04 05 19 13-0011	CLF	#14 (For 14" Walls), Mill Galvanized, Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	115.02	
		For Hot-Dipped Galvanized, Add	*21.80*	
		For Stainless Steel, Add	*87.18*	
04 05 19 13-0012	CLF	#16 (For 16" Walls), Mill Galvanized, Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	135.89	
		For Hot-Dipped Galvanized, Add	*29.96*	
		For Stainless Steel, Add	*119.84*	
04 05 19 13-0013	CLF	#18 (For 18" Walls), Mill Galvanized, Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	173.13	
		For Hot-Dipped Galvanized, Add	*46.31*	
		For Stainless Steel, Add	*185.24*	

04 05 19 13-0014 Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0003)*

04 05 19 13-0015	CLF	#4 (For 4" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	96.34	
		For Hot-Dipped Galvanized, Add	*26.06*	
		For Stainless Steel, Add	*104.22*	
04 05 19 13-0016	CLF	#6 (For 6" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	101.26	
		For Hot-Dipped Galvanized, Add	*27.01*	
		For Stainless Steel, Add	*108.02*	
04 05 19 13-0017	CLF	#8 (For 8" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	107.66	
		For Hot-Dipped Galvanized, Add	*28.06*	
		For Stainless Steel, Add	*112.24*	
04 05 19 13-0018	CLF	#10 (For 10" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	114.77	
		For Hot-Dipped Galvanized, Add	*29.04*	
		For Stainless Steel, Add	*116.14*	
04 05 19 13-0019	CLF	#12 (For 12" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	123.12	
		For Hot-Dipped Galvanized, Add	*30.06*	
		For Stainless Steel, Add	*120.24*	
04 05 19 13-0020	CLF	#13 (For 13" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	129.27	
		For Hot-Dipped Galvanized, Add	*30.63*	
		For Stainless Steel, Add	*122.50*	
04 05 19 13-0021	CLF	#14 (For 14" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	133.72	
		For Hot-Dipped Galvanized, Add	*31.14*	
		For Stainless Steel, Add	*124.56*	
04 05 19 13-0022	CLF	#16 (For 16" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	160.60	
		For Hot-Dipped Galvanized, Add	*42.32*	
		For Stainless Steel, Add	*169.28*	
04 05 19 13-0023	CLF	#18 (For 18" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	215.52	
		For Hot-Dipped Galvanized, Add	*67.52*	
		For Stainless Steel, Add	*270.06*	

04 05 19 13-0024 Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0003)*

04 05 19 13-0025	CLF	#4 (For 4" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	114.36	
		For Hot-Dipped Galvanized, Add	*35.07*	
		For Stainless Steel, Add	*140.28*	
04 05 19 13-0026	CLF	#6 (For 6" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	121.62	
		For Hot-Dipped Galvanized, Add	*37.00*	
		For Stainless Steel, Add	*147.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0027	CLF	#8 (For 8" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	128.87	
		For Hot-Dipped Galvanized, Add	*38.92*	
		For Stainless Steel, Add	*155.68*	
04 05 19 13-0028	CLF	#10 (For 10" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	139.16	
		For Hot-Dipped Galvanized, Add	*41.23*	
		For Stainless Steel, Add	*164.92*	
04 05 19 13-0029	CLF	#12 (For 12" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	149.40	
		For Hot-Dipped Galvanized, Add	*43.52*	
		For Stainless Steel, Add	*174.06*	
04 05 19 13-0030	CLF	#13 (For 13" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	157.53	
		For Hot-Dipped Galvanized, Add	*44.75*	
		For Stainless Steel, Add	*178.98*	
04 05 19 13-0031	CLF	#14 (For 14" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	162.47	
		For Hot-Dipped Galvanized, Add	*45.80*	
		For Stainless Steel, Add	*183.20*	
04 05 19 13-0032	CLF	#16 (For 16" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	171.79	
		For Hot-Dipped Galvanized, Add	*47.91*	
		For Stainless Steel, Add	*191.62*	
04 05 19 13-0033	CLF	#18 (For 18" Walls), Mill Galvanized, Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	239.68	
		For Hot-Dipped Galvanized, Add	*79.59*	
		For Stainless Steel, Add	*318.34*	

04 05 19 13-0034 Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0003)*

04 05 19 13-0035	CLF	#4 (For 4" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	120.55	
		For Hot-Dipped Galvanized, Add	*38.17*	
		For Stainless Steel, Add	*152.66*	
04 05 19 13-0036	CLF	#6 (For 6" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	125.24	
		For Hot-Dipped Galvanized, Add	*39.00*	
		For Stainless Steel, Add	*155.98*	
04 05 19 13-0037	CLF	#8 (For 8" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	131.44	
		For Hot-Dipped Galvanized, Add	*39.95*	
		For Stainless Steel, Add	*159.80*	
04 05 19 13-0038	CLF	#10 (For 10" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	138.75	
		For Hot-Dipped Galvanized, Add	*41.03*	
		For Stainless Steel, Add	*164.10*	
04 05 19 13-0039	CLF	#12 (For 12" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	147.17	
		For Hot-Dipped Galvanized, Add	*42.08*	
		For Stainless Steel, Add	*168.32*	
04 05 19 13-0040	CLF	#13 (For 13" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	153.22	
		For Hot-Dipped Galvanized, Add	*42.59*	
		For Stainless Steel, Add	*170.36*	
04 05 19 13-0041	CLF	#14 (For 14" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	157.79	
		For Hot-Dipped Galvanized, Add	*43.18*	
		For Stainless Steel, Add	*172.72*	
04 05 19 13-0042	CLF	#16 (For 16" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	178.67	
		For Hot-Dipped Galvanized, Add	*51.35*	
		For Stainless Steel, Add	*205.38*	

04 05 19 13-0043 Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0003)*

04 05 19 13-0044	CLF	#4 (For 4" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	139.13	
		For Hot-Dipped Galvanized, Add	*47.46*	
		For Stainless Steel, Add	*189.82*	
04 05 19 13-0045	CLF	#6 (For 6" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	144.07	
		For Hot-Dipped Galvanized, Add	*48.41*	
		For Stainless Steel, Add	*193.64*	
04 05 19 13-0046	CLF	#8 (For 8" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	150.46	
		For Hot-Dipped Galvanized, Add	*49.46*	
		For Stainless Steel, Add	*197.84*	
04 05 19 13-0047	CLF	#10 (For 10" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	157.58	
		For Hot-Dipped Galvanized, Add	*50.44*	
		For Stainless Steel, Add	*201.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0048	CLF	#12 (For 12" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	165.94	
		For Hot-Dipped Galvanized, Add	*51.47*	
		For Stainless Steel, Add	*205.86*	
04 05 19 13-0049	CLF	#13 (For 13" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	172.08	
		For Hot-Dipped Galvanized, Add	*52.03*	
		For Stainless Steel, Add	*208.12*	
04 05 19 13-0050	CLF	#14 (For 14" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	176.52	
		For Hot-Dipped Galvanized, Add	*52.54*	
		For Stainless Steel, Add	*210.16*	
04 05 19 13-0051	CLF	#16 (For 16" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	203.39	
		For Hot-Dipped Galvanized, Add	*63.72*	
		For Stainless Steel, Add	*254.86*	
04 05 19 13-0052	CLF	#18 (For 18" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	258.34	
		For Hot-Dipped Galvanized, Add	*88.93*	
		For Stainless Steel, Add	*355.70*	

04 05 19 13-0053 Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0003)*

04 05 19 13-0054	CLF	#4 (For 4" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	157.13	
		For Hot-Dipped Galvanized, Add	*56.46*	
		For Stainless Steel, Add	*225.82*	
04 05 19 13-0055	CLF	#6 (For 6" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	164.40	
		For Hot-Dipped Galvanized, Add	*58.39*	
		For Stainless Steel, Add	*233.54*	
04 05 19 13-0056	CLF	#8 (For 8" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	171.66	
		For Hot-Dipped Galvanized, Add	*60.32*	
		For Stainless Steel, Add	*241.26*	
04 05 19 13-0057	CLF	#10 (For 10" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	181.93	
		For Hot-Dipped Galvanized, Add	*62.62*	
		For Stainless Steel, Add	*250.46*	
04 05 19 13-0058	CLF	#12 (For 12" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	192.20	
		For Hot-Dipped Galvanized, Add	*64.92*	
		For Stainless Steel, Add	*259.66*	
04 05 19 13-0059	CLF	#13 (For 13" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	200.31	
		For Hot-Dipped Galvanized, Add	*66.14*	
		For Stainless Steel, Add	*264.54*	
04 05 19 13-0060	CLF	#14 (For 14" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	205.24	
		For Hot-Dipped Galvanized, Add	*67.19*	
		For Stainless Steel, Add	*268.74*	
04 05 19 13-0061	CLF	#16 (For 16" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	214.56	
		For Hot-Dipped Galvanized, Add	*69.29*	
		For Stainless Steel, Add	*277.16*	
04 05 19 13-0062	CLF	#18 (For 18" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	282.46	
		For Hot-Dipped Galvanized, Add	*100.98*	
		For Stainless Steel, Add	*403.90*	

04 05 19 13-0063 Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0003)*

04 05 19 13-0064	CLF	#4 (For 4" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	163.34	
		For Hot-Dipped Galvanized, Add	*59.56*	
		For Stainless Steel, Add	*238.24*	
04 05 19 13-0065	CLF	#6 (For 6" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	168.03	
		For Hot-Dipped Galvanized, Add	*60.39*	
		For Stainless Steel, Add	*241.56*	
04 05 19 13-0066	CLF	#8 (For 8" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	174.23	
		For Hot-Dipped Galvanized, Add	*61.35*	
		For Stainless Steel, Add	*245.38*	
04 05 19 13-0067	CLF	#10 (For 10" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	181.54	
		For Hot-Dipped Galvanized, Add	*62.42*	
		For Stainless Steel, Add	*249.68*	
04 05 19 13-0068	CLF	#12 (For 12" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	189.95	
		For Hot-Dipped Galvanized, Add	*63.47*	
		For Stainless Steel, Add	*253.88*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0069	CLF	#13 (For 13" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	196.01	
		For Hot-Dipped Galvanized, Add	*63.99*	
		For Stainless Steel, Add	*255.94*	
04 05 19 13-0070	CLF	#14 (For 14" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	200.57	
		For Hot-Dipped Galvanized, Add	*64.57*	
		For Stainless Steel, Add	*258.28*	
04 05 19 13-0071	CLF	#16 (For 16" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	221.45	
		For Hot-Dipped Galvanized, Add	*72.74*	
		For Stainless Steel, Add	*290.94*	
04 05 19 13-0072	CLF	#18 (For 18" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	258.69	
		For Hot-Dipped Galvanized, Add	*89.10*	
		For Stainless Steel, Add	*356.38*	

04 05 19 13-0073 Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0003)*

04 05 19 13-0074	CLF	#4 (For 4" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	181.92	
		For Hot-Dipped Galvanized, Add	*68.85*	
		For Stainless Steel, Add	*275.40*	
04 05 19 13-0075	CLF	#6 (For 6" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	186.86	
		For Hot-Dipped Galvanized, Add	*69.81*	
		For Stainless Steel, Add	*279.22*	
04 05 19 13-0076	CLF	#8 (For 8" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	193.25	
		For Hot-Dipped Galvanized, Add	*70.86*	
		For Stainless Steel, Add	*283.42*	
04 05 19 13-0077	CLF	#10 (For 10" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, Four-Wire, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	200.37	
		For Hot-Dipped Galvanized, Add	*71.84*	
		For Stainless Steel, Add	*287.34*	
04 05 19 13-0078	CLF	#12 (For 12" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	208.73	
		For Hot-Dipped Galvanized, Add	*72.86*	
		For Stainless Steel, Add	*291.44*	
04 05 19 13-0079	CLF	#13 (For 13" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	214.86	
		For Hot-Dipped Galvanized, Add	*73.42*	
		For Stainless Steel, Add	*293.68*	
04 05 19 13-0080	CLF	#14 (For 14" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	219.31	
		For Hot-Dipped Galvanized, Add	*73.94*	
		For Stainless Steel, Add	*295.74*	
04 05 19 13-0081	CLF	#16 (For 16" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	246.18	
		For Hot-Dipped Galvanized, Add	*85.11*	
		For Stainless Steel, Add	*340.44*	
04 05 19 13-0082	CLF	#18 (For 18" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type, Masonry Wall Reinforcement	301.12	
		For Hot-Dipped Galvanized, Add	*110.32*	
		For Stainless Steel, Add	*441.26*	

04 05 19 13-0083 Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement *(04 05 19 13-0003)*

04 05 19 13-0084	CLF	#4 (For 4" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	199.91	
		For Hot-Dipped Galvanized, Add	*77.85*	
		For Stainless Steel, Add	*311.38*	
04 05 19 13-0085	CLF	#6 (For 6" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	207.19	
		For Hot-Dipped Galvanized, Add	*79.78*	
		For Stainless Steel, Add	*319.12*	
04 05 19 13-0086	CLF	#8 (For 8" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	214.45	
		For Hot-Dipped Galvanized, Add	*81.71*	
		For Stainless Steel, Add	*326.84*	
04 05 19 13-0087	CLF	#10 (For 10" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	224.72	
		For Hot-Dipped Galvanized, Add	*84.01*	
		For Stainless Steel, Add	*336.04*	
04 05 19 13-0088	CLF	#12 (For 12" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	234.98	
		For Hot-Dipped Galvanized, Add	*86.31*	
		For Stainless Steel, Add	*345.22*	
04 05 19 13-0089	CLF	#13 (For 13" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	243.10	
		For Hot-Dipped Galvanized, Add	*87.53*	
		For Stainless Steel, Add	*350.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0090	CLF	#14 (For 14" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	248.03	
		For Hot-Dipped Galvanized, Add	*88.58*	
		For Stainless Steel, Add	*354.32*	
04 05 19 13-0091	CLF	#16 (For 16" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	257.35	
		For Hot-Dipped Galvanized, Add	*90.69*	
		For Stainless Steel, Add	*362.74*	
04 05 19 13-0092	CLF	#18 (For 18" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type, Masonry Wall Reinforcement	325.25	
		For Hot-Dipped Galvanized, Add	*122.37*	
		For Stainless Steel, Add	*489.48*	
04 05 19 13-0093		Ladder-Type With Tabs, Masonry Wall Reinforcement *(04 05 19 13-0002)*		
04 05 19 13-0094		9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement *(04 05 19 13-0093)*		
04 05 19 13-0095	CLF	#8 (For 8" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	114.40	
		For Hot-Dipped Galvanized, Add	*28.50*	
		For Stainless Steel, Add	*113.98*	
04 05 19 13-0096	CLF	#10 (For 10" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	126.02	
		For Hot-Dipped Galvanized, Add	*31.12*	
		For Stainless Steel, Add	*124.46*	
04 05 19 13-0097	CLF	#12 (For 12" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	137.02	
		For Hot-Dipped Galvanized, Add	*33.43*	
		For Stainless Steel, Add	*133.70*	
04 05 19 13-0098	CLF	#13 (For 13" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	146.06	
		For Hot-Dipped Galvanized, Add	*34.76*	
		For Stainless Steel, Add	*139.04*	
04 05 19 13-0099	CLF	#14 (For 14" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	151.72	
		For Hot-Dipped Galvanized, Add	*35.99*	
		For Stainless Steel, Add	*143.96*	
04 05 19 13-0100	CLF	#16 (For 16" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	162.95	
		For Hot-Dipped Galvanized, Add	*38.74*	
		For Stainless Steel, Add	*154.96*	
04 05 19 13-0101	CLF	#18 (For 18" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	172.58	
		For Hot-Dipped Galvanized, Add	*41.00*	
		For Stainless Steel, Add	*164.00*	
04 05 19 13-0102		3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement *(04 05 19 13-0093)*		
04 05 19 13-0103	CLF	#8 (For 8" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	137.56	
		For Hot-Dipped Galvanized, Add	*40.08*	
		For Stainless Steel, Add	*160.30*	
04 05 19 13-0104	CLF	#10 (For 10" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	149.23	
		For Hot-Dipped Galvanized, Add	*42.72*	
		For Stainless Steel, Add	*170.88*	
04 05 19 13-0105	CLF	#12 (For 12" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	159.97	
		For Hot-Dipped Galvanized, Add	*44.90*	
		For Stainless Steel, Add	*179.60*	
04 05 19 13-0106	CLF	#13 (For 13" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	169.27	
		For Hot-Dipped Galvanized, Add	*46.37*	
		For Stainless Steel, Add	*185.46*	
04 05 19 13-0107	CLF	#14 (For 14" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	174.88	
		For Hot-Dipped Galvanized, Add	*47.57*	
		For Stainless Steel, Add	*190.28*	
04 05 19 13-0108	CLF	#16 (For 16" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	186.10	
		For Hot-Dipped Galvanized, Add	*50.32*	
		For Stainless Steel, Add	*201.26*	
04 05 19 13-0109	CLF	#18 (For 18" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement	196.04	
		For Hot-Dipped Galvanized, Add	*52.73*	
		For Stainless Steel, Add	*210.92*	
04 05 19 13-0110		3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement *(04 05 19 13-0093)*		

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0111	CLF	#8 (For 8" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement		148.80	
		For Hot-Dipped Galvanized, Add		*45.70*	
		For Stainless Steel, Add		*182.78*	
04 05 19 13-0112	CLF	#10 (For 10" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement		163.14	
		For Hot-Dipped Galvanized, Add		*49.68*	
		For Stainless Steel, Add		*198.70*	
04 05 19 13-0113	CLF	#12 (For 12" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement		177.32	
		For Hot-Dipped Galvanized, Add		*53.58*	
		For Stainless Steel, Add		*214.30*	
04 05 19 13-0114	CLF	#13 (For 13" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement		187.85	
		For Hot-Dipped Galvanized, Add		*55.66*	
		For Stainless Steel, Add		*222.62*	
04 05 19 13-0115	CLF	#14 (For 14" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement		194.85	
		For Hot-Dipped Galvanized, Add		*57.56*	
		For Stainless Steel, Add		*230.22*	
04 05 19 13-0116	CLF	#16 (For 16" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement		208.70	
		For Hot-Dipped Galvanized, Add		*61.62*	
		For Stainless Steel, Add		*246.46*	
04 05 19 13-0117	CLF	#18 (For 18" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Tabs, Masonry Wall Reinforcement		221.76	
		For Hot-Dipped Galvanized, Add		*65.59*	
		For Stainless Steel, Add		*262.36*	

04 05 19 13-0118 Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0002)*

04 05 19 13-0119 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0118)*

04 05 19 13-0120	CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		176.73	
		For Hot-Dipped Galvanized, Add		*59.66*	
		For Stainless Steel, Add		*238.64*	
04 05 19 13-0121	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		186.76	
		For Hot-Dipped Galvanized, Add		*61.49*	
		For Stainless Steel, Add		*245.94*	
04 05 19 13-0122	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		196.84	
		For Hot-Dipped Galvanized, Add		*63.34*	
		For Stainless Steel, Add		*253.34*	
04 05 19 13-0123	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		210.51	
		For Hot-Dipped Galvanized, Add		*65.39*	
		For Stainless Steel, Add		*261.54*	
04 05 19 13-0124	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		220.35	
		For Hot-Dipped Galvanized, Add		*67.44*	
		For Stainless Steel, Add		*269.76*	
04 05 19 13-0125	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		231.72	
		For Hot-Dipped Galvanized, Add		*70.57*	
		For Stainless Steel, Add		*282.28*	

04 05 19 13-0126 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0118)*

04 05 19 13-0127	CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		213.03	
		For Hot-Dipped Galvanized, Add		*77.81*	
		For Stainless Steel, Add		*311.24*	
04 05 19 13-0128	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		223.11	
		For Hot-Dipped Galvanized, Add		*79.66*	
		For Stainless Steel, Add		*318.64*	
04 05 19 13-0129	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		233.65	
		For Hot-Dipped Galvanized, Add		*81.74*	
		For Stainless Steel, Add		*326.96*	
04 05 19 13-0130	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		246.86	
		For Hot-Dipped Galvanized, Add		*83.56*	
		For Stainless Steel, Add		*334.24*	
04 05 19 13-0131	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement		256.75	
		For Hot-Dipped Galvanized, Add		*85.64*	
		For Stainless Steel, Add		*342.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0132	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	266.02	
		For Hot-Dipped Galvanized, Add	*87.72*	
		For Stainless Steel, Add	*350.88*	

04 05 19 13-0133 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0118)*

04 05 19 13-0134	CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	215.70	
		For Hot-Dipped Galvanized, Add	*79.15*	
		For Stainless Steel, Add	*316.58*	
04 05 19 13-0135	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	227.78	
		For Hot-Dipped Galvanized, Add	*82.00*	
		For Stainless Steel, Add	*327.98*	
04 05 19 13-0136	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	239.81	
		For Hot-Dipped Galvanized, Add	*84.82*	
		For Stainless Steel, Add	*339.28*	
04 05 19 13-0137	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	256.21	
		For Hot-Dipped Galvanized, Add	*88.24*	
		For Stainless Steel, Add	*352.94*	
04 05 19 13-0138	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	268.72	
		For Hot-Dipped Galvanized, Add	*91.63*	
		For Stainless Steel, Add	*366.50*	
04 05 19 13-0139	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	280.55	
		For Hot-Dipped Galvanized, Add	*94.99*	
		For Stainless Steel, Add	*379.94*	

04 05 19 13-0140 Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0002)*

04 05 19 13-0141 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0140)*

04 05 19 13-0142	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	189.89	
		For Hot-Dipped Galvanized, Add	*63.05*	
		For Stainless Steel, Add	*252.20*	
04 05 19 13-0143	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	199.86	
		For Hot-Dipped Galvanized, Add	*64.85*	
		For Stainless Steel, Add	*259.38*	
04 05 19 13-0144	CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	213.03	
		For Hot-Dipped Galvanized, Add	*66.65*	
		For Stainless Steel, Add	*266.58*	
04 05 19 13-0145	CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	223.02	
		For Hot-Dipped Galvanized, Add	*68.78*	
		For Stainless Steel, Add	*275.10*	
04 05 19 13-0146	CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	232.24	
		For Hot-Dipped Galvanized, Add	*70.83*	
		For Stainless Steel, Add	*283.32*	
04 05 19 13-0147	CLF	#20 (For 14" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	244.05	
		For Hot-Dipped Galvanized, Add	*74.96*	
		For Stainless Steel, Add	*299.84*	

04 05 19 13-0148 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0140)*

04 05 19 13-0149	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	226.24	
		For Hot-Dipped Galvanized, Add	*81.23*	
		For Stainless Steel, Add	*324.90*	
04 05 19 13-0150	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	236.27	
		For Hot-Dipped Galvanized, Add	*83.05*	
		For Stainless Steel, Add	*332.20*	
04 05 19 13-0151	CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	249.95	
		For Hot-Dipped Galvanized, Add	*85.11*	
		For Stainless Steel, Add	*340.42*	
04 05 19 13-0152	CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	259.32	
		For Hot-Dipped Galvanized, Add	*86.93*	
		For Stainless Steel, Add	*347.70*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0153		CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	268.59	
			For Hot-Dipped Galvanized, Add	*89.01*	
			For Stainless Steel, Add	*356.02*	
04 05 19 13-0154		CLF	#20 (For 14" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	280.87	
			For Hot-Dipped Galvanized, Add	*93.37*	
			For Stainless Steel, Add	*373.48*	

04 05 19 13-0155 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0140)*

04 05 19 13-0156		CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	228.81	
			For Hot-Dipped Galvanized, Add	*82.51*	
			For Stainless Steel, Add	*330.04*	
04 05 19 13-0157		CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	240.89	
			For Hot-Dipped Galvanized, Add	*85.36*	
			For Stainless Steel, Add	*341.44*	
04 05 19 13-0158		CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	256.21	
			For Hot-Dipped Galvanized, Add	*88.24*	
			For Stainless Steel, Add	*352.94*	
04 05 19 13-0159		CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	268.72	
			For Hot-Dipped Galvanized, Add	*91.63*	
			For Stainless Steel, Add	*366.50*	
04 05 19 13-0160		CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	280.55	
			For Hot-Dipped Galvanized, Add	*94.99*	
			For Stainless Steel, Add	*379.94*	
04 05 19 13-0161		CLF	#20 (For 14" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	293.76	
			For Hot-Dipped Galvanized, Add	*99.82*	
			For Stainless Steel, Add	*399.26*	

04 05 19 13-0162 Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0002)*

04 05 19 13-0163 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0162)*

04 05 19 13-0164		CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	177.93	
			For Hot-Dipped Galvanized, Add	*57.07*	
			For Stainless Steel, Add	*228.28*	
			For Seismic Hook And Eye, Add	*24.54*	
04 05 19 13-0165		CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	187.29	
			For Hot-Dipped Galvanized, Add	*58.56*	
			For Stainless Steel, Add	*234.24*	
			For Seismic Hook And Eye, Add	*25.18*	
04 05 19 13-0166		CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	200.04	
			For Hot-Dipped Galvanized, Add	*60.15*	
			For Stainless Steel, Add	*240.60*	
			For Seismic Hook And Eye, Add	*25.86*	
04 05 19 13-0167		CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	209.16	
			For Hot-Dipped Galvanized, Add	*61.85*	
			For Stainless Steel, Add	*247.38*	
			For Seismic Hook And Eye, Add	*26.59*	
04 05 19 13-0168		CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	217.81	
			For Hot-Dipped Galvanized, Add	*63.62*	
			For Stainless Steel, Add	*254.46*	
			For Seismic Hook And Eye, Add	*27.35*	
04 05 19 13-0169		CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	224.54	
			For Hot-Dipped Galvanized, Add	*65.21*	
			For Stainless Steel, Add	*260.82*	
			For Seismic Hook And Eye, Add	*28.04*	

04 05 19 13-0170 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0162)*

04 05 19 13-0171		CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	212.02	
			For Hot-Dipped Galvanized, Add	*74.12*	
			For Stainless Steel, Add	*296.46*	
			For Seismic Hook And Eye, Add	*31.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0172	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	220.71	
		For Hot-Dipped Galvanized, Add	*75.27*	
		For Stainless Steel, Add	*301.08*	
		For Seismic Hook And Eye, Add	*32.37*	
04 05 19 13-0173	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	233.57	
		For Hot-Dipped Galvanized, Add	*76.92*	
		For Stainless Steel, Add	*307.66*	
		For Seismic Hook And Eye, Add	*33.07*	
04 05 19 13-0174	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	242.48	
		For Hot-Dipped Galvanized, Add	*78.51*	
		For Stainless Steel, Add	*314.02*	
		For Seismic Hook And Eye, Add	*33.76*	
04 05 19 13-0175	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	250.77	
		For Hot-Dipped Galvanized, Add	*80.10*	
		For Stainless Steel, Add	*320.38*	
		For Seismic Hook And Eye, Add	*34.44*	
04 05 19 13-0176	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	261.20	
		For Hot-Dipped Galvanized, Add	*83.54*	
		For Stainless Steel, Add	*334.14*	
		For Seismic Hook And Eye, Add	*35.92*	

04 05 19 13-0177 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0162)*

04 05 19 13-0178	CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	214.54	
		For Hot-Dipped Galvanized, Add	*75.38*	
		For Stainless Steel, Add	*301.50*	
		For Seismic Hook And Eye, Add	*32.41*	
04 05 19 13-0179	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	226.36	
		For Hot-Dipped Galvanized, Add	*78.10*	
		For Stainless Steel, Add	*312.38*	
		For Seismic Hook And Eye, Add	*33.58*	
04 05 19 13-0180	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	241.32	
		For Hot-Dipped Galvanized, Add	*80.79*	
		For Stainless Steel, Add	*323.16*	
		For Seismic Hook And Eye, Add	*34.74*	
04 05 19 13-0181	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	253.52	
		For Hot-Dipped Galvanized, Add	*84.03*	
		For Stainless Steel, Add	*336.10*	
		For Seismic Hook And Eye, Add	*36.13*	
04 05 19 13-0182	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	265.10	
		For Hot-Dipped Galvanized, Add	*87.26*	
		For Stainless Steel, Add	*349.04*	
		For Seismic Hook And Eye, Add	*37.52*	
04 05 19 13-0183	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	275.07	
		For Hot-Dipped Galvanized, Add	*90.47*	
		For Stainless Steel, Add	*361.88*	
		For Seismic Hook And Eye, Add	*38.90*	

04 05 19 13-0184 Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0002)*

04 05 19 13-0185 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0184)*

04 05 19 13-0186	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	191.09	
		For Hot-Dipped Galvanized, Add	*60.46*	
		For Stainless Steel, Add	*241.84*	
		For Seismic Hook And Eye, Add	*26.00*	
04 05 19 13-0187	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	203.58	
		For Hot-Dipped Galvanized, Add	*61.92*	
		For Stainless Steel, Add	*247.68*	
		For Seismic Hook And Eye, Add	*26.63*	
04 05 19 13-0188	CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	212.24	
		For Hot-Dipped Galvanized, Add	*63.39*	
		For Stainless Steel, Add	*253.54*	
		For Seismic Hook And Eye, Add	*27.26*	

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	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0189	CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	221.10	
		For Hot-Dipped Galvanized, Add	*65.26*	
		For Stainless Steel, Add	*261.04*	
		For Seismic Hook And Eye, Add	*28.06*	
04 05 19 13-0190	CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	228.03	
		For Hot-Dipped Galvanized, Add	*66.95*	
		For Stainless Steel, Add	*267.80*	
		For Seismic Hook And Eye, Add	*28.79*	

04 05 19 13-0191 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0184)*

04 05 19 13-0192	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	223.95	
		For Hot-Dipped Galvanized, Add	*76.89*	
		For Stainless Steel, Add	*307.56*	
		For Seismic Hook And Eye, Add	*33.06*	
04 05 19 13-0193	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	236.70	
		For Hot-Dipped Galvanized, Add	*78.48*	
		For Stainless Steel, Add	*313.92*	
		For Seismic Hook And Eye, Add	*33.75*	
04 05 19 13-0194	CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	245.82	
		For Hot-Dipped Galvanized, Add	*80.18*	
		For Stainless Steel, Add	*320.70*	
		For Seismic Hook And Eye, Add	*34.48*	
04 05 19 13-0195	CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	253.65	
		For Hot-Dipped Galvanized, Add	*81.54*	
		For Stainless Steel, Add	*326.14*	
		For Seismic Hook And Eye, Add	*35.06*	
04 05 19 13-0196	CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	260.90	
		For Hot-Dipped Galvanized, Add	*83.39*	
		For Stainless Steel, Add	*333.54*	
		For Seismic Hook And Eye, Add	*35.86*	

04 05 19 13-0197 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0184)*

04 05 19 13-0198	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	227.33	
		For Hot-Dipped Galvanized, Add	*78.58*	
		For Stainless Steel, Add	*314.32*	
		For Seismic Hook And Eye, Add	*33.79*	
04 05 19 13-0199	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	242.35	
		For Hot-Dipped Galvanized, Add	*81.31*	
		For Stainless Steel, Add	*325.22*	
		For Seismic Hook And Eye, Add	*34.96*	
04 05 19 13-0200	CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	253.52	
		For Hot-Dipped Galvanized, Add	*84.03*	
		For Stainless Steel, Add	*336.10*	
		For Seismic Hook And Eye, Add	*36.13*	
04 05 19 13-0201	CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	265.10	
		For Hot-Dipped Galvanized, Add	*87.26*	
		For Stainless Steel, Add	*349.04*	
		For Seismic Hook And Eye, Add	*37.52*	
04 05 19 13-0202	CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Ladder-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	275.07	
		For Hot-Dipped Galvanized, Add	*90.47*	
		For Stainless Steel, Add	*361.88*	
		For Seismic Hook And Eye, Add	*38.90*	

04 05 19 13-0203 Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0001)*

04 05 19 13-0204 Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0203)*

04 05 19 13-0205 Two-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0204)*

04 05 19 13-0206	CLF	#4 (For 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	91.76	
		For Hot-Dipped Galvanized, Add	*23.77*	
		For Stainless Steel, Add	*95.08*	
04 05 19 13-0207	CLF	#6 (For 6" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	95.31	
		For Hot-Dipped Galvanized, Add	*24.03*	
		For Stainless Steel, Add	*96.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0208	CLF	#8 (For 8" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	101.50	
		For Hot-Dipped Galvanized, Add	*24.98*	
		For Stainless Steel, Add	*99.92*	
04 05 19 13-0209	CLF	#10 (For 10" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	109.12	
		For Hot-Dipped Galvanized, Add	*26.21*	
		For Stainless Steel, Add	*104.84*	
04 05 19 13-0210	CLF	#12 (For 12" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	118.19	
		For Hot-Dipped Galvanized, Add	*27.60*	
		For Stainless Steel, Add	*110.38*	
04 05 19 13-0211	CLF	#13 (For 13" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	124.72	
		For Hot-Dipped Galvanized, Add	*28.34*	
		For Stainless Steel, Add	*113.36*	
04 05 19 13-0212	CLF	#14 (For 14" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	129.71	
		For Hot-Dipped Galvanized, Add	*29.42*	
		For Stainless Steel, Add	*117.68*	
04 05 19 13-0213	CLF	#16 (For 16" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	158.62	
		For Hot-Dipped Galvanized, Add	*41.33*	
		For Stainless Steel, Add	*165.32*	
04 05 19 13-0214	CLF	#18 (For 18" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	167.88	
		For Hot-Dipped Galvanized, Add	*43.70*	
		For Stainless Steel, Add	*174.78*	
04 05 19 13-0215	CLF	#20 (For 20" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	237.34	
		For Hot-Dipped Galvanized, Add	*75.58*	
		For Stainless Steel, Add	*302.32*	

04 05 19 13-0216 Two-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0204)*

04 05 19 13-0217	CLF	#4 (For 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	110.16	
		For Hot-Dipped Galvanized, Add	*32.97*	
		For Stainless Steel, Add	*131.86*	
04 05 19 13-0218	CLF	#6 (For 6" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	114.10	
		For Hot-Dipped Galvanized, Add	*33.43*	
		For Stainless Steel, Add	*133.70*	
04 05 19 13-0219	CLF	#8 (For 8" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	120.29	
		For Hot-Dipped Galvanized, Add	*34.38*	
		For Stainless Steel, Add	*137.50*	
04 05 19 13-0220	CLF	#10 (For 10" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	127.86	
		For Hot-Dipped Galvanized, Add	*35.58*	
		For Stainless Steel, Add	*142.32*	
04 05 19 13-0221	CLF	#12 (For 12" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	136.68	
		For Hot-Dipped Galvanized, Add	*36.84*	
		For Stainless Steel, Add	*147.36*	
04 05 19 13-0222	CLF	#13 (For 13" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	143.44	
		For Hot-Dipped Galvanized, Add	*37.71*	
		For Stainless Steel, Add	*150.84*	
04 05 19 13-0223	CLF	#14 (For 14" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	148.14	
		For Hot-Dipped Galvanized, Add	*38.64*	
		For Stainless Steel, Add	*154.54*	
04 05 19 13-0224	CLF	#16 (For 16" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	183.37	
		For Hot-Dipped Galvanized, Add	*53.71*	
		For Stainless Steel, Add	*214.82*	
04 05 19 13-0225	CLF	#18 (For 18" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	192.63	
		For Hot-Dipped Galvanized, Add	*56.07*	
		For Stainless Steel, Add	*224.28*	
04 05 19 13-0226	CLF	#20 (For 20" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	292.34	
		For Hot-Dipped Galvanized, Add	*105.93*	
		For Stainless Steel, Add	*423.70*	

04 05 19 13-0227 Two-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0204)*

04 05 19 13-0228	CLF	#4 (For 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	138.28	
		For Hot-Dipped Galvanized, Add	*47.03*	
		For Stainless Steel, Add	*188.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0229	CLF	#6 (For 6" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	142.87	
		For Hot-Dipped Galvanized, Add	*47.62*	
		For Stainless Steel, Add	*190.48*	
04 05 19 13-0230	CLF	#8 (For 8" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	149.76	
		For Hot-Dipped Galvanized, Add	*49.37*	
		For Stainless Steel, Add	*197.46*	
04 05 19 13-0231	CLF	#10 (For 10" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	160.21	
		For Hot-Dipped Galvanized, Add	*51.76*	
		For Stainless Steel, Add	*207.02*	
04 05 19 13-0232	CLF	#12 (For 12" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	171.84	
		For Hot-Dipped Galvanized, Add	*54.74*	
		For Stainless Steel, Add	*218.94*	
04 05 19 13-0233	CLF	#13 (For 13" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	180.23	
		For Hot-Dipped Galvanized, Add	*56.10*	
		For Stainless Steel, Add	*224.38*	
04 05 19 13-0234	CLF	#14 (For 14" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	187.11	
		For Hot-Dipped Galvanized, Add	*58.12*	
		For Stainless Steel, Add	*232.48*	
04 05 19 13-0235	CLF	#16 (For 16" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	239.15	
		For Hot-Dipped Galvanized, Add	*81.59*	
		For Stainless Steel, Add	*326.34*	
04 05 19 13-0236	CLF	#18 (For 18" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	252.92	
		For Hot-Dipped Galvanized, Add	*86.21*	
		For Stainless Steel, Add	*344.82*	
04 05 19 13-0237	CLF	#20 (For 20" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	384.28	
		For Hot-Dipped Galvanized, Add	*149.05*	
		For Stainless Steel, Add	*596.20*	

04 05 19 13-0238 Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0204)*

04 05 19 13-0239	CLF	#4 (For 4" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	120.55	
		For Hot-Dipped Galvanized, Add	*38.17*	
		For Stainless Steel, Add	*152.66*	
04 05 19 13-0240	CLF	#6 (For 6" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	125.24	
		For Hot-Dipped Galvanized, Add	*39.00*	
		For Stainless Steel, Add	*155.98*	
04 05 19 13-0241	CLF	#8 (For 8" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	131.44	
		For Hot-Dipped Galvanized, Add	*39.95*	
		For Stainless Steel, Add	*159.80*	
04 05 19 13-0242	CLF	#10 (For 10" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	138.75	
		For Hot-Dipped Galvanized, Add	*41.03*	
		For Stainless Steel, Add	*164.10*	
04 05 19 13-0243	CLF	#12 (For 12" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	147.17	
		For Hot-Dipped Galvanized, Add	*42.08*	
		For Stainless Steel, Add	*168.32*	
04 05 19 13-0244	CLF	#13 (For 13" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	153.22	
		For Hot-Dipped Galvanized, Add	*42.59*	
		For Stainless Steel, Add	*170.36*	
04 05 19 13-0245	CLF	#14 (For 14" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	157.79	
		For Hot-Dipped Galvanized, Add	*43.18*	
		For Stainless Steel, Add	*172.72*	
04 05 19 13-0246	CLF	#16 (For 16" Walls), Mill Galvanized, Three-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	178.67	
		For Hot-Dipped Galvanized, Add	*51.35*	
		For Stainless Steel, Add	*205.38*	

04 05 19 13-0247 Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0204)*

04 05 19 13-0248	CLF	#4 (For 4" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	139.13	
		For Hot-Dipped Galvanized, Add	*47.46*	
		For Stainless Steel, Add	*189.82*	
04 05 19 13-0249	CLF	#6 (For 6" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	144.07	
		For Hot-Dipped Galvanized, Add	*48.41*	
		For Stainless Steel, Add	*193.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0250	CLF	#8 (For 8" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	150.46	
		For Hot-Dipped Galvanized, Add	*49.46*	
		For Stainless Steel, Add	*197.84*	
04 05 19 13-0251	CLF	#10 (For 10" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	157.58	
		For Hot-Dipped Galvanized, Add	*50.44*	
		For Stainless Steel, Add	*201.76*	
04 05 19 13-0252	CLF	#12 (For 12" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	165.94	
		For Hot-Dipped Galvanized, Add	*51.47*	
		For Stainless Steel, Add	*205.86*	
04 05 19 13-0253	CLF	#13 (For 13" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	172.08	
		For Hot-Dipped Galvanized, Add	*52.03*	
		For Stainless Steel, Add	*208.12*	
04 05 19 13-0254	CLF	#14 (For 14" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	176.52	
		For Hot-Dipped Galvanized, Add	*52.54*	
		For Stainless Steel, Add	*210.16*	
04 05 19 13-0255	CLF	#16 (For 16" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	203.39	
		For Hot-Dipped Galvanized, Add	*63.72*	
		For Stainless Steel, Add	*254.86*	
04 05 19 13-0256	CLF	#18 (For 18" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	258.34	
		For Hot-Dipped Galvanized, Add	*88.93*	
		For Stainless Steel, Add	*355.70*	

04 05 19 13-0257 Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0204)*

04 05 19 13-0258	CLF	#4 (For 4" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	157.13	
		For Hot-Dipped Galvanized, Add	*56.46*	
		For Stainless Steel, Add	*225.82*	
04 05 19 13-0259	CLF	#6 (For 6" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	164.40	
		For Hot-Dipped Galvanized, Add	*58.39*	
		For Stainless Steel, Add	*233.54*	
04 05 19 13-0260	CLF	#8 (For 8" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	171.66	
		For Hot-Dipped Galvanized, Add	*60.32*	
		For Stainless Steel, Add	*241.26*	
04 05 19 13-0261	CLF	#10 (For 10" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	181.93	
		For Hot-Dipped Galvanized, Add	*62.62*	
		For Stainless Steel, Add	*250.46*	
04 05 19 13-0262	CLF	#12 (For 12" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	192.20	
		For Hot-Dipped Galvanized, Add	*64.92*	
		For Stainless Steel, Add	*259.66*	
04 05 19 13-0263	CLF	#13 (For 13" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	200.31	
		For Hot-Dipped Galvanized, Add	*66.14*	
		For Stainless Steel, Add	*264.54*	
04 05 19 13-0264	CLF	#14 (For 14" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	205.24	
		For Hot-Dipped Galvanized, Add	*67.19*	
		For Stainless Steel, Add	*268.74*	
04 05 19 13-0265	CLF	#16 (For 16" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	214.56	
		For Hot-Dipped Galvanized, Add	*69.29*	
		For Stainless Steel, Add	*277.16*	
04 05 19 13-0266	CLF	#18 (For 18" Walls), Mill Galvanized, Three-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	282.46	
		For Hot-Dipped Galvanized, Add	*100.98*	
		For Stainless Steel, Add	*403.90*	

04 05 19 13-0267 Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0204)*

04 05 19 13-0268	CLF	#4 (For 4" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	163.34	
		For Hot-Dipped Galvanized, Add	*59.56*	
		For Stainless Steel, Add	*238.24*	
04 05 19 13-0269	CLF	#6 (For 6" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	168.03	
		For Hot-Dipped Galvanized, Add	*60.39*	
		For Stainless Steel, Add	*241.56*	
04 05 19 13-0270	CLF	#8 (For 8" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	174.23	
		For Hot-Dipped Galvanized, Add	*61.35*	
		For Stainless Steel, Add	*245.38*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0271	CLF	#10 (For 10" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	181.54	
		For Hot-Dipped Galvanized, Add	*62.42*	
		For Stainless Steel, Add	*249.68*	
04 05 19 13-0272	CLF	#12 (For 12" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	189.95	
		For Hot-Dipped Galvanized, Add	*63.47*	
		For Stainless Steel, Add	*253.88*	
04 05 19 13-0273	CLF	#13 (For 13" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	196.01	
		For Hot-Dipped Galvanized, Add	*63.99*	
		For Stainless Steel, Add	*255.94*	
04 05 19 13-0274	CLF	#14 (For 14" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	200.57	
		For Hot-Dipped Galvanized, Add	*64.57*	
		For Stainless Steel, Add	*258.28*	
04 05 19 13-0275	CLF	#16 (For 16" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	221.45	
		For Hot-Dipped Galvanized, Add	*72.74*	
		For Stainless Steel, Add	*290.94*	
04 05 19 13-0276	CLF	#18 (For 18" Walls), Mill Galvanized, Four-Wire, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	258.69	
		For Hot-Dipped Galvanized, Add	*89.10*	
		For Stainless Steel, Add	*356.38*	

04 05 19 13-0277 Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0204)*

04 05 19 13-0278	CLF	#4 (For 4" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	181.92	
		For Hot-Dipped Galvanized, Add	*68.85*	
		For Stainless Steel, Add	*275.40*	
04 05 19 13-0279	CLF	#6 (For 6" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	186.86	
		For Hot-Dipped Galvanized, Add	*69.81*	
		For Stainless Steel, Add	*279.22*	
04 05 19 13-0280	CLF	#8 (For 8" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	193.25	
		For Hot-Dipped Galvanized, Add	*70.86*	
		For Stainless Steel, Add	*283.42*	
04 05 19 13-0281	CLF	#10 (For 10" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	200.37	
		For Hot-Dipped Galvanized, Add	*71.84*	
		For Stainless Steel, Add	*287.34*	
04 05 19 13-0282	CLF	#12 (For 12" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	208.73	
		For Hot-Dipped Galvanized, Add	*72.86*	
		For Stainless Steel, Add	*291.44*	
04 05 19 13-0283	CLF	#13 (For 13" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	214.86	
		For Hot-Dipped Galvanized, Add	*73.42*	
		For Stainless Steel, Add	*293.68*	
04 05 19 13-0284	CLF	#14 (For 14" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	219.31	
		For Hot-Dipped Galvanized, Add	*73.94*	
		For Stainless Steel, Add	*295.74*	
04 05 19 13-0285	CLF	#16 (For 16" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	246.18	
		For Hot-Dipped Galvanized, Add	*85.11*	
		For Stainless Steel, Add	*340.44*	
04 05 19 13-0286	CLF	#18 (For 18" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type, Masonry Wall Reinforcement	301.12	
		For Hot-Dipped Galvanized, Add	*110.32*	
		For Stainless Steel, Add	*441.26*	

04 05 19 13-0287 Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement *(04 05 19 13-0204)*

04 05 19 13-0288	CLF	#4 (For 4" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	199.91	
		For Hot-Dipped Galvanized, Add	*77.85*	
		For Stainless Steel, Add	*311.38*	
04 05 19 13-0289	CLF	#6 (For 6" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	207.19	
		For Hot-Dipped Galvanized, Add	*79.78*	
		For Stainless Steel, Add	*319.12*	
04 05 19 13-0290	CLF	#8 (For 8" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	214.45	
		For Hot-Dipped Galvanized, Add	*81.71*	
		For Stainless Steel, Add	*326.84*	
04 05 19 13-0291	CLF	#10 (For 10" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	224.72	
		For Hot-Dipped Galvanized, Add	*84.01*	
		For Stainless Steel, Add	*336.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0292	CLF	#12 (For 12" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	234.98	
		For Hot-Dipped Galvanized, Add	*86.31*	
		For Stainless Steel, Add	*345.22*	
04 05 19 13-0293	CLF	#13 (For 13" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	243.10	
		For Hot-Dipped Galvanized, Add	*87.53*	
		For Stainless Steel, Add	*350.12*	
04 05 19 13-0294	CLF	#14 (For 14" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	248.03	
		For Hot-Dipped Galvanized, Add	*88.58*	
		For Stainless Steel, Add	*354.32*	
04 05 19 13-0295	CLF	#16 (For 16" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	257.35	
		For Hot-Dipped Galvanized, Add	*90.69*	
		For Stainless Steel, Add	*362.74*	
04 05 19 13-0296	CLF	#18 (For 18" Walls), Mill Galvanized, Four-Wire, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type, Masonry Wall Reinforcement	325.25	
		For Hot-Dipped Galvanized, Add	*122.37*	
		For Stainless Steel, Add	*489.48*	

04 05 19 13-0297 Truss-Type With Tabs, Masonry Wall Reinforcement *(04 05 19 13-0203)*

04 05 19 13-0298 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement *(04 05 19 13-0297)*

04 05 19 13-0299	CLF	#8 (For 8" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	131.91	
		For Hot-Dipped Galvanized, Add	*37.25*	
		For Stainless Steel, Add	*149.00*	
04 05 19 13-0300	CLF	#10 (For 10" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	141.88	
		For Hot-Dipped Galvanized, Add	*39.05*	
		For Stainless Steel, Add	*156.18*	
04 05 19 13-0301	CLF	#12 (For 12" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	152.83	
		For Hot-Dipped Galvanized, Add	*41.33*	
		For Stainless Steel, Add	*165.32*	
04 05 19 13-0302	CLF	#13 (For 13" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	162.34	
		For Hot-Dipped Galvanized, Add	*42.90*	
		For Stainless Steel, Add	*171.60*	
04 05 19 13-0303	CLF	#14 (For 14" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	168.15	
		For Hot-Dipped Galvanized, Add	*44.21*	
		For Stainless Steel, Add	*176.82*	
04 05 19 13-0304	CLF	#16 (For 16" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	180.20	
		For Hot-Dipped Galvanized, Add	*47.37*	
		For Stainless Steel, Add	*189.46*	
04 05 19 13-0305	CLF	#18 (For 18" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	191.62	
		For Hot-Dipped Galvanized, Add	*50.52*	
		For Stainless Steel, Add	*202.08*	

04 05 19 13-0306 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement *(04 05 19 13-0297)*

04 05 19 13-0307	CLF	#8 (For 8" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	155.12	
		For Hot-Dipped Galvanized, Add	*48.86*	
		For Stainless Steel, Add	*195.42*	
04 05 19 13-0308	CLF	#10 (For 10" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	165.14	
		For Hot-Dipped Galvanized, Add	*50.68*	
		For Stainless Steel, Add	*202.70*	
04 05 19 13-0309	CLF	#12 (For 12" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	175.99	
		For Hot-Dipped Galvanized, Add	*52.91*	
		For Stainless Steel, Add	*211.64*	
04 05 19 13-0310	CLF	#13 (For 13" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	185.54	
		For Hot-Dipped Galvanized, Add	*54.50*	
		For Stainless Steel, Add	*218.00*	
04 05 19 13-0311	CLF	#14 (For 14" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	191.21	
		For Hot-Dipped Galvanized, Add	*55.74*	
		For Stainless Steel, Add	*222.94*	
04 05 19 13-0312	CLF	#16 (For 16" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	203.30	
		For Hot-Dipped Galvanized, Add	*58.92*	
		For Stainless Steel, Add	*235.66*	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0313	CLF	#18 (For 18" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	214.83	
		For Hot-Dipped Galvanized, Add	*62.13*	
		For Stainless Steel, Add	*248.50*	

04 05 19 13-0314 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement *(04 05 19 13-0297)*

04 05 19 13-0315	CLF	#8 (For 8" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	176.63	
		For Hot-Dipped Galvanized, Add	*59.61*	
		For Stainless Steel, Add	*238.44*	
04 05 19 13-0316	CLF	#10 (For 10" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	188.66	
		For Hot-Dipped Galvanized, Add	*62.44*	
		For Stainless Steel, Add	*249.74*	
04 05 19 13-0317	CLF	#12 (For 12" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	202.79	
		For Hot-Dipped Galvanized, Add	*66.31*	
		For Stainless Steel, Add	*265.24*	
04 05 19 13-0318	CLF	#13 (For 13" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	213.37	
		For Hot-Dipped Galvanized, Add	*68.42*	
		For Stainless Steel, Add	*273.66*	
04 05 19 13-0319	CLF	#14 (For 14" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	220.78	
		For Hot-Dipped Galvanized, Add	*70.52*	
		For Stainless Steel, Add	*282.08*	
04 05 19 13-0320	CLF	#16 (For 16" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	236.01	
		For Hot-Dipped Galvanized, Add	*75.27*	
		For Stainless Steel, Add	*301.08*	
04 05 19 13-0321	CLF	#18 (For 18" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Tabs, Masonry Wall Reinforcement	248.98	
		For Hot-Dipped Galvanized, Add	*79.20*	
		For Stainless Steel, Add	*316.80*	

04 05 19 13-0322 Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0203)*

04 05 19 13-0323 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0322)*

04 05 19 13-0324	CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	204.25	
		For Hot-Dipped Galvanized, Add	*73.42*	
		For Stainless Steel, Add	*293.68*	
04 05 19 13-0325	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	211.66	
		For Hot-Dipped Galvanized, Add	*73.94*	
		For Stainless Steel, Add	*295.74*	
04 05 19 13-0326	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	221.63	
		For Hot-Dipped Galvanized, Add	*75.73*	
		For Stainless Steel, Add	*302.92*	
04 05 19 13-0327	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	235.98	
		For Hot-Dipped Galvanized, Add	*78.12*	
		For Stainless Steel, Add	*312.48*	
04 05 19 13-0328	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	247.36	
		For Hot-Dipped Galvanized, Add	*80.95*	
		For Stainless Steel, Add	*323.78*	
04 05 19 13-0329	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	259.35	
		For Hot-Dipped Galvanized, Add	*84.39*	
		For Stainless Steel, Add	*337.54*	

04 05 19 13-0330 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0322)*

04 05 19 13-0331	CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	240.14	
		For Hot-Dipped Galvanized, Add	*91.37*	
		For Stainless Steel, Add	*365.46*	
04 05 19 13-0332	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	248.06	
		For Hot-Dipped Galvanized, Add	*92.14*	
		For Stainless Steel, Add	*368.54*	
04 05 19 13-0333	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	258.04	
		For Hot-Dipped Galvanized, Add	*93.94*	
		For Stainless Steel, Add	*375.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0334	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	272.28	
		For Hot-Dipped Galvanized, Add	*96.27*	
		For Stainless Steel, Add	*385.08*	
04 05 19 13-0335	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	283.20	
		For Hot-Dipped Galvanized, Add	*98.87*	
		For Stainless Steel, Add	*395.46*	
04 05 19 13-0336	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	293.54	
		For Hot-Dipped Galvanized, Add	*101.48*	
		For Stainless Steel, Add	*405.92*	
04 05 19 13-0337		3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0322)*		
04 05 19 13-0338	CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	259.81	
		For Hot-Dipped Galvanized, Add	*101.20*	
		For Stainless Steel, Add	*404.80*	
04 05 19 13-0339	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	267.73	
		For Hot-Dipped Galvanized, Add	*101.97*	
		For Stainless Steel, Add	*407.88*	
04 05 19 13-0340	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	279.76	
		For Hot-Dipped Galvanized, Add	*104.80*	
		For Stainless Steel, Add	*419.18*	
04 05 19 13-0341	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	296.72	
		For Hot-Dipped Galvanized, Add	*108.49*	
		For Stainless Steel, Add	*433.96*	
04 05 19 13-0342	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	311.79	
		For Hot-Dipped Galvanized, Add	*113.16*	
		For Stainless Steel, Add	*452.64*	
04 05 19 13-0343	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Composite Walls, Masonry Wall Reinforcement	327.28	
		For Hot-Dipped Galvanized, Add	*118.35*	
		For Stainless Steel, Add	*473.40*	
04 05 19 13-0344		Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0203)*		
04 05 19 13-0345		9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0344)*		
04 05 19 13-0346	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	217.46	
		For Hot-Dipped Galvanized, Add	*76.84*	
		For Stainless Steel, Add	*307.34*	
04 05 19 13-0347	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	224.92	
		For Hot-Dipped Galvanized, Add	*77.38*	
		For Stainless Steel, Add	*309.50*	
04 05 19 13-0348	CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	237.98	
		For Hot-Dipped Galvanized, Add	*79.12*	
		For Stainless Steel, Add	*316.48*	
04 05 19 13-0349	CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	248.44	
		For Hot-Dipped Galvanized, Add	*81.49*	
		For Stainless Steel, Add	*325.94*	
04 05 19 13-0350	CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	259.30	
		For Hot-Dipped Galvanized, Add	*84.36*	
		For Stainless Steel, Add	*337.44*	
04 05 19 13-0351	CLF	#20 (For 14" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	268.70	
		For Hot-Dipped Galvanized, Add	*87.29*	
		For Stainless Steel, Add	*349.14*	
04 05 19 13-0352		3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0344)*		
04 05 19 13-0353	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	253.25	
		For Hot-Dipped Galvanized, Add	*94.73*	
		For Stainless Steel, Add	*378.92*	
04 05 19 13-0354	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	261.17	
		For Hot-Dipped Galvanized, Add	*95.50*	
		For Stainless Steel, Add	*382.00*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0355		CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	274.33	
			For Hot-Dipped Galvanized, Add	*97.30*	
			For Stainless Steel, Add	*389.18*	
04 05 19 13-0356		CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	284.79	
			For Hot-Dipped Galvanized, Add	*99.66*	
			For Stainless Steel, Add	*398.64*	
04 05 19 13-0357		CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	295.08	
			For Hot-Dipped Galvanized, Add	*102.25*	
			For Stainless Steel, Add	*409.00*	
04 05 19 13-0358		CLF	#20 (For 14" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	304.79	
			For Hot-Dipped Galvanized, Add	*105.33*	
			For Stainless Steel, Add	*421.32*	

04 05 19 13-0359 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0344)*

04 05 19 13-0360		CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	272.97	
			For Hot-Dipped Galvanized, Add	*104.59*	
			For Stainless Steel, Add	*418.36*	
04 05 19 13-0361		CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	280.83	
			For Hot-Dipped Galvanized, Add	*105.33*	
			For Stainless Steel, Add	*421.32*	
04 05 19 13-0362		CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	296.15	
			For Hot-Dipped Galvanized, Add	*108.21*	
			For Stainless Steel, Add	*432.82*	
04 05 19 13-0363		CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	309.23	
			For Hot-Dipped Galvanized, Add	*111.88*	
			For Stainless Steel, Add	*447.52*	
04 05 19 13-0364		CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	323.63	
			For Hot-Dipped Galvanized, Add	*116.53*	
			For Stainless Steel, Add	*466.10*	
04 05 19 13-0365		CLF	#20 (For 14" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Adjustable Tabs For Cavity Walls, Masonry Wall Reinforcement	334.27	
			For Hot-Dipped Galvanized, Add	*120.07*	
			For Stainless Steel, Add	*480.28*	

04 05 19 13-0366 Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0203)*

04 05 19 13-0367 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0366)*

04 05 19 13-0368		CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	203.65	
			For Hot-Dipped Galvanized, Add	*69.93*	
			For Stainless Steel, Add	*279.72*	
			For Seismic Hook And Eye, Add	*30.07*	
04 05 19 13-0369		CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	211.01	
			For Hot-Dipped Galvanized, Add	*70.42*	
			For Stainless Steel, Add	*281.68*	
			For Seismic Hook And Eye, Add	*30.28*	
04 05 19 13-0370		CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	223.61	
			For Hot-Dipped Galvanized, Add	*71.94*	
			For Stainless Steel, Add	*287.74*	
			For Seismic Hook And Eye, Add	*30.93*	
04 05 19 13-0371		CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	233.70	
			For Hot-Dipped Galvanized, Add	*74.12*	
			For Stainless Steel, Add	*296.46*	
			For Seismic Hook And Eye, Add	*31.87*	
04 05 19 13-0372		CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	243.33	
			For Hot-Dipped Galvanized, Add	*76.38*	
			For Stainless Steel, Add	*305.50*	
			For Seismic Hook And Eye, Add	*32.84*	
04 05 19 13-0373		CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement	252.42	
			For Hot-Dipped Galvanized, Add	*79.15*	
			For Stainless Steel, Add	*316.58*	
			For Seismic Hook And Eye, Add	*34.03*	

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0374		3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0366)*			
04 05 19 13-0375	CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		236.61	
		For Hot-Dipped Galvanized, Add		*86.41*	
		For Stainless Steel, Add		*345.64*	
		For Seismic Hook And Eye, Add		*37.16*	
04 05 19 13-0376	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		244.33	
		For Hot-Dipped Galvanized, Add		*87.08*	
		For Stainless Steel, Add		*348.32*	
		For Seismic Hook And Eye, Add		*37.44*	
04 05 19 13-0377	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		256.67	
		For Hot-Dipped Galvanized, Add		*88.47*	
		For Stainless Steel, Add		*353.86*	
		For Seismic Hook And Eye, Add		*38.04*	
04 05 19 13-0378	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		266.56	
		For Hot-Dipped Galvanized, Add		*90.55*	
		For Stainless Steel, Add		*362.18*	
		For Seismic Hook And Eye, Add		*38.93*	
04 05 19 13-0379	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		276.14	
		For Hot-Dipped Galvanized, Add		*92.78*	
		For Stainless Steel, Add		*371.12*	
		For Seismic Hook And Eye, Add		*39.90*	
04 05 19 13-0380	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		284.62	
		For Hot-Dipped Galvanized, Add		*95.25*	
		For Stainless Steel, Add		*380.98*	
		For Seismic Hook And Eye, Add		*40.96*	
04 05 19 13-0381		3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement *(04 05 19 13-0366)*			
04 05 19 13-0382	CLF	#8 (For 4" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		256.54	
		For Hot-Dipped Galvanized, Add		*96.38*	
		For Stainless Steel, Add		*385.50*	
		For Seismic Hook And Eye, Add		*41.44*	
04 05 19 13-0383	CLF	#10 (For 6" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		264.40	
		For Hot-Dipped Galvanized, Add		*97.12*	
		For Stainless Steel, Add		*388.46*	
		For Seismic Hook And Eye, Add		*41.76*	
04 05 19 13-0384	CLF	#12 (For 8" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		279.37	
		For Hot-Dipped Galvanized, Add		*99.82*	
		For Stainless Steel, Add		*399.26*	
		For Seismic Hook And Eye, Add		*42.92*	
04 05 19 13-0385	CLF	#14 (For 10" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		292.13	
		For Hot-Dipped Galvanized, Add		*103.33*	
		For Stainless Steel, Add		*413.32*	
		For Seismic Hook And Eye, Add		*44.43*	
04 05 19 13-0386	CLF	#16 (For 12" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		306.12	
		For Hot-Dipped Galvanized, Add		*107.77*	
		For Stainless Steel, Add		*431.08*	
		For Seismic Hook And Eye, Add		*46.34*	
04 05 19 13-0387	CLF	#18 (For 14" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Composite Walls, Masonry Wall Reinforcement		319.53	
		For Hot-Dipped Galvanized, Add		*112.70*	
		For Stainless Steel, Add		*450.80*	
		For Seismic Hook And Eye, Add		*48.46*	
04 05 19 13-0388		Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0203)*			
04 05 19 13-0389		9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall *(04 05 19 13-0388)*			
04 05 19 13-0390	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement		216.60	
		For Hot-Dipped Galvanized, Add		*73.22*	
		For Stainless Steel, Add		*292.86*	
		For Seismic Hook And Eye, Add		*31.48*	
04 05 19 13-0391	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement		227.20	
		For Hot-Dipped Galvanized, Add		*73.73*	
		For Stainless Steel, Add		*294.92*	
		For Seismic Hook And Eye, Add		*31.70*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 13-0392	CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	236.16	
		For Hot-Dipped Galvanized, Add	*75.35*	
		For Stainless Steel, Add	*301.38*	
		For Seismic Hook And Eye, Add	*32.40*	
04 05 19 13-0393	CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	245.90	
		For Hot-Dipped Galvanized, Add	*77.66*	
		For Stainless Steel, Add	*310.64*	
		For Seismic Hook And Eye, Add	*33.39*	
04 05 19 13-0394	CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 9 Gauge Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	254.79	
		For Hot-Dipped Galvanized, Add	*80.33*	
		For Stainless Steel, Add	*321.32*	
		For Seismic Hook And Eye, Add	*34.54*	

04 05 19 13-0395 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0388)*

04 05 19 13-0396	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	252.13	
		For Hot-Dipped Galvanized, Add	*90.98*	
		For Stainless Steel, Add	*363.92*	
		For Seismic Hook And Eye, Add	*39.12*	
04 05 19 13-0397	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	262.83	
		For Hot-Dipped Galvanized, Add	*91.55*	
		For Stainless Steel, Add	*366.18*	
		For Seismic Hook And Eye, Add	*39.36*	
04 05 19 13-0398	CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	271.69	
		For Hot-Dipped Galvanized, Add	*93.11*	
		For Stainless Steel, Add	*372.44*	
		For Seismic Hook And Eye, Add	*40.04*	
04 05 19 13-0399	CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	281.01	
		For Hot-Dipped Galvanized, Add	*95.22*	
		For Stainless Steel, Add	*380.86*	
		For Seismic Hook And Eye, Add	*40.94*	
04 05 19 13-0400	CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 9 Gauge Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	288.88	
		For Hot-Dipped Galvanized, Add	*97.38*	
		For Stainless Steel, Add	*389.50*	
		For Seismic Hook And Eye, Add	*41.87*	

04 05 19 13-0401 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement *(04 05 19 13-0388)*

04 05 19 13-0402	CLF	#10 (For 4" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	269.38	
		For Hot-Dipped Galvanized, Add	*99.61*	
		For Stainless Steel, Add	*398.42*	
		For Seismic Hook And Eye, Add	*42.83*	
04 05 19 13-0403	CLF	#12 (For 6" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	280.39	
		For Hot-Dipped Galvanized, Add	*100.33*	
		For Stainless Steel, Add	*401.30*	
		For Seismic Hook And Eye, Add	*43.14*	
04 05 19 13-0404	CLF	#14 (For 8" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	291.56	
		For Hot-Dipped Galvanized, Add	*103.05*	
		For Stainless Steel, Add	*412.18*	
		For Seismic Hook And Eye, Add	*44.31*	
04 05 19 13-0405	CLF	#16 (For 10" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	303.66	
		For Hot-Dipped Galvanized, Add	*106.54*	
		For Stainless Steel, Add	*426.16*	
		For Seismic Hook And Eye, Add	*45.81*	
04 05 19 13-0406	CLF	#18 (For 12" + 2" + 4" Walls), Mill Galvanized, 3/16" Side Rods, 3/16" Cross Rods, Truss-Type With Hook And Eye Ties For Cavity Walls, Masonry Wall Reinforcement	316.09	
		For Hot-Dipped Galvanized, Add	*110.98*	
		For Stainless Steel, Add	*443.92*	
		For Seismic Hook And Eye, Add	*47.72*	

04 05 19 16 Masonry Anchors *(04 05 19)*

04 05 19 16-0001 Rectangular, Wire Masonry Wall Ties *(04 05 19 16)*

04 05 19 16-0002 Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Ties *(04 05 19 16-0001)*

04 05 19 16-0003	EA	2" Width x 4" Length, 3/16" Diameter, Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Tie	1.46
04 05 19 16-0004	EA	2" Width x 6" Length, 3/16" Diameter, Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Tie	1.54
04 05 19 16-0005	EA	2" Width x 8" Length, 3/16" Diameter, Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Tie	1.62
04 05 19 16-0006	EA	2" Width x 10" Length, 3/16" Diameter, Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Tie	1.72
04 05 19 16-0007	EA	2" Width x 12" Length, 3/16" Diameter, Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Tie	1.83

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 16-0008	EA	4" Width x 6" Length, 3/16" Diameter, Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Tie	1.62	
04 05 19 16-0009	EA	4" Width x 8" Length, 3/16" Diameter, Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Tie	1.72	
04 05 19 16-0010	EA	4" Width x 10" Length, 3/16" Diameter, Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Tie	1.83	
04 05 19 16-0011	EA	4" Width x 12" Length, 3/16" Diameter, Hot-Dipped Galvanized, Rectangular, Wire Masonry Wall Tie	1.93	
04 05 19 16-0012		Mill Galvanized, Rectangular, Wire Masonry Wall Ties *(04 05 19 16-0001)*		
04 05 19 16-0013	EA	2" Width x 4" Length, 3/16" Diameter, Mill Galvanized, Rectangular, Wire Masonry Wall Tie	1.31	
04 05 19 16-0014	EA	2" Width x 6" Length, 3/16" Diameter, Mill Galvanized, Rectangular, Wire Masonry Wall Tie	1.34	
04 05 19 16-0015	EA	2" Width x 8" Length, 3/16" Diameter, Mill Galvanized, Rectangular, Wire Masonry Wall Tie	1.38	
04 05 19 16-0016	EA	2" Width x 10" Length, 3/16" Diameter, Mill Galvanized, Rectangular, Wire Masonry Wall Tie	1.43	
04 05 19 16-0017	EA	2" Width x 12" Length, 3/16" Diameter, Mill Galvanized, Rectangular, Wire Masonry Wall Tie	1.49	
04 05 19 16-0018	EA	4" Width x 6" Length, 3/16" Diameter, Mill Galvanized, Rectangular, Wire Masonry Wall Tie	1.38	
04 05 19 16-0019	EA	4" Width x 8" Length, 3/16" Diameter, Mill Galvanized, Rectangular, Wire Masonry Wall Tie	1.43	
04 05 19 16-0020	EA	4" Width x 10" Length, 3/16" Diameter, Mill Galvanized, Rectangular, Wire Masonry Wall Tie	1.49	
04 05 19 16-0021	EA	4" Width x 12" Length, 3/16" Diameter, Mill Galvanized, Rectangular, Wire Masonry Wall Tie	1.55	
04 05 19 16-0022		Z-Type, Wire Masonry Wall Ties *(04 05 19 16)*		
04 05 19 16-0023		Hot-Dipped Galvanized, Z-Type, Wire Masonry Wall Ties *(04 05 19 16-0022)*		
04 05 19 16-0024	EA	6" Length, 2" Bends, 3/16" Diameter, Hot-Dipped Galvanized, Z-Type, Wire Masonry Wall Tie	1.31	
04 05 19 16-0025	EA	8" Length, 2" Bends, 3/16" Diameter, Hot-Dipped Galvanized, Z-Type, Wire Masonry Wall Tie	1.36	
04 05 19 16-0026	EA	10" Length, 2" Bends, 3/16" Diameter, Hot-Dipped Galvanized, Z-Type, Wire Masonry Wall Tie	1.51	
04 05 19 16-0027	EA	12" Length, 2" Bends, 3/16" Diameter, Hot-Dipped Galvanized, Z-Type, Wire Masonry Wall Tie	1.58	
04 05 19 16-0028	EA	6" Length, 2" Bends, 1/4" Diameter, Hot-Dipped Galvanized, Z-Type, Wire Masonry Wall Tie	1.59	
04 05 19 16-0029	EA	8" Length, 2" Bends, 1/4" Diameter, Hot-Dipped Galvanized, Z-Type, Wire Masonry Wall Tie	1.69	
04 05 19 16-0030	EA	10" Length, 2" Bends, 1/4" Diameter, Hot-Dipped Galvanized, Z-Type, Wire Masonry Wall Tie	1.80	
04 05 19 16-0031	EA	12" Length, 2" Bends, 1/4" Diameter, Hot-Dipped Galvanized, Z-Type, Wire Masonry Wall Tie	1.87	
04 05 19 16-0032		Mill Galvanized, Z-Type, Wire Masonry Wall Ties *(04 05 19 16-0022)*		
04 05 19 16-0033	EA	6" Length, 2" Bends, 3/16" Diameter, Mill Galvanized, Z-Type, Wire Masonry Wall Tie	1.20	
04 05 19 16-0034	EA	8" Length, 2" Bends, 3/16" Diameter, Mill Galvanized, Z-Type, Wire Masonry Wall Tie	1.22	
04 05 19 16-0035	EA	10" Length, 2" Bends, 3/16" Diameter, Mill Galvanized, Z-Type, Wire Masonry Wall Tie	1.33	
04 05 19 16-0036	EA	12" Length, 2" Bends, 3/16" Diameter, Mill Galvanized, Z-Type, Wire Masonry Wall Tie	1.36	
04 05 19 16-0037	EA	6" Length, 2" Bends, 1/4" Diameter, Mill Galvanized, Z-Type, Wire Masonry Wall Tie	1.37	
04 05 19 16-0038	EA	8" Length, 2" Bends, 1/4" Diameter, Mill Galvanized, Z-Type, Wire Masonry Wall Tie	1.43	
04 05 19 16-0039	EA	10" Length, 2" Bends, 1/4" Diameter, Mill Galvanized, Z-Type, Wire Masonry Wall Tie	1.49	
04 05 19 16-0040	EA	12" Length, 2" Bends, 1/4" Diameter, Mill Galvanized, Z-Type, Wire Masonry Wall Tie	1.56	
04 05 19 16-0041		Wire Beam Ties *(04 05 19 16)*		
04 05 19 16-0042		Hot-Dipped Galvanized, Wire Beam Ties *(04 05 19 16-0041)*		
04 05 19 16-0043	EA	2" Width x 12" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Beam Tie	1.72	
04 05 19 16-0044	EA	4" Width x 12" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Beam Tie	1.75	
04 05 19 16-0045	EA	6" Width x 12" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Beam Tie	1.79	
04 05 19 16-0046	EA	8" Width x 12" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Beam Tie	1.82	
04 05 19 16-0047	EA	10" Width x 12" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Beam Tie	1.89	
04 05 19 16-0048		Mill Galvanized, Wire Beam Ties *(04 05 19 16-0041)*		
04 05 19 16-0049	EA	2" Width x 12" Length, 3/16" Diameter, Mill Galvanized, Wire Beam Tie	2.02	
04 05 19 16-0050	EA	4" Width x 12" Length, 3/16" Diameter, Mill Galvanized, Wire Beam Tie	2.10	
04 05 19 16-0051	EA	6" Width x 12" Length, 3/16" Diameter, Mill Galvanized, Wire Beam Tie	2.19	
04 05 19 16-0052	EA	8" Width x 12" Length, 3/16" Diameter, Mill Galvanized, Wire Beam Tie	2.23	
04 05 19 16-0053	EA	10" Width x 12" Length, 3/16" Diameter, Mill Galvanized, Wire Beam Tie	2.30	
04 05 19 16-0054		Adjustable Double Pintle, Wire Masonry Wall Ties *(04 05 19 16)*		
04 05 19 16-0055		Hot-Dipped Galvanized, Adjustable Double Pintle, Wire Masonry Wall Ties *(04 05 19 16-0054)*		
04 05 19 16-0056	EA	6" Total Length, 3/16" Diameter, Hot-Dipped Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	1.89	
04 05 19 16-0057	EA	7" Total Length, 3/16" Diameter, Hot-Dipped Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	1.97	
04 05 19 16-0058	EA	8" Total Length, 3/16" Diameter, Hot-Dipped Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	1.99	
04 05 19 16-0059	EA	9" Total Length, 3/16" Diameter, Hot-Dipped Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	2.06	
04 05 19 16-0060	EA	10" Total Length, 3/16" Diameter, Hot-Dipped Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	2.08	
04 05 19 16-0061		Mill Galvanized, Adjustable Double Pintle, Wire Masonry Wall Ties *(04 05 19 16-0054)*		
04 05 19 16-0062	EA	6" Total Length, 3/16" Diameter, Mill Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	1.62	
04 05 19 16-0063	EA	7" Total Length, 3/16" Diameter, Mill Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	1.67	
04 05 19 16-0064	EA	8" Total Length, 3/16" Diameter, Mill Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	1.69	
04 05 19 16-0065	EA	9" Total Length, 3/16" Diameter, Mill Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	1.73	
04 05 19 16-0066	EA	10" Total Length, 3/16" Diameter, Mill Galvanized, Adjustable Double Pintle, Wire Masonry Wall Tie	1.75	
04 05 19 16-0067		Corrugated Buck (Brick) Anchors *(04 05 19 16)*		

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 16-0068		Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchors *(04 05 19 16-0067)*		
04 05 19 16-0069	EA	3-1/2" Length, 1-1/4" Width, 16 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.27	
04 05 19 16-0070	EA	4-1/2" Length, 1-1/4" Width, 16 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.35	
04 05 19 16-0071	EA	5-1/2" Length, 1-1/4" Width, 16 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.43	
04 05 19 16-0072	EA	6-1/2" Length, 1-1/4" Width, 16 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.52	
04 05 19 16-0073	EA	7-1/2" Length, 1-1/4" Width, 16 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.60	
04 05 19 16-0074	EA	3-1/2" Length, 1-1/4" Width, 14 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.34	
04 05 19 16-0075	EA	4-1/2" Length, 1-1/4" Width, 14 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.43	
04 05 19 16-0076	EA	5-1/2" Length, 1-1/4" Width, 14 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.52	
04 05 19 16-0077	EA	6-1/2" Length, 1-1/4" Width, 14 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.60	
04 05 19 16-0078	EA	7-1/2" Length, 1-1/4" Width, 14 Gauge, Hot-Dipped Galvanized, Corrugated Buck (Brick) Anchor	2.69	
04 05 19 16-0079		Mill Galvanized, Corrugated Buck (Brick) Anchors *(04 05 19 16-0067)*		
04 05 19 16-0080	EA	3-1/2" Length, 1-1/4" Width, 16 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	1.97	
04 05 19 16-0081	EA	4-1/2" Length, 1-1/4" Width, 16 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	2.04	
04 05 19 16-0082	EA	5-1/2" Length, 1-1/4" Width, 16 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	2.10	
04 05 19 16-0083	EA	6-1/2" Length, 1-1/4" Width, 16 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	2.16	
04 05 19 16-0084	EA	7-1/2" Length, 1-1/4" Width, 16 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	2.22	
04 05 19 16-0085	EA	3-1/2" Length, 1-1/4" Width, 14 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	2.03	
04 05 19 16-0086	EA	4-1/2" Length, 1-1/4" Width, 14 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	2.09	
04 05 19 16-0087	EA	5-1/2" Length, 1-1/4" Width, 14 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	2.16	
04 05 19 16-0088	EA	6-1/2" Length, 1-1/4" Width, 14 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	2.22	
04 05 19 16-0089	EA	7-1/2" Length, 1-1/4" Width, 14 Gauge, Mill Galvanized, Corrugated Buck (Brick) Anchor	2.29	
04 05 19 16-0090		Corrugated Wall Ties *(04 05 19 16)*		
04 05 19 16-0091		Hot-Dipped Galvanized, Corrugated Wall Ties *(04 05 19 16-0090)*		
04 05 19 16-0092	EA	7/8" Width, 7" Length, 28 Gauge, Hot-Dipped Galvanized, Corrugated Wall Tie	1.20	
04 05 19 16-0093	EA	7/8" Width, 7" Length, 26 Gauge, Hot-Dipped Galvanized, Corrugated Wall Tie	1.27	
04 05 19 16-0094	EA	7/8" Width, 7" Length, 24 Gauge, Hot-Dipped Galvanized, Corrugated Wall Tie	1.29	
04 05 19 16-0095	EA	7/8" Width, 7" Length, 22 Gauge, Hot-Dipped Galvanized, Corrugated Wall Tie	1.31	
04 05 19 16-0096	EA	7/8" Width, 7" Length, 16 Gauge, Hot-Dipped Galvanized, Corrugated Wall Tie	1.55	
04 05 19 16-0097		Mill Galvanized, Corrugated Wall Ties *(04 05 19 16-0090)*		
04 05 19 16-0098	EA	7/8" Width, 7" Length, 26 Gauge, Mill Galvanized, Corrugated Wall Tie	1.22	
04 05 19 16-0099	EA	7/8" Width, 7" Length, 24 Gauge, Mill Galvanized, Corrugated Wall Tie	1.24	
04 05 19 16-0100	EA	7/8" Width, 7" Length, 22 Gauge, Mill Galvanized, Corrugated Wall Tie	1.26	
04 05 19 16-0101	EA	7/8" Width, 7" Length, 16 Gauge, Mill Galvanized, Corrugated Wall Tie	1.44	
04 05 19 16-0102		Stainless Steel, Corrugated Wall Ties *(04 05 19 16-0090)*		
04 05 19 16-0103	EA	7/8" Width, 7" Length, 28 Gauge, Stainless Steel, Corrugated Wall Tie	1.46	
04 05 19 16-0104	EA	7/8" Width, 7" Length, 26 Gauge, Stainless Steel, Corrugated Wall Tie	1.52	
04 05 19 16-0105	EA	7/8" Width, 7" Length, 24 Gauge, Stainless Steel, Corrugated Wall Tie	1.58	
04 05 19 16-0106	EA	7/8" Width, 7" Length, 22 Gauge, Stainless Steel, Corrugated Wall Tie	1.63	
04 05 19 16-0107	EA	7/8" Width, 7" Length, 16 Gauge, Stainless Steel, Corrugated Wall Tie	1.90	
04 05 19 16-0108		Wire Mesh Wall Ties *(04 05 19 16)*		
		Note: 1/2" square mesh.		
04 05 19 16-0109	EA	3" Width, 8" Length, 16 Gauge, Hot-Dipped Galvanized, Wire Mesh Wall Tie	2.35	
04 05 19 16-0110	EA	3" Width, 12" Length, 16 Gauge, Hot-Dipped Galvanized, Wire Mesh Wall Tie	2.84	
04 05 19 16-0111	EA	6" Width, 8" Length, 16 Gauge, Hot-Dipped Galvanized, Wire Mesh Wall Tie	3.34	
04 05 19 16-0112	EA	6" Width, 12" Length, 16 Gauge, Hot-Dipped Galvanized, Wire Mesh Wall Tie	4.24	
04 05 19 16-0113	EA	10" Width, 8" Length, 16 Gauge, Hot-Dipped Galvanized, Wire Mesh Wall Tie	4.02	
04 05 19 16-0114	EA	10" Width, 12" Length, 16 Gauge, Hot-Dipped Galvanized, Wire Mesh Wall Tie	4.89	
04 05 19 16-0115		Triangle Brick Ties *(04 05 19 16)*		
04 05 19 16-0116		Hot-Dipped Galvanized, Triangle Brick Ties *(04 05 19 16-0115)*		
04 05 19 16-0117	EA	3" Length, 3/16" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.10	
04 05 19 16-0118	EA	3-1/2" Length, 3/16" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.13	
04 05 19 16-0119	EA	4" Length, 3/16" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.17	
04 05 19 16-0120	EA	4-1/2" Length, 3/16" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.25	
04 05 19 16-0121	EA	5" Length, 3/16" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.29	
04 05 19 16-0122	EA	6" Length, 3/16" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.41	
04 05 19 16-0123	EA	7" Length, 3/16" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.48	
04 05 19 16-0124	EA	9" Length, 3/16" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.66	
04 05 19 16-0125	EA	3" Length, 1/4" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.47	
04 05 19 16-0126	EA	3-1/2" Length, 1/4" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.49	
04 05 19 16-0127	EA	4" Length, 1/4" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.52	
04 05 19 16-0128	EA	4-1/2" Length, 1/4" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.60	
04 05 19 16-0129	EA	5" Length, 1/4" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.63	
04 05 19 16-0130	EA	6" Length, 1/4" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.74	
04 05 19 16-0131	EA	7" Length, 1/4" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.80	
04 05 19 16-0132	EA	9" Length, 1/4" Diameter, Hot-Dipped Galvanized, Triangle Brick Tie	2.99	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 16-0133		**Mill Galvanized, Triangle Brick Ties** *(04 05 19 16-0115)*		
04 05 19 16-0134	EA	3" Length, 3/16" Diameter, Mill Galvanized, Triangle Brick Tie	1.92	
04 05 19 16-0135	EA	3-1/2" Length, 3/16" Diameter, Mill Galvanized, Triangle Brick Tie	1.93	
04 05 19 16-0136	EA	4" Length, 3/16" Diameter, Mill Galvanized, Triangle Brick Tie	1.94	
04 05 19 16-0137	EA	4-1/2" Length, 3/16" Diameter, Mill Galvanized, Triangle Brick Tie	2.00	
04 05 19 16-0138	EA	5" Length, 3/16" Diameter, Mill Galvanized, Triangle Brick Tie	2.02	
04 05 19 16-0139	EA	6" Length, 3/16" Diameter, Mill Galvanized, Triangle Brick Tie	2.09	
04 05 19 16-0140	EA	7" Length, 3/16" Diameter, Mill Galvanized, Triangle Brick Tie	2.12	
04 05 19 16-0141	EA	9" Length, 3/16" Diameter, Mill Galvanized, Triangle Brick Tie	2.18	
04 05 19 16-0142	EA	3" Length, 1/4" Diameter, Mill Galvanized, Triangle Brick Tie	2.14	
04 05 19 16-0143	EA	3-1/2" Length, 1/4" Diameter, Mill Galvanized, Triangle Brick Tie	2.16	
04 05 19 16-0144	EA	4" Length, 1/4" Diameter, Mill Galvanized, Triangle Brick Tie	2.18	
04 05 19 16-0145	EA	4-1/2" Length, 1/4" Diameter, Mill Galvanized, Triangle Brick Tie	2.25	
04 05 19 16-0146	EA	5" Length, 1/4" Diameter, Mill Galvanized, Triangle Brick Tie	2.27	
04 05 19 16-0147	EA	6" Length, 1/4" Diameter, Mill Galvanized, Triangle Brick Tie	2.36	
04 05 19 16-0148	EA	7" Length, 1/4" Diameter, Mill Galvanized, Triangle Brick Tie	2.40	
04 05 19 16-0149	EA	9" Length, 1/4" Diameter, Mill Galvanized, Triangle Brick Tie	2.50	
04 05 19 16-0150		**Seismic Veneer Anchors** *(04 05 19 16)*		
04 05 19 16-0151	EA	3-1/2" Length, 1-1/4" Width, Stainless Steel, Seismic Notch Veneer Anchor Note: For horizontal wire attachment. Excludes wire.	5.48	
04 05 19 16-0152		**Slip-Set, Joint Stabilization Anchors** *(04 05 19 16)* Note: For restraining lateral movement at control joints. Field bendable.		
04 05 19 16-0153	EA	9-5/8" Length, 1-5/8" Width, Mill Galvanized, Slip-Set, Joint Stabilization Anchor	6.49	
04 05 19 16-0154	EA	9-5/8" Length, 1-5/8" Width, Hot-Dipped Galvanized, Slip-Set, Joint Stabilization Anchor	7.03	
04 05 19 16-0155	EA	9-5/8" Length, 1-5/8" Width, Stainless Steel, Slip-Set, Joint Stabilization Anchor	5.48	
04 05 19 16-0156		**Strap Partition Top Anchors** *(04 05 19 16)*		
04 05 19 16-0157	EA	12 Gauge Strap, 3/8" Rod, Hot-Dipped Galvanized, Partition Top Anchor	3.78	
04 05 19 16-0158	EA	12 Gauge Strap, 3/8" Rod, Stainless Steel, Partition Top Anchor	5.76	
04 05 19 16-0159		**Rigid Partition Anchors** *(04 05 19 16)*		
04 05 19 16-0160		**Hot-Dipped Galvanized, Rigid Partition Anchors** *(04 05 19 16-0159)*		
04 05 19 16-0161	EA	1" Width, 8" Length, 1/8" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	2.94	
04 05 19 16-0162	EA	1-1/4" Width, 8" Length, 1/8" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	3.17	
04 05 19 16-0163	EA	1-1/2" Width, 8" Length, 1/8" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	3.46	
04 05 19 16-0164	EA	1-3/4" Width, 8" Length, 1/8" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	3.71	
04 05 19 16-0165	EA	2" Width, 8" Length, 1/8" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	3.97	
04 05 19 16-0166	EA	2-1/4" Width, 8" Length, 1/8" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	4.23	
04 05 19 16-0167	EA	1" Width, 8" Length, 1/4" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	3.98	
04 05 19 16-0168	EA	1-1/4" Width, 8" Length, 1/4" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	4.80	
04 05 19 16-0169	EA	1-1/2" Width, 8" Length, 1/4" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	5.62	
04 05 19 16-0170	EA	1-3/4" Width, 8" Length, 1/4" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	6.45	
04 05 19 16-0171	EA	2" Width, 8" Length, 1/4" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	7.27	
04 05 19 16-0172	EA	2-1/4" Width, 8" Length, 1/4" Thick, Hot-Dipped Galvanized, U Or Z Style, Rigid Partition Anchor	8.10	
04 05 19 16-0173		**Mill Galvanized, Rigid Partition Anchors** *(04 05 19 16-0159)*		
04 05 19 16-0174	EA	1" Width, 8" Length, 1/8" Thick, Mill Galvanized, U Or Z Style, Rigid Partition Anchor	2.71	
04 05 19 16-0175	EA	1-1/4" Width, 8" Length, 1/8" Thick, Mill Galvanized, U Or Z Style, Rigid Partition Anchor	2.91	
04 05 19 16-0176	EA	1-1/2" Width, 8" Length, 1/8" Thick, Mill Galvanized, U Or Z Style, Rigid Partition Anchor	3.11	
04 05 19 16-0177	EA	1-3/4" Width, 8" Length, 1/8" Thick, Mill Galvanized, U Or Z Style, Rigid Partition Anchor	3.32	
04 05 19 16-0178	EA	2" Width, 8" Length, 1/8" Thick, Mill Galvanized, U Or Z Style, Rigid Partition Anchor	3.51	
04 05 19 16-0179	EA	2-1/4" Width, 8" Length, 1/8" Thick, Mill Galvanized, U Or Z Style, Rigid Partition Anchor	3.72	
04 05 19 16-0180		**Screw-On Masonry Veneer Anchor Plates** *(04 05 19 16)*		
04 05 19 16-0181	EA	12 Gauge, Hot-Dipped Galvanized, Screw-On Masonry Veneer Anchor Plate	1.89	
04 05 19 16-0182	EA	14 Gauge, Hot-Dipped Galvanized, Screw-On Masonry Veneer Anchor Plate	1.98	
04 05 19 16-0183		**Wire Column Ties** *(04 05 19 16)*		
04 05 19 16-0184		**Hot-Dipped Galvanized, Wire Column Ties** *(04 05 19 16-0183)*		
04 05 19 16-0185	EA	3" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Column Tie	2.25	
04 05 19 16-0186	EA	5" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Column Tie	2.39	
04 05 19 16-0187	EA	7" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Column Tie	2.49	
04 05 19 16-0188	EA	9" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Column Tie	2.63	
04 05 19 16-0189	EA	10" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Column Tie	2.37	
04 05 19 16-0190	EA	12" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Column Tie	2.49	
04 05 19 16-0191	EA	14" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Column Tie	2.58	
04 05 19 16-0192	EA	16" Length, 3/16" Diameter, Hot-Dipped Galvanized, Wire Column Tie	2.66	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 16-0193	EA	3" Length, 1/4" Diameter, Hot-Dipped Galvanized, Wire Column Tie	2.97	
04 05 19 16-0194	EA	5" Length, 1/4" Diameter, Hot-Dipped Galvanized, Wire Column Tie	3.21	
04 05 19 16-0195	EA	7" Length, 1/4" Diameter, Hot-Dipped Galvanized, Wire Column Tie	3.37	
04 05 19 16-0196	EA	9" Length, 1/4" Diameter, Hot-Dipped Galvanized, Wire Column Tie	3.59	
04 05 19 16-0197	EA	10" Length, 1/4" Diameter, Hot-Dipped Galvanized, Wire Column Tie	3.21	
04 05 19 16-0198	EA	12" Length, 1/4" Diameter, Hot-Dipped Galvanized, Wire Column Tie	3.37	
04 05 19 16-0199	EA	14" Length, 1/4" Diameter, Hot-Dipped Galvanized, Wire Column Tie	3.51	
04 05 19 16-0200	EA	16" Length, 1/4" Diameter, Hot-Dipped Galvanized, Wire Column Tie	3.66	
04 05 19 16-0201		Mill Galvanized, Wire Column Ties *(04 05 19 16-0183)*		
04 05 19 16-0202	EA	3" Length, 3/16" Diameter, Mill Galvanized, Wire Column Tie	2.01	
04 05 19 16-0203	EA	5" Length, 3/16" Diameter, Mill Galvanized, Wire Column Tie	2.10	
04 05 19 16-0204	EA	7" Length, 3/16" Diameter, Mill Galvanized, Wire Column Tie	2.15	
04 05 19 16-0205	EA	9" Length, 3/16" Diameter, Mill Galvanized, Wire Column Tie	2.23	
04 05 19 16-0206	EA	10" Length, 3/16" Diameter, Mill Galvanized, Wire Column Tie	2.04	
04 05 19 16-0207	EA	12" Length, 3/16" Diameter, Mill Galvanized, Wire Column Tie	2.13	
04 05 19 16-0208	EA	14" Length, 3/16" Diameter, Mill Galvanized, Wire Column Tie	2.18	
04 05 19 16-0209	EA	16" Length, 3/16" Diameter, Mill Galvanized, Wire Column Tie	2.25	
04 05 19 16-0210	EA	3" Length, 1/4" Diameter, Mill Galvanized, Wire Column Tie	2.54	
04 05 19 16-0211	EA	5" Length, 1/4" Diameter, Mill Galvanized, Wire Column Tie	2.70	
04 05 19 16-0212	EA	7" Length, 1/4" Diameter, Mill Galvanized, Wire Column Tie	2.77	
04 05 19 16-0213	EA	9" Length, 1/4" Diameter, Mill Galvanized, Wire Column Tie	2.92	
04 05 19 16-0214	EA	10" Length, 1/4" Diameter, Mill Galvanized, Wire Column Tie	2.47	
04 05 19 16-0215	EA	12" Length, 1/4" Diameter, Mill Galvanized, Wire Column Tie	2.73	
04 05 19 16-0216	EA	14" Length, 1/4" Diameter, Mill Galvanized, Wire Column Tie	2.84	
04 05 19 16-0217	EA	16" Length, 1/4" Diameter, Mill Galvanized, Wire Column Tie	2.92	
04 05 19 16-0218		Dovetail Anchors, Slots And Ties *(04 05 19 16)*		
04 05 19 16-0219		Dovetail Anchor Slots *(04 05 19 16-0218)*		
04 05 19 16-0220		Hot-Dipped Galvanized, Dovetail Anchor Slot *(04 05 19 16-0219)*		
04 05 19 16-0221	LF	24 Gauge, Hot-Dipped Galvanized, Dovetail Anchor Slot	4.92	
04 05 19 16-0222	LF	22 Gauge, Hot-Dipped Galvanized, Dovetail Anchor Slot	5.33	
04 05 19 16-0223	LF	20 Gauge, Hot-Dipped Galvanized, Dovetail Anchor Slot	5.56	
04 05 19 16-0224	LF	18 Gauge, Hot-Dipped Galvanized, Dovetail Anchor Slot	5.68	
04 05 19 16-0225	LF	16 Gauge, Hot-Dipped Galvanized, Dovetail Anchor Slot	5.95	
04 05 19 16-0226		Mill Galvanized, Dovetail Anchor Slot *(04 05 19 16-0219)*		
04 05 19 16-0227	LF	24 Gauge, Mill Galvanized, Dovetail Anchor Slot	4.11	
04 05 19 16-0228	LF	22 Gauge, Mill Galvanized, Dovetail Anchor Slot	4.62	
04 05 19 16-0229	LF	20 Gauge, Mill Galvanized, Dovetail Anchor Slot	4.74	
04 05 19 16-0230	LF	18 Gauge, Mill Galvanized, Dovetail Anchor Slot	4.92	
04 05 19 16-0231	LF	16 Gauge, Mill Galvanized, Dovetail Anchor Slot	5.03	
04 05 19 16-0232		304 Stainless Steel, Dovetail Anchor Slot *(04 05 19 16-0219)*		
04 05 19 16-0233	LF	24 Gauge, 304 Stainless Steel, Dovetail Anchor Slot	4.64	
04 05 19 16-0234	LF	22 Gauge, 304 Stainless Steel, Dovetail Anchor Slot	5.01	
04 05 19 16-0235	LF	20 Gauge, 304 Stainless Steel, Dovetail Anchor Slot	5.14	
04 05 19 16-0236	LF	18 Gauge, 304 Stainless Steel, Dovetail Anchor Slot	5.56	
04 05 19 16-0237	LF	16 Gauge, 304 Stainless Steel, Dovetail Anchor Slot	5.97	
04 05 19 16-0238		316 Stainless Steel, Dovetail Anchor Slot *(04 05 19 16-0219)*		
04 05 19 16-0239	LF	24 Gauge, 316 Stainless Steel, Dovetail Anchor Slot	4.93	
04 05 19 16-0240	LF	22 Gauge, 316 Stainless Steel, Dovetail Anchor Slot	5.21	
04 05 19 16-0241	LF	20 Gauge, 316 Stainless Steel, Dovetail Anchor Slot	5.50	
04 05 19 16-0242	LF	18 Gauge, 316 Stainless Steel, Dovetail Anchor Slot	5.86	
04 05 19 16-0243	LF	16 Gauge, 316 Stainless Steel, Dovetail Anchor Slot	6.07	
04 05 19 16-0244		Dovetail Corrugated Brick Ties *(04 05 19 16-0218)*		
04 05 19 16-0245		Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie *(04 05 19 16-0244)*		
04 05 19 16-0246	EA	3-1/2" Length, 1" Width, 16 Gauge, Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie	1.54	
04 05 19 16-0247	EA	5-1/2" Length, 1" Width, 16 Gauge, Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie	1.66	
04 05 19 16-0248	EA	7-1/2" Length, 1" Width, 16 Gauge, Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie	1.80	
04 05 19 16-0249	EA	3-1/2" Length, 1" Width, 14 Gauge, Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie	1.57	
04 05 19 16-0250	EA	5-1/2" Length, 1" Width, 14 Gauge, Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie	1.81	
04 05 19 16-0251	EA	7-1/2" Length, 1" Width, 14 Gauge, Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie	2.00	
04 05 19 16-0252	EA	3-1/2" Length, 1" Width, 12 Gauge, Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie	1.64	
04 05 19 16-0253	EA	5-1/2" Length, 1" Width, 12 Gauge, Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie	1.80	
04 05 19 16-0254	EA	7-1/2" Length, 1" Width, 12 Gauge, Hot-Dipped Galvanized, Dovetail Corrugated Brick Tie	1.97	
04 05 19 16-0255		Mill Galvanized, Dovetail Corrugated Brick Tie *(04 05 19 16-0244)*		
04 05 19 16-0256	EA	3-1/2" Length, 1" Width, 16 Gauge, Mill Galvanized, Dovetail Corrugated Brick Tie	1.42	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 16-0257	EA	5-1/2" Length, 1" Width, 16 Gauge, Mill Galvanized, Dovetail Corrugated Brick Tie	1.50	
04 05 19 16-0258	EA	7-1/2" Length, 1" Width, 16 Gauge, Mill Galvanized, Dovetail Corrugated Brick Tie	1.58	
04 05 19 16-0259	EA	3-1/2" Length, 1" Width, 14 Gauge, Mill Galvanized, Dovetail Corrugated Brick Tie	1.48	
04 05 19 16-0260	EA	5-1/2" Length, 1" Width, 14 Gauge, Mill Galvanized, Dovetail Corrugated Brick Tie	1.65	
04 05 19 16-0261	EA	7-1/2" Length, 1" Width, 14 Gauge, Mill Galvanized, Dovetail Corrugated Brick Tie	1.78	
04 05 19 16-0262	EA	3-1/2" Length, 1" Width, 12 Gauge, Mill Galvanized, Dovetail Corrugated Brick Tie	1.51	
04 05 19 16-0263	EA	5-1/2" Length, 1" Width, 12 Gauge, Mill Galvanized, Dovetail Corrugated Brick Tie	1.70	
04 05 19 16-0264	EA	7-1/2" Length, 1" Width, 12 Gauge, Mill Galvanized, Dovetail Corrugated Brick Tie	1.84	
04 05 19 16-0265		Dovetail Stone Anchors *(04 05 19 16-0218)*		
04 05 19 16-0266		Hot-Dipped Galvanized, Dovetail Stone Anchors *(04 05 19 16-0265)*		
04 05 19 16-0267	EA	3-1/2" Length, 1" Width, 16 Gauge, Hot-Dipped Galvanized, Dovetail Stone Anchor	1.81	
04 05 19 16-0268	EA	5-1/2" Length, 1" Width, 16 Gauge, Hot-Dipped Galvanized, Dovetail Stone Anchor	1.94	
04 05 19 16-0269	EA	7-1/2" Length, 1" Width, 16 Gauge, Hot-Dipped Galvanized, Dovetail Stone Anchor	2.08	
04 05 19 16-0270		Dovetail Partition Top Anchors *(04 05 19 16-0218)*		
04 05 19 16-0271	EA	3/8" Rod, Hot-Dipped Galvanized, Dovetail Partition Top Anchor	3.96	
04 05 19 16-0272	EA	3/8" Rod, Stainless Steel, Dovetail Partition Top Anchor	6.21	
04 05 19 16-0273		Dovetail Flexible Triangle Brick Ties *(04 05 19 16-0218)*		
04 05 19 16-0274		Hot-Dipped Galvanized, Dovetail Flexible Triangle Brick Ties *(04 05 19 16-0273)*		
04 05 19 16-0275	EA	3" Length, 3/16" Diameter, Hot-Dipped Galvanized, Dovetail Flexible Triangle Brick Tie	2.67	
04 05 19 16-0276	EA	5" Length, 3/16" Diameter, Hot-Dipped Galvanized, Dovetail Flexible Triangle Brick Tie	2.83	
04 05 19 16-0277	EA	7" Length, 3/16" Diameter, Hot-Dipped Galvanized, Dovetail Flexible Triangle Brick Tie	2.96	
04 05 19 16-0278	EA	9" Length, 3/16" Diameter, Hot-Dipped Galvanized, Dovetail Flexible Triangle Brick Tie	3.07	
04 05 19 16-0279		Mill Galvanized, Dovetail Flexible Triangle Brick Ties *(04 05 19 16-0273)*		
04 05 19 16-0280	EA	3" Length, 3/16" Diameter, Mill Galvanized, Dovetail Flexible Triangle Brick Tie	2.43	
04 05 19 16-0281	EA	5" Length, 3/16" Diameter, Mill Galvanized, Dovetail Flexible Triangle Brick Tie	2.44	
04 05 19 16-0282	EA	7" Length, 3/16" Diameter, Mill Galvanized, Dovetail Flexible Triangle Brick Tie	2.52	
04 05 19 16-0283	EA	9" Length, 3/16" Diameter, Mill Galvanized, Dovetail Flexible Triangle Brick Tie	2.71	
04 05 19 16-0284		Dowel Or Hairpin, Drill And Epoxy Into Brick *(04 05 19 16)*		
04 05 19 16-0285	EA	Dowels Or Hairpin, 1/2" x 30" L, Drill And Epoxy In Brick	33.85	
04 05 19 16-0286	EA	Dowels Or Hairpin, 1/2" x 36" L, Drill And Epoxy In Brick	35.34	
04 05 19 26		**Masonry Reinforcing Bars** *(04 05 19)*		
		Note: Includes cutting and bending.		
04 05 19 26-0001		Plain Steel Masonry Reinforcement Bar *(04 05 19 26)*		
04 05 19 26-0002	LF	#3, Grade 40, Horizontal Placed, Steel Masonry Reinforcement Bar	1.13	
04 05 19 26-0003	LF	#4, Grade 40, Horizontal Placed, Steel Masonry Reinforcement Bar	1.86	
04 05 19 26-0004	LF	#5, Grade 40, Horizontal Placed, Steel Masonry Reinforcement Bar	2.64	
04 05 19 26-0005	LF	#6, Grade 40, Horizontal Placed, Steel Masonry Reinforcement Bar	3.46	
04 05 19 26-0006	LF	#3, Grade 50, Horizontal Placed, Steel Masonry Reinforcement Bar	1.15	
04 05 19 26-0007	LF	#4, Grade 50, Horizontal Placed, Steel Masonry Reinforcement Bar	1.89	
04 05 19 26-0008	LF	#5, Grade 50, Horizontal Placed, Steel Masonry Reinforcement Bar	2.69	
04 05 19 26-0009	LF	#6, Grade 50, Horizontal Placed, Steel Masonry Reinforcement Bar	3.53	
04 05 19 26-0010	LF	#3, Grade 60, Horizontal Placed, Steel Masonry Reinforcement Bar	1.17	
04 05 19 26-0011	LF	#4, Grade 60, Horizontal Placed, Steel Masonry Reinforcement Bar	1.94	
04 05 19 26-0012	LF	#5, Grade 60, Horizontal Placed, Steel Masonry Reinforcement Bar	2.76	
04 05 19 26-0013	LF	#6, Grade 60, Horizontal Placed, Steel Masonry Reinforcement Bar	3.64	
04 05 19 26-0014	LF	#3, Grade 40, Vertical Placed, Steel Masonry Reinforcement Bar	1.33	
04 05 19 26-0015	LF	#4, Grade 40, Vertical Placed, Steel Masonry Reinforcement Bar	2.16	
04 05 19 26-0016	LF	#5, Grade 40, Vertical Placed, Steel Masonry Reinforcement Bar	3.06	
04 05 19 26-0017	LF	#6, Grade 40, Vertical Placed, Steel Masonry Reinforcement Bar	3.97	
04 05 19 26-0018	LF	#3, Grade 50, Vertical Placed, Steel Masonry Reinforcement Bar	1.35	
04 05 19 26-0019	LF	#4, Grade 50, Vertical Placed, Steel Masonry Reinforcement Bar	2.19	
04 05 19 26-0020	LF	#5, Grade 50, Vertical Placed, Steel Masonry Reinforcement Bar	3.11	
04 05 19 26-0021	LF	#6, Grade 50, Vertical Placed, Steel Masonry Reinforcement Bar	4.04	
04 05 19 26-0022	LF	#3, Grade 60, Vertical Placed, Steel Masonry Reinforcement Bar	1.37	
04 05 19 26-0023	LF	#4, Grade 60, Vertical Placed, Steel Masonry Reinforcement Bar	2.24	
04 05 19 26-0024	LF	#5, Grade 60, Vertical Placed, Steel Masonry Reinforcement Bar	3.18	
04 05 19 26-0025	LF	#6, Grade 60, Vertical Placed, Steel Masonry Reinforcement Bar	4.15	
04 05 19 26-0026		Galvanized Steel Masonry Reinforcement Bar *(04 05 19 26)*		
04 05 19 26-0027	LF	#3, Grade 40, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	1.31	
04 05 19 26-0028	LF	#4, Grade 40, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	2.19	
04 05 19 26-0029	LF	#5, Grade 40, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	3.15	
04 05 19 26-0030	LF	#6, Grade 40, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	4.19	
04 05 19 26-0031	LF	#3, Grade 50, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	1.33	
04 05 19 26-0032	LF	#4, Grade 50, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	2.22	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 19 26-0033	LF	#5, Grade 50, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	3.20	
04 05 19 26-0034	LF	#6, Grade 50, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	4.26	
04 05 19 26-0035	LF	#3, Grade 60, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	1.36	
04 05 19 26-0036	LF	#4, Grade 60, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	2.27	
04 05 19 26-0037	LF	#5, Grade 60, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	3.27	
04 05 19 26-0038	LF	#6, Grade 60, Horizontal Placed, Galvanized Steel Masonry Reinforcement Bar	4.37	
04 05 19 26-0039	LF	#3, Grade 40, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	1.51	
04 05 19 26-0040	LF	#4, Grade 40, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	2.49	
04 05 19 26-0041	LF	#5, Grade 40, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	3.57	
04 05 19 26-0042	LF	#6, Grade 40, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	4.70	
04 05 19 26-0043	LF	#3, Grade 50, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	1.53	
04 05 19 26-0044	LF	#4, Grade 50, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	2.52	
04 05 19 26-0045	LF	#5, Grade 50, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	3.62	
04 05 19 26-0046	LF	#6, Grade 50, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	4.77	
04 05 19 26-0047	LF	#3, Grade 60, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	1.56	
04 05 19 26-0048	LF	#4, Grade 60, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	2.57	
04 05 19 26-0049	LF	#5, Grade 60, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	3.69	
04 05 19 26-0050	LF	#6, Grade 60, Vertical Placed, Galvanized Steel Masonry Reinforcement Bar	4.88	
04 05 19 26-0051		Epoxy-Coated Masonry Reinforcement Bar *(04 05 19 26)*		
04 05 19 26-0052	LF	#3, Grade 40, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	1.29	
04 05 19 26-0053	LF	#4, Grade 40, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	2.15	
04 05 19 26-0054	LF	#5, Grade 40, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	3.09	
04 05 19 26-0055	LF	#6, Grade 40, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	4.11	
04 05 19 26-0056	LF	#3, Grade 50, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	1.31	
04 05 19 26-0057	LF	#4, Grade 50, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	2.18	
04 05 19 26-0058	LF	#5, Grade 50, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	3.14	
04 05 19 26-0059	LF	#6, Grade 50, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	4.18	
04 05 19 26-0060	LF	#3, Grade 60, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	1.34	
04 05 19 26-0061	LF	#4, Grade 60, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	2.23	
04 05 19 26-0062	LF	#5, Grade 60, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	3.22	
04 05 19 26-0063	LF	#6, Grade 60, Horizontal Placed, Epoxy-Coated Masonry Reinforcement Bar	4.29	
04 05 19 26-0064	LF	#3, Grade 40, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	1.49	
04 05 19 26-0065	LF	#4, Grade 40, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	2.45	
04 05 19 26-0066	LF	#5, Grade 40, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	3.51	
04 05 19 26-0067	LF	#6, Grade 40, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	4.62	
04 05 19 26-0068	LF	#3, Grade 50, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	1.51	
04 05 19 26-0069	LF	#4, Grade 50, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	2.48	
04 05 19 26-0070	LF	#5, Grade 50, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	3.56	
04 05 19 26-0071	LF	#6, Grade 50, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	4.69	
04 05 19 26-0072	LF	#3, Grade 60, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	1.54	
04 05 19 26-0073	LF	#4, Grade 60, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	2.53	
04 05 19 26-0074	LF	#5, Grade 60, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	3.64	
04 05 19 26-0075	LF	#6, Grade 60, Vertical Placed, Epoxy-Coated Masonry Reinforcement Bar	4.80	

04 05 23 Masonry Accessories *(04 05)*

04 05 23 13 Masonry Control and Expansion Joints *(04 05 23)*

04 05 23 13-0001 Masonry Control Joints *(04 05 23 13)*

04 05 23 13-0002 Rubber, Masonry Control Joints *(04 05 23 13-0001)*

04 05 23 13-0003	LF	1-5/8" Width, T-Style, Rubber, Masonry Control Joint	6.44	1.13
04 05 23 13-0004	LF	2-5/8" Width, Rubber, Masonry Control Joint	6.28	1.13
04 05 23 13-0005	LF	6-7/8" Width, Rubber, Masonry Control Joint	12.98	1.13

04 05 23 13-0006 Polyvinyl Chloride (PVC), Masonry Control Joints *(04 05 23 13-0001)*

04 05 23 13-0007	LF	1-5/8" Width, T-Style, Polyvinyl Chloride (PVC), Masonry Control Joint	4.09	1.13
04 05 23 13-0008	LF	2-5/8" Width, Polyvinyl Chloride (PVC), Masonry Control Joint	4.23	1.13
04 05 23 13-0009	LF	4-7/8" Width, Polyvinyl Chloride (PVC), Masonry Control Joint	5.35	1.13
04 05 23 13-0010	LF	6-7/8" Width, Polyvinyl Chloride (PVC), Masonry Control Joint	5.95	1.13
04 05 23 13-0011	LF	11-1/8" Width, Polyvinyl Chloride (PVC), Masonry Control Joint	5.65	1.13

04 05 23 16 Masonry Embedded Flashing *(04 05 23)*

04 05 23 16-0001 Lead Coated Copper Through Wall Flashing *(04 05 23 16)*

04 05 23 16-0002 Mastic Backed 2 Sides, Lead Coated Copper Through Wall Flashing *(04 05 23 16-0001)*

04 05 23 16-0003	SF	2 Ounce, Mastic Backed 2 Sides, Lead Coated Copper Through Wall Flashing	9.44	2.00
04 05 23 16-0004	SF	3 Ounce, Mastic Backed 2 Sides, Lead Coated Copper Through Wall Flashing	10.40	2.00
04 05 23 16-0005	SF	5 Ounce, Mastic Backed 2 Sides, Lead Coated Copper Through Wall Flashing	13.08	2.00
04 05 23 16-0006	SF	7 Ounce, Mastic Backed 2 Sides, Lead Coated Copper Through Wall Flashing	15.45	2.00

04 05 23 16-0007 Fabric Backed 2 Sides, Lead Coated Copper Through Wall Flashing *(04 05 23 16-0001)*

04 05 23 16-0008	SF	2 Ounce, Fabric Backed 2 Sides, Lead Coated Copper Through Wall Flashing	10.38	2.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 23 16-0009	SF	3 Ounce, Fabric Backed 2 Sides, Lead Coated Copper Through Wall Flashing	11.25	2.00
04 05 23 16-0010	SF	5 Ounce, Fabric Backed 2 Sides, Lead Coated Copper Through Wall Flashing	14.33	2.00
04 05 23 16-0011	SF	7 Ounce, Fabric Backed 2 Sides, Lead Coated Copper Through Wall Flashing	17.18	2.00
04 05 23 16-0012		Paper Backed 2 Sides, Lead Coated Copper Through Wall Flashing *(04 05 23 16-0001)*		
04 05 23 16-0013	SF	2 Ounce, Paper Backed 2 Sides, Lead Coated Copper Through Wall Flashing	9.65	2.00
04 05 23 16-0014	SF	3 Ounce, Paper Backed 2 Sides, Lead Coated Copper Through Wall Flashing	10.86	2.00
04 05 23 16-0015	SF	5 Ounce, Paper Backed 2 Sides, Lead Coated Copper Through Wall Flashing	12.60	2.00
04 05 23 16-0016	SF	7 Ounce, Paper Backed 2 Sides, Lead Coated Copper Through Wall Flashing	16.22	2.00
04 05 23 16-0017		Stainless Steel Through Wall Flashing *(04 05 23 16)*		
04 05 23 16-0018		Paper Backed 2 Sides, Stainless Steel Through Wall Flashing *(04 05 23 16-0017)*		
04 05 23 16-0019	SF	0.005" Thick Paper Backed 2 Sides, Stainless Steel Through Wall Flashing	8.16	1.86
04 05 23 16-0020		Polyvinyl Chloride (PVC) Through Wall Flashing *(04 05 23 16)*		
04 05 23 16-0021	SF	0.010" Thick Black Polyvinyl Chloride (PVC) Through Wall Flashing	5.14	2.21
04 05 23 16-0022	SF	0.020" Thick Black Polyvinyl Chloride (PVC) Through Wall Flashing	5.34	2.21
04 05 23 16-0023	SF	0.030" Thick Black Polyvinyl Chloride (PVC) Through Wall Flashing	5.58	2.21
04 05 23 16-0024	SF	0.056" Thick Black Polyvinyl Chloride (PVC) Through Wall Flashing	6.37	2.21
04 05 23 16-0025		Copper Through Wall Flashing *(04 05 23 16)*		
04 05 23 16-0026		2 Sides Coated With Asphalt, Thru-Wall Copper Flashing *(04 05 23 16-0025)*		
04 05 23 16-0027	SF	2 Ounce, 2 Sides Coated With Asphalt, Thru-Wall Copper Flashing	7.98	1.86
04 05 23 16-0028	SF	3 Ounce, 2 Sides Coated With Asphalt, Thru-Wall Copper Flashing	8.70	1.86
04 05 23 16-0029	SF	5 Ounce, 2 Sides Coated With Asphalt, Thru-Wall Copper Flashing	10.66	1.86
04 05 23 16-0030	SF	7 Ounce, 2 Sides Coated With Asphalt, Thru-Wall Copper Flashing	12.39	1.86
04 05 23 16-0031	SF	10 Ounce, 2 Sides Coated With Asphalt, Thru-Wall Copper Flashing	13.13	1.86
04 05 23 16-0032		2 Sides Glass Fabric And Asphalt, Thru-Wall Copper Flashing *(04 05 23 16-0025)*		
04 05 23 16-0033	SF	2 Ounce, 2 Sides Glass Fabric And Asphalt, Thru-Wall Copper Flashing	8.69	1.86
04 05 23 16-0034	SF	3 Ounce, 2 Sides Glass Fabric And Asphalt, Thru-Wall Copper Flashing	9.32	1.86
04 05 23 16-0035	SF	5 Ounce, 2 Sides Glass Fabric And Asphalt, Thru-Wall Copper Flashing	11.58	1.86
04 05 23 16-0036	SF	7 Ounce, 2 Sides Glass Fabric And Asphalt, Thru-Wall Copper Flashing	13.66	1.86
04 05 23 16-0037	SF	10 Ounce, 2 Sides Glass Fabric And Asphalt, Thru-Wall Copper Flashing	14.89	1.86
04 05 23 16-0038		1 Side Kraft Paper And Asphalt, Thru-Wall Copper Flashing *(04 05 23 16-0025)*		
04 05 23 16-0039	SF	2 Ounce, 1 Side Kraft Paper And Asphalt, Thru-Wall Copper Flashing	8.06	1.86
04 05 23 16-0040	SF	3 Ounce, 1 Side Kraft Paper And Asphalt, Thru-Wall Copper Flashing	8.78	1.86
04 05 23 16-0041	SF	5 Ounce, 1 Side Kraft Paper And Asphalt, Thru-Wall Copper Flashing	10.74	1.86
04 05 23 16-0042	SF	7 Ounce, 1 Side Kraft Paper And Asphalt, Thru-Wall Copper Flashing	12.46	1.86
04 05 23 16-0043	SF	10 Ounce, 1 Side Kraft Paper And Asphalt, Thru-Wall Copper Flashing	13.20	1.86
04 05 23 16-0044		2 Sides Kraft Paper And Asphalt, Thru-Wall Copper Flashing *(04 05 23 16-0025)*		
04 05 23 16-0045	SF	2 Ounce, 2 Sides Kraft Paper And Asphalt, Thru-Wall Copper Flashing	8.16	1.86
04 05 23 16-0046	SF	3 Ounce, 2 Sides Kraft Paper And Asphalt, Thru-Wall Copper Flashing	9.03	1.86
04 05 23 16-0047	SF	5 Ounce, 2 Sides Kraft Paper And Asphalt, Thru-Wall Copper Flashing	10.30	1.86
04 05 23 16-0048	SF	7 Ounce, 2 Sides Kraft Paper And Asphalt, Thru-Wall Copper Flashing	12.96	1.86
04 05 23 16-0049	SF	10 Ounce, 2 Sides Kraft Paper And Asphalt, Thru-Wall Copper Flashing	9.03	1.86
04 05 23 16-0050		2 Sides Kraft Paper Reinforced With Glass Fabric And Asphalt, Thru-Wall Copper Flashing *(04 05 23 16-0025)*		
04 05 23 16-0051	SF	3 Ounce, 2 Sides Kraft Paper Reinforced With Glass Fabric And Asphalt, Thru-Wall Copper Flashing	11.06	1.86
04 05 23 16-0052	SF	5 Ounce, 2 Sides Kraft Paper Reinforced With Glass Fabric And Asphalt, Thru-Wall Copper Flashing	13.68	1.86
04 05 23 16-0053		2 Sides Glass Fabric, Thru-Wall Copper Flashing *(04 05 23 16-0025)*		
		Note: Glass fabric is bonded to both sides with a non-asphaltic adhesive.		
04 05 23 16-0054	SF	3 Ounce, 2 Sides Glass Fabric, Thru-Wall Copper Flashing	9.55	1.86
04 05 23 16-0055	SF	5 Ounce, 2 Sides Glass Fabric, Thru-Wall Copper Flashing	11.89	1.86
04 05 23 19		**Masonry Cavity Drainage, Weepholes, and Vents** *(04 05 23)*		
04 05 23 19-0001		Brick Vents, 4" Deep, With Insect Screen *(04 05 23 19)*		
		Note: 0.100" nominal wall thickness, three mortar ribs on top and bottom of frame.		
04 05 23 19-0002	EA	8-1/8" x 2-3/8" Aluminum Brick Vent	86.07	
04 05 23 19-0003	EA	8-1/8" x 4-3/4" Aluminum Brick Vent	106.97	
04 05 23 19-0004	EA	8-1/8" x 7-3/4" Aluminum Brick Vent	135.35	
04 05 23 19-0005	EA	12" x 2-3/8" Aluminum Brick Vent	106.15	
04 05 23 19-0006	EA	12" x 4-3/4" Aluminum Brick Vent	131.41	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 05 23 19-0007	EA	12" x 7-3/4" Aluminum Brick Vent	166.73	
04 05 23 19-0008	EA	16-1/2" x 2-3/8" Aluminum Brick Vent	126.02	
04 05 23 19-0009	EA	16-1/2" x 4-3/4" Aluminum Brick Vent	171.47	
04 05 23 19-0010	EA	16-1/2" x 7-3/4" Aluminum Brick Vent	210.27	
04 05 23 19-0011	EA	24" x 2-3/8" Aluminum Brick Vent	172.68	
04 05 23 19-0012	EA	24" x 4-3/4" Aluminum Brick Vent	225.15	
04 05 23 19-0013	EA	24" x 7-3/4" Aluminum Brick Vent	277.79	

04 20 Unit Masonry *(04)*

Note: Includes finishing joints (pointing) and cleaning of new brick and mortar. Cutting of new bricks/blocks to size. Weep holes and wicking material.

04 21 Clay Unit Masonry *(04 20)*

04 21 13 Brick Masonry *(04 21)*

Note: Includes brick and mortar. See CSI section 04 05 19 13-0000 for reinforcing, 04 05 19 16-0000 for masonry anchors.

04 21 13 00-0001 Brick Masonry *(04 21 13)*

04 21 13 00-0002	SF	Standard Size Red Brick, Running Bond Note: Standard size brick, 3-5/8" x 2-1/4" x 8". (6.55 Bricks/SF)	29.26
		For Buff Or Gray, Add	*1.14*
		For Common Or American Bond, Add	*0.90*
		For English Bond, Add	*1.79*
		For Flemish Bond, Add	*3.71*
		For Stacked Bond, Add	*2.58*
		For <10, Small Area Replacements (Individual Areas), Add	*33.97*
		For Curved Wall, Add	*4.48*
		For Corbels, Add	*16.82*
		For Severe Weather (SW) Brick, Add	*1.03*
		For Glazed Brick, Add	*23.94*
04 21 13 00-0003	SF	Engineer Standard Size Red Brick, Running Bond Note: Engineer standard size brick, 3-5/8" x 2-3/4" x 8". (5.39 Bricks/SF)	30.39
		For Buff Or Gray, Add	*1.41*
		For Common Or American Bond, Add	*0.88*
		For English Bond, Add	*1.75*
		For Flemish Bond, Add	*3.71*
		For Stacked Bond, Add	*2.62*
		For <10, Small Area Replacements (Individual Areas), Add	*33.29*
		For Curved Wall, Add	*4.38*
		For Corbels, Add	*16.43*
		For Severe Weather (SW) Brick, Add	*1.27*
		For Glazed Brick, Add	*29.68*
04 21 13 00-0004	SF	Modular Size Red Brick, Running Bond Note: Modular size brick, 3-5/8" x 2-1/4" x 7-5/8". (6.75 Bricks/SF)	29.26
		For Buff Or Gray, Add	*1.14*
		For Common Or American Bond, Add	*0.90*
		For English Bond, Add	*1.79*
		For Flemish Bond, Add	*3.71*
		For Stacked Bond, Add	*2.58*
		For <10, Small Area Replacements (Individual Areas), Add	*33.97*
		For Curved Wall, Add	*4.48*
		For Corbels, Add	*16.82*
		For Severe Weather (SW) Brick, Add	*1.03*
		For Glazed Brick, Add	*23.94*
04 21 13 00-0005	SF	Engineer Modular Size Red Brick, Running Bond Note: Engineer modular size brick, 3-5/8" x 2-3/4" x 7-5/8". (5.63 Bricks/SF)	30.39
		For Buff Or Gray, Add	*1.41*
		For Common Or American Bond, Add	*0.88*
		For English Bond, Add	*1.75*
		For Flemish Bond, Add	*3.71*
		For Stacked Bond, Add	*2.62*
		For <10, Small Area Replacements (Individual Areas), Add	*33.29*
		For Curved Wall, Add	*4.38*
		For Corbels, Add	*16.43*
		For Severe Weather (SW) Brick, Add	*1.27*
		For Glazed Brick, Add	*29.68*
04 21 13 00-0006	SF	Economy Size Red Brick, Running Bond Note: Economy size brick, 3-5/8" x 3-5/8" x 7-5/8". (4.5 Bricks/SF)	30.16
		For Buff Or Gray, Add	*1.38*
		For Common Or American Bond, Add	*0.88*
		For English Bond, Add	*1.75*
		For Flemish Bond, Add	*3.70*
		For Stacked Bond, Add	*2.60*
		For <10, Small Area Replacements (Individual Areas), Add	*33.28*
		For Curved Wall, Add	*4.38*
		For Corbels, Add	*16.43*
		For Severe Weather (SW) Brick, Add	*1.24*
		For Glazed Brick, Add	*28.88*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 21 13 00-0007	SF	Utility Size Red Brick, Running Bond	22.36	
		Note: Utility size brick, 3-5/8" x 3-5/8" x 11-5/8". (3.0 Bricks/SF)		
		For Buff Or Gray, Add	*1.18*	
		For Common Or American Bond, Add	*0.61*	
		For English Bond, Add	*1.22*	
		For Flemish Bond, Add	*2.65*	
		For Stacked Bond, Add	*1.88*	
		For <10, Small Area Replacements (Individual Areas), Add	*23.30*	
		For Curved Wall, Add	*3.06*	
		For Corbels, Add	*11.48*	
		For Severe Weather (SW) Brick, Add	*1.06*	
		For Glazed Brick, Add	*24.71*	
04 21 13 00-0008	SF	Double Utility Size Red Brick, Running Bond	20.25	
		Note: Double utility size brick, 3-5/8" x 7-5/8" x 11-5/8". (1.5 Bricks/SF)		
		For Buff Or Gray, Add	*0.83*	
		For Common Or American Bond, Add	*0.61*	
		For English Bond, Add	*1.22*	
		For Flemish Bond, Add	*2.54*	
		For Stacked Bond, Add	*1.78*	
		For <10, Small Area Replacements (Individual Areas), Add	*23.20*	
		For Curved Wall, Add	*3.06*	
		For Corbels, Add	*11.48*	
		For Severe Weather (SW) Brick, Add	*0.74*	
		For Glazed Brick, Add	*17.33*	
04 21 13 00-0009	SF	Norman Size Red Brick, Running Bond	30.81	
		Note: Norman size brick, 3-5/8" x 2-1/4" x 11-5/8". (4.5 Bricks/SF)		
		For Buff Or Gray, Add	*1.48*	
		For Common Or American Bond, Add	*0.88*	
		For English Bond, Add	*1.75*	
		For Flemish Bond, Add	*3.73*	
		For Stacked Bond, Add	*2.64*	
		For <10, Small Area Replacements (Individual Areas), Add	*33.31*	
		For Curved Wall, Add	*4.38*	
		For Corbels, Add	*16.43*	
		For Severe Weather (SW) Brick, Add	*1.34*	
		For Glazed Brick, Add	*31.15*	
04 21 13 00-0010	SF	Roman Size Red Brick, Running Bond	32.68	
		Note: Roman size brick, 3-5/8" x 1-5/8" x 11-5/8". (6.0 Bricks/SF)		
		For Buff Or Gray, Add	*1.80*	
		For Common Or American Bond, Add	*0.88*	
		For English Bond, Add	*1.75*	
		For Flemish Bond, Add	*3.83*	
		For Stacked Bond, Add	*2.73*	
		For <10, Small Area Replacements (Individual Areas), Add	*33.40*	
		For Curved Wall, Add	*4.38*	
		For Corbels, Add	*16.43*	
		For Severe Weather (SW) Brick, Add	*1.62*	
		For Glazed Brick, Add	*37.70*	

04 21 13 00-0011 Fire Brick *(04 21 13)*

04 21 13 00-0012	SF	Running Bond, Red Fire Brick	34.55	
		For Buff Or Gray, Add	*2.11*	
		For Common Or American Bond, Add	*0.88*	
		For English Bond, Add	*1.75*	
		For Flemish Bond, Add	*3.92*	
		For Stacked Bond, Add	*2.82*	
		For <10, Small Area Replacements (Individual Areas), Add	*33.50*	

04 21 13 00-0013 Window Sill *(04 21 13)*

04 21 13 00-0014	LF	Standard Size Red Brick, Window Sill	25.46	
		Note: Standard size brick, 3-5/8" x 2-1/4" x 8", placed on edge.		
		For Buff Or Gray, Add	*0.29*	
04 21 13 00-0015	LF	Engineer Standard Size Red Brick, Window Sill	25.67	
		Note: Engineer standard size brick, 3-5/8" x 2-3/4" x 8", placed on edge.		
		For Buff Or Gray, Add	*0.33*	
04 21 13 00-0016	LF	Modular Size Red Brick, Window Sill	25.46	
		Note: Modular size brick, 3-5/8" x 2-1/4" x 7-5/8", placed on edge.		
		For Buff Or Gray, Add	*0.29*	
04 21 13 00-0017	LF	Engineer Modular Size Red Brick, Window Sill	25.81	
		Note: Engineer modular size brick, 3-5/8" x 2-3/4" x 7-5/8", placed on edge.		
		For Buff Or Gray, Add	*0.35*	
04 21 13 00-0018	LF	Economy Size Red Brick, Window Sill	26.73	
		Note: Economy size brick, 3-5/8" x 3-5/8" x 7-5/8", placed on edge.		
		For Buff Or Gray, Add	*0.51*	
04 21 13 00-0019	LF	Utility Size Red Brick, Window Sill	26.92	
		Note: Utility size brick, 3-5/8" x 3-5/8" x 11-5/8", placed on edge.		
		For Buff Or Gray, Add	*0.54*	
04 21 13 00-0020	LF	Double Utility Size Red Brick, Window Sill	26.92	
		Note: Double utility size brick, 3-5/8" x 7-5/8" x 11-5/8", placed on edge.		
		For Buff Or Gray, Add	*0.54*	
04 21 13 00-0021	LF	Norman Size Red Brick, Window Sill	25.93	
		Note: Norman size brick, 3-5/8" x 2-1/4" x 11-5/8", placed on edge.		
		For Buff Or Gray, Add	*0.37*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 21 13 00-0022	LF	Roman Size Red Brick, Window Sill Note: Roman size brick, 3-5/8" x 1-5/8" x 11-5/8", placed on edge.	26.03	
		For Buff Or Gray, Add	*0.39*	

04 21 19 Clay Tile Masonry *(04 21)*

04 21 19 00-0001 Scored Face, Hollow, Clay Backing Tile *(04 21 19)*

04 21 19 00-0002 Load Bearing, Scored Face, Hollow, Clay Backing Tile *(04 21 19 00-0001)*

04 21 19 00-0003	SF	4" Thick Load Bearing, Scored Face, Hollow, Clay Backing Tile	28.87	
		For Smooth Face, One Side, Add	*1.89*	
		For Smooth Face, Two Sides, Add	*3.21*	
04 21 19 00-0004	SF	6" Thick Load Bearing, Scored Face, Hollow, Clay Backing Tile	31.47	
		For Smooth Face, One Side, Add	*2.10*	
		For Smooth Face, Two Sides, Add	*3.58*	
04 21 19 00-0005	SF	8" Thick Load Bearing, Scored Face, Hollow, Clay Backing Tile	35.50	
		For Smooth Face, One Side, Add	*2.45*	
		For Smooth Face, Two Sides, Add	*4.18*	
04 21 19 00-0006	SF	10" Thick Load Bearing, Scored Face, Hollow, Clay Backing Tile	49.78	
		For Smooth Face, One Side, Add	*3.81*	
		For Smooth Face, Two Sides, Add	*6.63*	
04 21 19 00-0007	SF	12" Thick Load Bearing, Scored Face, Hollow, Clay Backing Tile	66.16	
		For Smooth Face, One Side, Add	*5.34*	
		For Smooth Face, Two Sides, Add	*9.35*	

04 21 19 00-0008 Non-Load Bearing, Scored Face, Hollow, Clay Backing Tile *(04 21 19 00-0001)*

04 21 19 00-0009	SF	3" Thick Non-Load Bearing, Scored Face, Hollow, Clay Backing Tile	24.03	
		For Smooth Face, One Side, Add	*1.52*	
		For Smooth Face, Two Sides, Add	*2.56*	
04 21 19 00-0010	SF	4" Thick Non-Load Bearing, Scored Face, Hollow, Clay Backing Tile	29.14	
		For Smooth Face, One Side, Add	*1.99*	
		For Smooth Face, Two Sides, Add	*3.40*	
04 21 19 00-0011	SF	6" Thick Non-Load Bearing, Scored Face, Hollow, Clay Backing Tile	29.85	
		For Smooth Face, One Side, Add	*2.02*	
		For Smooth Face, Two Sides, Add	*3.44*	
04 21 19 00-0012	SF	8" Thick Non-Load Bearing, Scored Face, Hollow, Clay Backing Tile	46.83	
		For Smooth Face, One Side, Add	*3.64*	
		For Smooth Face, Two Sides, Add	*6.34*	
04 21 19 00-0013	SF	12" Thick Non-Load Bearing, Scored Face, Hollow, Clay Backing Tile	64.54	
		For Smooth Face, One Side, Add	*5.29*	
		For Smooth Face, Two Sides, Add	*9.28*	

04 21 26 Glazed Structural Clay Tile Masonry *(04 21)*

Note: Includes tile and mortar in all colors.

04 21 26 00-0001 6T Series Structural Glazed Clay Tile *(04 21 26)*

04 21 26 00-0002 Glazed On One Side 6T Series Structural Glazed Clay Tile *(04 21 26 00-0001)*

04 21 26 00-0003	SF	2" Thick 1 Sided 6T Series Structural Glazed Clay Tile, 5-1/3" x 12"	35.84	
		For Stacked Bond, Add	*2.38*	
04 21 26 00-0004	SF	4" Thick 1 Sided 6T Series Structural Glazed Clay Tile, 5-1/3" x 12"	40.04	
		For Stacked Bond, Add	*2.38*	
04 21 26 00-0005	SF	6" Thick 1 Sided 6T Series Structural Glazed Clay Tile, 5-1/3" x 12"	48.74	
		For Stacked Bond, Add	*2.48*	

04 21 26 00-0006 Special Shapes 6T Series Structural Glazed Clay Tile *(04 21 26 00-0001)*

04 21 26 00-0007	LF	Bullnose, Jamb Or Sill Shapes 6T Series Structural Glazed Clay Tile	37.66	
		For Stacked Bond, Add	*2.81*	
04 21 26 00-0008	LF	2" Or 4" Cove Base 6T Series Structural Glazed Clay Tile	44.66	
		For Stacked Bond, Add	*2.81*	

04 21 26 00-0009 8W Series Structural Glazed Clay Tile *(04 21 26)*

04 21 26 00-0010 Glazed On One Side 8W Series Structural Glazed Clay Tile *(04 21 26 00-0009)*

04 21 26 00-0011	SF	2" Thick 1 Sided 8W Series Structural Glazed Clay Tile, 8" x 16"	27.99	
		For Stacked Bond, Add	*1.51*	
04 21 26 00-0012	SF	4" Thick 1 Sided 8W Series Structural Glazed Clay Tile, 8" x 16"	34.71	
		For Stacked Bond, Add	*1.62*	
04 21 26 00-0013	SF	6" Thick 1 Sided 8W Series Structural Glazed Clay Tile, 8" x 16"	47.74	
		For Stacked Bond, Add	*1.73*	

04 21 26 00-0014 Special Shapes 8W Series Structural Glazed Clay Tile *(04 21 26 00-0009)*

04 21 26 00-0015	LF	Bullnose, Jamb Or Sill Shapes 8W Series Structural Glazed Clay Tile	38.23	
		For Stacked Bond, Add	*1.94*	
04 21 26 00-0016	LF	2" Or 4" Cove Base 8W Series Structural Glazed Clay Tile	38.17	
		For Stacked Bond, Add	*1.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 21 26 00-0017		4W Series Structural Glazed Clay Tile *(04 21 26)*		
04 21 26 00-0018		Glazed On One Side 4W Series Structural Glazed Clay Tile *(04 21 26 00-0017)*		
04 21 26 00-0019	SF	2" Thick 1 Sided 4W Series Structural Glazed Tile, 8" x 8"	37.42	
		For Stacked Bond, Add	*2.38*	
04 21 26 00-0020	SF	4" Thick 1 Sided 4W Series Structural Glazed Tile, 8" x 8"	39.52	
		For Stacked Bond, Add	*2.38*	
04 21 26 00-0021	SF	6" Thick 1 Sided 4W Series Structural Glazed Tile, 8" x 8"	49.00	
		For Stacked Bond, Add	*2.48*	
04 21 26 00-0022		Special Shapes 4W Series Structural Glazed Clay Tile *(04 21 26 00-0017)*		
04 21 26 00-0023	LF	Bullnose, Jamb Or Sill Shapes 4W Series Structural Glazed Clay Tile	38.94	
		For Stacked Bond, Add	*2.81*	
04 21 26 00-0024	LF	2" Or 4" Cove Base 4W Series Structural Glazed Clay Tile	44.55	
		For Stacked Bond, Add	*2.81*	
04 21 26 00-0025		6T Series Sound Absorbing Structural Glazed Tile *(04 21 26)*		
04 21 26 00-0026	SF	4" Thick, 6T Sound Absorbing Structural Glazed Tile	38.74	
04 21 26 00-0027	SF	6" Thick, 6T Sound Absorbing Structural Glazed Tile	41.82	
04 21 26 00-0028	SF	8" Thick, 6T Sound Absorbing Structural Glazed Tile	48.82	
04 21 26 00-0029		8T Series Sound Absorbing Structural Glazed Tile *(04 21 26)*		
04 21 26 00-0030	SF	4" Thick, 8T Sound Absorbing Structural Glazed Tile	42.54	
04 21 26 00-0031	SF	6" Thick, 8T Sound Absorbing Structural Glazed Tile	47.95	
04 21 26 00-0032	SF	8" Thick, 8T Acoustical Glazed Tile	56.95	
04 21 29		**Terra Cotta Masonry** *(04 21)*		
04 21 29 00-0001		Coping *(04 21 29)*		
		Note: Includes caulk and ties. Excludes drilling into existing materials or other anchoring bolts.		
04 21 29 00-0002	SF	Terra Cotta Coping	120.85	45.29
		For Smooth Tile Instead Of Scored, Add	*3.89*	
		For Reinforcing With Steel Rods, Add	*8.20*	
04 21 29 00-0003		Partition Or Back Up (Scored) *(04 21 29)*		
04 21 29 00-0004		Non-load Bearing, 12" x 12" *(04 21 29 00-0003)*		
04 21 29 00-0005	SF	3" Thick Terra Cotta, Non-Load Bearing 12" x 12" Scored Face, Back-Up Partitions	30.07	
		For Smooth Tile Instead Of Scored, Add	*3.93*	
		For Reinforcing With Steel Rods, Add	*3.69*	
04 21 29 00-0006	SF	4" Thick Terra Cotta, Non-Load Bearing 12" x 12" Scored Face, Back-Up Partitions	31.92	
		For Smooth Tile Instead Of Scored, Add	*4.11*	
		For Reinforcing With Steel Rods, Add	*3.88*	
04 21 29 00-0007	SF	6" Thick Terra Cotta, Non-Load Bearing 12" x 12" Scored Face, Back-Up Partitions	41.27	
		For Smooth Tile Instead Of Scored, Add	*5.61*	
		For Reinforcing With Steel Rods, Add	*5.18*	
04 21 29 00-0008	SF	8" Thick Terra Cotta, Non-Load Bearing 12" x 12" Scored Face, Back-Up Partitions	50.55	
		For Smooth Tile Instead Of Scored, Add	*7.06*	
		For Reinforcing With Steel Rods, Add	*6.45*	
04 21 29 00-0009		Load Bearing, 12" x 12" *(04 21 29 00-0003)*		
04 21 29 00-0010		In Walls *(04 21 29 00-0009)*		
04 21 29 00-0011	SF	4" Thick Terra Cotta, Walls 12" x 12" Load Bearing Scored Face	33.92	
		For Smooth Tile Instead Of Scored, Add	*4.47*	
		For Reinforcing With Steel Rods, Add	*4.18*	
04 21 29 00-0012	SF	6" Thick Terra Cotta, Walls 12" x 12" Load Bearing Scored Face	45.84	
		For Smooth Tile Instead Of Scored, Add	*6.44*	
		For Reinforcing With Steel Rods, Add	*5.87*	
04 21 29 00-0013	SF	8" Thick Terra Cotta, Walls 12" x 12" Load Bearing Scored Face	55.01	
		For Smooth Tile Instead Of Scored, Add	*7.86*	
		For Reinforcing With Steel Rods, Add	*7.12*	
04 21 29 00-0014	SF	10" Thick Terra Cotta, Walls 12" x 12" Load Bearing Scored Face	57.63	
		For Smooth Tile Instead Of Scored, Add	*8.04*	
		For Reinforcing With Steel Rods, Add	*7.35*	
04 21 29 00-0015	SF	12" Thick Terra Cotta, Walls 12" x 12" Load Bearing Scored Face	69.26	
		For Smooth Tile Instead Of Scored, Add	*9.75*	
		For Reinforcing With Steel Rods, Add	*8.88*	
04 21 29 00-0016		In Floors *(04 21 29 00-0009)*		
04 21 29 00-0017	SF	4" Thick Terra Cotta, Floors 12" x 12" Load Bearing Scored Face	30.89	
		For Smooth Tile Instead Of Scored, Add	*4.47*	
		For Reinforcing With Steel Rods, Add	*4.03*	
04 21 29 00-0018	SF	6" Thick Terra Cotta, Floors 12" x 12" Load Bearing Scored Face	42.48	
		For Smooth Tile Instead Of Scored, Add	*6.44*	
		For Reinforcing With Steel Rods, Add	*5.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 21 29 00-0019	SF	8" Thick Terra Cotta, Floors 12" x 12" Load Bearing Scored Face	51.56	
		For Smooth Tile Instead Of Scored, Add	*7.86*	
		For Reinforcing With Steel Rods, Add	*6.95*	
04 21 29 00-0020	SF	10" Thick Terra Cotta, Floors 12" x 12" Load Bearing Scored Face	53.75	
		For Smooth Tile Instead Of Scored, Add	*8.04*	
		For Reinforcing With Steel Rods, Add	*7.15*	
04 21 29 00-0021	SF	12" Thick Terra Cotta, Floors 12" x 12" Load Bearing Scored Face	64.22	
		For Smooth Tile Instead Of Scored, Add	*9.75*	
		For Reinforcing With Steel Rods, Add	*8.63*	

04 22 Concrete Unit Masonry *(04 20)*

Note: Includes block and mortar. Excludes horizontal and vertical reinforcing. See CSI section 04 05 19 13-0000 for joint reinforcing.

04 22 23 Architectural Concrete Unit Masonry *(04 22)*

04 22 23 13 Exposed Aggregate Concrete Unit Masonry *(04 22 23)*

04 22 23 13-0001 Concrete Blocks *(04 22 23 13)*

04 22 23 13-0002 Lightweight Concrete Blocks *(04 22 23 13-0001)*

04 22 23 13-0003 Cored, Lightweight, Concrete Blocks *(04 22 23 13-0002)*

04 22 23 13-0004	SF	4" x 8" x 16", Cored, Lightweight, Concrete Block	14.21	
		For Stacked Bond, Add	*2.99*	
		For Scored Block, Add	*0.54*	
		For Curved Wall Application, Add	*2.30*	
		For <10, Small Area Replacements (Individual Areas), Add	*17.44*	
04 22 23 13-0005	SF	6" x 8" x 16", Cored, Lightweight, Concrete Block	15.89	
		For Stacked Bond, Add	*3.23*	
		For Scored Block, Add	*0.69*	
		For Curved Wall Application, Add	*2.49*	
		For <10, Small Area Replacements (Individual Areas), Add	*18.90*	
04 22 23 13-0006	SF	8" x 8" x 16", Cored, Lightweight, Concrete Block	17.24	
		For Stacked Bond, Add	*3.47*	
		For Scored Block, Add	*0.78*	
		For Curved Wall Application, Add	*2.67*	
		For <10, Small Area Replacements (Individual Areas), Add	*20.32*	
04 22 23 13-0007	SF	10" x 8" x 16", Cored, Lightweight, Concrete Block	19.14	
		For Stacked Bond, Add	*3.63*	
		For Scored Block, Add	*1.04*	
		For Curved Wall Application, Add	*2.79*	
		For <10, Small Area Replacements (Individual Areas), Add	*21.33*	
04 22 23 13-0008	SF	12" x 8" x 16", Cored, Lightweight, Concrete Block	22.66	
		For Stacked Bond, Add	*4.44*	
		For Scored Block, Add	*1.11*	
		For Curved Wall Application, Add	*3.42*	
		For <10, Small Area Replacements (Individual Areas), Add	*26.05*	

04 22 23 13-0009 Solid, Lightweight, Concrete Blocks *(04 22 23 13-0002)*

04 22 23 13-0010	SF	4" x 8" x 16", Solid, Lightweight, Concrete Block	15.41	
		For Stacked Bond, Add	*3.06*	
		For Scored Block, Add	*0.73*	
		For Curved Wall Application, Add	*2.36*	
		For <10, Small Area Replacements (Individual Areas), Add	*17.94*	
04 22 23 13-0011	SF	6" x 8" x 16", Solid, Lightweight, Concrete Block	16.89	
		For Stacked Bond, Add	*3.37*	
		For Scored Block, Add	*0.79*	
		For Curved Wall Application, Add	*2.59*	
		For <10, Small Area Replacements (Individual Areas), Add	*19.73*	
04 22 23 13-0012	SF	8" x 8" x 16", Solid, Lightweight, Concrete Block	17.81	
		For Stacked Bond, Add	*3.58*	
		For Scored Block, Add	*0.81*	
		For Curved Wall Application, Add	*2.75*	
		For <10, Small Area Replacements (Individual Areas), Add	*20.93*	
04 22 23 13-0013	SF	10" x 8" x 16", Solid, Lightweight, Concrete Block	20.02	
		For Stacked Bond, Add	*3.74*	
		For Scored Block, Add	*1.12*	
		For Curved Wall Application, Add	*2.88*	
		For <10, Small Area Replacements (Individual Areas), Add	*22.02*	
04 22 23 13-0014	SF	12" x 8" x 16", Solid, Lightweight, Concrete Block	23.66	
		For Stacked Bond, Add	*4.59*	
		For Scored Block, Add	*1.20*	
		For Curved Wall Application, Add	*3.53*	
		For <10, Small Area Replacements (Individual Areas), Add	*26.94*	

04 22 23 13-0015 Normal Weight Concrete Blocks *(04 22 23 13-0001)*

04 22 23 13-0016 Cored, Normal Weight, Concrete Blocks *(04 22 23 13-0015)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 22 23 13-0017	SF	4" x 8" x 16", Cored, Normal Weight, Concrete Block	14.50	
		For Stacked Bond, Add	*3.06*	
		For Scored Block, Add	*0.54*	
		For Curved Wall Application, Add	*2.36*	
		For <10, Small Area Replacements (Individual Areas), Add	*17.87*	
		For 3,500 PSI, Add	*0.57*	
		For 5,000 PSI, Add	*0.98*	
04 22 23 13-0018	SF	6" x 8" x 16", Cored, Normal Weight, Concrete Block	16.07	
		For Stacked Bond, Add	*3.37*	
		For Scored Block, Add	*0.62*	
		For Curved Wall Application, Add	*2.59*	
		For <10, Small Area Replacements (Individual Areas), Add	*19.67*	
		For 3,500 PSI, Add	*0.65*	
		For 5,000 PSI, Add	*1.12*	
04 22 23 13-0019	SF	8" x 8" x 16", Cored, Normal Weight, Concrete Block	17.33	
		For Stacked Bond, Add	*3.58*	
		For Scored Block, Add	*0.72*	
		For Curved Wall Application, Add	*2.75*	
		For <10, Small Area Replacements (Individual Areas), Add	*20.89*	
		For 3,500 PSI, Add	*0.75*	
		For 5,000 PSI, Add	*1.29*	
04 22 23 13-0020	SF	10" x 8" x 16", Cored, Normal Weight, Concrete Block	21.31	
		For Stacked Bond, Add	*3.74*	
		For Scored Block, Add	*1.38*	
		For Curved Wall Application, Add	*2.88*	
		For <10, Small Area Replacements (Individual Areas), Add	*22.12*	
		For 3,500 PSI, Add	*1.45*	
		For 5,000 PSI, Add	*2.49*	
04 22 23 13-0021	SF	12" x 8" x 16", Cored, Normal Weight, Concrete Block	24.79	
		For Stacked Bond, Add	*4.59*	
		For Scored Block, Add	*1.43*	
		For Curved Wall Application, Add	*3.53*	
		For <10, Small Area Replacements (Individual Areas), Add	*27.02*	
		For 3,500 PSI, Add	*1.50*	
		For 5,000 PSI, Add	*2.57*	

04 22 23 13-0022 Solid, Normal Weight, Concrete Blocks *(04 22 23 13-0015)*

04 22 23 13-0023	SF	4" x 8" x 16", Solid, Normal Weight, Concrete Block	15.56	
		For Stacked Bond, Add	*3.15*	
		For Scored Block, Add	*0.69*	
		For Curved Wall Application, Add	*2.42*	
		For <10, Small Area Replacements (Individual Areas), Add	*18.41*	
		For 3,500 PSI, Add	*0.73*	
		For 5,000 PSI, Add	*1.25*	
04 22 23 13-0024	SF	6" x 8" x 16", Solid, Normal Weight, Concrete Block	16.55	
		For Stacked Bond, Add	*3.47*	
		For Scored Block, Add	*0.64*	
		For Curved Wall Application, Add	*2.67*	
		For <10, Small Area Replacements (Individual Areas), Add	*20.27*	
		For 3,500 PSI, Add	*0.67*	
		For 5,000 PSI, Add	*1.15*	
04 22 23 13-0025	SF	8" x 8" x 16", Solid, Normal Weight, Concrete Block	17.89	
		For Stacked Bond, Add	*3.69*	
		For Scored Block, Add	*0.74*	
		For Curved Wall Application, Add	*2.84*	
		For <10, Small Area Replacements (Individual Areas), Add	*21.55*	
		For 3,500 PSI, Add	*0.78*	
		For 5,000 PSI, Add	*1.34*	
04 22 23 13-0026	SF	10" x 8" x 16", Solid, Normal Weight, Concrete Block	19.84	
		For Stacked Bond, Add	*3.87*	
		For Scored Block, Add	*0.99*	
		For Curved Wall Application, Add	*2.97*	
		For <10, Small Area Replacements (Individual Areas), Add	*22.68*	
		For 3,500 PSI, Add	*1.04*	
		For 5,000 PSI, Add	*1.79*	
04 22 23 13-0027	SF	12" x 8" x 16", Solid, Normal Weight, Concrete Block	23.45	
		For Stacked Bond, Add	*4.75*	
		For Scored Block, Add	*1.04*	
		For Curved Wall Application, Add	*3.65*	
		For <10, Small Area Replacements (Individual Areas), Add	*27.79*	
		For 3,500 PSI, Add	*1.09*	
		For 5,000 PSI, Add	*1.86*	

04 22 23 13-0028 Bond Beam Or Lintel Concrete Blocks *(04 22 23 13)*

04 22 23 13-0029 Lightweight, Bond Beam Or Lintel Concrete Blocks *(04 22 23 13-0028)*

Note: Excludes concrete fill and reinforcing.

04 22 23 13-0030	LF	6" x 8" x 16", Lightweight, Bond Beam Or Lintel Concrete Block	16.69	
		For Stacked Bond, Add	*3.23*	
		For Grout And Fill With 2 #5 Rebar, Add	*10.48*	
		For Scored Block, Add	*0.85*	
		For Curved Wall Application, Add	*2.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 22 23 13-0031	LF	8" x 8" x 16", Lightweight, Bond Beam Or Lintel Concrete Block	18.50	
		For Stacked Bond, Add	*3.47*	
		For Grout And Fill With 2 #5 Rebar, Add	*11.83*	
		For Scored Block, Add	*1.03*	
		For Curved Wall Application, Add	*2.67*	
04 22 23 13-0032	LF	12" x 8" x 16", Lightweight, Bond Beam Or Lintel Concrete Block	22.56	
		For Stacked Bond, Add	*4.44*	
		For Grout And Fill With 2 #5 Rebar, Add	*14.02*	
		For Scored Block, Add	*1.09*	
		For Curved Wall Application, Add	*3.42*	
04 22 23 13-0033		Normal Weight, Bond Beam Or Lintel Concrete Blocks *(04 22 23 13-0028)*		
		Note: Excludes concrete fill and reinforcing.		
04 22 23 13-0034	LF	6" x 8" x 16", Normal Weight, Bond Beam Or Lintel Concrete Block	16.61	
		For Stacked Bond, Add	*3.37*	
		For Grout And Fill With 2 #5 Rebar, Add	*10.13*	
		For Scored Block, Add	*0.73*	
		For Curved Wall Application, Add	*2.59*	
		For 3,500 PSI, Add	*0.77*	
		For 5,000 PSI, Add	*1.31*	
04 22 23 13-0035	LF	8" x 8" x 16", Normal Weight, Bond Beam Or Lintel Concrete Block	18.29	
		For Stacked Bond, Add	*3.58*	
		For Grout And Fill With 2 #5 Rebar, Add	*11.42*	
		For Scored Block, Add	*0.91*	
		For Curved Wall Application, Add	*2.75*	
		For 3,500 PSI, Add	*0.95*	
		For 5,000 PSI, Add	*1.63*	
04 22 23 13-0036	LF	12" x 8" x 16", Normal Weight, Bond Beam Or Lintel Concrete Block	22.53	
		For Stacked Bond, Add	*4.59*	
		For Grout And Fill With 2 #5 Rebar, Add	*13.70*	
		For Scored Block, Add	*0.97*	
		For Curved Wall Application, Add	*3.53*	
		For 3,500 PSI, Add	*1.02*	
		For 5,000 PSI, Add	*1.75*	
04 22 23 23		**Prefaced Concrete Unit Masonry** *(04 22 23)*		
04 22 23 23-0001		Ground Face Concrete Blocks *(04 22 23 23)*		
04 22 23 23-0002	SF	4" x 8" x 16", Ground Face, Concrete Block	18.76	
		For Stacked Bond, Add	*3.74*	
		For Scored Block, Add	*0.87*	
		For Curved Wall Application, Add	*2.88*	
		For <10, Small Area Replacements (Individual Areas), Add	*21.93*	
04 22 23 23-0003	SF	6" x 8" x 16", Ground Face, Concrete Block	21.17	
		For Stacked Bond, Add	*4.21*	
		For Scored Block, Add	*0.99*	
		For Curved Wall Application, Add	*3.24*	
		For <10, Small Area Replacements (Individual Areas), Add	*24.67*	
04 22 23 23-0004	SF	8" x 8" x 16", Ground Face, Concrete Block	23.00	
		For Stacked Bond, Add	*4.45*	
		For Scored Block, Add	*1.18*	
		For Curved Wall Application, Add	*3.42*	
		For <10, Small Area Replacements (Individual Areas), Add	*26.12*	
04 22 23 23-0005	SF	10" x 8" x 16", Ground Face, Concrete Block	24.63	
		For Stacked Bond, Add	*4.72*	
		For Scored Block, Add	*1.30*	
		For Curved Wall Application, Add	*3.63*	
		For <10, Small Area Replacements (Individual Areas), Add	*27.71*	
04 22 23 23-0006	SF	12" x 8" x 16", Ground Face, Concrete Block	29.15	
		For Stacked Bond, Add	*5.74*	
		For Scored Block, Add	*1.42*	
		For Curved Wall Application, Add	*4.41*	
		For <10, Small Area Replacements (Individual Areas), Add	*33.64*	
04 22 23 26		**Sound-Absorbing Concrete Unit Masonry** *(04 22 23)*		
04 22 23 26-0001		Slotted, Acoustical Concrete Block *(04 22 23 26)*		
04 22 23 26-0002	SF	4" x 8" x 16", .45 - .55 NRC, Slotted, Acoustical Concrete Block	26.45	
		For Stacked Bond, Add	*3.74*	
		For Curved Wall Application, Add	*2.88*	
		For <10, Small Area Replacements (Individual Areas), Add	*22.50*	
04 22 23 26-0003	SF	6" x 8" x 16", .45 - .55 NRC, Slotted, Acoustical Concrete Block	29.77	
		For Stacked Bond, Add	*4.07*	
		For Curved Wall Application, Add	*3.13*	
		For <10, Small Area Replacements (Individual Areas), Add	*24.53*	
04 22 23 26-0004	SF	8" x 8" x 16", .45 - .55 NRC, Slotted, Acoustical Concrete Block	34.53	
		For Stacked Bond, Add	*4.45*	
		For Curved Wall Application, Add	*3.42*	
		For <10, Small Area Replacements (Individual Areas), Add	*26.99*	
04 22 23 29		**Split-Face Concrete Unit Masonry** *(04 22 23)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 22 23 29-0001		Split Face, Concrete Blocks *(04 22 23 29)*		
04 22 23 29-0002		Plain Or Scored, Split Face, Concrete Blocks *(04 22 23 29-0001)*		
04 22 23 29-0003	SF	4" x 8" x 16", Plain Or Scored, Split Face, Concrete Block	19.28	
		For Stacked Bond, Add	*3.74*	
		For Curved Wall Application, Add	*2.88*	
		For <10, Small Area Replacements (Individual Areas), Add	*21.97*	
04 22 23 29-0004	SF	6" x 8" x 16", Plain Or Scored, Split Face, Concrete Block	21.77	
		For Stacked Bond, Add	*4.21*	
		For Curved Wall Application, Add	*3.24*	
		For <10, Small Area Replacements (Individual Areas), Add	*24.72*	
04 22 23 29-0005	SF	8" x 8" x 16", Plain Or Scored, Split Face, Concrete Block	23.69	
		For Stacked Bond, Add	*4.45*	
		For Curved Wall Application, Add	*3.42*	
		For <10, Small Area Replacements (Individual Areas), Add	*26.17*	
04 22 23 29-0006	SF	10" x 8" x 16", Plain Or Scored, Split Face, Concrete Block	25.45	
		For Stacked Bond, Add	*4.72*	
		For Curved Wall Application, Add	*3.63*	
		For <10, Small Area Replacements (Individual Areas), Add	*27.77*	
04 22 23 29-0007	SF	12" x 8" x 16", Plain Or Scored, Split Face, Concrete Block	29.64	
		For Stacked Bond, Add	*5.74*	
		For Curved Wall Application, Add	*4.41*	
		For <10, Small Area Replacements (Individual Areas), Add	*33.67*	
04 22 23 29-0008		Plain Or Scored, Split Face, Bond Beam Or Lintel Concrete Blocks *(04 22 23 29-0001)*		
04 22 23 29-0009	SF	4" x 8" x 16", Plain Or Scored, Split Face, Bond Beam Or Lintel Concrete Block	20.50	
		For Stacked Bond, Add	*3.74*	
		For Grout And Fill With 2 #5 Rebar, Add	*13.30*	
		For Curved Wall Application, Add	*2.88*	
		For <10, Small Area Replacements (Individual Areas), Add	*22.06*	
04 22 23 29-0010	SF	6" x 8" x 16", Plain Or Scored, Split Face, Bond Beam Or Lintel Concrete Block	23.17	
		For Stacked Bond, Add	*4.21*	
		For Grout And Fill With 2 #5 Rebar, Add	*15.07*	
		For Curved Wall Application, Add	*3.24*	
		For <10, Small Area Replacements (Individual Areas), Add	*24.82*	
04 22 23 29-0011	SF	8" x 8" x 16", Plain Or Scored, Split Face, Bond Beam Or Lintel Concrete Block	25.33	
		For Stacked Bond, Add	*4.45*	
		For Grout And Fill With 2 #5 Rebar, Add	*16.77*	
		For Curved Wall Application, Add	*3.42*	
		For <10, Small Area Replacements (Individual Areas), Add	*26.30*	
04 22 23 29-0012	SF	10" x 8" x 16", Plain Or Scored, Split Face, Bond Beam Or Lintel Concrete Block	27.27	
		For Stacked Bond, Add	*4.72*	
		For Grout And Fill With 2 #5 Rebar, Add	*18.20*	
		For Curved Wall Application, Add	*3.63*	
		For <10, Small Area Replacements (Individual Areas), Add	*27.91*	
04 22 23 29-0013	SF	12" x 8" x 16", Plain Or Scored, Split Face, Bond Beam Or Lintel Concrete Block	31.53	
		For Stacked Bond, Add	*5.74*	
		For Grout And Fill With 2 #5 Rebar, Add	*20.50*	
		For Curved Wall Application, Add	*4.41*	
		For <10, Small Area Replacements (Individual Areas), Add	*33.81*	
04 22 23 29-0014		Split Rib, Concrete Block *(04 22 23 29)*		
04 22 23 29-0015		Split Rib, Concrete Block *(04 22 23 29-0014)*		
04 22 23 29-0016	SF	4" x 8" x 16", Split Rib, Concrete Block	18.89	
		For Stacked Bond, Add	*3.74*	
		For Curved Wall Application, Add	*2.88*	
		For <10, Small Area Replacements (Individual Areas), Add	*21.94*	
04 22 23 29-0017	SF	6" x 8" x 16", Split Rib, Concrete Block	22.68	
		For Stacked Bond, Add	*4.21*	
		For Curved Wall Application, Add	*3.24*	
		For <10, Small Area Replacements (Individual Areas), Add	*24.79*	
04 22 23 29-0018	SF	8" x 8" x 16", Split Rib, Concrete Block	24.16	
		For Stacked Bond, Add	*4.45*	
		For Curved Wall Application, Add	*3.42*	
		For <10, Small Area Replacements (Individual Areas), Add	*26.21*	
04 22 23 29-0019	SF	10" x 8" x 16", Split Rib, Concrete Block	25.84	
		For Stacked Bond, Add	*4.72*	
		For Curved Wall Application, Add	*3.63*	
		For <10, Small Area Replacements (Individual Areas), Add	*27.80*	
04 22 23 29-0020	SF	12" x 8" x 16", Split Rib, Concrete Block	30.49	
		For Stacked Bond, Add	*5.74*	
		For Curved Wall Application, Add	*4.41*	
		For <10, Small Area Replacements (Individual Areas), Add	*33.74*	
04 22 23 31		**Glazed Concrete Masonry Unit** *(04 22 23)*		
04 22 23 31-0001		One Glazed Face, Concrete Blocks *(04 22 23 31)*		
04 22 23 31-0002		One Glazed Face, Concrete Blocks *(04 22 23 31-0001)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 22 23 31-0003	SF	4" x 8" x 16", One Glazed Face, Concrete Block	35.55	
		For Stacked Bond, Add	*3.63*	
		For Curved Wall Application, Add	*2.79*	
		For <10, Small Area Replacements (Individual Areas), Add	*22.56*	
04 22 23 31-0004	SF	6" x 8" x 16", One Glazed Face, Concrete Block	37.98	
		For Stacked Bond, Add	*4.00*	
		For Curved Wall Application, Add	*3.07*	
		For <10, Small Area Replacements (Individual Areas), Add	*24.75*	
04 22 23 31-0005	SF	8" x 8" x 16", One Glazed Face, Concrete Block	40.24	
		For Stacked Bond, Add	*4.21*	
		For Curved Wall Application, Add	*3.24*	
		For <10, Small Area Replacements (Individual Areas), Add	*26.10*	
04 22 23 31-0006	SF	10" x 8" x 16", One Glazed Face, Concrete Block	42.63	
		For Stacked Bond, Add	*4.45*	
		For Curved Wall Application, Add	*3.42*	
		For <10, Small Area Replacements (Individual Areas), Add	*27.59*	
04 22 23 31-0007	SF	12" x 8" x 16", One Glazed Face, Concrete Block	47.54	
		For Stacked Bond, Add	*5.40*	
		For Curved Wall Application, Add	*4.16*	
		For <10, Small Area Replacements (Individual Areas), Add	*33.18*	

04 22 23 31-0008 Two Glazed Faces, Concrete Blocks *(04 22 23 31)*

04 22 23 31-0009 Two Glazed Faces, Concrete Blocks *(04 22 23 31-0008)*

04 22 23 31-0010	SF	4" x 8" x 16", Two Glazed Faces, Concrete Block	47.98	
		For Stacked Bond, Add	*4.14*	
		For Curved Wall Application, Add	*3.18*	
		For <10, Small Area Replacements (Individual Areas), Add	*26.28*	
04 22 23 31-0011	SF	6" x 8" x 16", Two Glazed Faces, Concrete Block	50.25	
		For Stacked Bond, Add	*4.45*	
		For Curved Wall Application, Add	*3.42*	
		For <10, Small Area Replacements (Individual Areas), Add	*28.16*	
04 22 23 31-0012	SF	8" x 8" x 16", Two Glazed Faces, Concrete Block	53.46	
		For Stacked Bond, Add	*4.91*	
		For Curved Wall Application, Add	*3.78*	
		For <10, Small Area Replacements (Individual Areas), Add	*30.94*	

04 23 Glass Unit Masonry *(04 20)*

04 23 13 Vertical Glass Unit Masonry *(04 23)*

Note: Includes 1/4" mortar joints and caulking. Excludes joint reinforcement and anchors.

04 23 13 00-0001 Glass Block Unit Masonry *(04 23 13)*

04 23 13 00-0002	SF	6" x 6" x 4" Plain Glass Block	95.39	
		For Solar Reflective (Suntrol) Blocks, Add	*20.53*	
		For Essex (Horizontal Striated) Blocks, Add	*11.73*	
		For Sculptured Or Patterned Blocks, Add	*20.53*	
		For Colored Glass, Add	*58.67*	
		For Thinline Block, Deduct	*-14.67*	
		For >1,000 To 5,000, Deduct	*-6.59*	
		For >5,000, Deduct	*-11.35*	
04 23 13 00-0003	SF	8" x 8" x 4" Plain Glass Block	68.53	
		For Solar Reflective (Suntrol) Blocks, Add	*14.54*	
		For Essex (Horizontal Striated) Blocks, Add	*8.31*	
		For Sculptured Or Patterned Blocks, Add	*14.54*	
		For Colored Glass, Add	*41.53*	
		For Thinline Block, Deduct	*-10.38*	
		For >1,000 To 5,000, Deduct	*-4.77*	
		For >5,000, Deduct	*-8.19*	
04 23 13 00-0004	SF	12" x 12" x 4" Plain Glass Block	77.90	
		For Solar Reflective (Suntrol) Blocks, Add	*18.57*	
		For Essex (Horizontal Striated) Blocks, Add	*10.61*	
		For Sculptured Or Patterned Blocks, Add	*18.57*	
		For Colored Glass, Add	*53.06*	
		For Thinline Block, Deduct	*-13.27*	
		For >1,000 To 5,000, Deduct	*-5.13*	
		For >5,000, Deduct	*-9.02*	

04 23 13 00-0005 Solid Glass Block (Vistabrik®) *(04 23 13)*

04 23 13 00-0006	SF	3" x 8" x 3" Solid Glass Block (Vistabrik®)	973.36
04 23 13 00-0007	SF	4" x 8" x 3" Solid Glass Block (Vistabrik®)	736.15
04 23 13 00-0008	SF	6" x 8" x 3" Solid Glass Block (Vistabrik®)	501.79
04 23 13 00-0009	SF	8" x 8" x 3" Solid Glass Block (Vistabrik®)	351.00

04 40 Stone Assemblies *(04)*

Note: Includes pointing and cleaning of new stone and mortar. All stone prices include material and mortar.

04 41 Dry-Placed Stone *(04 40)*

04 41 00 00-0001 Ashlar Veneer, Random Size, Square Cut Rough Stone *(04 41)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 41 00 00-0002	SF	4" Thick Ashlar Veneer, Random Size, Square Cut Rough Stone	28.65	8.72
04 41 00 00-0003	SF	6" Thick Ashlar Veneer, Random Size, Square Cut Rough Stone	29.13	8.72

04 42 Exterior Stone Cladding *(04 40)*

04 42 43 Stone Panels for Curtain Walls *(04 42)*

04 42 43 00-0001 Marble Facing Panels *(04 42 43)*

Note: 3' x 1.5'

04 42 43 00-0002	SF	3/4" Thick Marble Facing Panels	62.93	19.37
04 42 43 00-0003	SF	7/8" Thick Marble Facing Panels	65.67	19.61
04 42 43 00-0004	SF	1-1/2" Thick Marble Facing Panels	73.67	19.99
04 42 43 00-0005	SF	2" Thick Marble Facing Panels	79.81	20.61
04 42 43 00-0006	SF	2-1/4" Thick Marble Facing Panels	84.96	21.86
04 42 43 00-0007	CF	Marble Face Panel	340.35	71.21

04 42 43 00-0008 Smooth Limestone Panels *(04 42 43)*

Note: Up to 12' x 5' panels.

04 42 43 00-0009	SF	1-1/2" Thick Smooth Limestone Panels	65.02	38.85
04 42 43 00-0010	SF	2" Thick Smooth Limestone Panels	68.85	40.72
04 42 43 00-0011	SF	3" Thick Smooth Limestone Panels	72.86	42.60
04 42 43 00-0012	SF	4" Thick Smooth Limestone Panels	83.91	46.85

04 42 43 00-0013 Sandstone Panels *(04 42 43)*

04 42 43 00-0014	SF	2-1/2" Thick Sandstone Panels	73.76	40.72
04 42 43 00-0015	SF	4" Thick Sandstone Panels	81.43	46.85
04 42 43 00-0016	SF	Split Face Sandstone Panels, Random Sizes	75.61	46.85

04 43 Stone Masonry *(04 40)*

04 43 16 Stone Fabrications *(04 43)*

04 43 16 00-0001 Marble *(04 43 16)*

04 43 16 00-0002 Marble Base *(04 43 16 00-0001)*

Note: 1" thick.

04 43 16 00-0003	LF	4" High Marble Base	114.37	77.73
04 43 16 00-0004	LF	6" High Marble Base	127.73	84.68

04 43 16 00-0005 Marble Columns *(04 43 16 00-0001)*

04 43 16 00-0006	CF	Plain Faced Solid Marble Columns	253.52	71.21
04 43 16 00-0007	CF	Fluted, Carved Solid Marble Columns	381.10	71.21

04 43 16 00-0008 Marble Flooring *(04 43 16 00-0001)*

04 43 16 00-0009	SF	3/8" Uniform Color Marble Flooring	29.76	17.80
04 43 16 00-0010	SF	1/2" Uniform Color Marble Flooring	31.18	17.80
04 43 16 00-0011	SF	1/2" Travertine Marble Flooring	36.80	20.32

04 43 16 00-0012 Marble Items *(04 43 16 00-0001)*

04 43 16 00-0013	LF	12" Wide Marble Stair Treads	68.34	28.30
04 43 16 00-0014	LF	6" Wide Marble Stair Risers	52.68	22.69
04 43 16 00-0015	LF	6" Wide x 2" Thick Marble Window Sills	33.23	16.64
04 43 16 00-0016	LF	5" Wide x 7/8" Thick Marble Window Stool, Polished	57.65	20.43
04 43 16 00-0017	SF	7/8" Thick, Non-Skid, Marble Patio Blocks	40.93	25.80

04 43 16 00-0018 Limestone *(04 43 16)*

04 43 16 00-0019 Ashlar Veneer Limestone *(04 43 16 00-0018)*

04 43 16 00-0020	SF	4" Ashlar Veneer Limestone, Random Sizes	63.88	28.30
04 43 16 00-0021	SF	6" To 8" Thick, Pitched Face Ashlar Veneer Limestone, Random Sizes	96.11	38.88

04 43 16 00-0022 Limestone Coping *(04 43 16 00-0018)*

Note: Measured from the highest point. Includes drilling into existing materials, caulk and ties.

04 43 16 00-0023	SF	2-1/2" Thick Limestone Coping	31.20	10.00
04 43 16 00-0024	SF	3" Thick Limestone Coping	34.70	10.62
04 43 16 00-0025	SF	3-1/2" Thick Limestone Coping	38.19	11.24
04 43 16 00-0026	SF	4" Thick Limestone Coping	40.43	11.61
04 43 16 00-0027	SF	5" Thick Limestone Coping	46.16	11.87
04 43 16 00-0028	SF	6" Thick Limestone Coping	65.10	12.49
04 43 16 00-0029	CF	>6" Thick Limestone Coping	107.07	25.28

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 43 16 00-0030		Limestone Stair Treads *(04 43 16 00-0018)*		
04 43 16 00-0031	SF	2" Thick Limestone Treads	38.33	9.37
04 43 16 00-0032	SF	2-1/2" Thick Limestone Treads	40.63	10.00
04 43 16 00-0033	SF	3" Thick Limestone Treads	45.27	10.62
04 43 16 00-0034	SF	3-1/2" Thick Limestone Treads	48.64	11.24
04 43 16 00-0035	SF	4" Thick Limestone Treads	52.03	11.24
04 43 16 00-0036	SF	5" Thick Limestone Treads	56.29	11.87
04 43 16 00-0037	SF	6" Thick Limestone Tread, Smooth Finish	75.58	12.49
04 43 16 00-0038		Limestone Items *(04 43 16 00-0018)*		
04 43 16 00-0039	CF	Sawn Edge Limestone Block, Sill, Lintel, Jamb And Other Trim	195.79	94.79
04 43 16 00-0040		Granite *(04 43 16)*		
04 43 16 00-0041		Polished Granite Veneer Facing Panels *(04 43 16 00-0040)*		
		Note: Excludes structural support steel.		
04 43 16 00-0042	SF	7/8" Thick Black Polished Granite Veneer Facing Panels	131.28	39.11
04 43 16 00-0043	SF	7/8" Thick Gray Polished Granite Veneer Facing Panels	118.76	39.11
04 43 16 00-0044		Granite Stair Treads *(04 43 16 00-0040)*		
04 43 16 00-0045	SF	2" Thick Granite Stair Tread	77.09	9.37
04 43 16 00-0046		Slate *(04 43 16)*		
04 43 16 00-0047		Slate Panels Or Sills *(04 43 16 00-0046)*		
04 43 16 00-0048	SF	1" Thick Slate Panels	66.86	39.11
04 43 16 00-0049	SF	2" Thick Slate Panels	76.42	39.11
04 43 16 00-0050		Slate Sills Or Stools *(04 43 16 00-0046)*		
04 43 16 00-0051	LF	6" Wide, 1" Thick Slate Sills Or Stools With Sand Finish	30.14	16.75
04 43 16 00-0052	LF	10" Wide, 1" Thick Slate Sills Or Stools With Sand Finish	36.22	16.75
04 43 16 00-0053	LF	6" Wide, 2" Thick Slate Sills Or Stools With Sand Finish	35.36	16.75
04 43 16 00-0054	LF	10" Wide, 2" Thick Slate Sills Or Stools With Sand Finish	48.40	16.75
04 43 16 00-0055		Slate Stair Treads *(04 43 16 00-0046)*		
04 43 16 00-0056	SF	2" Thick Slate Stair Tread	44.24	9.37

04 50 Refractory Masonry *(04)*

04 51 Flue Liner Masonry *(04 50)*

Note: Includes mortar joints.

04 51 00 00-0001		Rectangular Flue Liners *(04 51)*		
04 51 00 00-0002	VLF	4" x 8" Clay Flue Liners	22.04	
04 51 00 00-0003	VLF	8" x 8" Clay Flue Liners	30.43	
04 51 00 00-0004	VLF	8" x 12" Clay Flue Liners	34.68	
04 51 00 00-0005	VLF	12" x 12" Clay Flue Liners	43.18	
04 51 00 00-0006	VLF	12" x 16" Clay Flue Liners	52.74	
04 51 00 00-0007	VLF	12" x 18" Clay Flue Liners	59.99	
04 51 00 00-0008	VLF	16" x 16" Clay Flue Liners	65.40	
04 51 00 00-0009	VLF	16" x 20" Clay Flue Liners	80.75	
04 51 00 00-0010	VLF	18" x 18" Clay Flue Liners	86.27	
04 51 00 00-0011	VLF	20" x 20" Clay Flue Liners	111.19	
04 51 00 00-0012	VLF	20" x 24" Clay Flue Liners	121.13	
04 51 00 00-0013	VLF	24" x 24" Clay Flue Liners	143.66	
04 51 00 00-0014		Round Flue Liners *(04 51)*		
04 51 00 00-0015	VLF	6" Diameter Clay Flue Liners	53.92	
04 51 00 00-0016	VLF	8" Diameter Clay Flue Liners	78.53	
04 51 00 00-0017	VLF	10" Diameter Clay Flue Liners	103.34	
04 51 00 00-0018	VLF	12" Diameter Clay Flue Liners	125.90	
04 51 00 00-0019	VLF	15" Diameter Clay Flue Liners	154.45	
04 51 00 00-0020	VLF	18" Diameter Clay Flue Liners	166.95	
04 51 00 00-0021	VLF	21" Diameter Clay Flue Liners	213.03	
04 51 00 00-0022	VLF	24" Diameter Clay Flue Liners	261.62	
04 51 00 00-0023	VLF	27" Diameter Clay Flue Liners	301.91	
04 51 00 00-0024	VLF	30" Diameter Clay Flue Liners	343.42	
04 51 00 00-0025	VLF	33" Diameter Clay Flue Liners	360.14	
04 51 00 00-0026	VLF	36" Diameter Clay Flue Liners	366.94	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
04 51 00 00-0027		Standard Chimney Block *(04 51)*		
		Note: Includes refractory mortar. Excludes flue liners.		
04 51 00 00-0028	EA	14" x 14" x 8" Concrete Block Chimney Unit	35.40	
04 51 00 00-0029	EA	14" x 18" x 8" Concrete Block Chimney Unit	38.76	
04 51 00 00-0030	EA	16" x 16" x 8" Concrete Block Chimney Unit	39.01	
04 51 00 00-0031	EA	17" x 17" x 8" Concrete Block Chimney Unit	40.94	
04 51 00 00-0032	EA	16" x 20" x 8" Concrete Block Chimney Unit	43.09	
04 51 00 00-0033	EA	17" x 21" x 8" Concrete Block Chimney Unit	45.41	
04 51 00 00-0034	EA	21" x 21" x 8" Concrete Block Chimney Unit	51.29	

04 70 Manufactured Masonry *(04)*

04 72 Cast Stone Masonry *(04 70)*

04 72 00 00-0001		Solid Precast Concrete Lintels *(04 72)*		
04 72 00 00-0002		Solid Precast Concrete Lintels *(04 72 00 00-0001)*		
04 72 00 00-0003	LF	4" x 8", Solid Precast Concrete Lintel	19.18	
04 72 00 00-0004	LF	6" x 8", Solid Precast Concrete Lintel	24.45	
04 72 00 00-0005	LF	8" x 8", Solid Precast Concrete Lintel	30.20	
04 72 00 00-0006		U Shaped Precast Concrete Lintels *(04 72 00 00-0001)*		
		Note: Excludes concrete fill and field added reinforcing. See CSI section 04 05 16 26-0001 for concrete fill.		
04 72 00 00-0007	LF	6" x 8", U Shaped Precast Concrete Lintel	20.56	
04 72 00 00-0008	LF	8" x 8", U Shaped Precast Concrete Lintel	24.93	
04 72 00 00-0009	LF	12" x 8", U Shaped Precast Concrete Lintel	40.99	
04 72 00 00-0010		Precast Concrete Coping *(04 72)*		
		Note: Includes caulk and ties. Excludes drilling into existing materials or other anchoring bolts.		
04 72 00 00-0011		Precast Concrete Coping *(04 72 00 00-0010)*		
		Note: Measured at highest point.		
04 72 00 00-0012	SF	2" Thick Precast Concrete Coping	63.75	13.70
04 72 00 00-0013	SF	2-1/2" Thick Precast Concrete Coping	72.43	14.75
04 72 00 00-0014	SF	3" Thick Precast Concrete Coping	83.91	15.79
04 72 00 00-0015	SF	3-1/2" Thick Precast Concrete Coping	90.65	16.85
04 72 00 00-0016	SF	4" Thick Precast Concrete Coping	97.46	17.90
04 72 00 00-0017	SF	5" Thick Precast Concrete Coping	116.45	18.96
04 72 00 00-0018	SF	6" Thick Precast Concrete Coping	133.42	20.01
04 72 00 00-0019		Precast Concrete Window Sills *(04 72)*		
		Note: Includes caulk and ties.		
04 72 00 00-0020		Precast Concrete Window Sills *(04 72 00 00-0019)*		
04 72 00 00-0021	LF	6" Wide Precast Concrete Window Sill	46.99	10.53
04 72 00 00-0022	LF	10" Wide Precast Concrete Window Sill	71.74	10.53
04 72 00 00-0023	LF	14" Wide Precast Concrete Window Sill	85.29	10.53

END OF SECTION 04

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 Metals

05 01 Maintenance of Metals *(05)*

05 01 50 Maintenance of Metal Fabrications *(05 01)*

05 01 50 61 Repair of Metal Fabrications *(05 01 50)*
See CSI section 05 05 21 00-0001 for welding, 05 05 23 00-1580 for torch cutting.

05 01 50 63 Refinishing of Metal Fabrications *(05 01 50)*
See CSI section 05 12 23 00-0143 for field applied cold galvanizing, 05 12 23 00-0145 for metal grinding.

05 01 70 Maintenance of Decorative Metal *(05 01)*

05 01 70 61 Repair of Decorative Metal *(05 01 70)*
See CSI section 05 05 21 00-0001 for welding, 05 05 23 00-1580 for torch cutting.

05 01 70 63 Refinishing of Decorative Metal *(05 01 70)*
See CSI section 05 12 23 00-0143 for field applied cold galvanizing, 05 12 23 00-0145 for metal grinding.

05 05 Common Work Results for Metals *(05)*

05 05 19 Post-Installed Concrete Anchors *(05 05)*

See CSI section 03 15 19 00-0000 for cast-in concrete anchors.

05 05 19 00-0001 Concrete And Masonry Anchors *(05 05 19)*

05 05 19 00-0002 Expansion Anchors *(05 05 19 00-0001)*
Note: Includes drilling.

05 05 19 00-0003 Wedge Expansion Bolt Anchors *(05 05 19 00-0002)*

05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt *(05 05 19 00-0003)*
Note: Includes nut and washer.

05 05 19 00-0005	EA	1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.66	
		For >10 To 50, Deduct	*-0.70*	
		For >50 To 100, Deduct	*-1.42*	
		For >100, Deduct	*-2.84*	
05 05 19 00-0006	EA	1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.75	
		For >10 To 50, Deduct	*-0.70*	
		For >50 To 100, Deduct	*-1.42*	
		For >100, Deduct	*-2.85*	
05 05 19 00-0007	EA	1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.18	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.46*	
		For >100, Deduct	*-2.93*	
05 05 19 00-0008	EA	3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.95	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.73*	
		For >100, Deduct	*-3.47*	
05 05 19 00-0009	EA	3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	18.02	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.73*	
		For >100, Deduct	*-3.47*	
05 05 19 00-0010	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	18.03	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.73*	
		For >100, Deduct	*-3.47*	
05 05 19 00-0011	EA	3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	18.30	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.74*	
		For >100, Deduct	*-3.48*	
05 05 19 00-0012	EA	1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.83	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.47*	
		For >100, Deduct	*-4.94*	
05 05 19 00-0013	EA	1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.88	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.47*	
		For >100, Deduct	*-4.94*	
05 05 19 00-0014	EA	1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.99	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.47*	
		For >100, Deduct	*-4.95*	
05 05 19 00-0015	EA	1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	26.29	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.48*	
		For >100, Deduct	*-4.96*	
05 05 19 00-0016	EA	1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	26.70	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.49*	
		For >100, Deduct	*-4.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0017	EA	5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	33.05	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.08*	
		For >100, Deduct	*-6.16*	
05 05 19 00-0018	EA	5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	33.14	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.08*	
		For >100, Deduct	*-6.16*	
05 05 19 00-0019	EA	5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	33.33	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.09*	
		For >100, Deduct	*-6.17*	
05 05 19 00-0020	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	33.69	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.09*	
		For >100, Deduct	*-6.19*	
05 05 19 00-0021	EA	5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	34.05	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.10*	
		For >100, Deduct	*-6.21*	
05 05 19 00-0022	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	36.93	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.18*	
		For >100, Deduct	*-6.35*	
05 05 19 00-0023	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	39.40	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.24*	
		For >100, Deduct	*-6.47*	
05 05 19 00-0024	EA	3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	39.73	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.67*	
		For >100, Deduct	*-7.35*	
05 05 19 00-0025	EA	3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	39.81	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.68*	
		For >100, Deduct	*-7.35*	
05 05 19 00-0026	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	40.25	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.69*	
		For >100, Deduct	*-7.37*	
05 05 19 00-0027	EA	3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	40.78	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.70*	
		For >100, Deduct	*-7.40*	
05 05 19 00-0028	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	41.38	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.72*	
		For >100, Deduct	*-7.43*	
05 05 19 00-0029	EA	3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	43.69	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.77*	
		For >100, Deduct	*-7.55*	
05 05 19 00-0030	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	46.75	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.85*	
		For >100, Deduct	*-7.70*	
05 05 19 00-0031	EA	3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	50.21	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.94*	
		For >100, Deduct	*-7.87*	
05 05 19 00-0032	EA	7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	50.19	
		For >10 To 50, Deduct	*-1.94*	
		For >50 To 100, Deduct	*-4.16*	
		For >100, Deduct	*-8.33*	
05 05 19 00-0033	EA	7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	52.01	
		For >10 To 50, Deduct	*-1.94*	
		For >50 To 100, Deduct	*-4.21*	
		For >100, Deduct	*-8.42*	
05 05 19 00-0034	EA	7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	54.42	
		For >10 To 50, Deduct	*-1.94*	
		For >50 To 100, Deduct	*-4.27*	
		For >100, Deduct	*-8.54*	
05 05 19 00-0035	EA	1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	62.88	
		For >10 To 50, Deduct	*-2.51*	
		For >50 To 100, Deduct	*-5.34*	
		For >100, Deduct	*-10.67*	
05 05 19 00-0036	EA	1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	66.30	
		For >10 To 50, Deduct	*-2.51*	
		For >50 To 100, Deduct	*-5.42*	
		For >100, Deduct	*-10.84*	
05 05 19 00-0037	EA	1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	69.70	
		For >10 To 50, Deduct	*-2.51*	
		For >50 To 100, Deduct	*-5.51*	
		For >100, Deduct	*-11.01*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0038		EA	1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	81.53	
			For >10 To 50, Deduct	*-3.21*	
			For >50 To 100, Deduct	*-6.86*	
			For >100, Deduct	*-13.72*	
05 05 19 00-0039		EA	1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	83.98	
			For >10 To 50, Deduct	*-3.21*	
			For >50 To 100, Deduct	*-6.92*	
			For >100, Deduct	*-13.84*	

05 05 19 00-0040 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt *(05 05 19 00-0003)*

Note: Includes nut and washer.

05 05 19 00-0041		EA	1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	16.48	
			For >10 To 50, Deduct	*-0.70*	
			For >50 To 100, Deduct	*-1.47*	
			For >100, Deduct	*-2.93*	
05 05 19 00-0042		EA	1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	17.04	
			For >10 To 50, Deduct	*-0.70*	
			For >50 To 100, Deduct	*-1.48*	
			For >100, Deduct	*-2.96*	
05 05 19 00-0043		EA	1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	17.76	
			For >10 To 50, Deduct	*-0.72*	
			For >50 To 100, Deduct	*-1.53*	
			For >100, Deduct	*-3.05*	
05 05 19 00-0044		EA	3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	21.17	
			For >10 To 50, Deduct	*-0.86*	
			For >50 To 100, Deduct	*-1.81*	
			For >100, Deduct	*-3.63*	
05 05 19 00-0045		EA	3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	21.65	
			For >10 To 50, Deduct	*-0.86*	
			For >50 To 100, Deduct	*-1.82*	
			For >100, Deduct	*-3.65*	
05 05 19 00-0046		EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	22.00	
			For >10 To 50, Deduct	*-0.86*	
			For >50 To 100, Deduct	*-1.83*	
			For >100, Deduct	*-3.67*	
05 05 19 00-0047		EA	3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	24.62	
			For >10 To 50, Deduct	*-0.86*	
			For >50 To 100, Deduct	*-1.90*	
			For >100, Deduct	*-3.80*	
05 05 19 00-0048		EA	1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	32.83	
			For >10 To 50, Deduct	*-1.22*	
			For >50 To 100, Deduct	*-2.65*	
			For >100, Deduct	*-5.29*	
05 05 19 00-0049		EA	1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	33.73	
			For >10 To 50, Deduct	*-1.22*	
			For >50 To 100, Deduct	*-2.67*	
			For >100, Deduct	*-5.34*	
05 05 19 00-0050		EA	1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	34.26	
			For >10 To 50, Deduct	*-1.22*	
			For >50 To 100, Deduct	*-2.68*	
			For >100, Deduct	*-5.36*	
05 05 19 00-0051		EA	1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	36.65	
			For >10 To 50, Deduct	*-1.22*	
			For >50 To 100, Deduct	*-2.74*	
			For >100, Deduct	*-5.48*	
05 05 19 00-0052		EA	1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	40.24	
			For >10 To 50, Deduct	*-1.22*	
			For >50 To 100, Deduct	*-2.83*	
			For >100, Deduct	*-5.66*	
05 05 19 00-0053		EA	5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	47.26	
			For >10 To 50, Deduct	*-1.50*	
			For >50 To 100, Deduct	*-3.43*	
			For >100, Deduct	*-6.87*	
05 05 19 00-0054		EA	5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	49.59	
			For >10 To 50, Deduct	*-1.50*	
			For >50 To 100, Deduct	*-3.49*	
			For >100, Deduct	*-6.98*	
05 05 19 00-0055		EA	5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	52.12	
			For >10 To 50, Deduct	*-1.50*	
			For >50 To 100, Deduct	*-3.56*	
			For >100, Deduct	*-7.11*	
05 05 19 00-0056		EA	5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	55.48	
			For >10 To 50, Deduct	*-1.50*	
			For >50 To 100, Deduct	*-3.64*	
			For >100, Deduct	*-7.28*	
05 05 19 00-0057		EA	5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	70.24	
			For >10 To 50, Deduct	*-1.50*	
			For >50 To 100, Deduct	*-4.01*	
			For >100, Deduct	*-8.02*	
05 05 19 00-0058		EA	3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	56.42	
			For >10 To 50, Deduct	*-1.79*	
			For >50 To 100, Deduct	*-4.09*	
			For >100, Deduct	*-8.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0059	EA	3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	61.17	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.21*	
		For >100, Deduct	*-8.42*	
05 05 19 00-0060	EA	3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	65.23	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.31*	
		For >100, Deduct	*-8.62*	
05 05 19 00-0061	EA	3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	65.73	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.32*	
		For >100, Deduct	*-8.65*	
05 05 19 00-0062	EA	3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	69.53	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.42*	
		For >100, Deduct	*-8.84*	
05 05 19 00-0063	EA	3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	79.42	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.67*	
		For >100, Deduct	*-9.33*	
05 05 19 00-0064	EA	3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	93.36	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-5.01*	
		For >100, Deduct	*-10.03*	
05 05 19 00-0065	EA	7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	93.82	
		For >10 To 50, Deduct	*-1.94*	
		For >50 To 100, Deduct	*-5.25*	
		For >100, Deduct	*-10.51*	
05 05 19 00-0066	EA	1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	136.51	
		For >10 To 50, Deduct	*-2.51*	
		For >50 To 100, Deduct	*-7.18*	
		For >100, Deduct	*-14.35*	
05 05 19 00-0067	EA	1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	157.13	
		For >10 To 50, Deduct	*-2.51*	
		For >50 To 100, Deduct	*-7.69*	
		For >100, Deduct	*-15.39*	

05 05 19 00-0068 316 Stainless Steel, Wedge Anchor Expansion Bolt *(05 05 19 00-0003)*

Note: Includes nut and washer.

05 05 19 00-0069	EA	1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	16.97	
		For >10 To 50, Deduct	*-0.70*	
		For >50 To 100, Deduct	*-1.48*	
		For >100, Deduct	*-2.96*	
05 05 19 00-0070	EA	1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	17.97	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.53*	
		For >100, Deduct	*-3.06*	
05 05 19 00-0071	EA	3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	22.73	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.85*	
		For >100, Deduct	*-3.70*	
05 05 19 00-0072	EA	3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	23.56	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.87*	
		For >100, Deduct	*-3.74*	
05 05 19 00-0073	EA	3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	23.77	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.88*	
		For >100, Deduct	*-3.76*	
05 05 19 00-0074	EA	3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	27.73	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.98*	
		For >100, Deduct	*-3.95*	
05 05 19 00-0075	EA	1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	36.61	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.74*	
		For >100, Deduct	*-5.48*	
05 05 19 00-0076	EA	1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	38.91	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.80*	
		For >100, Deduct	*-5.60*	
05 05 19 00-0077	EA	1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	43.08	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.90*	
		For >100, Deduct	*-5.80*	
05 05 19 00-0078	EA	1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	44.12	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.93*	
		For >100, Deduct	*-5.86*	
05 05 19 00-0079	EA	5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	60.04	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.75*	
		For >100, Deduct	*-7.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0080	EA	5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	61.29	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.78*	
		For >100, Deduct	*-7.57*	
05 05 19 00-0081	EA	3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	74.30	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.54*	
		For >100, Deduct	*-9.08*	
05 05 19 00-0082	EA	3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	79.52	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.67*	
		For >100, Deduct	*-9.34*	

05 05 19 00-0083 Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt *(05 05 19 00-0003)*

Note: Includes nut and washer.

05 05 19 00-0084	EA	1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	30.29	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.58*	
		For >100, Deduct	*-5.16*	
05 05 19 00-0085	EA	1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	31.86	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.62*	
		For >100, Deduct	*-5.24*	
05 05 19 00-0086	EA	1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	33.43	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.66*	
		For >100, Deduct	*-5.32*	
05 05 19 00-0087	EA	1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	34.21	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.68*	
		For >100, Deduct	*-5.36*	
05 05 19 00-0088	EA	5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	41.33	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.29*	
		For >100, Deduct	*-6.57*	
05 05 19 00-0089	EA	5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	39.44	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.24*	
		For >100, Deduct	*-6.48*	
05 05 19 00-0090	EA	3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	53.32	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.01*	
		For >100, Deduct	*-8.03*	
05 05 19 00-0091	EA	3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	55.05	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.06*	
		For >100, Deduct	*-8.11*	
05 05 19 00-0092	EA	3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	63.54	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.27*	
		For >100, Deduct	*-8.54*	
05 05 19 00-0093	EA	1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	68.28	
		For >10 To 50, Deduct	*-2.51*	
		For >50 To 100, Deduct	*-5.47*	
		For >100, Deduct	*-10.94*	
05 05 19 00-0094	EA	1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	73.16	
		For >10 To 50, Deduct	*-2.51*	
		For >50 To 100, Deduct	*-5.59*	
		For >100, Deduct	*-11.19*	
05 05 19 00-0095	EA	1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	78.00	
		For >10 To 50, Deduct	*-2.51*	
		For >50 To 100, Deduct	*-5.71*	
		For >100, Deduct	*-11.43*	

05 05 19 00-0096 Concrete Sleeve Anchors *(05 05 19 00-0002)*

05 05 19 00-0097 Zinc Plated Steel, Concrete Sleeve Anchors *(05 05 19 00-0096)*

Note: Includes nut and washer.

05 05 19 00-0098	EA	1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.81	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.45*	
		For >100, Deduct	*-2.90*	
05 05 19 00-0099	EA	1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.94	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.45*	
		For >100, Deduct	*-2.90*	
05 05 19 00-0100	EA	1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.10	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.46*	
		For >100, Deduct	*-2.91*	
05 05 19 00-0101	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.59	
		For >10 To 50, Deduct	*-0.76*	
		For >50 To 100, Deduct	*-1.52*	
		For >100, Deduct	*-3.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0102	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.71	
		For >10 To 50, Deduct	*-0.76*	
		For >50 To 100, Deduct	*-1.53*	
		For >100, Deduct	*-3.05*	
05 05 19 00-0103	EA	3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.66	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.72*	
		For >100, Deduct	*-3.45*	
05 05 19 00-0104	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.88	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.73*	
		For >100, Deduct	*-3.46*	
05 05 19 00-0105	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	18.09	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.73*	
		For >100, Deduct	*-3.47*	
05 05 19 00-0106	EA	1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.33	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.46*	
		For >100, Deduct	*-4.91*	
05 05 19 00-0107	EA	1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.60	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.46*	
		For >100, Deduct	*-4.93*	
05 05 19 00-0108	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.84	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.47*	
		For >100, Deduct	*-4.94*	
05 05 19 00-0109	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.13	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.48*	
		For >100, Deduct	*-4.95*	
05 05 19 00-0110	EA	5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	31.61	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.04*	
		For >100, Deduct	*-6.08*	
05 05 19 00-0111	EA	5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.03	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.05*	
		For >100, Deduct	*-6.10*	
05 05 19 00-0112	EA	5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.35	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.06*	
		For >100, Deduct	*-6.12*	
05 05 19 00-0113	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.25	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.08*	
		For >100, Deduct	*-6.17*	
05 05 19 00-0114	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	38.38	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.64*	
		For >100, Deduct	*-7.28*	
05 05 19 00-0115	EA	3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	39.16	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.66*	
		For >100, Deduct	*-7.32*	
05 05 19 00-0116	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	39.86	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.68*	
		For >100, Deduct	*-7.35*	
05 05 19 00-0117	EA	3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	40.99	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.70*	
		For >100, Deduct	*-7.41*	

05 05 19 00-0118 304/18-8 Stainless Steel, Concrete Sleeve Anchors *(05 05 19 00-0096)*

Note: Includes nut and washer.

05 05 19 00-0119	EA	1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	17.37	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.51*	
		For >100, Deduct	*-3.03*	
05 05 19 00-0120	EA	3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	22.70	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.85*	
		For >100, Deduct	*-3.70*	
05 05 19 00-0121	EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	24.92	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.91*	
		For >100, Deduct	*-3.81*	
05 05 19 00-0122	EA	1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	33.80	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.67*	
		For >100, Deduct	*-5.34*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0123	EA	1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	37.80	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.77*	
		For >100, Deduct	*-5.54*	
05 05 19 00-0124	EA	5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	51.74	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.55*	
		For >100, Deduct	*-7.09*	

05 05 19 00-0125 Concrete Strike Anchors *(05 05 19 00-0002)*

Note: Includes nut and washer.

05 05 19 00-0126	EA	1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	15.45	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.46*	
		For >100, Deduct	*-2.93*	
05 05 19 00-0127	EA	1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	15.67	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.47*	
		For >100, Deduct	*-2.94*	
05 05 19 00-0128	EA	5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	16.38	
		For >10 To 50, Deduct	*-0.76*	
		For >50 To 100, Deduct	*-1.54*	
		For >100, Deduct	*-3.08*	
05 05 19 00-0129	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	17.29	
		For >10 To 50, Deduct	*-0.76*	
		For >50 To 100, Deduct	*-1.56*	
		For >100, Deduct	*-3.13*	
05 05 19 00-0130	EA	3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	18.65	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.75*	
		For >100, Deduct	*-3.50*	
05 05 19 00-0131	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	19.34	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.77*	
		For >100, Deduct	*-3.53*	
05 05 19 00-0132	EA	3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	19.87	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.78*	
		For >100, Deduct	*-3.56*	
05 05 19 00-0133	EA	1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	27.02	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.50*	
		For >100, Deduct	*-5.00*	
05 05 19 00-0134	EA	1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	27.43	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.51*	
		For >100, Deduct	*-5.02*	
05 05 19 00-0135	EA	1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	28.63	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.54*	
		For >100, Deduct	*-5.08*	
05 05 19 00-0136	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	30.19	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.58*	
		For >100, Deduct	*-5.15*	
05 05 19 00-0137	EA	5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	35.21	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.13*	
		For >100, Deduct	*-6.26*	
05 05 19 00-0138	EA	5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	36.64	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.17*	
		For >100, Deduct	*-6.34*	
05 05 19 00-0139	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	37.91	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.20*	
		For >100, Deduct	*-6.40*	
05 05 19 00-0140	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	44.36	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.79*	
		For >100, Deduct	*-7.58*	
05 05 19 00-0141	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	45.70	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.82*	
		For >100, Deduct	*-7.64*	

05 05 19 00-0142 Multi-Set Drop-In Anchors *(05 05 19 00-0002)*

05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors *(05 05 19 00-0142)*

Note: Excludes bolt, nut and washer.

05 05 19 00-0144	EA	1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	20.58	
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-2.02*	
		For >100, Deduct	*-4.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0145	EA	3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	25.16	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.46*	
		For >100, Deduct	*-4.92*	
05 05 19 00-0146	EA	1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	30.37	
		For >10 To 50, Deduct	*-1.44*	
		For >50 To 100, Deduct	*-2.92*	
		For >100, Deduct	*-5.83*	
05 05 19 00-0147	EA	5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	34.12	
		For >10 To 50, Deduct	*-1.58*	
		For >50 To 100, Deduct	*-3.22*	
		For >100, Deduct	*-6.45*	
05 05 19 00-0148	EA	3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	40.29	
		For >10 To 50, Deduct	*-1.80*	
		For >50 To 100, Deduct	*-3.70*	
		For >100, Deduct	*-7.41*	

05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors *(05 05 19 00-0142)*

Note: Excludes bolt, nut and washer.

05 05 19 00-0150	EA	1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	25.63	
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-2.14*	
		For >100, Deduct	*-4.28*	
05 05 19 00-0151	EA	3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	34.47	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.69*	
		For >100, Deduct	*-5.39*	
05 05 19 00-0152	EA	1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	43.06	
		For >10 To 50, Deduct	*-1.44*	
		For >50 To 100, Deduct	*-3.23*	
		For >100, Deduct	*-6.47*	
05 05 19 00-0153	EA	5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	54.52	
		For >10 To 50, Deduct	*-1.58*	
		For >50 To 100, Deduct	*-3.73*	
		For >100, Deduct	*-7.47*	
05 05 19 00-0154	EA	3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	75.35	
		For >10 To 50, Deduct	*-1.80*	
		For >50 To 100, Deduct	*-4.58*	
		For >100, Deduct	*-9.16*	

05 05 19 00-0155 Single Bolt Expansion Anchors *(05 05 19 00-0002)*

Note: Excludes bolt, nut and washer.

05 05 19 00-0156	EA	1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	15.00	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.45*	
		For >100, Deduct	*-2.91*	
05 05 19 00-0157	EA	5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	15.95	
		For >10 To 50, Deduct	*-0.76*	
		For >50 To 100, Deduct	*-1.53*	
		For >100, Deduct	*-3.06*	
05 05 19 00-0158	EA	3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	18.05	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.73*	
		For >100, Deduct	*-3.47*	
05 05 19 00-0159	EA	1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	26.13	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.48*	
		For >100, Deduct	*-4.95*	
05 05 19 00-0160	EA	5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	35.04	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.13*	
		For >100, Deduct	*-6.26*	
05 05 19 00-0161	EA	3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	42.11	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.73*	
		For >100, Deduct	*-7.47*	

05 05 19 00-0162 Concrete Lag Shield Anchors *(05 05 19 00-0002)*

Note: Excludes lag bolt and washer.

05 05 19 00-0163	EA	1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	15.44	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.46*	
		For >100, Deduct	*-2.93*	
05 05 19 00-0164	EA	5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	18.37	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.74*	
		For >100, Deduct	*-3.48*	
05 05 19 00-0165	EA	3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	19.22	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.76*	
		For >100, Deduct	*-3.53*	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0166	EA	1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	27.08	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.50*	
		For >100, Deduct	*-5.00*	
05 05 19 00-0167	EA	5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	34.18	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.11*	
		For >100, Deduct	*-6.21*	
05 05 19 00-0168	EA	3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	39.01	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.66*	
		For >100, Deduct	*-7.31*	

05 05 19 00-0169 Chemical And Adhesive Anchors *(05 05 19 00-0001)*

05 05 19 00-0170 Chemically Adhered Anchor Rods *(05 05 19 00-0169)*

Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.

05 05 19 00-0171	EA	1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	18.36	
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-1.65*	
		For >100, Deduct	*-3.29*	
05 05 19 00-0172	EA	5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	20.96	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.82*	
		For >100, Deduct	*-3.64*	
05 05 19 00-0173	EA	3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	26.06	
		For >10 To 50, Deduct	*-1.08*	
		For >50 To 100, Deduct	*-2.27*	
		For >100, Deduct	*-4.54*	
05 05 19 00-0174	EA	1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	30.23	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.58*	
		For >100, Deduct	*-5.16*	
05 05 19 00-0175	EA	1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	31.58	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.61*	
		For >100, Deduct	*-5.22*	
05 05 19 00-0176	EA	5/8" x 7" Long Chemically Adhered Anchor Rod	39.06	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.23*	
		For >100, Deduct	*-6.46*	
05 05 19 00-0177	EA	3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	49.73	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.92*	
		For >100, Deduct	*-7.85*	
05 05 19 00-0178	EA	7/8" x 10" Long Chemically Adhered Anchor Rod	57.83	
		For >10 To 50, Deduct	*-1.93*	
		For >50 To 100, Deduct	*-4.35*	
		For >100, Deduct	*-8.70*	
05 05 19 00-0179	EA	1" x 11-3/4" Long Chemically Adhered Anchor Rod	78.20	
		For >10 To 50, Deduct	*-2.51*	
		For >50 To 100, Deduct	*-5.72*	
		For >100, Deduct	*-11.44*	
05 05 19 00-0180	EA	1-1/4" x 14" Long Chemically Adhered Anchor Rod	109.55	
		For >10 To 50, Deduct	*-3.16*	
		For >50 To 100, Deduct	*-7.48*	
		For >100, Deduct	*-14.97*	

05 05 19 00-0181 Chemical Adhesives For Bolts, Dowels Or Threaded Rod *(05 05 19 00-0169)*

Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Drill a hole 1/16" to 1/4" larger that the diameter of the thread and a depth a minimum of 4-1/2 times the diameter of the bolt. Excludes bolt, dowel or rod.

05 05 19 00-0182	EA	1/4" Chemical Adhesive For Bolt Or Threaded Rod	16.13	
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-1.59*	
		For >100, Deduct	*-3.18*	
05 05 19 00-0183	EA	5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	17.65	
		For >10 To 50, Deduct	*-0.86*	
		For >50 To 100, Deduct	*-1.74*	
		For >100, Deduct	*-3.47*	
05 05 19 00-0184	EA	3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	20.65	
		For >10 To 50, Deduct	*-1.01*	
		For >50 To 100, Deduct	*-2.03*	
		For >100, Deduct	*-4.05*	
05 05 19 00-0185	EA	1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	25.04	
		For >10 To 50, Deduct	*-1.22*	
		For >50 To 100, Deduct	*-2.45*	
		For >100, Deduct	*-4.90*	
05 05 19 00-0186	EA	5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	27.82	
		For >10 To 50, Deduct	*-1.30*	
		For >50 To 100, Deduct	*-2.65*	
		For >100, Deduct	*-5.29*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0187	EA	3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	35.07	
		For >10 To 50, Deduct	*-1.60*	
		For >50 To 100, Deduct	*-3.27*	
		For >100, Deduct	*-6.54*	
05 05 19 00-0188	EA	7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	38.41	
		For >10 To 50, Deduct	*-1.71*	
		For >50 To 100, Deduct	*-3.53*	
		For >100, Deduct	*-7.05*	
05 05 19 00-0189	EA	1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	47.56	
		For >10 To 50, Deduct	*-2.06*	
		For >50 To 100, Deduct	*-4.28*	
		For >100, Deduct	*-8.57*	
05 05 19 00-0190	EA	1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	52.46	
		For >10 To 50, Deduct	*-2.24*	
		For >50 To 100, Deduct	*-4.67*	
		For >100, Deduct	*-9.33*	
05 05 19 00-0191	EA	1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	60.68	
		For >10 To 50, Deduct	*-2.53*	
		For >50 To 100, Deduct	*-5.31*	
		For >100, Deduct	*-10.63*	
05 05 19 00-0192	EA	1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	67.79	
		For >10 To 50, Deduct	*-2.76*	
		For >50 To 100, Deduct	*-5.84*	
		For >100, Deduct	*-11.67*	
05 05 19 00-0193	EA	1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	76.87	
		For >10 To 50, Deduct	*-3.01*	
		For >50 To 100, Deduct	*-6.43*	
		For >100, Deduct	*-12.86*	
05 05 19 00-0194	EA	1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	95.74	
		For >10 To 50, Deduct	*-3.53*	
		For >50 To 100, Deduct	*-7.69*	
		For >100, Deduct	*-15.38*	
05 05 19 00-0195	EA	2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	135.56	
		For >10 To 50, Deduct	*-4.26*	
		For >50 To 100, Deduct	*-9.78*	
		For >100, Deduct	*-19.57*	

05 05 19 00-0196 Grout Concrete Anchor Bolt Or Threaded Rod *(05 05 19 00-0169)*

05 05 19 00-0197	EA	Grout Concrete Anchor Bolt or Threaded Rod	5.44	
		For >10 To 50, Deduct	*-0.26*	
		For >50 To 100, Deduct	*-0.53*	
		For >100, Deduct	*-1.07*	

05 05 19 00-0198 Other Concrete And Masonry Anchors *(05 05 19 00-0001)*

05 05 19 00-0199 Tapcon Masonry Screws *(05 05 19 00-0198)*

Note: Includes drilling. Countersunk or hex head.

05 05 19 00-0200	EA	3/16" x 1-1/4" Tapcon Masonry Screw	14.63	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.44*	
		For >100, Deduct	*-2.89*	
05 05 19 00-0201	EA	3/16" x 2-1/4" Tapcon Masonry Screw	14.70	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.45*	
		For >100, Deduct	*-2.89*	
05 05 19 00-0202	EA	3/16" x 3-1/4" Tapcon Masonry Screw	14.84	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.45*	
		For >100, Deduct	*-2.90*	
05 05 19 00-0203	EA	1/4" x 1-1/4" Tapcon Masonry Screw	14.71	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.45*	
		For >100, Deduct	*-2.89*	
05 05 19 00-0204	EA	1/4" x 2-1/4" Tapcon Masonry Screw	14.79	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.45*	
		For >100, Deduct	*-2.90*	
05 05 19 00-0205	EA	1/4" x 3-1/4" Tapcon Masonry Screw	14.96	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.45*	
		For >100, Deduct	*-2.91*	

05 05 19 00-0206 Large Diameter, Self-Threading Concrete Fasteners *(05 05 19 00-0198)*

Note: Includes drilling. Zinc plated.

05 05 19 00-0207	EA	3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener	16.54	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.49*	
		For >100, Deduct	*-2.98*	
05 05 19 00-0208	EA	3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener	17.32	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.51*	
		For >100, Deduct	*-3.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0209	EA	3/8" x 3", Large Diameter, Self-Threading Concrete Fastener	17.53	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.52*	
		For >100, Deduct	*-3.03*	
05 05 19 00-0210	EA	3/8" x 4", Large Diameter, Self-Threading Concrete Fastener	17.91	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.53*	
		For >100, Deduct	*-3.05*	
05 05 19 00-0211	EA	3/8" x 5", Large Diameter, Self-Threading Concrete Fastener	18.23	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.53*	
		For >100, Deduct	*-3.07*	
05 05 19 00-0212	EA	1/2" x 3", Large Diameter, Self-Threading Concrete Fastener	18.91	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.55*	
		For >100, Deduct	*-3.10*	
05 05 19 00-0213	EA	1/2" x 4", Large Diameter, Self-Threading Concrete Fastener	19.74	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.57*	
		For >100, Deduct	*-3.14*	
05 05 19 00-0214	EA	1/2" x 5", Large Diameter, Self-Threading Concrete Fastener	20.51	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.59*	
		For >100, Deduct	*-3.18*	
05 05 19 00-0215	EA	1/2" x 6", Large Diameter, Self-Threading Concrete Fastener	22.66	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.65*	
		For >100, Deduct	*-3.29*	
05 05 19 00-0216	EA	5/8" x 3", Large Diameter, Self-Threading Concrete Fastener	22.92	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.65*	
		For >100, Deduct	*-3.30*	
05 05 19 00-0217	EA	5/8" x 4", Large Diameter, Self-Threading Concrete Fastener	24.23	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.68*	
		For >100, Deduct	*-3.37*	
05 05 19 00-0218	EA	5/8" x 5", Large Diameter, Self-Threading Concrete Fastener	25.58	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.72*	
		For >100, Deduct	*-3.44*	
05 05 19 00-0219	EA	5/8" x 6", Large Diameter, Self-Threading Concrete Fastener	26.45	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.74*	
		For >100, Deduct	*-3.48*	
05 05 19 00-0220	EA	3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener	26.06	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.73*	
		For >100, Deduct	*-3.46*	
05 05 19 00-0221	EA	3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener	27.31	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.76*	
		For >100, Deduct	*-3.52*	
05 05 19 00-0222	EA	3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener	30.23	
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.83*	
		For >100, Deduct	*-3.67*	

05 05 19 00-0223 Pin Bolt Drives *(05 05 19 00-0198)*

Note: Includes drilling. Zinc plated.

05 05 19 00-0224	EA	1/4" x 1" Pin Bolt Drive	9.00	
		For >10 To 50, Deduct	*-0.43*	
		For >50 To 100, Deduct	*-0.87*	
		For >100, Deduct	*-1.74*	
05 05 19 00-0225	EA	1/4" x 1-1/4" Pin Bolt Drive	9.00	
		For >10 To 50, Deduct	*-0.43*	
		For >50 To 100, Deduct	*-0.87*	
		For >100, Deduct	*-1.74*	
05 05 19 00-0226	EA	1/4" x 1-1/2" Pin Bolt Drive	9.06	
		For >10 To 50, Deduct	*-0.43*	
		For >50 To 100, Deduct	*-0.87*	
		For >100, Deduct	*-1.75*	
05 05 19 00-0227	EA	1/4" x 2" Pin Bolt Drive	9.07	
		For >10 To 50, Deduct	*-0.43*	
		For >50 To 100, Deduct	*-0.87*	
		For >100, Deduct	*-1.75*	

05 05 19 00-0228 Powder Actuated, Shot-In Place Anchors *(05 05 19 00-0198)*

05 05 19 00-0229	EA	0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor	2.18	
		For >10 To 50, Deduct	*-0.10*	
		For >50 To 100, Deduct	*-0.20*	
		For >100, Deduct	*-0.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0230	EA	0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor	2.29	
		For >10 To 50, Deduct	*-0.10*	
		For >50 To 100, Deduct	*-0.21*	
		For >100, Deduct	*-0.42*	
05 05 19 00-0231	EA	0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor	2.48	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.22*	
		For >100, Deduct	*-0.45*	
05 05 19 00-0232	EA	0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor	2.71	
		For >10 To 50, Deduct	*-0.12*	
		For >50 To 100, Deduct	*-0.24*	
		For >100, Deduct	*-0.48*	
05 05 19 00-0233	EA	0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor	2.81	
		For >10 To 50, Deduct	*-0.12*	
		For >50 To 100, Deduct	*-0.24*	
		For >100, Deduct	*-0.49*	

05 05 19 00-0234 Powder Actuated, Shot-In Place Anchors With Exposed Thread *(05 05 19 00-0198)*

05 05 19 00-0235	EA	0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor	2.49	
		For >10 To 50, Deduct	*-0.10*	
		For >50 To 100, Deduct	*-0.21*	
		For >100, Deduct	*-0.43*	
05 05 19 00-0236	EA	0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor	3.27	
		For >10 To 50, Deduct	*-0.12*	
		For >50 To 100, Deduct	*-0.26*	
		For >100, Deduct	*-0.53*	

05 05 21 Fastening Methods for Metal *(05 05)*

05 05 21 00-0001 Welding *(05 05 21)*

05 05 21 00-0002 Minimum Charge For Welding *(05 05 21 00-0001)*

05 05 21 00-0003	EA	Minimum Charge For Welding Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	548.50

05 05 21 00-0004 Spot Welding *(05 05 21 00-0001)*

05 05 21 00-0005	EA	Up To 15 Spot Weldings, Welds Up To 1" Length Each	13.54	
		For Aluminum Welding, Add	*2.16*	
		For Stainless Steel Welding, Add	*3.55*	
05 05 21 00-0006	EA	>15 Spot Weldings, Welds Up To 1" Length Each	10.58	
		For Aluminum Welding, Add	*1.72*	
		For Stainless Steel Welding, Add	*2.81*	

05 05 21 00-0007 Field Welding (Seam And Stitch Welding) *(05 05 21 00-0001)*

05 05 21 00-0008 Vertical Fillet Welds *(05 05 21 00-0007)*

Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.

05 05 21 00-0009	LF	1/8" Vertical Fillet Weld	8.95	
		For Aluminum Welding, Add	*2.01*	
		For Stainless Steel Welding, Add	*3.07*	
		For Up To 25, Add	*2.86*	
		For >25 To 50, Add	*2.02*	
05 05 21 00-0010	LF	3/16" Vertical Fillet Weld	17.06	
		For Aluminum Welding, Add	*3.38*	
		For Stainless Steel Welding, Add	*5.29*	
		For Up To 25, Add	*5.63*	
		For >25 To 50, Add	*3.99*	
05 05 21 00-0011	LF	1/4" Vertical Fillet Weld	25.64	
		For Aluminum Welding, Add	*5.11*	
		For Stainless Steel Welding, Add	*7.99*	
		For Up To 25, Add	*8.45*	
		For >25 To 50, Add	*5.99*	
05 05 21 00-0012	LF	5/16" Vertical Fillet Weld	33.84	
		For Aluminum Welding, Add	*6.77*	
		For Stainless Steel Welding, Add	*10.58*	
		For Up To 25, Add	*11.14*	
		For >25 To 50, Add	*7.90*	
05 05 21 00-0013	LF	3/8" Vertical Fillet Weld	42.70	
		For Aluminum Welding, Add	*8.49*	
		For Stainless Steel Welding, Add	*13.28*	
		For Up To 25, Add	*14.08*	
		For >25 To 50, Add	*9.98*	
05 05 21 00-0014	LF	7/16" Vertical Fillet Weld	49.22	
		For Aluminum Welding, Add	*9.03*	
		For Stainless Steel Welding, Add	*14.37*	
		For Up To 25, Add	*16.54*	
		For >25 To 50, Add	*11.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0015	LF	1/2" Vertical Fillet Weld	58.42	
		For Aluminum Welding, Add	*11.67*	
		For Stainless Steel Welding, Add	*18.24*	
		For Up To 25, Add	*19.24*	
		For >25 To 50, Add	*13.64*	
05 05 21 00-0016	LF	9/16" Vertical Fillet Weld	67.84	
		For Aluminum Welding, Add	*12.78*	
		For Stainless Steel Welding, Add	*20.22*	
		For Up To 25, Add	*22.66*	
		For >25 To 50, Add	*16.09*	
05 05 21 00-0017	LF	5/8" Vertical Fillet Weld	78.69	
		For Aluminum Welding, Add	*14.88*	
		For Stainless Steel Welding, Add	*23.52*	
		For Up To 25, Add	*26.26*	
		For >25 To 50, Add	*18.65*	
05 05 21 00-0018	LF	3/4" Vertical Fillet Weld	106.89	
		For Aluminum Welding, Add	*21.33*	
		For Stainless Steel Welding, Add	*33.34*	
		For Up To 25, Add	*35.21*	
		For >25 To 50, Add	*24.96*	
05 05 21 00-0019	LF	7/8" Vertical Fillet Weld	156.94	
		For Aluminum Welding, Add	*29.44*	
		For Stainless Steel Welding, Add	*46.61*	
		For Up To 25, Add	*52.47*	
		For >25 To 50, Add	*37.27*	
05 05 21 00-0020	LF	1" Vertical Fillet Weld	212.64	
		For Aluminum Welding, Add	*41.79*	
		For Stainless Steel Welding, Add	*65.53*	
		For Up To 25, Add	*70.30*	
		For >25 To 50, Add	*49.86*	

05 05 21 00-0021 Horizontal Or Flat Fillet Welds *(05 05 21 00-0007)*

Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.

05 05 21 00-0022	LF	1/8" Horizontal Or Flat Fillet Weld	7.60	
		For Aluminum Welding, Add	*1.81*	
		For Stainless Steel Welding, Add	*2.73*	
		For Up To 25, Add	*2.38*	
		For >25 To 50, Add	*1.68*	
05 05 21 00-0023	LF	3/16" Horizontal Or Flat Fillet Weld	14.57	
		For Aluminum Welding, Add	*3.06*	
		For Stainless Steel Welding, Add	*4.73*	
		For Up To 25, Add	*4.74*	
		For >25 To 50, Add	*3.35*	
05 05 21 00-0024	LF	1/4" Horizontal Or Flat Fillet Weld	21.78	
		For Aluminum Welding, Add	*4.57*	
		For Stainless Steel Welding, Add	*7.07*	
		For Up To 25, Add	*7.08*	
		For >25 To 50, Add	*5.01*	
05 05 21 00-0025	LF	5/16" Horizontal Or Flat Fillet Weld	28.83	
		For Aluminum Welding, Add	*6.10*	
		For Stainless Steel Welding, Add	*9.43*	
		For Up To 25, Add	*9.35*	
		For >25 To 50, Add	*6.62*	
05 05 21 00-0026	LF	3/8" Horizontal Or Flat Fillet Weld	36.35	
		For Aluminum Welding, Add	*7.62*	
		For Stainless Steel Welding, Add	*11.80*	
		For Up To 25, Add	*11.82*	
		For >25 To 50, Add	*8.36*	
05 05 21 00-0027	LF	7/16" Horizontal Or Flat Fillet Weld	41.63	
		For Aluminum Welding, Add	*7.98*	
		For Stainless Steel Welding, Add	*12.58*	
		For Up To 25, Add	*13.85*	
		For >25 To 50, Add	*9.83*	
05 05 21 00-0028	LF	1/2" Horizontal Or Flat Fillet Weld	49.68	
		For Aluminum Welding, Add	*10.49*	
		For Stainless Steel Welding, Add	*16.22*	
		For Up To 25, Add	*16.12*	
		For >25 To 50, Add	*11.41*	
05 05 21 00-0029	LF	9/16" Horizontal Or Flat Fillet Weld	57.59	
		For Aluminum Welding, Add	*11.42*	
		For Stainless Steel Welding, Add	*17.87*	
		For Up To 25, Add	*19.00*	
		For >25 To 50, Add	*13.47*	
05 05 21 00-0030	LF	5/8" Horizontal Or Flat Fillet Weld	67.30	
		For Aluminum Welding, Add	*13.70*	
		For Stainless Steel Welding, Add	*21.33*	
		For Up To 25, Add	*22.06*	
		For >25 To 50, Add	*15.63*	
05 05 21 00-0031	LF	3/4" Horizontal Or Flat Fillet Weld	91.03	
		For Aluminum Welding, Add	*19.21*	
		For Stainless Steel Welding, Add	*29.70*	
		For Up To 25, Add	*29.55*	
		For >25 To 50, Add	*20.91*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0032	LF	7/8" Horizontal Or Flat Fillet Weld	131.77	
		For Aluminum Welding, Add	*25.27*	
		For Stainless Steel Welding, Add	*39.83*	
		For Up To 25, Add	*43.82*	
		For >25 To 50, Add	*31.11*	
05 05 21 00-0033	LF	1" Horizontal Or Flat Fillet Weld	180.33	
		For Aluminum Welding, Add	*37.42*	
		For Stainless Steel Welding, Add	*58.04*	
		For Up To 25, Add	*58.80*	
		For >25 To 50, Add	*41.63*	

05 05 23 Metal Fastenings *(05 05)*

05 05 23 00-0001 Hex Bolts *(05 05 23)*

Note: For owner furnished materials or where requested by the owner. Excludes drilling through steel, concrete, brick or block. See CSI section 02 41 19 13-0277 for drilling into concrete, 02 41 19 13-0292 for drilling into brick or block, 02 41 19 13-0307 for drilling into wood or plastic, 05 05 23 00-1567 for drilling through steel.

05 05 23 00-0002 A307B Heavy Hex Bolts *(05 05 23 00-0001)*

Note: Includes A307B heavy hex nut and two structural washers.

05 05 23 00-0003 Plain Finish A307B Heavy Hex Bolts *(05 05 23 00-0002)*

05 05 23 00-0004	EA	1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	15.51	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.33*	
		For >100, Deduct	*-2.66*	
05 05 23 00-0005	EA	1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	17.22	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.37*	
		For >100, Deduct	*-2.74*	
05 05 23 00-0006	EA	5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	17.27	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.37*	
		For >100, Deduct	*-2.75*	
05 05 23 00-0007	EA	5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	20.62	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.59*	
		For >100, Deduct	*-3.18*	
05 05 23 00-0008	EA	3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	20.14	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.44*	
		For >100, Deduct	*-2.89*	
05 05 23 00-0009	EA	3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	24.19	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.68*	
		For >100, Deduct	*-3.36*	
05 05 23 00-0010	EA	3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	30.86	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.89*	
		For >100, Deduct	*-3.79*	
05 05 23 00-0011	EA	3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	33.18	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.01*	
		For >100, Deduct	*-4.02*	
05 05 23 00-0012	EA	7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	24.24	1.63
		For >10 To 50, Deduct	*-0.68*	
		For >50 To 100, Deduct	*-1.63*	
		For >100, Deduct	*-3.25*	
05 05 23 00-0013	EA	7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	29.35	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.85*	
		For >100, Deduct	*-3.71*	
05 05 23 00-0014	EA	1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	34.71	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.05*	
		For >100, Deduct	*-4.10*	
05 05 23 00-0015	EA	1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	50.05	1.98
		For >10 To 50, Deduct	*-0.83*	
		For >50 To 100, Deduct	*-2.49*	
		For >100, Deduct	*-4.98*	
05 05 23 00-0016	EA	1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	58.66	2.25
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-2.87*	
		For >100, Deduct	*-5.74*	
05 05 23 00-0017	EA	1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	66.11	2.40
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-3.15*	
		For >100, Deduct	*-6.31*	

05 05 23 00-0018 Galvanized A307B Heavy Hex Bolts *(05 05 23 00-0002)*

05 05 23 00-0019	EA	1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	16.35	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.35*	
		For >100, Deduct	*-2.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0020	EA	1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	17.78	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.39*	
		For >100, Deduct	*-2.77*	
05 05 23 00-0021	EA	5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	19.34	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.42*	
		For >100, Deduct	*-2.85*	
05 05 23 00-0022	EA	5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	22.69	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.64*	
		For >100, Deduct	*-3.28*	
05 05 23 00-0023	EA	3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	22.49	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.50*	
		For >100, Deduct	*-3.01*	
05 05 23 00-0024	EA	3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	28.54	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.79*	
		For >100, Deduct	*-3.58*	
05 05 23 00-0025	EA	3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	38.35	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-2.08*	
		For >100, Deduct	*-4.16*	
05 05 23 00-0026	EA	3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt	45.30	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.31*	
		For >100, Deduct	*-4.63*	
05 05 23 00-0027	EA	7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	30.40	1.63
		For >10 To 50, Deduct	*-0.68*	
		For >50 To 100, Deduct	*-1.78*	
		For >100, Deduct	*-3.56*	
05 05 23 00-0028	EA	7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	36.29	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-2.03*	
		For >100, Deduct	*-4.06*	
05 05 23 00-0029	EA	1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	43.66	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.27*	
		For >100, Deduct	*-4.55*	
05 05 23 00-0030	EA	1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	66.28	1.98
		For >10 To 50, Deduct	*-0.83*	
		For >50 To 100, Deduct	*-2.90*	
		For >100, Deduct	*-5.80*	
05 05 23 00-0031	EA	1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	65.92	2.25
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-3.05*	
		For >100, Deduct	*-6.10*	
05 05 23 00-0032	EA	1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	82.93	2.40
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-3.57*	
		For >100, Deduct	*-7.15*	

05 05 23 00-0033 A325 High Strength Structural Bolts *(05 05 23 00-0001)*

Note: Includes A325 heavy hex nut and two structural washers.

05 05 23 00-0034 Plain Finish A325 High Strength Structural Bolts *(05 05 23 00-0033)*

Note: Includes A325 heavy hex nut and structural washer.

05 05 23 00-0035	EA	1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt	15.12	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.32*	
		For >100, Deduct	*-2.64*	
05 05 23 00-0036	EA	1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt	15.49	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.33*	
		For >100, Deduct	*-2.66*	
05 05 23 00-0037	EA	5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt	16.70	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.36*	
		For >100, Deduct	*-2.72*	
05 05 23 00-0038	EA	5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	20.65	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.59*	
		For >100, Deduct	*-3.18*	
05 05 23 00-0039	EA	5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	24.17	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.73*	
		For >100, Deduct	*-3.45*	
05 05 23 00-0040	EA	3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt	18.38	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.40*	
		For >100, Deduct	*-2.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0041	EA	3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	22.45	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.64*	
		For >100, Deduct	*-3.27*	
05 05 23 00-0042	EA	3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	25.75	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.77*	
		For >100, Deduct	*-3.53*	
05 05 23 00-0043	EA	3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt	32.11	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-1.98*	
		For >100, Deduct	*-3.97*	
05 05 23 00-0044	EA	7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt	21.48	1.63
		For >10 To 50, Deduct	*-0.68*	
		For >50 To 100, Deduct	*-1.56*	
		For >100, Deduct	*-3.12*	
05 05 23 00-0045	EA	7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	26.41	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.78*	
		For >100, Deduct	*-3.56*	
05 05 23 00-0046	EA	7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	30.37	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-1.94*	
		For >100, Deduct	*-3.88*	
05 05 23 00-0047	EA	7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt	32.98	1.98
		For >10 To 50, Deduct	*-0.83*	
		For >50 To 100, Deduct	*-2.07*	
		For >100, Deduct	*-4.13*	
05 05 23 00-0048	EA	1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt	23.88	1.69
		For >10 To 50, Deduct	*-0.71*	
		For >50 To 100, Deduct	*-1.66*	
		For >100, Deduct	*-3.32*	
05 05 23 00-0049	EA	1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	28.94	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-1.90*	
		For >100, Deduct	*-3.81*	
05 05 23 00-0050	EA	1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	33.79	1.98
		For >10 To 50, Deduct	*-0.83*	
		For >50 To 100, Deduct	*-2.09*	
		For >100, Deduct	*-4.17*	
05 05 23 00-0051	EA	1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt	43.84	2.11
		For >10 To 50, Deduct	*-0.88*	
		For >50 To 100, Deduct	*-2.42*	
		For >100, Deduct	*-4.83*	
05 05 23 00-0052	EA	1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt	41.73	2.11
		For >10 To 50, Deduct	*-0.88*	
		For >50 To 100, Deduct	*-2.36*	
		For >100, Deduct	*-4.73*	
05 05 23 00-0053	EA	1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	47.50	2.25
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-2.59*	
		For >100, Deduct	*-5.18*	
05 05 23 00-0054	EA	1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	56.07	2.40
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-2.90*	
		For >100, Deduct	*-5.81*	
05 05 23 00-0055	EA	1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt	66.18	2.57
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-3.26*	
		For >100, Deduct	*-6.51*	

05 05 23 00-0056 Galvanized A325 High Strength Structural Bolts *(05 05 23 00-0033)*

Note: Includes A325 heavy hex nut and structural washer.

05 05 23 00-0057	EA	1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt	15.87	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.34*	
		For >100, Deduct	*-2.68*	
05 05 23 00-0058	EA	1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	16.14	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.34*	
		For >100, Deduct	*-2.69*	
05 05 23 00-0059	EA	5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	18.29	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.40*	
		For >100, Deduct	*-2.80*	
05 05 23 00-0060	EA	5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	21.79	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.62*	
		For >100, Deduct	*-3.24*	
05 05 23 00-0061	EA	5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	23.09	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.70*	
		For >100, Deduct	*-3.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0062	EA	3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	19.11	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.42*	
		For >100, Deduct	*-2.84*	
05 05 23 00-0063	EA	3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	23.37	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.66*	
		For >100, Deduct	*-3.32*	
05 05 23 00-0064	EA	3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	27.19	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.80*	
		For >100, Deduct	*-3.61*	
05 05 23 00-0065	EA	3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	35.51	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.07*	
		For >100, Deduct	*-4.14*	
05 05 23 00-0066	EA	7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	25.88	1.63
		For >10 To 50, Deduct	*-0.68*	
		For >50 To 100, Deduct	*-1.67*	
		For >100, Deduct	*-3.34*	
05 05 23 00-0067	EA	7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	29.01	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.85*	
		For >100, Deduct	*-3.69*	
05 05 23 00-0068	EA	7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	33.52	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.02*	
		For >100, Deduct	*-4.04*	
05 05 23 00-0069	EA	7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	42.43	1.98
		For >10 To 50, Deduct	*-0.83*	
		For >50 To 100, Deduct	*-2.30*	
		For >100, Deduct	*-4.60*	
05 05 23 00-0070	EA	1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	27.30	1.69
		For >10 To 50, Deduct	*-0.71*	
		For >50 To 100, Deduct	*-1.74*	
		For >100, Deduct	*-3.49*	
05 05 23 00-0071	EA	1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	36.78	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.10*	
		For >100, Deduct	*-4.20*	
05 05 23 00-0072	EA	1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	40.35	1.98
		For >10 To 50, Deduct	*-0.83*	
		For >50 To 100, Deduct	*-2.25*	
		For >100, Deduct	*-4.50*	
05 05 23 00-0073	EA	1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	51.93	2.11
		For >10 To 50, Deduct	*-0.88*	
		For >50 To 100, Deduct	*-2.62*	
		For >100, Deduct	*-5.24*	
05 05 23 00-0074	EA	1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	51.60	2.11
		For >10 To 50, Deduct	*-0.88*	
		For >50 To 100, Deduct	*-2.61*	
		For >100, Deduct	*-5.22*	
05 05 23 00-0075	EA	1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	55.04	2.25
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-2.78*	
		For >100, Deduct	*-5.55*	
05 05 23 00-0076	EA	1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	64.71	2.40
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-3.12*	
		For >100, Deduct	*-6.24*	
05 05 23 00-0077	EA	1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	75.20	2.57
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-3.48*	
		For >100, Deduct	*-6.96*	

05 05 23 00-0078 A490 High Strength Structural Bolts *(05 05 23 00-0001)*

Note: Includes A490 heavy hex nut and two structural washers.

05 05 23 00-0079 Plain Finish A490 High Strength Structural Bolts *(05 05 23 00-0078)*

05 05 23 00-0080	EA	5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	17.30	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.37*	
		For >100, Deduct	*-2.75*	
05 05 23 00-0081	EA	5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	24.75	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.69*	
		For >100, Deduct	*-3.39*	
05 05 23 00-0082	EA	5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	26.53	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.79*	
		For >100, Deduct	*-3.57*	
05 05 23 00-0083	EA	3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	19.62	1.50
		For >10 To 50, Deduct	*-0.63*	
		For >50 To 100, Deduct	*-1.43*	
		For >100, Deduct	*-2.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0084	EA	3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	23.86	1.72
		For >10 To 50, Deduct	*-0.72*	
		For >50 To 100, Deduct	*-1.67*	
		For >100, Deduct	*-3.34*	
05 05 23 00-0085	EA	3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	28.03	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.82*	
		For >100, Deduct	*-3.65*	
05 05 23 00-0086	EA	3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt	36.54	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.09*	
		For >100, Deduct	*-4.19*	
05 05 23 00-0087	EA	7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	22.91	1.63
		For >10 To 50, Deduct	*-0.68*	
		For >50 To 100, Deduct	*-1.59*	
		For >100, Deduct	*-3.19*	
05 05 23 00-0088	EA	7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	26.87	1.79
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-1.79*	
		For >100, Deduct	*-3.58*	
05 05 23 00-0089	EA	7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	39.62	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.17*	
		For >100, Deduct	*-4.34*	
05 05 23 00-0090	EA	1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	27.23	1.69
		For >10 To 50, Deduct	*-0.71*	
		For >50 To 100, Deduct	*-1.74*	
		For >100, Deduct	*-3.48*	
05 05 23 00-0091	EA	1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	32.70	1.89
		For >10 To 50, Deduct	*-0.79*	
		For >50 To 100, Deduct	*-2.00*	
		For >100, Deduct	*-4.00*	
05 05 23 00-0092	EA	1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	37.82	1.98
		For >10 To 50, Deduct	*-0.83*	
		For >50 To 100, Deduct	*-2.19*	
		For >100, Deduct	*-4.37*	
05 05 23 00-0093	EA	1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt	47.70	2.11
		For >10 To 50, Deduct	*-0.88*	
		For >50 To 100, Deduct	*-2.51*	
		For >100, Deduct	*-5.03*	
05 05 23 00-0094	EA	1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	61.75	2.25
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-2.94*	
		For >100, Deduct	*-5.89*	
05 05 23 00-0095	EA	1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	64.95	2.40
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-3.13*	
		For >100, Deduct	*-6.25*	
05 05 23 00-0096	EA	1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt	67.70	2.57
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-3.29*	
		For >100, Deduct	*-6.59*	

05 05 23 00-0097 Hex Head Bolts *(05 05 23 00-0001)*

05 05 23 00-0098 Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0097)*

05 05 23 00-0099 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*

05 05 23 00-0100	EA	1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.13	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0101	EA	1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.16	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0102	EA	1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.26	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0103	EA	1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.31	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0104	EA	1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.63	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0105	EA	1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.67	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0106	EA	1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.81	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0107	EA	1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.08	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0108	EA	1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.13	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0109	EA	1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.35	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0110	EA	1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.78	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0111	EA	1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.95	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0112	EA	1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.18	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0113	EA	1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.94	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0114	EA	1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.30	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0115	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.39	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0116		5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*		
05 05 23 00-0117	EA	5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.22	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0118	EA	5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.25	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0119	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.33	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0120	EA	5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.39	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0121	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.73	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0122	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.88	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0123	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.94	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0124	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.34	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0125	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.56	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0126	EA	5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.64	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0127	EA	5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.97	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0128	EA	5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.05	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0129	EA	5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.88	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0130	EA	5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.53	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0131	EA	5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.90	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0132	EA	5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.23	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0133 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*

05 05 23 00-0134	EA	3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.31	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0135	EA	3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.35	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0136	EA	3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.46	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0137	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.57	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0138	EA	3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.92	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0139	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.11	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0140	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.30	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0141	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.74	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0142	EA	3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.99	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0143	EA	3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.13	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0144	EA	3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.64	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0145	EA	3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.78	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0146	EA	3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.88	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0147	EA	3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.19	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0148	EA	3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.35	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0149	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.57	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0150 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*

05 05 23 00-0151	EA	7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.06	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0152	EA	7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.21	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0153	EA	7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.23	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0154	EA	7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.70	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0155	EA	7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.93	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0156	EA	7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.12	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0157	EA	7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.88	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0158	EA	7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.02	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0159	EA	7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.30	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0160	EA	7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.03	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0161	EA	7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.17	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0162	EA	7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.52	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0163	EA	7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.92	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0164	EA	7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.24	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0165	EA	7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.87	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	

05 05 23 00-0166 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*

05 05 23 00-0167	EA	1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.93	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0168	EA	1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.12	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0169	EA	1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.30	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0170	EA	1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.76	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0171	EA	1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.95	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0172	EA	1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.15	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0173	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.66	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0174	EA	1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.88	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0175	EA	1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.27	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0176	EA	1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.59	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0177	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.64	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0178	EA	1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.97	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0179	EA	1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.52	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0180	EA	1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.72	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0181	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.29	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0182	EA	1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.83	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0183	EA	1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.03	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0184	EA	1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.83	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0185	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.05	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

05 05 23 00-0186 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*

05 05 23 00-0187	EA	9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.12	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0188	EA	9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.38	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0189	EA	9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.44	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0190	EA	9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.53	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0191	EA	9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.86	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0192	EA	9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.97	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0193	EA	9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.27	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0194	EA	9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.35	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0195	EA	9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.63	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0196	EA	9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.97	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0197	EA	9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.05	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0198	EA	9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.30	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0199	EA	9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.81	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0200	EA	9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.11	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0201	EA	9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.41	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0202	EA	9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.94	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0203	EA	9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.28	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0204	EA	9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.52	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0205	EA	9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.88	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

05 05 23 00-0206 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*

05 05 23 00-0207	EA	5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.97	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0208	EA	5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.14	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0209	EA	5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.36	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0210	EA	5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.91	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0211	EA	5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.24	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0212	EA	5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.65	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0213	EA	5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.43	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0214	EA	5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.06	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0215	EA	5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.54	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0216	EA	5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.00	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0217	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.06	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0218	EA	5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.89	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0219	EA	5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.62	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0220	EA	5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	19.28	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0221	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	20.05	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0222	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	21.15	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0223	EA	5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	21.90	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0224	EA	5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	22.67	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0225	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	23.27	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-0226 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*

05 05 23 00-0227	EA	3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.53	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0228	EA	3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.88	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0229	EA	3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.19	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0230	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.84	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0231	EA	3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.32	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0232	EA	3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.75	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0233	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.48	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0234	EA	3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.08	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0235	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.55	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0236	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.77	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0237	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	19.17	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0238	EA	3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	19.90	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0239	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	20.21	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0240	EA	3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	21.94	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0241	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	22.74	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0242	EA	3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	24.05	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0243	EA	3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	24.86	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0244	EA	3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	25.92	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0245	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	26.96	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0246		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*		
05 05 23 00-0247	EA	7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.62	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0248	EA	7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.90	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0249	EA	7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.05	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0250	EA	7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.70	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0251	EA	7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.48	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0252	EA	7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	19.40	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0253	EA	7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	20.43	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0254	EA	7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	21.76	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0255	EA	7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	22.50	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0256	EA	7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	23.33	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0257	EA	7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	23.77	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0258	EA	7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	24.82	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0259	EA	7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	26.14	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0260	EA	7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	27.21	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0261	EA	7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	28.26	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0262	EA	7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	29.50	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0263	EA	7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	30.61	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0264	EA	7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	31.64	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0265	EA	7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	32.74	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0266		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0098)*		
05 05 23 00-0267	EA	1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.91	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0268	EA	1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	19.84	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0269	EA	1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	21.31	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0270	EA	1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	22.84	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0271	EA	1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	24.22	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0272	EA	1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	25.91	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0273	EA	1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	27.25	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0274	EA	1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	28.63	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0275	EA	1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	29.57	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0276	EA	1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	30.23	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0277	EA	1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	31.39	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0278	EA	1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	32.82	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0279	EA	1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	33.96	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0280	EA	1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	35.16	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0281	EA	1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	36.37	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0282	EA	1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	37.72	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0283	EA	1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	38.91	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0284	EA	1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	40.12	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-0285 Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0097)*

05 05 23 00-0286 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

05 05 23 00-0287	EA	1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.20	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0288	EA	1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.26	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0289	EA	1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.31	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0290	EA	1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.41	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0291	EA	1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.78	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0292	EA	1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.96	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0293	EA	1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.15	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0294	EA	1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.56	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0295	EA	1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.80	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0296	EA	1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.97	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0297	EA	1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.40	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0298	EA	1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.56	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0299	EA	1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.72	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0300	EA	1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.17	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0301	EA	1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.39	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0302	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.61	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0303 5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

05 05 23 00-0304	EA	5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.32	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0305	EA	5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.36	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0306	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.44	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0307	EA	5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.57	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0308	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.94	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0309	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.11	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0310	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.42	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0311	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.82	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0312	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.06	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0313	EA	5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.29	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0314	EA	5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.99	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0315	EA	5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.06	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0316	EA	5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.36	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0317	EA	5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.01	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0318	EA	5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.41	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0319	EA	5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.81	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0320 3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

05 05 23 00-0321	EA	3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.39	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0322	EA	3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.42	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0323	EA	3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.56	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0324	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.70	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0325	EA	3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.12	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0326	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.29	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0327	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.56	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0328	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.10	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0329	EA	3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.73	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0330	EA	3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.01	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0331	EA	3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.65	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0332	EA	3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.91	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0333	EA	3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.38	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0334	EA	3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.98	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0335	EA	3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.61	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0336	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.11	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0337 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0338	EA	7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.95	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0339	EA	7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.08	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0340	EA	7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.40	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0341	EA	7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.90	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0342	EA	7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.13	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0343	EA	7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.35	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0344	EA	7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.90	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0345	EA	7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.14	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0346	EA	7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.69	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0347	EA	7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.13	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0348	EA	7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.38	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0349	EA	7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.65	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0350	EA	7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.26	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0351	EA	7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.62	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0352	EA	7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.98	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	

05 05 23 00-0353 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

05 05 23 00-0354	EA	1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.12	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0355	EA	1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.29	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0356	EA	1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.47	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0357	EA	1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.02	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0358	EA	1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.31	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0359	EA	1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.60	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0360	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.13	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0361	EA	1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.11	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0362	EA	1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.17	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0363	EA	1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.10	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0364	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.48	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0365	EA	1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.45	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0366	EA	1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.58	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0367	EA	1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.13	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0368	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.33	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0369	EA	1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.60	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0370	EA	1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.56	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0371	EA	1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.91	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0372	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.43	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

05 05 23 00-0373 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

05 05 23 00-0374	EA	9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.65	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0375	EA	9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.96	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0376	EA	9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.24	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0377	EA	9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.81	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0378	EA	9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.20	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0379	EA	9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.64	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0380	EA	9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.40	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0381	EA	9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.10	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0382	EA	9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.54	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0383	EA	9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.30	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0384	EA	9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.77	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0385	EA	9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.34	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0386	EA	9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.52	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0387	EA	9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.17	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0388	EA	9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.25	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0389	EA	9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.53	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0390	EA	9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.93	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0391	EA	9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.32	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0392	EA	9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.29	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

05 05 23 00-0393 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

05 05 23 00-0394	EA	5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.27	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0395	EA	5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.38	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0396	EA	5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.47	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0397	EA	5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.02	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0398	EA	5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.54	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0399	EA	5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.01	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0400	EA	5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.76	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0401	EA	5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.67	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0402	EA	5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.16	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0403	EA	5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.66	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0404	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.44	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0405	EA	5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.68	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0406	EA	5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.08	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0407	EA	5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.10	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0408	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.25	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0409	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.37	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0410	EA	5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.75	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0411	EA	5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.78	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0412	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	28.49	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-0413 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

05 05 23 00-0414	EA	3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.43	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0415	EA	3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.63	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0416	EA	3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.74	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0417	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.43	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0418	EA	3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.95	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0419	EA	3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.74	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0420	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.53	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0421	EA	3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.04	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0422	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.10	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0423	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.84	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0424	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.72	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0425	EA	3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.79	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0426	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.57	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0427	EA	3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.69	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0428	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.32	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0429	EA	3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.24	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0430	EA	3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.81	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0431	EA	3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	29.65	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0432	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	30.10	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-0433 7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

05 05 23 00-0434	EA	7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.17	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0435	EA	7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.42	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0436	EA	7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.77	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0437	EA	7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.37	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0438	EA	7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.41	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0439	EA	7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.10	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0440	EA	7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.88	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0441	EA	7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.11	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0442	EA	7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.03	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0443	EA	7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.72	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0444	EA	7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.49	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0445	EA	7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.79	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0446	EA	7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	29.23	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0447	EA	7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	30.68	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0448	EA	7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	30.77	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0449	EA	7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	33.11	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0450	EA	7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	34.53	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0451	EA	7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	35.74	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0452	EA	7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	36.95	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-0453 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts *(05 05 23 00-0285)*

05 05 23 00-0454	EA	1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.48	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0455	EA	1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.56	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0456	EA	1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.59	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0457	EA	1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.60	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0458	EA	1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.33	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0459	EA	1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.54	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0460	EA	1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.72	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0461	EA	1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.43	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0462	EA	1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.90	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0463	EA	1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	28.27	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0464	EA	1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	30.65	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0465	EA	1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	32.45	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0466	EA	1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	35.00	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0467	EA	1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	35.72	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0468	EA	1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	44.13	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0469	EA	1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	44.77	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0470	EA	1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	46.52	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0471	EA	1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	47.71	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-0472 Zinc Plated Steel, Grade 8, Hex Head Bolts *(05 05 23 00-0097)*

05 05 23 00-0473 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts *(05 05 23 00-0472)*

05 05 23 00-0474	EA	1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.23	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0475	EA	1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.35	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0476	EA	1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.41	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0477	EA	1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.54	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0478	EA	1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.88	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0479	EA	1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.03	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0480	EA	1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.17	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0481	EA	1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.42	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0482	EA	1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.82	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0483	EA	1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.19	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0484	EA	1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.64	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0485	EA	1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.84	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0486	EA	1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.10	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0487	EA	1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.52	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0488	EA	1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.01	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0489	EA	1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.23	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0490 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts *(05 05 23 00-0472)*

05 05 23 00-0491	EA	5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.33	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0492	EA	5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.41	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0493	EA	5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.64	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0494	EA	5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.69	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0495	EA	5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.08	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0496	EA	5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.43	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0497	EA	5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.53	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0498	EA	5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.99	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0499	EA	5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.21	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0500	EA	5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.71	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0501	EA	5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.27	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0502	EA	5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.46	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0503	EA	5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.76	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0504	EA	5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.21	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0505	EA	5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.43	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0506	EA	5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.85	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0507		**3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts** *(05 05 23 00-0472)*		
05 05 23 00-0508	EA	3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.58	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0509	EA	3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.61	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0510	EA	3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.63	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0511	EA	3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.90	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0512	EA	3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.32	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0513	EA	3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.60	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0514	EA	3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.85	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0515	EA	3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.88	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0516	EA	3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.20	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0517	EA	3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.26	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0518	EA	3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.65	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0519	EA	3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.99	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0520	EA	3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.53	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0521	EA	3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.14	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0522	EA	3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.83	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0523	EA	3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.45	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0524		**7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts** *(05 05 23 00-0472)*		
05 05 23 00-0525	EA	7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.13	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0526	EA	7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.17	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0527	EA	7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.61	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0528	EA	7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.90	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0529	EA	7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.38	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0530	EA	7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.65	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0531	EA	7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.96	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0532	EA	7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.04	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0533	EA	7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.89	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0534	EA	7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.73	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0535	EA	7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.03	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0536	EA	7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.47	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0537	EA	7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.38	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0538	EA	7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.81	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0539	EA	7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.92	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	

05 05 23 00-0540 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts *(05 05 23 00-0472)*

05 05 23 00-0541	EA	1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.42	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0542	EA	1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.73	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0543	EA	1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.93	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0544	EA	1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.38	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0545	EA	1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.73	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0546	EA	1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.52	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0547	EA	1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.33	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0548	EA	1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.78	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0549	EA	1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.11	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0550	EA	1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.95	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0551	EA	1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.94	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0552	EA	1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.85	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0553	EA	1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.88	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0554	EA	1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.29	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0555	EA	1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.42	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0556	EA	1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.57	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0557	EA	1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.39	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0558	EA	1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.81	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0559	EA	1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.84	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

05 05 23 00-0560 9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts *(05 05 23 00-0472)*

05 05 23 00-0561	EA	9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.71	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0562	EA	9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.90	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0563	EA	9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.34	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0564	EA	9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.23	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0565	EA	9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.39	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0566	EA	9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.03	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0567	EA	9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.72	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0568	EA	9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.82	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0569	EA	9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.23	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0570	EA	9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.83	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0571	EA	9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.74	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0572	EA	9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.19	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0573	EA	9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.47	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0574	EA	9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.46	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0575	EA	9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	36.88	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	

05 05 23 00-0576 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts *(05 05 23 00-0472)*

05 05 23 00-0577	EA	5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.68	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0578	EA	5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.86	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0579	EA	5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.35	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0580	EA	5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.31	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0581	EA	5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.89	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0582	EA	5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.20	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0583	EA	5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.68	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0584	EA	5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.72	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0585	EA	5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.18	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0586	EA	5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.91	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0587	EA	5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.40	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0588	EA	5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.42	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0589	EA	5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.10	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0590	EA	5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	24.27	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0591	EA	5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	24.75	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0592	EA	5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.07	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0593	EA	5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.35	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0594	EA	5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.52	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0595	EA	5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.64	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-0596 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts *(05 05 23 00-0472)*

05 05 23 00-0597	EA	3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.76	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0598	EA	3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.96	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0599	EA	3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.11	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0600	EA	3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.65	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0601	EA	3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.08	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0602	EA	3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.32	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0603	EA	3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.10	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0604	EA	3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.21	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0605	EA	3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.89	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0606	EA	3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.75	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0607	EA	3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.63	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0608	EA	3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.28	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0609	EA	3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.55	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0610	EA	3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.43	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0611	EA	3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.89	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0612	EA	3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.32	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0613	EA	3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	30.92	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0614	EA	3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	32.07	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0615	EA	3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	32.49	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-0616 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts *(05 05 23 00-0472)*

05 05 23 00-0617	EA	7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.03	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0618	EA	7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.58	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0619	EA	7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.64	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0620	EA	7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.27	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0621	EA	7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.46	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0622	EA	7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.07	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0623	EA	7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.01	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0624	EA	7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	28.02	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0625	EA	7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	30.61	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0626	EA	7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	32.08	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0627	EA	7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	35.90	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0628	EA	7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	37.44	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0629	EA	7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	41.36	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0630	EA	7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	42.95	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0631	EA	7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	44.47	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0632	EA	7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	44.93	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0633	EA	7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	45.32	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0634	EA	7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	46.27	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-0635 1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts *(05 05 23 00-0472)*

05 05 23 00-0636	EA	1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.58	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0637	EA	1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.95	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0638	EA	1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.81	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0639	EA	1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.83	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0640	EA	1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.74	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0641	EA	1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.51	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0642	EA	1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	28.16	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0643	EA	1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	30.36	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0644	EA	1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.64	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0645	EA	1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	32.57	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0646	EA	1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	37.18	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0647	EA	1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	38.14	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0648	EA	1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	43.34	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0649	EA	1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	44.24	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0650	EA	1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	47.26	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0651	EA	1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	48.76	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0652	EA	1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	52.72	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0653	EA	1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	55.14	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-0654 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0097)*

05 05 23 00-0655 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0654)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0656	EA	1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.39	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0657	EA	1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.41	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0658	EA	1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.44	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0659	EA	1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.72	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0660	EA	1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.12	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0661	EA	1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.28	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0662	EA	1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.35	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0663	EA	1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.62	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0664	EA	1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.82	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0665	EA	1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.87	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0666	EA	1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.26	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0667	EA	1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.44	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0668	EA	1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.50	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0669	EA	1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.91	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0670	EA	1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.38	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0671	EA	1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.97	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0672 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0654)*

05 05 23 00-0673	EA	5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.27	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0674	EA	5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.81	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0675	EA	5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.86	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0676	EA	5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.88	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0677	EA	5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.38	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0678	EA	5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.89	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0679	EA	5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.99	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0680	EA	5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.38	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0681	EA	5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.43	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0682	EA	5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.84	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0683	EA	5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.21	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0684	EA	5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.36	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0685	EA	5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.76	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0686	EA	5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.79	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0687	EA	5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.42	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0688	EA	5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.00	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0689 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0654)*

05 05 23 00-0690	EA	3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.43	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0691	EA	3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.56	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0692	EA	3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.69	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0693	EA	3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.02	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0694	EA	3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.42	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0695	EA	3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.70	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0696	EA	3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.89	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0697	EA	3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.41	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0698	EA	3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.55	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0699	EA	3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.88	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0700	EA	3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.28	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0701	EA	3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.74	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0702	EA	3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.82	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0703	EA	3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.10	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0704	EA	3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.15	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0705	EA	3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.68	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0706 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0654)*

05 05 23 00-0707	EA	7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.53	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0708	EA	7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.12	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0709	EA	7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.57	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0710	EA	7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.59	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0711	EA	7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.63	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0712	EA	7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.67	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0713	EA	7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.31	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0714	EA	7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.73	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0715	EA	7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.11	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0716	EA	7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.81	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0717	EA	7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.25	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	

05 05 23 00-0718 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0654)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0719	EA	1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.27	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0720	EA	1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.46	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0721	EA	1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.85	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0722	EA	1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.54	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0723	EA	1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.84	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0724	EA	1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.39	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0725	EA	1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.74	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0726	EA	1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.95	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0727	EA	1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.39	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0728	EA	1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.86	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0729	EA	1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.35	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0730	EA	1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.40	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0731	EA	1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.74	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0732	EA	1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.87	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0733	EA	1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.24	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0734	EA	1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.26	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0735	EA	1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.56	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0736	EA	1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.63	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0737	EA	1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.80	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

05 05 23 00-0738 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0654)*

05 05 23 00-0739	EA	5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.25	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0740	EA	5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.55	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0741	EA	5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.75	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0742	EA	5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.33	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0743	EA	5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.77	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0744	EA	5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.75	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0745	EA	5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.17	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0746	EA	5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.34	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0747	EA	5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.64	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0748	EA	5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.28	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0749	EA	5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.63	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0750	EA	5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.63	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0751	EA	5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.95	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0752	EA	5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	20.71	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0753	EA	5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	21.23	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0754	EA	5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.23	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0755	EA	5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	23.06	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0756	EA	5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	24.97	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0757	EA	5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	25.11	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-0758 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0654)*

05 05 23 00-0759	EA	3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.68	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0760	EA	3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.74	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0761	EA	3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.11	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0762	EA	3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.17	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0763	EA	3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.54	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0764	EA	3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.42	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0765	EA	3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.15	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0766	EA	3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.23	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0767	EA	3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.42	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0768	EA	3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.79	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0769	EA	3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	20.96	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0770	EA	3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	21.44	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0771	EA	3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.65	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0772	EA	3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.80	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0773	EA	3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	23.28	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0774	EA	3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	24.24	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0775	EA	3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	24.75	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0776	EA	3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	25.03	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0777	EA	3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	25.17	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-0778 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0654)*

05 05 23 00-0779	EA	7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.81	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0780	EA	7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.37	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0781	EA	7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.95	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0782	EA	7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.88	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0783	EA	7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	23.32	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0784	EA	7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	24.15	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0785	EA	7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	24.76	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0786	EA	7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	25.55	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0787	EA	7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	26.35	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0788	EA	7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	26.96	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0789	EA	7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	31.82	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0790	EA	7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	32.75	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0791	EA	7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	33.88	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0792	EA	7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	34.15	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0793	EA	7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	34.72	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0794	EA	7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	35.34	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0795	EA	7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	36.13	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0796	EA	7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	36.87	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-0797 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts *(05 05 23 00-0654)*

05 05 23 00-0798	EA	1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.75	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0799	EA	1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	23.18	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0800	EA	1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	24.24	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0801	EA	1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	25.07	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0802	EA	1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	27.23	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0803	EA	1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	27.65	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0804	EA	1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	28.88	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0805	EA	1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	29.26	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0806	EA	1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	29.71	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0807	EA	1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	33.88	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0808	EA	1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	34.92	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0809	EA	1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	36.67	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0810	EA	1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	38.39	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0811	EA	1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	39.16	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0812	EA	1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	40.56	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0813	EA	1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	41.63	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0814	EA	1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	43.20	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-0815 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0097)*

05 05 23 00-0816 1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*

05 05 23 00-0817	EA	1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.36	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0818	EA	1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.50	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0819	EA	1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.67	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0820	EA	1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.86	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0821	EA	1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.30	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0822	EA	1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.59	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0823	EA	1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.92	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0824	EA	1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.42	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0825	EA	1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.83	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0826	EA	1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.19	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0827	EA	1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.76	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0828	EA	1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.38	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0829	EA	1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.78	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0830	EA	1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.64	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0831	EA	1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.99	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0832	EA	1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.82	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0833 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*

05 05 23 00-0834	EA	5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.61	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0835	EA	5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.74	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0836	EA	5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.00	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0837	EA	5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.22	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0838	EA	5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.87	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0839	EA	5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.00	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0840	EA	5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.69	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0841	EA	5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.43	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0842	EA	5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.20	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0843	EA	5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.58	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0844	EA	5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.02	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0845	EA	5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.95	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0846	EA	5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.36	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0847	EA	5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.73	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0848 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*

05 05 23 00-0849	EA	3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.94	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0850	EA	3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.10	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0851	EA	3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.52	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0852	EA	3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.05	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0853	EA	3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.58	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0854	EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.00	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0855	EA	3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.56	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0856	EA	3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.31	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0857	EA	3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.97	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0858	EA	3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.42	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0859	EA	3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.85	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0860	EA	3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.05	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0861	EA	3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.60	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-0862	EA	3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.45	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0863	EA	3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.81	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-0864	EA	3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.36	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-0865 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*

05 05 23 00-0866	EA	7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.58	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0867	EA	7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.75	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0868	EA	7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.43	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0869	EA	7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.08	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0870	EA	7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.89	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0871	EA	7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.25	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0872	EA	7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.12	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0873	EA	7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.71	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0874	EA	7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.40	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0875	EA	7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.84	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0876	EA	7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.25	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0877	EA	7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.58	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0878	EA	7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.12	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	

05 05 23 00-0879 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*

05 05 23 00-0880	EA	1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.56	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0881	EA	1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.75	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0882	EA	1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.81	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0883	EA	1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.49	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0884	EA	1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.45	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0885	EA	1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.98	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0886	EA	1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.87	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0887	EA	1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.34	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0888	EA	1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.87	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0889	EA	1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.83	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0890	EA	1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.97	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0891	EA	1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.26	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0892	EA	1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.43	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0893	EA	1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.20	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0894	EA	1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.42	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-0895	EA	1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.62	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0896	EA	1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.11	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0897	EA	1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.47	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0898	EA	1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.81	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

05 05 23 00-0899 9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*

05 05 23 00-0900	EA	9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.12	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0901	EA	9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.32	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0902	EA	9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.18	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-0903	EA	9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.21	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0904	EA	9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.58	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0905	EA	9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.97	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-0906	EA	9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.75	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0907	EA	9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.29	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-0908	EA	9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.35	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0909	EA	9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.99	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-0910	EA	9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.70	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	

05 05 23 00-0911 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*

05 05 23 00-0912	EA	5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.72	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0913	EA	5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.22	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0914	EA	5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.33	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0915	EA	5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.93	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0916	EA	5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.93	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0917	EA	5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.36	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0918	EA	5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.42	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0919	EA	5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.43	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0920	EA	5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.04	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0921	EA	5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.20	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0922	EA	5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.64	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0923	EA	5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.93	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0924	EA	5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.09	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0925	EA	5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.49	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0926	EA	5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.57	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0927	EA	5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.25	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0928	EA	5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.66	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0929	EA	5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	51.95	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0930	EA	5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	54.54	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-0931 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*

05 05 23 00-0932	EA	3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.02	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0933	EA	3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.00	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0934	EA	3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.30	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-0935	EA	3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.96	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0936	EA	3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.39	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0937	EA	3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.80	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-0938	EA	3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.49	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0939	EA	3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.73	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0940	EA	3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.53	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-0941	EA	3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.63	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0942	EA	3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.72	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0943	EA	3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.64	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-0944	EA	3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	50.30	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0945	EA	3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	53.63	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0946	EA	3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	60.73	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-0947	EA	3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	61.32	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0948	EA	3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	62.44	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0949	EA	3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	65.47	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0950	EA	3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	67.81	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0951		7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*		
05 05 23 00-0952	EA	7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.48	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0953	EA	7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.93	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0954	EA	7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.07	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0955	EA	7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.56	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0956	EA	7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.37	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0957	EA	7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.67	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0958	EA	7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.47	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0959	EA	7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.89	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0960	EA	7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.95	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0961	EA	7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.04	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0962	EA	7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	56.53	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0963	EA	7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	61.19	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0964	EA	7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	66.35	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0965	EA	7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	70.50	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0966	EA	7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	83.36	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0967	EA	7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	93.46	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0968	EA	7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	98.13	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0969	EA	7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	102.79	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0970		1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts *(05 05 23 00-0815)*		
05 05 23 00-0971	EA	1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.43	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-0972	EA	1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.22	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0973	EA	1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.15	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0974	EA	1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.41	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0975	EA	1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.12	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-0976	EA	1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.55	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0977	EA	1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.13	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0978	EA	1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	52.96	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-0979	EA	1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	56.80	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0980	EA	1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	57.01	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0981	EA	1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	67.27	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-0982	EA	1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	80.50	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0983	EA	1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	82.43	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0984	EA	1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	84.37	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-0985	EA	1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	88.48	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0986	EA	1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	94.41	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0987	EA	1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	121.31	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-0988	EA	1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	152.65	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-0989 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0097)*

05 05 23 00-0990 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-0991	EA	1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.62	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0992	EA	1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.91	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0993	EA	1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.11	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-0994	EA	2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.26	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0995	EA	2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.92	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0996	EA	3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.29	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0997	EA	3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.65	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-0998	EA	4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	12.19	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-0999	EA	4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	12.50	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-1000	EA	5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	12.64	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-1001	EA	5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	13.84	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-1002	EA	6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	14.10	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-1003	EA	6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	23.52	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-1004	EA	7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	35.18	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-1005	EA	7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	60.33	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-1006	EA	8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	66.06	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-1007 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-1008	EA	5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.01	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-1009	EA	5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	10.33	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-1010	EA	5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.87	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-1011	EA	5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	11.28	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-1012	EA	5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.71	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-1013	EA	5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	12.54	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-1014	EA	5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.12	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-1015	EA	5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	13.62	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1016	EA	5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.86	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-1017	EA	5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	15.11	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-1018	EA	5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.24	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-1019	EA	5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	17.20	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-1020	EA	5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.22	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-1021	EA	5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	36.86	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-1022 3/8" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-1023	EA	3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.86	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-1024	EA	3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	10.99	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-1025	EA	3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.49	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-1026	EA	3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	12.69	
		For >100 To 250, Deduct	*-1.80*	
		For >250 To 500, Deduct	*-2.25*	
		For >500, Deduct	*-2.70*	
05 05 23 00-1027	EA	3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.37	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-1028	EA	3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	13.59	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-1029	EA	3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.63	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.32*	
		For >500, Deduct	*-2.78*	
05 05 23 00-1030	EA	3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	15.03	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-1031	EA	3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.69	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-1032	EA	3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	16.13	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.38*	
		For >500, Deduct	*-2.85*	
05 05 23 00-1033	EA	3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.84	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-1034	EA	3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	19.60	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-1035	EA	3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.68	
		For >100 To 250, Deduct	*-1.95*	
		For >250 To 500, Deduct	*-2.44*	
		For >500, Deduct	*-2.93*	
05 05 23 00-1036	EA	3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	24.39	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1037	EA	3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.65	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	
05 05 23 00-1038	EA	3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	39.49	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-2.51*	
		For >500, Deduct	*-3.01*	

05 05 23 00-1039 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-1040	EA	7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	14.14	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-1041	EA	7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.90	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-1042	EA	7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	16.30	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-1043	EA	7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.77	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-1044	EA	7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	19.12	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-1045	EA	7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.34	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-1046	EA	7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	23.73	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-1047	EA	7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.11	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-1048	EA	7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	24.93	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-1049	EA	7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.74	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-1050	EA	7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	26.32	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-1051	EA	7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.90	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-1052	EA	7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	27.61	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	

05 05 23 00-1053 1/2" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-1054	EA	1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	14.10	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-1055	EA	1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.91	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-1056	EA	1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	16.05	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-1057	EA	1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.66	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1058	EA	1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	18.91	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-1059	EA	1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.22	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-1060	EA	1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	20.00	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-1061	EA	1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.42	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-1062	EA	1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	27.32	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-1063	EA	1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.96	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-1064	EA	1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	28.73	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-1065	EA	1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.79	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-1066	EA	1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	39.10	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-1067	EA	1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.72	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-1068	EA	1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	46.07	
		For >100 To 250, Deduct	*-2.26*	
		For >250 To 500, Deduct	*-2.83*	
		For >500, Deduct	*-3.39*	
05 05 23 00-1069	EA	1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	57.82	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-1070	EA	1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	65.24	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-1071	EA	1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	66.45	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-1072	EA	1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	68.34	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	

05 05 23 00-1073 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-1074	EA	9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	34.42	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-1075	EA	9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.08	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-1076	EA	9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	46.01	
		For >100 To 250, Deduct	*-2.06*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.08*	
05 05 23 00-1077	EA	9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	51.26	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-1078	EA	9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	56.53	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1079	EA	9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	61.80	
		For >100 To 250, Deduct	*-2.11*	
		For >250 To 500, Deduct	*-2.63*	
		For >500, Deduct	*-3.16*	
05 05 23 00-1080	EA	9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	65.34	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-1081	EA	9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	69.69	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-1082	EA	9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	73.55	
		For >100 To 250, Deduct	*-2.16*	
		For >250 To 500, Deduct	*-2.70*	
		For >500, Deduct	*-3.24*	
05 05 23 00-1083	EA	9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	74.98	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	
05 05 23 00-1084	EA	9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	78.38	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-2.77*	
		For >500, Deduct	*-3.32*	

05 05 23 00-1085 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-1086	EA	5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	19.53	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-1087	EA	5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.76	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-1088	EA	5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	19.84	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-1089	EA	5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.61	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-1090	EA	5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	23.17	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-1091	EA	5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.14	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-1092	EA	5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	29.44	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-1093	EA	5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.79	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-1094	EA	5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	35.29	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-1095	EA	5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.40	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-1096	EA	5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	39.64	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-1097	EA	5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.24	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-1098	EA	5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	50.25	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-1099	EA	5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	51.21	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1100	EA	5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	54.77	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-1101	EA	5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	58.23	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-1102	EA	5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	61.24	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-1103	EA	5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	75.61	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-1104	EA	5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	90.96	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-1105 3/4" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-1106	EA	3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	25.57	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-1107	EA	3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.11	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-1108	EA	3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	28.18	
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-2.89*	
		For >500, Deduct	*-3.47*	
05 05 23 00-1109	EA	3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.24	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-1110	EA	3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	34.10	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-1111	EA	3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.34	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-3.55*	
05 05 23 00-1112	EA	3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	41.37	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-1113	EA	3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	43.34	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-1114	EA	3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	44.43	
		For >100 To 250, Deduct	*-2.42*	
		For >250 To 500, Deduct	*-3.02*	
		For >500, Deduct	*-3.62*	
05 05 23 00-1115	EA	3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.12	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-1116	EA	3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	48.60	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-1117	EA	3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	56.20	
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.08*	
		For >500, Deduct	*-3.70*	
05 05 23 00-1118	EA	3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	67.47	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-1119	EA	3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	76.05	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	
05 05 23 00-1120	EA	3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	77.34	
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-3.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1121	EA	3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	82.76	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-1122	EA	3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	95.75	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-1123	EA	3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	96.85	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-1124	EA	3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	99.59	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	

05 05 23 00-1125 7/8" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-1126	EA	7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.82	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-1127	EA	7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	32.39	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-1128	EA	7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.60	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-1129	EA	7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	39.60	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-1130	EA	7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.84	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-1131	EA	7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	44.07	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-1132	EA	7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.11	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-1133	EA	7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	53.92	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-1134	EA	7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.35	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-1135	EA	7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	56.61	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-1136	EA	7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	75.69	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-1137	EA	7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	84.37	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-1138	EA	7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	93.42	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-1139	EA	7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	97.88	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-1140	EA	7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	103.93	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-1141	EA	7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	107.81	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1142	EA	7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	111.65	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-1143	EA	7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	115.98	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-1144 1" Diameter, 316 Stainless Steel, Hex Head Bolts *(05 05 23 00-0989)*

05 05 23 00-1145	EA	1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	36.68	
		For >100 To 250, Deduct	*-2.57*	
		For >250 To 500, Deduct	*-3.21*	
		For >500, Deduct	*-3.86*	
05 05 23 00-1146	EA	1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.44	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-1147	EA	1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	46.13	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-1148	EA	1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	52.02	
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-3.93*	
05 05 23 00-1149	EA	1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	54.39	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-1150	EA	1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	58.38	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-1151	EA	1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	62.42	
		For >100 To 250, Deduct	*-2.67*	
		For >250 To 500, Deduct	*-3.34*	
		For >500, Deduct	*-4.01*	
05 05 23 00-1152	EA	1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	66.73	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-1153	EA	1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	77.15	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-1154	EA	1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	87.43	
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-3.41*	
		For >500, Deduct	*-4.09*	
05 05 23 00-1155	EA	1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	101.75	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-1156	EA	1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	113.56	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-1157	EA	1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	115.26	
		For >100 To 250, Deduct	*-2.78*	
		For >250 To 500, Deduct	*-3.47*	
		For >500, Deduct	*-4.16*	
05 05 23 00-1158	EA	1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	119.37	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-1159	EA	1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	121.00	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-1160	EA	1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	140.62	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	
05 05 23 00-1161	EA	1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	159.56	
		For >100 To 250, Deduct	*-2.83*	
		For >250 To 500, Deduct	*-3.53*	
		For >500, Deduct	*-4.24*	

05 05 23 00-1162 Screws *(05 05 23)*

05 05 23 00-1163 Teks® 5 Self Drilling Screws *(05 05 23 00-1162)*

Note: Includes Climaseal® finish, self-drill point and tapping threads.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1164	EA	12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	4.83	
		For >10 To 50, Deduct	*-0.21*	
		For >50 To 100, Deduct	*-0.44*	
		For >100, Deduct	*-0.88*	
05 05 23 00-1165	EA	12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	5.03	
		For >10 To 50, Deduct	*-0.21*	
		For >50 To 100, Deduct	*-0.45*	
		For >100, Deduct	*-0.89*	
05 05 23 00-1166	EA	12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	5.60	
		For >10 To 50, Deduct	*-0.23*	
		For >50 To 100, Deduct	*-0.48*	
		For >100, Deduct	*-0.97*	
05 05 23 00-1167	EA	1/4" x 3", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	7.67	
		For >10 To 50, Deduct	*-0.29*	
		For >50 To 100, Deduct	*-0.62*	
		For >100, Deduct	*-1.24*	
05 05 23 00-1168	EA	1/4" x 4", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	8.19	
		For >10 To 50, Deduct	*-0.30*	
		For >50 To 100, Deduct	*-0.65*	
		For >100, Deduct	*-1.31*	
05 05 23 00-1169	EA	1/4" x 6", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	10.06	
		For >10 To 50, Deduct	*-0.31*	
		For >50 To 100, Deduct	*-0.72*	
		For >100, Deduct	*-1.45*	
05 05 23 00-1170	EA	1/4" x 8", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	11.23	
		For >10 To 50, Deduct	*-0.33*	
		For >50 To 100, Deduct	*-0.77*	
		For >100, Deduct	*-1.55*	

05 05 23 00-1171 Security Screws *(05 05 23 00-1162)*

05 05 23 00-1172 304/18-8 Stainless Steel, Security Screws *(05 05 23 00-1171)*

Note: Includes "security" style drive in machine or sheet metal screw threads.

05 05 23 00-1173	EA	#4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws	3.80	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.36*	
		For >100, Deduct	*-0.73*	
05 05 23 00-1174	EA	#6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.35	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.38*	
		For >100, Deduct	*-0.76*	
05 05 23 00-1175	EA	#6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.83	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.39*	
		For >100, Deduct	*-0.78*	
05 05 23 00-1176	EA	#6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.99	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.39*	
		For >100, Deduct	*-0.79*	
05 05 23 00-1177	EA	#6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.30	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.40*	
		For >100, Deduct	*-0.80*	
05 05 23 00-1178	EA	#8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.48	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.38*	
		For >100, Deduct	*-0.76*	
05 05 23 00-1179	EA	#8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.70	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.39*	
		For >100, Deduct	*-0.77*	
05 05 23 00-1180	EA	#8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	5.18	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.40*	
		For >100, Deduct	*-0.80*	
05 05 23 00-1181	EA	#8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.32	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.40*	
		For >100, Deduct	*-0.80*	
05 05 23 00-1182	EA	#10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.62	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.38*	
		For >100, Deduct	*-0.77*	
05 05 23 00-1183	EA	#10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.68	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.39*	
		For >100, Deduct	*-0.77*	
05 05 23 00-1184	EA	#10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.89	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.39*	
		For >100, Deduct	*-0.78*	
05 05 23 00-1185	EA	#10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.53	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.41*	
		For >100, Deduct	*-0.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1186	EA	1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.99	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.39*	
		For >100, Deduct	*-0.79*	
05 05 23 00-1187	EA	1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	5.13	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.40*	
		For >100, Deduct	*-0.80*	
05 05 23 00-1188	EA	1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	5.75	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.41*	
		For >100, Deduct	*-0.83*	
05 05 23 00-1189	EA	1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	6.72	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-0.44*	
		For >100, Deduct	*-0.87*	

05 05 23 00-1190 Threaded Rod *(05 05 23)*

Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1283 for nuts and washers.

05 05 23 00-1191 Plain Finish Steel, Low Carbon Threaded Rod *(05 05 23 00-1190)*

05 05 23 00-1192	LF	1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.18	0.59
		For Left Hand Threaded Rod, Add	*0.10*	
05 05 23 00-1193	LF	5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.80	0.65
		For Left Hand Threaded Rod, Add	*0.15*	
05 05 23 00-1194	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.24	0.76
		For Left Hand Threaded Rod, Add	*0.17*	
05 05 23 00-1195	LF	7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.25	0.78
		For Left Hand Threaded Rod, Add	*0.27*	
05 05 23 00-1196	LF	1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.36	0.81
		For Left Hand Threaded Rod, Add	*0.28*	
05 05 23 00-1197	LF	9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.32	0.82
		For Left Hand Threaded Rod, Add	*0.37*	
05 05 23 00-1198	LF	5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.95	0.83
		For Left Hand Threaded Rod, Add	*0.43*	
05 05 23 00-1199	LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	9.51	0.85
		For Left Hand Threaded Rod, Add	*0.78*	
05 05 23 00-1200	LF	7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.34	0.88
		For Left Hand Threaded Rod, Add	*0.86*	
05 05 23 00-1201	LF	1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.03	1.00
		For Left Hand Threaded Rod, Add	*1.20*	
05 05 23 00-1202	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.41	1.11
		For Left Hand Threaded Rod, Add	*1.52*	
05 05 23 00-1203	LF	1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	22.99	1.20
		For Left Hand Threaded Rod, Add	*2.05*	
05 05 23 00-1204	LF	1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	28.48	1.30
		For Left Hand Threaded Rod, Add	*2.59*	
05 05 23 00-1205	LF	1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	33.96	1.36
		For Left Hand Threaded Rod, Add	*3.12*	
05 05 23 00-1206	LF	1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	41.52	1.43
		For Left Hand Threaded Rod, Add	*3.87*	
05 05 23 00-1207	LF	2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	52.88	1.50
		For Left Hand Threaded Rod, Add	*4.99*	

05 05 23 00-1208 Zinc Plated Steel, Low Carbon Threaded Rod *(05 05 23 00-1190)*

05 05 23 00-1209	LF	1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.19	0.59
		For Left Hand Threaded Rod, Add	*0.10*	
05 05 23 00-1210	LF	5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.13	0.65
		For Left Hand Threaded Rod, Add	*0.18*	
05 05 23 00-1211	LF	3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.49	0.76
		For Left Hand Threaded Rod, Add	*0.20*	
05 05 23 00-1212	LF	7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	4.86	0.78
		For Left Hand Threaded Rod, Add	*0.33*	
05 05 23 00-1213	LF	1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	5.22	0.81
		For Left Hand Threaded Rod, Add	*0.36*	
05 05 23 00-1214	LF	9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	6.72	0.82
		For Left Hand Threaded Rod, Add	*0.51*	
05 05 23 00-1215	LF	5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	7.12	0.83
		For Left Hand Threaded Rod, Add	*0.55*	
05 05 23 00-1216	LF	3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	10.51	0.85
		For Left Hand Threaded Rod, Add	*0.88*	
05 05 23 00-1217	LF	7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	13.50	0.88
		For Left Hand Threaded Rod, Add	*1.17*	
05 05 23 00-1218	LF	1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	18.03	1.00
		For Left Hand Threaded Rod, Add	*1.60*	
05 05 23 00-1219	LF	1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	23.19	1.11
		For Left Hand Threaded Rod, Add	*2.10*	
05 05 23 00-1220	LF	1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	27.63	1.20
		For Left Hand Threaded Rod, Add	*2.51*	
05 05 23 00-1221	LF	1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	31.36	1.30
		For Left Hand Threaded Rod, Add	*2.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1222	LF	1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	39.34	1.36
		For Left Hand Threaded Rod, Add	*3.66*	
05 05 23 00-1223	LF	1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	48.61	1.43
		For Left Hand Threaded Rod, Add	*4.58*	
05 05 23 00-1224	LF	2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	70.64	1.50
		For Left Hand Threaded Rod, Add	*6.77*	

05 05 23 00-1225 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod *(05 05 23 00-1190)*

05 05 23 00-1226	LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	5.50	0.76
		For Left Hand Threaded Rod, Add	*0.40*	
05 05 23 00-1227	LF	1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	7.57	0.81
		For Left Hand Threaded Rod, Add	*0.60*	
05 05 23 00-1228	LF	5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	10.09	0.83
		For Left Hand Threaded Rod, Add	*0.84*	
05 05 23 00-1229	LF	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	13.72	0.85
		For Left Hand Threaded Rod, Add	*1.20*	
05 05 23 00-1230	LF	7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	18.84	0.88
		For Left Hand Threaded Rod, Add	*1.71*	
05 05 23 00-1231	LF	1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	24.23	1.00
		For Left Hand Threaded Rod, Add	*2.22*	
05 05 23 00-1232	LF	1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	31.79	1.11
		For Left Hand Threaded Rod, Add	*2.96*	
05 05 23 00-1233	LF	1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	41.70	1.20
		For Left Hand Threaded Rod, Add	*3.92*	
05 05 23 00-1234	LF	1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	46.56	1.30
		For Left Hand Threaded Rod, Add	*4.40*	
05 05 23 00-1235	LF	1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	55.32	1.36
		For Left Hand Threaded Rod, Add	*5.26*	
05 05 23 00-1236	LF	1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	67.10	1.43
		For Left Hand Threaded Rod, Add	*6.43*	
05 05 23 00-1237	LF	2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	116.63	1.50
		For Left Hand Threaded Rod, Add	*11.36*	

05 05 23 00-1238 304/18-8 Stainless Steel Threaded Rod *(05 05 23 00-1190)*

05 05 23 00-1239	LF	1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.12	0.59
		For Left Hand Threaded Rod, Add	*0.29*	
05 05 23 00-1240	LF	5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.31	0.65
		For Left Hand Threaded Rod, Add	*0.50*	
05 05 23 00-1241	LF	3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	8.15	0.76
		For Left Hand Threaded Rod, Add	*0.67*	
05 05 23 00-1242	LF	7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	11.44	0.78
		For Left Hand Threaded Rod, Add	*0.99*	
05 05 23 00-1243	LF	1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	13.78	0.81
		For Left Hand Threaded Rod, Add	*1.22*	
05 05 23 00-1244	LF	9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	19.97	0.82
		For Left Hand Threaded Rod, Add	*1.84*	
05 05 23 00-1245	LF	5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	20.86	0.83
		For Left Hand Threaded Rod, Add	*1.92*	
05 05 23 00-1246	LF	3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	29.35	0.85
		For Left Hand Threaded Rod, Add	*2.77*	
05 05 23 00-1247	LF	7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	40.51	0.88
		For Left Hand Threaded Rod, Add	*3.88*	
05 05 23 00-1248	LF	1" Diameter, 304/18-8 Stainless Steel Threaded Rod	52.02	1.00
		For Left Hand Threaded Rod, Add	*5.00*	
05 05 23 00-1249	LF	1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	110.51	1.20
		For Left Hand Threaded Rod, Add	*10.80*	
05 05 23 00-1250	LF	1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	168.51	1.36
		For Left Hand Threaded Rod, Add	*16.58*	
05 05 23 00-1251	LF	1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	173.32	1.43
		For Left Hand Threaded Rod, Add	*17.05*	
05 05 23 00-1252	LF	2" Diameter, 304/18-8 Stainless Steel Threaded Rod	240.04	1.50
		For Left Hand Threaded Rod, Add	*23.71*	

05 05 23 00-1253 316 Stainless Steel Threaded Rod *(05 05 23 00-1190)*

05 05 23 00-1254	LF	1/4" Diameter, 316 Stainless Steel Threaded Rod	6.08	0.59
		For Left Hand Threaded Rod, Add	*0.49*	
05 05 23 00-1255	LF	5/16" Diameter, 316 Stainless Steel Threaded Rod	9.94	0.65
		For Left Hand Threaded Rod, Add	*0.86*	
05 05 23 00-1256	LF	3/8" Diameter, 316 Stainless Steel Threaded Rod	13.25	0.76
		For Left Hand Threaded Rod, Add	*1.18*	
05 05 23 00-1257	LF	7/16" Diameter, 316 Stainless Steel Threaded Rod	20.85	0.78
		For Left Hand Threaded Rod, Add	*1.93*	
05 05 23 00-1258	LF	1/2" Diameter, 316 Stainless Steel Threaded Rod	22.13	0.81
		For Left Hand Threaded Rod, Add	*2.05*	
05 05 23 00-1259	LF	9/16" Diameter, 316 Stainless Steel Threaded Rod	29.14	0.82
		For Left Hand Threaded Rod, Add	*2.75*	
05 05 23 00-1260	LF	5/8" Diameter, 316 Stainless Steel Threaded Rod	31.38	0.83
		For Left Hand Threaded Rod, Add	*2.97*	
05 05 23 00-1261	LF	3/4" Diameter, 316 Stainless Steel Threaded Rod	45.91	0.85
		For Left Hand Threaded Rod, Add	*4.42*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1262	LF	7/8" Diameter, 316 Stainless Steel Threaded Rod	62.99	0.88
		For Left Hand Threaded Rod, Add	*6.12*	
05 05 23 00-1263	LF	1" Diameter, 316 Stainless Steel Threaded Rod	79.76	1.00
		For Left Hand Threaded Rod, Add	*7.78*	
05 05 23 00-1264	LF	1-1/4" Diameter, 316 Stainless Steel Threaded Rod	168.78	1.20
		For Left Hand Threaded Rod, Add	*16.63*	
05 05 23 00-1265	LF	1-1/2" Diameter, 316 Stainless Steel Threaded Rod	221.35	1.36
		For Left Hand Threaded Rod, Add	*21.86*	

05 05 23 00-1266 Plain Finish Steel, B-7 Alloy Threaded Rod *(05 05 23 00-1190)*

05 05 23 00-1267	LF	1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	3.56	0.59
		For Zinc Plating, Add	*1.18*	
05 05 23 00-1268	LF	5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	5.37	0.65
		For Zinc Plating, Add	*2.03*	
05 05 23 00-1269	LF	3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	5.64	0.76
		For Zinc Plating, Add	*2.07*	
05 05 23 00-1270	LF	7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	6.13	0.78
		For Zinc Plating, Add	*2.30*	
05 05 23 00-1271	LF	1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	6.73	0.81
		For Zinc Plating, Add	*2.57*	
05 05 23 00-1272	LF	9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	8.33	0.82
		For Zinc Plating, Add	*3.36*	
05 05 23 00-1273	LF	5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	8.59	0.83
		For Zinc Plating, Add	*3.47*	
05 05 23 00-1274	LF	3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	11.29	0.85
		For Zinc Plating, Add	*4.80*	
05 05 23 00-1275	LF	7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	13.47	0.88
		For Zinc Plating, Add	*5.86*	
05 05 23 00-1276	LF	1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	17.41	1.00
		For Zinc Plating, Add	*7.71*	
05 05 23 00-1277	LF	1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	22.57	1.11
		For Zinc Plating, Add	*10.18*	
05 05 23 00-1278	LF	1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	25.13	1.20
		For Zinc Plating, Add	*11.32*	
05 05 23 00-1279	LF	1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	28.94	1.30
		For Zinc Plating, Add	*13.17*	
05 05 23 00-1280	LF	1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	35.09	1.36
		For Zinc Plating, Add	*16.19*	
05 05 23 00-1281	LF	1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	36.28	1.43
		For Zinc Plating, Add	*16.72*	
05 05 23 00-1282	LF	2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	48.51	1.50
		For Zinc Plating, Add	*22.76*	

05 05 23 00-1283 Nuts And Washers *(05 05 23)*

05 05 23 00-1284 Hex Nuts *(05 05 23 00-1283)*

05 05 23 00-1285 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts *(05 05 23 00-1284)*

05 05 23 00-1286	EA	1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.79	0.36
05 05 23 00-1287	EA	5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.88	0.36
05 05 23 00-1288	EA	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.95	0.36
05 05 23 00-1289	EA	7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.10	0.36
05 05 23 00-1290	EA	1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.19	0.36
05 05 23 00-1291	EA	9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.56	0.36
05 05 23 00-1292	EA	5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.61	0.36
05 05 23 00-1293	EA	3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.91	0.71
05 05 23 00-1294	EA	7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.78	0.71
05 05 23 00-1295	EA	1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	3.53	0.71
05 05 23 00-1296	EA	1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.76	0.71
05 05 23 00-1297	EA	1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	7.04	0.71
05 05 23 00-1298	EA	1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	10.33	0.71
05 05 23 00-1299	EA	1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	11.96	1.08
05 05 23 00-1300	EA	1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	17.54	1.08
05 05 23 00-1301	EA	2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	25.33	1.08

05 05 23 00-1302 Zinc Plated Steel, Grade 5 Hex Nuts *(05 05 23 00-1284)*

05 05 23 00-1303	EA	1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.82	0.36
05 05 23 00-1304	EA	5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.89	0.36
05 05 23 00-1305	EA	3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.98	0.36
05 05 23 00-1306	EA	7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.14	0.36
05 05 23 00-1307	EA	1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.33	0.36
05 05 23 00-1308	EA	9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.60	0.36
05 05 23 00-1309	EA	5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.64	0.36
05 05 23 00-1310	EA	3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.16	0.71
05 05 23 00-1311	EA	7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	3.03	0.71
05 05 23 00-1312	EA	1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	4.27	0.71
05 05 23 00-1313	EA	1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	6.50	0.71
05 05 23 00-1314	EA	1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	9.17	0.71
05 05 23 00-1315	EA	1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	13.45	0.71
05 05 23 00-1316	EA	1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	14.85	1.08

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1317	EA	1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	26.76	1.08
05 05 23 00-1318	EA	2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	38.36	1.08
05 05 23 00-1319		**Zinc Plated Steel, Grade 8 Hex Nuts** *(05 05 23 00-1284)*		
05 05 23 00-1320	EA	1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.83	0.36
05 05 23 00-1321	EA	5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.96	0.36
05 05 23 00-1322	EA	3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.04	0.36
05 05 23 00-1323	EA	7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.30	0.36
05 05 23 00-1324	EA	1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.55	0.36
05 05 23 00-1325	EA	9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.85	0.36
05 05 23 00-1326	EA	5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.10	0.36
05 05 23 00-1327	EA	3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.61	0.71
05 05 23 00-1328	EA	7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.89	0.71
05 05 23 00-1329	EA	1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	5.18	0.71
05 05 23 00-1330	EA	1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	8.10	0.71
05 05 23 00-1331	EA	1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	10.10	0.71
05 05 23 00-1332	EA	1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	16.60	0.71
05 05 23 00-1333	EA	1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	17.62	1.08
05 05 23 00-1334	EA	1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	26.84	1.08
05 05 23 00-1335	EA	2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	37.93	1.08
05 05 23 00-1336		**Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts** *(05 05 23 00-1284)*		
05 05 23 00-1337	EA	1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.83	0.36
05 05 23 00-1338	EA	5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.93	0.36
05 05 23 00-1339	EA	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.01	0.36
05 05 23 00-1340	EA	7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.27	0.36
05 05 23 00-1341	EA	1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.46	0.36
05 05 23 00-1342	EA	9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.62	0.36
05 05 23 00-1343	EA	5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.78	0.36
05 05 23 00-1344	EA	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.38	0.71
05 05 23 00-1345	EA	7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	3.44	0.71
05 05 23 00-1346	EA	1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	4.74	0.71
05 05 23 00-1347	EA	1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	7.84	0.71
05 05 23 00-1348	EA	1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	10.04	0.71
05 05 23 00-1349	EA	1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	14.88	0.71
05 05 23 00-1350	EA	1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	17.35	1.08
05 05 23 00-1351	EA	1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	30.22	1.08
05 05 23 00-1352	EA	2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	52.25	1.08
05 05 23 00-1353		**304 Stainless Steel Hex Nuts** *(05 05 23 00-1284)*		
05 05 23 00-1354	EA	1/4" Diameter, 304 Stainless Steel Hex Nut	0.95	0.36
05 05 23 00-1355	EA	5/16" Diameter, 304 Stainless Steel Hex Nut	1.12	0.36
05 05 23 00-1356	EA	3/8" Diameter, 304 Stainless Steel Hex Nut	1.27	0.36
05 05 23 00-1357	EA	7/16" Diameter, 304 Stainless Steel Hex Nut	1.91	0.36
05 05 23 00-1358	EA	1/2" Diameter, 304 Stainless Steel Hex Nut	2.07	0.36
05 05 23 00-1359	EA	9/16" Diameter, 304 Stainless Steel Hex Nut	3.17	0.36
05 05 23 00-1360	EA	5/8" Diameter, 304 Stainless Steel Hex Nut	3.54	0.36
05 05 23 00-1361	EA	3/4" Diameter, 304 Stainless Steel Hex Nut	4.08	0.71
05 05 23 00-1362	EA	7/8" Diameter, 304 Stainless Steel Hex Nut	6.73	0.71
05 05 23 00-1363	EA	1" Diameter, 304 Stainless Steel Hex Nut	10.32	0.71
05 05 23 00-1364	EA	1-1/4" Diameter, 304 Stainless Steel Hex Nut	24.89	0.71
05 05 23 00-1365	EA	1-1/2" Diameter, 304 Stainless Steel Hex Nut	47.91	1.08
05 05 23 00-1366	EA	1-3/4" Diameter, 304 Stainless Steel Hex Nut	84.33	1.08
05 05 23 00-1367	EA	2" Diameter, 304 Stainless Steel Hex Nut	120.24	1.08
05 05 23 00-1368		**316 Stainless Steel Hex Nuts** *(05 05 23 00-1284)*		
05 05 23 00-1369	EA	1/4" Diameter, 316 Stainless Steel Hex Nut	1.11	0.36
05 05 23 00-1370	EA	5/16" Diameter, 316 Stainless Steel Hex Nut	1.27	0.36
05 05 23 00-1371	EA	3/8" Diameter, 316 Stainless Steel Hex Nut	1.52	0.36
05 05 23 00-1372	EA	7/16" Diameter, 316 Stainless Steel Hex Nut	2.53	0.36
05 05 23 00-1373	EA	1/2" Diameter, 316 Stainless Steel Hex Nut	2.71	0.36
05 05 23 00-1374	EA	9/16" Diameter, 316 Stainless Steel Hex Nut	3.71	0.36
05 05 23 00-1375	EA	5/8" Diameter, 316 Stainless Steel Hex Nut	4.19	0.36
05 05 23 00-1376	EA	3/4" Diameter, 316 Stainless Steel Hex Nut	5.88	0.71
05 05 23 00-1377	EA	7/8" Diameter, 316 Stainless Steel Hex Nut	8.19	0.71
05 05 23 00-1378	EA	1" Diameter, 316 Stainless Steel Hex Nut	12.66	0.71
05 05 23 00-1379	EA	1-1/4" Diameter, 316 Stainless Steel Hex Nut	38.66	0.71
05 05 23 00-1380	EA	1-1/2" Diameter, 316 Stainless Steel Hex Nut	62.58	1.08
05 05 23 00-1381	EA	1-3/4" Diameter, 316 Stainless Steel Hex Nut	105.71	1.08
05 05 23 00-1382	EA	2" Diameter, 316 Stainless Steel Hex Nut	196.62	1.08
05 05 23 00-1383		**Flat Washers** *(05 05 23 00-1283)*		
05 05 23 00-1384		**Zinc Plated Steel, Low Carbon Flat Washers** *(05 05 23 00-1383)*		
05 05 23 00-1385	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.06	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1386	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.09	
05 05 23 00-1387	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.16	
05 05 23 00-1388	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.25	
05 05 23 00-1389	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.35	
05 05 23 00-1390	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.40	
05 05 23 00-1391	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.68	
05 05 23 00-1392	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.98	
05 05 23 00-1393	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.17	
05 05 23 00-1394	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.43	
05 05 23 00-1395	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.62	
05 05 23 00-1396	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.93	
05 05 23 00-1397	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.03	
05 05 23 00-1398	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.11	
05 05 23 00-1399	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	4.60	
05 05 23 00-1400	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	5.72	
05 05 23 00-1401		Zinc Plated Steel, Hardened Flat Washers *(05 05 23 00-1383)*		
05 05 23 00-1402	EA	1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.21	
05 05 23 00-1403	EA	5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.29	
05 05 23 00-1404	EA	3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.33	
05 05 23 00-1405	EA	7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.45	
05 05 23 00-1406	EA	1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.61	
05 05 23 00-1407	EA	9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.98	
05 05 23 00-1408	EA	5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	1.40	
05 05 23 00-1409	EA	3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	1.98	
05 05 23 00-1410	EA	7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	3.30	
05 05 23 00-1411	EA	1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	3.66	
05 05 23 00-1412	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	5.33	
05 05 23 00-1413	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	5.81	
05 05 23 00-1414	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	7.67	
05 05 23 00-1415	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	8.77	
05 05 23 00-1416	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	11.79	
05 05 23 00-1417	EA	2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	14.14	
05 05 23 00-1418		Hot Dipped Galvanized Steel Flat Washers *(05 05 23 00-1383)*		
05 05 23 00-1419	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.14	
05 05 23 00-1420	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.20	
05 05 23 00-1421	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.22	
05 05 23 00-1422	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.41	
05 05 23 00-1423	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.53	
05 05 23 00-1424	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.86	
05 05 23 00-1425	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.96	
05 05 23 00-1426	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	1.46	
05 05 23 00-1427	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	2.06	
05 05 23 00-1428	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	2.26	
05 05 23 00-1429	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	3.46	
05 05 23 00-1430	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	3.85	
05 05 23 00-1431	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	5.50	
05 05 23 00-1432	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	5.96	
05 05 23 00-1433	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	8.64	
05 05 23 00-1434		304/18-8 Stainless Steel Flat Washers *(05 05 23 00-1383)*		
05 05 23 00-1435	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.18	
05 05 23 00-1436	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.24	
05 05 23 00-1437	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.34	
05 05 23 00-1438	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.64	
05 05 23 00-1439	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.16	
05 05 23 00-1440	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.45	
05 05 23 00-1441	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.12	
05 05 23 00-1442	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.16	
05 05 23 00-1443	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.56	
05 05 23 00-1444	EA	1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	5.77	
05 05 23 00-1445	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	6.72	
05 05 23 00-1446	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.24	
05 05 23 00-1447	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.65	
05 05 23 00-1448	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	9.33	
05 05 23 00-1449	EA	1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	11.59	
05 05 23 00-1450	EA	2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	22.77	
05 05 23 00-1451		316 Stainless Steel Flat Washers *(05 05 23 00-1383)*		
05 05 23 00-1452	EA	1/4" Inside Diameter, 316 Stainless Steel Flat Washer	0.35	
05 05 23 00-1453	EA	5/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.39	
05 05 23 00-1454	EA	3/8" Inside Diameter, 316 Stainless Steel Flat Washer	0.69	
05 05 23 00-1455	EA	7/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.81	
05 05 23 00-1456	EA	1/2" Inside Diameter, 316 Stainless Steel Flat Washer	1.50	
05 05 23 00-1457	EA	9/16" Inside Diameter, 316 Stainless Steel Flat Washer	2.70	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1458	EA	5/8" Inside Diameter, 316 Stainless Steel Flat Washer	3.19	
05 05 23 00-1459	EA	3/4" Inside Diameter, 316 Stainless Steel Flat Washer	4.02	
05 05 23 00-1460	EA	7/8" Inside Diameter, 316 Stainless Steel Flat Washer	6.22	
05 05 23 00-1461	EA	1" Inside Diameter, 316 Stainless Steel Flat Washer	6.95	
05 05 23 00-1462	EA	1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer	7.92	
05 05 23 00-1463	EA	1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer	9.75	
05 05 23 00-1464	EA	1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer	10.31	
05 05 23 00-1465	EA	1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer	10.54	
05 05 23 00-1466	EA	1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer	15.45	
05 05 23 00-1467		Lock Washers *(05 05 23 00-1283)*		
05 05 23 00-1468		Zinc Plated Steel, Low Carbon Lock Washers *(05 05 23 00-1467)*		
05 05 23 00-1469	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.02	
05 05 23 00-1470	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.04	
05 05 23 00-1471	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.06	
05 05 23 00-1472	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.10	
05 05 23 00-1473	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.14	
05 05 23 00-1474	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.23	
05 05 23 00-1475	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.25	
05 05 23 00-1476	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.39	
05 05 23 00-1477	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.65	
05 05 23 00-1478	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.17	
05 05 23 00-1479	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.71	
05 05 23 00-1480	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.62	
05 05 23 00-1481	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.15	
05 05 23 00-1482	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.89	
05 05 23 00-1483	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	8.72	
05 05 23 00-1484	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	9.82	
05 05 23 00-1485		Hot Dipped Galvanized Steel Lock Washers *(05 05 23 00-1467)*		
05 05 23 00-1486	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.11	
05 05 23 00-1487	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.13	
05 05 23 00-1488	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.17	
05 05 23 00-1489	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.18	
05 05 23 00-1490	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.29	
05 05 23 00-1491	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.38	
05 05 23 00-1492	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.45	
05 05 23 00-1493	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.75	
05 05 23 00-1494	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.08	
05 05 23 00-1495	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.71	
05 05 23 00-1496	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.10	
05 05 23 00-1497	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.69	
05 05 23 00-1498	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.33	
05 05 23 00-1499	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	6.10	
05 05 23 00-1500	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	8.25	
05 05 23 00-1501	EA	2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	11.24	
05 05 23 00-1502		304/18-8 Stainless Steel Lock Washers *(05 05 23 00-1467)*		
05 05 23 00-1503	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.15	
05 05 23 00-1504	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.21	
05 05 23 00-1505	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.30	
05 05 23 00-1506	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.56	
05 05 23 00-1507	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.61	
05 05 23 00-1508	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.49	
05 05 23 00-1509	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.76	
05 05 23 00-1510	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.05	
05 05 23 00-1511	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	3.71	
05 05 23 00-1512	EA	1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	5.23	
05 05 23 00-1513	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	9.13	
05 05 23 00-1514	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	12.15	
05 05 23 00-1515	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	15.45	
05 05 23 00-1516	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	18.54	
05 05 23 00-1517		316 Stainless Steel Lock Washers *(05 05 23 00-1467)*		
05 05 23 00-1518	EA	1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.18	
05 05 23 00-1519	EA	5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.40	
05 05 23 00-1520	EA	3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.47	
05 05 23 00-1521	EA	7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.80	
05 05 23 00-1522	EA	1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.89	
05 05 23 00-1523	EA	9/16" Inside Diameter, 316 Stainless Steel Lock Washer	1.59	
05 05 23 00-1524	EA	5/8" Inside Diameter, 316 Stainless Steel Lock Washer	1.74	
05 05 23 00-1525	EA	3/4" Inside Diameter, 316 Stainless Steel Lock Washer	3.01	
05 05 23 00-1526	EA	7/8" Inside Diameter, 316 Stainless Steel Lock Washer	4.98	
05 05 23 00-1527	EA	1" Inside Diameter, 316 Stainless Steel Lock Washer	6.78	
05 05 23 00-1528	EA	1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	9.46	
05 05 23 00-1529	EA	1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	14.56	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1530	EA	1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	26.07	
05 05 23 00-1531	EA	1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	28.95	
05 05 23 00-1532		Load Indicating Washers *(05 05 23 00-1283)*		
05 05 23 00-1533		A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) *(05 05 23 00-1532)*		
05 05 23 00-1534		Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) *(05 05 23 00-1533)*		
05 05 23 00-1535	EA	1/2", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	2.84	
05 05 23 00-1536	EA	5/8", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.22	
05 05 23 00-1537	EA	3/4", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.47	
05 05 23 00-1538	EA	7/8", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.94	
05 05 23 00-1539	EA	1", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	4.76	
05 05 23 00-1540	EA	1-1/8", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	7.92	
05 05 23 00-1541	EA	1-1/4", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	10.23	
05 05 23 00-1542	EA	1-3/8", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	13.06	
05 05 23 00-1543	EA	1-1/2", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	14.36	
05 05 23 00-1544		Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) *(05 05 23 00-1533)*		
05 05 23 00-1545	EA	1/2", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.60	
05 05 23 00-1546	EA	5/8", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	4.01	
05 05 23 00-1547	EA	3/4", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.90	
05 05 23 00-1548	EA	7/8", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	4.76	
05 05 23 00-1549	EA	1", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	5.64	
05 05 23 00-1550	EA	1-1/8", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	8.50	
05 05 23 00-1551	EA	1-1/4", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	10.70	
05 05 23 00-1552	EA	1-3/8", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	15.23	
05 05 23 00-1553	EA	1-1/2", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	16.75	
05 05 23 00-1554		Beveled Washers *(05 05 23 00-1283)*		
05 05 23 00-1555		Plain Finish, Square Beveled Structural Washers (ASTM F436) *(05 05 23 00-1554)*		
05 05 23 00-1556	EA	1/2", Plain Finish, (ASTM F436) Square Beveled Structural Washer	4.70	
05 05 23 00-1557	EA	5/8", Plain Finish, (ASTM F436) Square Beveled Structural Washer	4.79	
05 05 23 00-1558	EA	3/4", Plain Finish, (ASTM F436) Square Beveled Structural Washer	4.90	
05 05 23 00-1559	EA	7/8", Plain Finish, (ASTM F436) Square Beveled Structural Washer	5.96	
05 05 23 00-1560	EA	1", Plain Finish, (ASTM F436) Square Beveled Structural Washer	6.27	
05 05 23 00-1561		Galvanized, Square Beveled Structural Washers (ASTM F436) *(05 05 23 00-1554)*		
05 05 23 00-1562	EA	1/2", Galvanized, (ASTM F436) Square Beveled Structural Washer	6.76	
05 05 23 00-1563	EA	5/8", Galvanized, (ASTM F436) Square Beveled Structural Washer	7.06	
05 05 23 00-1564	EA	3/4", Galvanized, (ASTM F436) Square Beveled Structural Washer	7.06	
05 05 23 00-1565	EA	7/8", Galvanized, (ASTM F436) Square Beveled Structural Washer	7.46	
05 05 23 00-1566	EA	1", Galvanized, (ASTM F436) Square Beveled Structural Washer	7.94	
05 05 23 00-1567		Drilling In Existing Steel Plates *(05 05 23)*		
05 05 23 00-1568	EA	Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate	24.21	
		For Aluminum, Deduct	*-2.42*	
		For Stainless Steel, Add	*3.03*	
		For >5 To 10, Deduct	*-2.42*	
		For >10 To 25, Deduct	*-6.05*	
		For >25 To 50, Deduct	*-8.47*	
		For >50, Deduct	*-12.11*	
05 05 23 00-1569	EA	>1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate	28.47	
		For Aluminum, Deduct	*-2.85*	
		For Stainless Steel, Add	*3.56*	
		For >5 To 10, Deduct	*-2.85*	
		For >10 To 25, Deduct	*-7.12*	
		For >25 To 50, Deduct	*-9.96*	
		For >50, Deduct	*-14.24*	
05 05 23 00-1570	EA	>7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate	34.17	
		For Aluminum, Deduct	*-3.42*	
		For Stainless Steel, Add	*4.27*	
		For >5 To 10, Deduct	*-3.42*	
		For >10 To 25, Deduct	*-8.54*	
		For >25 To 50, Deduct	*-11.96*	
		For >50, Deduct	*-17.09*	
05 05 23 00-1571	EA	>1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate	39.86	
		For Aluminum, Deduct	*-3.99*	
		For Stainless Steel, Add	*4.98*	
		For >5 To 10, Deduct	*-3.99*	
		For >10 To 25, Deduct	*-9.97*	
		For >25 To 50, Deduct	*-13.95*	
		For >50, Deduct	*-19.93*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1572	EA	>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate	53.39	
		For Aluminum, Deduct	*-5.34*	
		For Stainless Steel, Add	*6.67*	
		For >5 To 10, Deduct	*-5.34*	
		For >10 To 25, Deduct	*-13.35*	
		For >25 To 50, Deduct	*-18.69*	
		For >50, Deduct	*-26.70*	
05 05 23 00-1573	EA	Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate	28.47	
		For Aluminum, Deduct	*-2.85*	
		For Stainless Steel, Add	*3.56*	
		For >5 To 10, Deduct	*-2.85*	
		For >10 To 25, Deduct	*-7.12*	
		For >25 To 50, Deduct	*-9.96*	
		For >50, Deduct	*-14.24*	
05 05 23 00-1574	EA	>1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate	35.59	
		For Aluminum, Deduct	*-3.56*	
		For Stainless Steel, Add	*4.45*	
		For >5 To 10, Deduct	*-3.56*	
		For >10 To 25, Deduct	*-8.90*	
		For >25 To 50, Deduct	*-12.46*	
		For >50, Deduct	*-17.80*	
05 05 23 00-1575	EA	>7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate	42.71	
		For Aluminum, Deduct	*-4.27*	
		For Stainless Steel, Add	*5.34*	
		For >5 To 10, Deduct	*-4.27*	
		For >10 To 25, Deduct	*-10.68*	
		For >25 To 50, Deduct	*-14.95*	
		For >50, Deduct	*-21.36*	
05 05 23 00-1576	EA	>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate	53.39	
		For Aluminum, Deduct	*-5.34*	
		For Stainless Steel, Add	*6.67*	
		For >5 To 10, Deduct	*-5.34*	
		For >10 To 25, Deduct	*-13.35*	
		For >25 To 50, Deduct	*-18.69*	
		For >50, Deduct	*-26.70*	
05 05 23 00-1577	EA	Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate	35.59	
		For Aluminum, Deduct	*-3.56*	
		For Stainless Steel, Add	*4.45*	
		For >5 To 10, Deduct	*-3.56*	
		For >10 To 25, Deduct	*-8.90*	
		For >25 To 50, Deduct	*-12.46*	
		For >50, Deduct	*-17.80*	
05 05 23 00-1578	EA	>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate	46.98	
		For Aluminum, Deduct	*-4.70*	
		For Stainless Steel, Add	*5.87*	
		For >5 To 10, Deduct	*-4.70*	
		For >10 To 25, Deduct	*-11.75*	
		For >25 To 50, Deduct	*-16.44*	
		For >50, Deduct	*-23.49*	
05 05 23 00-1579	EA	>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate	56.95	
		For Aluminum, Deduct	*-5.70*	
		For Stainless Steel, Add	*7.12*	
		For >5 To 10, Deduct	*-5.70*	
		For >10 To 25, Deduct	*-14.24*	
		For >25 To 50, Deduct	*-19.93*	
		For >50, Deduct	*-28.48*	

05 05 23 00-1580 Cutting Existing Steel With Torch *(05 05 23)*

05 05 23 00-1581	LF	Torch Cutting, Milled Steel Up To 1/4" Thick	7.50	

05 05 23 00-1582 Welded Stud Anchors *(05 05 23)*

05 05 23 00-1583	EA	1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors	4.68	
05 05 23 00-1584	EA	2-11/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors	4.78	
05 05 23 00-1585	EA	3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors	4.82	
05 05 23 00-1586	EA	4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors	4.86	
05 05 23 00-1587	EA	1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	4.61	
05 05 23 00-1588	EA	1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	4.86	
05 05 23 00-1589	EA	2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	5.10	
05 05 23 00-1590	EA	2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	5.23	
05 05 23 00-1591	EA	3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	5.36	
05 05 23 00-1592	EA	4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	5.87	
05 05 23 00-1593	EA	5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	6.29	
05 05 23 00-1594	EA	6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	6.62	
05 05 23 00-1595	EA	1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors	5.65	
05 05 23 00-1596	EA	1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	5.68	
05 05 23 00-1597	EA	2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	6.07	
05 05 23 00-1598	EA	2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	6.43	
05 05 23 00-1599	EA	3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	6.87	
05 05 23 00-1600	EA	4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	7.57	
05 05 23 00-1601	EA	5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors	8.01	
05 05 23 00-1602	EA	6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	9.23	
05 05 23 00-1603	EA	8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	11.54	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1604	EA	2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	8.04	
05 05 23 00-1605	EA	3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	8.63	
05 05 23 00-1606	EA	3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	9.10	
05 05 23 00-1607	EA	4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	9.57	
05 05 23 00-1608	EA	4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	9.96	
05 05 23 00-1609	EA	5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	10.32	
05 05 23 00-1610	EA	6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	10.79	
05 05 23 00-1611	EA	6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	12.76	
05 05 23 00-1612	EA	8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	15.48	

05 05 23 00-1613 Welded Shear Stud Connector *(05 05 23)*

05 05 23 00-1614 3/4" Diameter Welded Shear Stud Connector *(05 05 23 00-1613)*

05 05 23 00-1615	EA	3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector	10.30	
05 05 23 00-1616	EA	3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector	10.72	
05 05 23 00-1617	EA	3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector	10.83	
05 05 23 00-1618	EA	3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector	10.88	
05 05 23 00-1619	EA	3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector	11.35	
05 05 23 00-1620	EA	3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector	12.21	
05 05 23 00-1621	EA	3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector	20.57	
05 05 23 00-1622	EA	3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector	13.21	
05 05 23 00-1623	EA	3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector	14.74	
05 05 23 00-1624	EA	3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector	19.29	
05 05 23 00-1625	EA	3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector	19.76	
05 05 23 00-1626	EA	3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector	21.43	
05 05 23 00-1627	EA	3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector	28.42	

05 05 23 00-1628 7/8" Diameter Welded Shear Stud Connector *(05 05 23 00-1613)*

05 05 23 00-1629	EA	7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector	12.38	
05 05 23 00-1630	EA	7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector	13.05	
05 05 23 00-1631	EA	7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector	13.71	
05 05 23 00-1632	EA	7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector	15.63	
05 05 23 00-1633	EA	7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector	20.32	
05 05 23 00-1634	EA	7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector	22.34	
05 05 23 00-1635	EA	7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector	24.34	
05 05 23 00-1636	EA	7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector	29.95	

05 05 23 00-1637 1" Diameter Welded Shear Stud Connector *(05 05 23 00-1613)*

05 05 23 00-1638	EA	1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	16.74	
05 05 23 00-1639	EA	1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	18.79	
05 05 23 00-1640	EA	1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	21.82	
05 05 23 00-1641	EA	1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	27.89	
05 05 23 00-1642	EA	1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	31.06	
05 05 23 00-1643	EA	1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	34.22	

05 10 Structural Metal Framing *(05)*

05 12 Structural Steel Framing *(05 10)*

05 12 23 Structural Steel for Buildings *(05 12)*

See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0131 for field fabrication of additional structural metal connections.

05 12 23 00-0001 Rolled Steel Members *(05 12 23)*

Note: Prices by Ton (or Lb.) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0131 for field fabrication of additional structural metal connections.

05 12 23 00-0002 Beams, Girders And Columns *(05 12 23 00-0001)*

Note: For one and two story I beams and W shapes and HP shapes.

05 12 23 00-0003	TON	Up To 30 Lb./LF Beams, Girders And Columns	11,457.22	1,439.30
		For ASTM A242 Type 2 High Strength Steel, Add	*678.37*	
		For Hot Dip Galvanizing, Add	*2,374.29*	
		For >10 To 25 Tons, Deduct	*-720.77*	
		For >25 To 50 Tons, Deduct	*-1,483.93*	
		For >50 To 75 Tons, Deduct	*-2,119.90*	
		For >75 Tons, Deduct	*-1,059.95*	
05 12 23 00-0004	TON	>30-65 Lb./LF Beams, Girders And Columns	7,951.83	930.41
		For ASTM A242 Type 2 High Strength Steel, Add	*556.74*	
		For Hot Dip Galvanizing, Add	*1,948.60*	
		For >10 To 25 Tons, Deduct	*-591.54*	
		For >25 To 50 Tons, Deduct	*-1,217.88*	
		For >50 To 75 Tons, Deduct	*-1,739.82*	
		For >75 Tons, Deduct	*-869.91*	

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MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0005	TON >65-100 Lb./LF Beams, Girders And Columns	6,736.64	523.41
	For ASTM A242 Type 2 High Strength Steel, Add	*494.27*	
	For Hot Dip Galvanizing, Add	*1,729.94*	
	For >10 To 25 Tons, Deduct	*-525.16*	
	For >25 To 50 Tons, Deduct	*-1,081.21*	
	For >50 To 75 Tons, Deduct	*-1,544.59*	
	For >75 Tons, Deduct	*-772.29*	
05 12 23 00-0006	TON >100-300 Lb./LF Beams, Girders And Columns	4,521.38	278.60
	For ASTM A242 Type 2 High Strength Steel, Add	*337.89*	
	For Hot Dip Galvanizing, Add	*1,182.61*	
	For >10 To 25 Tons, Deduct	*-359.01*	
	For >25 To 50 Tons, Deduct	*-739.13*	
	For >50 To 75 Tons, Deduct	*-1,055.91*	
	For >75 Tons, Deduct	*-527.95*	
05 12 23 00-0007	**Trusses, Built-Up** *(05 12 23 00-0001)*		
05 12 23 00-0008	TON Built-Up Trusses, Rolled Structural Steel Members	8,437.21	978.85
	For ASTM A242 Type 2 High Strength Steel, Add	*591.49*	
	For Hot Dip Galvanizing, Add	*2,070.22*	
	For >10 To 25 Tons, Deduct	*-628.46*	
	For >25 To 50 Tons, Deduct	*-1,293.89*	
	For >50 To 75 Tons, Deduct	*-1,848.42*	
	For >75 Tons, Deduct	*-924.21*	
05 12 23 00-0009	**Shapes** *(05 12 23 00-0001)*		
05 12 23 00-0010	**Rolled Shape Steel Angles** *(05 12 23 00-0009)*		
05 12 23 00-0011	TON Up To 10 Lb./LF Rolled Shape Steel Angles	16,705.19	2,675.66
	For ASTM A242 Type 2 High Strength Steel, Add	*979.66*	
	For Hot Dip Galvanizing, Add	*3,428.81*	
	For >10 To 25 Tons, Deduct	*-1,040.89*	
	For >25 To 50 Tons, Deduct	*-2,143.00*	
	For >50 To 75 Tons, Deduct	*-3,061.44*	
	For >75 Tons, Deduct	*-1,530.72*	
05 12 23 00-0012	TON >10 To 20 Lb./LF Rolled Shape Steel Angles	14,691.93	1,570.22
	For ASTM A242 Type 2 High Strength Steel, Add	*937.15*	
	For Hot Dip Galvanizing, Add	*3,280.01*	
	For >10 To 25 Tons, Deduct	*-995.72*	
	For >25 To 50 Tons, Deduct	*-2,050.01*	
	For >50 To 75 Tons, Deduct	*-2,928.58*	
	For >75 Tons, Deduct	*-1,464.29*	
05 12 23 00-0013	TON >20 To 58 Lb./LF Rolled Shape Steel Angles	11,297.29	930.41
	For ASTM A242 Type 2 High Strength Steel, Add	*824.39*	
	For Hot Dip Galvanizing, Add	*2,885.37*	
	For >10 To 25 Tons, Deduct	*-875.92*	
	For >25 To 50 Tons, Deduct	*-1,803.36*	
	For >50 To 75 Tons, Deduct	*-2,576.23*	
	For >75 Tons, Deduct	*-1,288.11*	
05 12 23 00-0014	**Rolled C, MC Steel Channels** *(05 12 23 00-0009)*		
05 12 23 00-0015	TON Up To 10 Lb./LF Rolled C, MC Steel Channels	18,196.10	3,663.87
	For ASTM A242 Type 2 High Strength Steel, Add	*964.87*	
	For Hot Dip Galvanizing, Add	*3,377.05*	
	For >10 To 25 Tons, Deduct	*-1,025.18*	
	For >25 To 50 Tons, Deduct	*-2,110.66*	
	For >50 To 75 Tons, Deduct	*-3,015.23*	
	For >75 Tons, Deduct	*-1,507.61*	
05 12 23 00-0016	TON >10 To 20 Rolled C, MC Steel Channels	14,530.20	2,791.51
	For ASTM A242 Type 2 High Strength Steel, Add	*924.21*	
	For Hot Dip Galvanizing, Add	*3,234.73*	
	For >10 To 25 Tons, Deduct	*-981.97*	
	For >25 To 50 Tons, Deduct	*-2,021.70*	
	For >50 To 75 Tons, Deduct	*-2,888.15*	
	For >75 Tons, Deduct	*-1,444.07*	
05 12 23 00-0017	TON >20 To 58 Lb./LF Rolled C, MC Steel Channels	11,112.45	930.41
	For ASTM A242 Type 2 High Strength Steel, Add	*809.61*	
	For Hot Dip Galvanizing, Add	*2,833.62*	
	For >10 To 25 Tons, Deduct	*-860.21*	
	For >25 To 50 Tons, Deduct	*-1,771.01*	
	For >50 To 75 Tons, Deduct	*-2,530.02*	
	For >75 Tons, Deduct	*-1,265.01*	
05 12 23 00-0018	**Double L Shape Steel Angles** *(05 12 23 00-0009)*		
05 12 23 00-0019	TON Up To 20 Lb./LF Double L Shape Steel Angles	15,499.85	2,122.94
	For ASTM A242 Type 2 High Strength Steel, Add	*942.69*	
	For Hot Dip Galvanizing, Add	*3,299.42*	
	For >10 To 25 Tons, Deduct	*-1,001.61*	
	For >25 To 50 Tons, Deduct	*-2,062.14*	
	For >50 To 75 Tons, Deduct	*-2,945.91*	
	For >75 Tons, Deduct	*-1,472.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0020	TON	>20 To 50 Lb./LF Double L Shape Steel Angles	12,082.86	930.41
		For ASTM A242 Type 2 High Strength Steel, Add	*887.24*	
		For Hot Dip Galvanizing, Add	*3,105.33*	
		For >10 To 25 Tons, Deduct	*-942.69*	
		For >25 To 50 Tons, Deduct	*-1,940.83*	
		For >50 To 75 Tons, Deduct	*-2,772.62*	
		For >75 Tons, Deduct	*-1,386.31*	
05 12 23 00-0021	TON	>50 To 80 Lb./LF Double L Shape Steel Angles	9,107.22	523.41
		For ASTM A242 Type 2 High Strength Steel, Add	*683.91*	
		For Hot Dip Galvanizing, Add	*2,393.70*	
		For >10 To 25 Tons, Deduct	*-726.66*	
		For >25 To 50 Tons, Deduct	*-1,496.06*	
		For >50 To 75 Tons, Deduct	*-2,137.23*	
		For >75 Tons, Deduct	*-1,068.62*	
05 12 23 00-0022	TON	>80 To 115 Lb./LF Double L Shape Steel Angles	5,842.53	279.01
		For ASTM A242 Type 2 High Strength Steel, Add	*443.62*	
		For Hot Dip Galvanizing, Add	*1,552.67*	
		For >10 To 25 Tons, Deduct	*-471.35*	
		For >25 To 50 Tons, Deduct	*-970.42*	
		For >50 To 75 Tons, Deduct	*-1,386.31*	
		For >75 Tons, Deduct	*-693.16*	

05 12 23 00-0023 Structural WT, MT, ST Tee Shapes *(05 12 23 00-0001)*

05 12 23 00-0024	TON	Up To 30 Lb./LF Structural WT, MT, ST Tee Shapes	14,068.09	1,570.22
		For ASTM A242 Type 2 High Strength Steel, Add	*887.24*	
		For Hot Dip Galvanizing, Add	*3,105.33*	
		For >10 To 25 Tons, Deduct	*-942.69*	
		For >25 To 50 Tons, Deduct	*-1,940.83*	
		For >50 To 75 Tons, Deduct	*-2,772.62*	
		For >75 Tons, Deduct	*-1,386.31*	
05 12 23 00-0025	TON	>30 To 65 Lb./LF Structural WT, MT, ST Tee Shapes	9,472.14	930.41
		For ASTM A242 Type 2 High Strength Steel, Add	*678.37*	
		For Hot Dip Galvanizing, Add	*2,374.29*	
		For >10 To 25 Tons, Deduct	*-720.77*	
		For >25 To 50 Tons, Deduct	*-1,483.93*	
		For >50 To 75 Tons, Deduct	*-2,119.90*	
		For >75 Tons, Deduct	*-1,059.95*	
05 12 23 00-0026	TON	>65 To 100 Lb./LF Structural WT, MT, ST Tee Shapes	7,489.85	523.41
		For ASTM A242 Type 2 High Strength Steel, Add	*554.52*	
		For Hot Dip Galvanizing, Add	*1,940.83*	
		For >10 To 25 Tons, Deduct	*-589.18*	
		For >25 To 50 Tons, Deduct	*-1,213.02*	
		For >50 To 75 Tons, Deduct	*-1,732.89*	
		For >75 Tons, Deduct	*-866.44*	
05 12 23 00-0027	TON	>100 To 365 Lb./LF Structural WT, MT, ST Tee Shapes	5,519.53	278.60
		For ASTM A242 Type 2 High Strength Steel, Add	*417.74*	
		For Hot Dip Galvanizing, Add	*1,462.10*	
		For >10 To 25 Tons, Deduct	*-443.85*	
		For >25 To 50 Tons, Deduct	*-913.81*	
		For >50 To 75 Tons, Deduct	*-1,305.44*	
		For >75 Tons, Deduct	*-652.72*	

05 12 23 00-0028 Combination Section Shapes *(05 12 23 00-0001)*

05 12 23 00-0029 Combination Section, W Shapes And Angles *(05 12 23 00-0028)*

05 12 23 00-0030	TON	Up To 30 Lb./LF Combination Section - W Shapes And Angles	13,351.83	1,570.22
		For ASTM A242 Type 2 High Strength Steel, Add	*829.94*	
		For Hot Dip Galvanizing, Add	*2,904.78*	
		For >10 To 25 Tons, Deduct	*-881.81*	
		For >25 To 50 Tons, Deduct	*-1,815.49*	
		For >50 To 75 Tons, Deduct	*-2,593.56*	
		For >75 Tons, Deduct	*-1,296.78*	
05 12 23 00-0031	TON	>30-65 Lb./LF Combination Section - W Shapes And Angles	9,541.47	930.41
		For ASTM A242 Type 2 High Strength Steel, Add	*683.91*	
		For Hot Dip Galvanizing, Add	*2,393.70*	
		For >10 To 25 Tons, Deduct	*-726.66*	
		For >25 To 50 Tons, Deduct	*-1,496.06*	
		For >50 To 75 Tons, Deduct	*-2,137.23*	
		For >75 Tons, Deduct	*-1,068.62*	
05 12 23 00-0032	TON	>65-100 Lb./LF Combination Section - W Shapes And Angles	6,912.22	523.41
		For ASTM A242 Type 2 High Strength Steel, Add	*508.31*	
		For Hot Dip Galvanizing, Add	*1,779.10*	
		For >10 To 25 Tons, Deduct	*-540.08*	
		For >25 To 50 Tons, Deduct	*-1,111.94*	
		For >50 To 75 Tons, Deduct	*-1,588.48*	
		For >75 Tons, Deduct	*-794.24*	
05 12 23 00-0033	TON	>100-300 Lb./LF Combination Section - W Shapes And Angles	5,981.17	278.60
		For ASTM A242 Type 2 High Strength Steel, Add	*454.71*	
		For Hot Dip Galvanizing, Add	*1,591.49*	
		For >10 To 25 Tons, Deduct	*-483.13*	
		For >25 To 50 Tons, Deduct	*-994.68*	
		For >50 To 75 Tons, Deduct	*-1,420.97*	
		For >75 Tons, Deduct	*-710.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0034	TON	>300-500 Lb./LF Combination Section - W Shapes And Angles	5,162.72	139.86
		For ASTM A242 Type 2 High Strength Steel, Add	*401.11*	
		For Hot Dip Galvanizing, Add	*1,403.88*	
		For >10 To 25 Tons, Deduct	*-426.18*	
		For >25 To 50 Tons, Deduct	*-877.42*	
		For >50 To 75 Tons, Deduct	*-1,253.46*	
		For >75 Tons, Deduct	*-626.73*	

05 12 23 00-0035 Combination Section, S Shapes And Angles *(05 12 23 00-0028)*

05 12 23 00-0036	TON	>30-65 Lb./LF Combination Section - S Shapes And Angles	9,171.77	930.41
		For ASTM A242 Type 2 High Strength Steel, Add	*654.34*	
		For Hot Dip Galvanizing, Add	*2,290.18*	
		For >10 To 25 Tons, Deduct	*-695.23*	
		For >25 To 50 Tons, Deduct	*-1,431.37*	
		For >50 To 75 Tons, Deduct	*-2,044.81*	
		For >75 Tons, Deduct	*-1,022.40*	
05 12 23 00-0037	TON	>65-100 Lb./LF Combination Section - S Shapes And Angles	6,935.33	523.41
		For ASTM A242 Type 2 High Strength Steel, Add	*510.16*	
		For Hot Dip Galvanizing, Add	*1,785.57*	
		For >10 To 25 Tons, Deduct	*-542.05*	
		For >25 To 50 Tons, Deduct	*-1,115.98*	
		For >50 To 75 Tons, Deduct	*-1,594.26*	
		For >75 Tons, Deduct	*-797.13*	

05 12 23 00-0038 Combination Section, Channels And Angles *(05 12 23 00-0028)*

05 12 23 00-0039	TON	Up To 30 Lb./LF Combination Section - Channels And Angles	14,068.09	1,570.22
		For ASTM A242 Type 2 High Strength Steel, Add	*887.24*	
		For Hot Dip Galvanizing, Add	*3,105.33*	
		For >10 To 25 Tons, Deduct	*-942.69*	
		For >25 To 50 Tons, Deduct	*-1,940.83*	
		For >50 To 75 Tons, Deduct	*-2,772.62*	
		For >75 Tons, Deduct	*-1,386.31*	
05 12 23 00-0040	TON	>30-65 Lb./LF Combination Section - Channels And Angles	10,003.56	930.41
		For ASTM A242 Type 2 High Strength Steel, Add	*720.88*	
		For Hot Dip Galvanizing, Add	*2,523.09*	
		For >10 To 25 Tons, Deduct	*-765.94*	
		For >25 To 50 Tons, Deduct	*-1,576.93*	
		For >50 To 75 Tons, Deduct	*-2,252.76*	
		For >75 Tons, Deduct	*-1,126.38*	
05 12 23 00-0041	TON	>65-100 Lb./LF Combination Section - Channels And Angles	7,097.06	523.41
		For ASTM A242 Type 2 High Strength Steel, Add	*523.10*	
		For Hot Dip Galvanizing, Add	*1,830.85*	
		For >10 To 25 Tons, Deduct	*-555.79*	
		For >25 To 50 Tons, Deduct	*-1,144.28*	
		For >50 To 75 Tons, Deduct	*-1,634.69*	
		For >75 Tons, Deduct	*-817.35*	

05 12 23 00-0042 Standard Weight Pipe *(05 12 23 00-0001)*

05 12 23 00-0043	TON	1/2" To 5" Diameter Standard Weight Pipe	8,102.11	837.46
		For ASTM A242 Type 2 High Strength Steel, Add	*576.71*	
		For Hot Dip Galvanizing, Add	*2,018.47*	
		For >10 To 25 Tons, Deduct	*-612.75*	
		For >25 To 50 Tons, Deduct	*-1,261.54*	
		For >50 To 75 Tons, Deduct	*-1,802.21*	
		For >75 Tons, Deduct	*-901.10*	
05 12 23 00-0044	TON	>5" To 12" Diameter Standard Weight Pipe	8,648.89	1,046.82
		For ASTM A242 Type 2 High Strength Steel, Add	*602.58*	
		For Hot Dip Galvanizing, Add	*2,109.04*	
		For >10 To 25 Tons, Deduct	*-640.24*	
		For >25 To 50 Tons, Deduct	*-1,318.15*	
		For >50 To 75 Tons, Deduct	*-1,883.07*	
		For >75 Tons, Deduct	*-941.54*	

05 12 23 00-0045 Temporary Steel Support For Structures *(05 12 23 00-0001)*

Note: Includes removal after use.

05 12 23 00-0046	TON	Up To 30 Lb./LF Temporary Steel Support For Structures	11,457.22
		Note: For all stock sections.	
05 12 23 00-0047	TON	>30 Lb./LF Temporary Steel Support For Structures	7,951.83
		Note: For all stock sections.	

05 12 23 00-0048 Structural Steel Shapes *(05 12 23)*

Note: Prices by Ton (or Lb.) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0131 for field fabrication of additional structural metal connections.

05 12 23 00-0049 Steel Rods *(05 12 23 00-0048)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0050	TON	1/2" To 5" Diameter Extra Strong Steel, Solid	8,738.48	654.33
		For ASTM A242 Type 2 High Strength Steel, Add	*643.25*	
		For Hot Dip Galvanizing, Add	*2,251.37*	
		For >10 To 25 Tons, Deduct	*-683.45*	
		For >25 To 50 Tons, Deduct	*-1,407.11*	
		For >50 To 75 Tons, Deduct	*-2,010.15*	
		For >75 Tons, Deduct	*-1,005.08*	
05 12 23 00-0051	TON	>5" To 12" Diameter Extra Strong Steel, Solid	10,003.56	930.41
		For ASTM A242 Type 2 High Strength Steel, Add	*720.88*	
		For Hot Dip Galvanizing, Add	*2,523.09*	
		For >10 To 25 Tons, Deduct	*-765.94*	
		For >25 To 50 Tons, Deduct	*-1,576.93*	
		For >50 To 75 Tons, Deduct	*-2,252.76*	
		For >75 Tons, Deduct	*-1,126.38*	
05 12 23 00-0052		**Column Base Plates** *(05 12 23 00-0048)*		
05 12 23 00-0053	LB	Column Base Plates, Up To 150 Lb. / Each, A36 Miscellaneous Steel Items	4.36	0.84
		For ASTM A242 Type 2 High Strength Steel, Add	*0.28*	
		For Hot Dip Galvanizing, Add	*0.97*	
05 12 23 00-0054	LB	Column Base Plates, >150 Lb. / Each, A36 Miscellaneous Steel Items	4.09	0.71
		For ASTM A242 Type 2 High Strength Steel, Add	*0.26*	
		For Hot Dip Galvanizing, Add	*0.92*	
05 12 23 00-0055	TON	Column Base Plates, Up To 150 Lb. Each, A36 Miscellaneous Steel Items	7,945.72	748.52
		For ASTM A242 Type 2 High Strength Steel, Add	*571.78*	
		For Hot Dip Galvanizing, Add	*2,001.24*	
		For >10 To 25 Tons, Deduct	*-607.52*	
		For >25 To 50 Tons, Deduct	*-1,250.78*	
		For >50 To 75 Tons, Deduct	*-1,786.83*	
		For >75 Tons, Deduct	*-893.41*	
05 12 23 00-0056	TON	Column Base Plates, >150 Lb. Each, A36 Miscellaneous Steel Items	5,648.61	449.11
		For ASTM A242 Type 2 High Strength Steel, Add	*413.56*	
		For Hot Dip Galvanizing, Add	*1,447.47*	
		For >10 To 25 Tons, Deduct	*-439.41*	
		For >25 To 50 Tons, Deduct	*-904.67*	
		For >50 To 75 Tons, Deduct	*-1,292.39*	
		For >75 Tons, Deduct	*-646.19*	
05 12 23 00-0057		**Double Extra Strong Pipes** *(05 12 23 00-0048)*		
05 12 23 00-0058	TON	2" To 5" Diameter Double Extra Strong Pipe	10,471.98	1,196.30
		For ASTM A242 Type 2 High Strength Steel, Add	*735.67*	
		For Hot Dip Galvanizing, Add	*2,574.84*	
		For >10 To 25 Tons, Deduct	*-781.65*	
		For >25 To 50 Tons, Deduct	*-1,609.28*	
		For >50 To 75 Tons, Deduct	*-2,298.97*	
		For >75 Tons, Deduct	*-1,149.48*	
05 12 23 00-0059	TON	>5" To 8" Diameter Double Extra Strong Pipe	9,883.00	644.14
		For ASTM A242 Type 2 High Strength Steel, Add	*735.67*	
		For Hot Dip Galvanizing, Add	*2,574.84*	
		For >10 To 25 Tons, Deduct	*-781.65*	
		For >25 To 50 Tons, Deduct	*-1,609.28*	
		For >50 To 75 Tons, Deduct	*-2,298.97*	
		For >75 Tons, Deduct	*-1,149.48*	
05 12 23 00-0060		**Structural Pipes** *(05 12 23 00-0048)*		
05 12 23 00-0061	TON	3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items	7,319.87	552.72
		For ASTM A242 Type 2 High Strength Steel, Add	*517.56*	
		For Hot Dip Galvanizing, Add	*1,811.45*	
		For >10 To 25 Tons, Deduct	*-549.90*	
		For >25 To 50 Tons, Deduct	*-1,132.15*	
		For >50 To 75 Tons, Deduct	*-1,617.36*	
		For >75 Tons, Deduct	*-808.68*	
05 12 23 00-0062	TON	>5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items	7,875.75	637.45
		For ASTM A242 Type 2 High Strength Steel, Add	*517.56*	
		For Hot Dip Galvanizing, Add	*1,811.45*	
		For >10 To 25 Tons, Deduct	*-549.90*	
		For >25 To 50 Tons, Deduct	*-1,132.15*	
		For >50 To 75 Tons, Deduct	*-1,617.36*	
		For >75 Tons, Deduct	*-808.68*	
05 12 23 00-0063		**Structural Tubing** *(05 12 23 00-0048)*		
05 12 23 00-0064		**Rectangle Structural Tubing** *(05 12 23 00-0063)*		
05 12 23 00-0065	TON	3" x 2" Weight Range 5-7 Lb./LF Structural Tubing - Rectangle	12,148.11	558.30
		For ASTM A242 Type 2 High Strength Steel, Add	*924.21*	
		For Hot Dip Galvanizing, Add	*3,234.73*	
		For >10 To 25 Tons, Deduct	*-981.97*	
		For >25 To 50 Tons, Deduct	*-2,021.70*	
		For >50 To 75 Tons, Deduct	*-2,888.15*	
		For >75 Tons, Deduct	*-1,444.07*	

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MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0066	TON 4" x 3", 2" Weight Range 6-13 Lb./LF Structural Tubing - Rectangle	12,239.73	644.14
	For ASTM A242 Type 2 High Strength Steel, Add	*924.21*	
	For Hot Dip Galvanizing, Add	*3,234.73*	
	For >10 To 25 Tons, Deduct	*-981.97*	
	For >25 To 50 Tons, Deduct	*-2,021.70*	
	For >50 To 75 Tons, Deduct	*-2,888.15*	
	For >75 Tons, Deduct	*-1,444.07*	
05 12 23 00-0067	TON 5" x 4", 3", 2" Weight Range 8-20 Lb./LF Structural Tubing - Rectangle	10,679.63	697.88
	For ASTM A242 Type 2 High Strength Steel, Add	*794.82*	
	For Hot Dip Galvanizing, Add	*2,781.86*	
	For >10 To 25 Tons, Deduct	*-844.49*	
	For >25 To 50 Tons, Deduct	*-1,738.67*	
	For >50 To 75 Tons, Deduct	*-2,483.81*	
	For >75 Tons, Deduct	*-1,241.90*	
05 12 23 00-0068	TON 6" x 4", 3", 2" Weight Range 9-29 Lb./LF Structural Tubing - Rectangle	10,135.36	837.46
	For ASTM A242 Type 2 High Strength Steel, Add	*739.37*	
	For Hot Dip Galvanizing, Add	*2,587.78*	
	For >10 To 25 Tons, Deduct	*-785.58*	
	For >25 To 50 Tons, Deduct	*-1,617.36*	
	For >50 To 75 Tons, Deduct	*-2,310.52*	
	For >75 Tons, Deduct	*-1,155.26*	
05 12 23 00-0069	TON 7" x 5", 4", 3" Weight Range 12-35 Lb./LF Structural Tubing - Rectangle	9,964.44	930.41
	For ASTM A242 Type 2 High Strength Steel, Add	*717.75*	
	For Hot Dip Galvanizing, Add	*2,512.13*	
	For >10 To 25 Tons, Deduct	*-762.61*	
	For >25 To 50 Tons, Deduct	*-1,570.08*	
	For >50 To 75 Tons, Deduct	*-2,242.98*	
	For >75 Tons, Deduct	*-1,121.49*	
05 12 23 00-0070	TON 8" x 6", 4", 3", 2" Weight Range 11-42 Lb./LF Structural Tubing - Rectangle	10,133.84	1,287.58
	For ASTM A242 Type 2 High Strength Steel, Add	*700.83*	
	For Hot Dip Galvanizing, Add	*2,452.91*	
	For >10 To 25 Tons, Deduct	*-744.63*	
	For >25 To 50 Tons, Deduct	*-1,533.07*	
	For >50 To 75 Tons, Deduct	*-2,190.10*	
	For >75 Tons, Deduct	*-1,095.05*	
05 12 23 00-0071	TON 10" x 6", 4", 2" Weight Range 15-50 Lb./LF Structural Tubing - Rectangle	10,549.38	1,702.13
	For ASTM A242 Type 2 High Strength Steel, Add	*698.70*	
	For Hot Dip Galvanizing, Add	*2,445.45*	
	For >10 To 25 Tons, Deduct	*-742.37*	
	For >25 To 50 Tons, Deduct	*-1,528.41*	
	For >50 To 75 Tons, Deduct	*-2,183.44*	
	For >75 Tons, Deduct	*-1,091.72*	
05 12 23 00-0072	TON 12" x 6", 4", 2" Weight Range 17-76 Lb./LF Structural Tubing - Rectangle	10,809.49	1,859.29
	For ASTM A242 Type 2 High Strength Steel, Add	*706.09*	
	For Hot Dip Galvanizing, Add	*2,471.33*	
	For >10 To 25 Tons, Deduct	*-750.23*	
	For >25 To 50 Tons, Deduct	*-1,544.58*	
	For >50 To 75 Tons, Deduct	*-2,206.55*	
	For >75 Tons, Deduct	*-1,103.27*	
05 12 23 00-0073	TON 14" x 10", 6", 4" Weight Range 29-76 Lb./LF Structural Tubing - Rectangle	11,059.39	2,093.63
	For ASTM A242 Type 2 High Strength Steel, Add	*706.09*	
	For Hot Dip Galvanizing, Add	*2,471.33*	
	For >10 To 25 Tons, Deduct	*-750.23*	
	For >25 To 50 Tons, Deduct	*-1,544.58*	
	For >50 To 75 Tons, Deduct	*-2,206.55*	
	For >75 Tons, Deduct	*-1,103.27*	
05 12 23 00-0074	TON 16" x 12", 8", 4" Weight Range 40-90 Lb./LF Structural Tubing - Rectangle	11,711.37	2,791.51
	For ASTM A242 Type 2 High Strength Steel, Add	*698.70*	
	For Hot Dip Galvanizing, Add	*2,445.45*	
	For >10 To 25 Tons, Deduct	*-742.37*	
	For >25 To 50 Tons, Deduct	*-1,528.41*	
	For >50 To 75 Tons, Deduct	*-2,183.44*	
	For >75 Tons, Deduct	*-1,091.72*	
05 12 23 00-0075	TON 18" x 6", 4" Weight Range 48-76 Lb./LF Structural Tubing - Rectangle	13,194.32	4,398.45
	For ASTM A242 Type 2 High Strength Steel, Add	*680.22*	
	For Hot Dip Galvanizing, Add	*2,380.76*	
	For >10 To 25 Tons, Deduct	*-722.73*	
	For >25 To 50 Tons, Deduct	*-1,487.97*	
	For >50 To 75 Tons, Deduct	*-2,125.68*	
	For >75 Tons, Deduct	*-1,062.84*	
05 12 23 00-0076	TON 20" x 12", 8", 4" Weight Range 48-105 Lb./LF Structural Tubing - Rectangle	14,969.19	6,422.30
	For ASTM A242 Type 2 High Strength Steel, Add	*649.51*	
	For Hot Dip Galvanizing, Add	*2,273.28*	
	For >10 To 25 Tons, Deduct	*-690.10*	
	For >25 To 50 Tons, Deduct	*-1,420.80*	
	For >50 To 75 Tons, Deduct	*-2,029.71*	
	For >75 Tons, Deduct	*-1,014.86*	
05 12 23 00-0077	Square Structural Tubing *(05 12 23 00-0063)*		
05 12 23 00-0078	TON 2" x 2" Weight Range 4-6 Lb./LF Structural Tubing - Square	12,110.89	523.41
	For ASTM A242 Type 2 High Strength Steel, Add	*924.21*	
	For Hot Dip Galvanizing, Add	*3,234.73*	
	For >10 To 25 Tons, Deduct	*-981.97*	
	For >25 To 50 Tons, Deduct	*-2,021.70*	
	For >50 To 75 Tons, Deduct	*-2,888.15*	
	For >75 Tons, Deduct	*-1,444.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0079	TON	2.5" x 2.5" Weight Range 5-8 Lb./LF Structural Tubing - Square	12,148.11	558.30
		For ASTM A242 Type 2 High Strength Steel, Add	*924.21*	
		For Hot Dip Galvanizing, Add	*3,234.73*	
		For >10 To 25 Tons, Deduct	*-981.97*	
		For >25 To 50 Tons, Deduct	*-2,021.70*	
		For >50 To 75 Tons, Deduct	*-2,888.15*	
		For >75 Tons, Deduct	*-1,444.07*	
05 12 23 00-0080	TON	3" x 3" Weight Range 6-11 Lb./LF Structural Tubing - Square	10,910.68	697.88
		For ASTM A242 Type 2 High Strength Steel, Add	*813.30*	
		For Hot Dip Galvanizing, Add	*2,846.56*	
		For >10 To 25 Tons, Deduct	*-864.13*	
		For >25 To 50 Tons, Deduct	*-1,779.10*	
		For >50 To 75 Tons, Deduct	*-2,541.57*	
		For >75 Tons, Deduct	*-1,270.79*	
05 12 23 00-0081	TON	3.5" x 3.5" Weight Range 8-13 Lb./LF Structural Tubing - Square	10,828.52	837.46
		For ASTM A242 Type 2 High Strength Steel, Add	*794.82*	
		For Hot Dip Galvanizing, Add	*2,781.86*	
		For >10 To 25 Tons, Deduct	*-844.49*	
		For >25 To 50 Tons, Deduct	*-1,738.67*	
		For >50 To 75 Tons, Deduct	*-2,483.81*	
		For >75 Tons, Deduct	*-1,241.90*	
05 12 23 00-0082	TON	4" x 4" Weight Range 10-22 Lb./LF Structural Tubing - Square	8,695.10	1,046.82
		For ASTM A242 Type 2 High Strength Steel, Add	*606.28*	
		For Hot Dip Galvanizing, Add	*2,121.98*	
		For >10 To 25 Tons, Deduct	*-644.17*	
		For >25 To 50 Tons, Deduct	*-1,326.24*	
		For >50 To 75 Tons, Deduct	*-1,894.63*	
		For >75 Tons, Deduct	*-947.31*	
05 12 23 00-0083	TON	5" x 5" Weight Range 12-30 Lb./LF Structural Tubing - Square	8,854.62	1,196.30
		For ASTM A242 Type 2 High Strength Steel, Add	*606.28*	
		For Hot Dip Galvanizing, Add	*2,121.98*	
		For >10 To 25 Tons, Deduct	*-644.17*	
		For >25 To 50 Tons, Deduct	*-1,326.24*	
		For >50 To 75 Tons, Deduct	*-1,894.63*	
		For >75 Tons, Deduct	*-947.31*	
05 12 23 00-0084	TON	6" x 6" Weight Range 15-35 Lb./LF Structural Tubing - Square	9,365.07	1,674.91
		For ASTM A242 Type 2 High Strength Steel, Add	*606.28*	
		For Hot Dip Galvanizing, Add	*2,121.98*	
		For >10 To 25 Tons, Deduct	*-644.17*	
		For >25 To 50 Tons, Deduct	*-1,326.24*	
		For >50 To 75 Tons, Deduct	*-1,894.63*	
		For >75 Tons, Deduct	*-947.31*	
05 12 23 00-0085	TON	7" x 7" Weight Range 17-42 Lb./LF Structural Tubing - Square	9,950.34	2,093.63
		For ASTM A242 Type 2 High Strength Steel, Add	*617.37*	
		For Hot Dip Galvanizing, Add	*2,160.80*	
		For >10 To 25 Tons, Deduct	*-655.96*	
		For >25 To 50 Tons, Deduct	*-1,350.50*	
		For >50 To 75 Tons, Deduct	*-1,929.28*	
		For >75 Tons, Deduct	*-964.64*	
05 12 23 00-0086	TON	8" x 8" Weight Range 20-60 Lb./LF Structural Tubing - Square	11,942.42	2,791.51
		For ASTM A242 Type 2 High Strength Steel, Add	*717.18*	
		For Hot Dip Galvanizing, Add	*2,510.15*	
		For >10 To 25 Tons, Deduct	*-762.01*	
		For >25 To 50 Tons, Deduct	*-1,568.84*	
		For >50 To 75 Tons, Deduct	*-2,241.20*	
		For >75 Tons, Deduct	*-1,120.60*	
05 12 23 00-0087	TON	10" x 10" Weight Range 33-77 Lb./LF Structural Tubing - Square	13,431.23	4,187.27
		For ASTM A242 Type 2 High Strength Steel, Add	*717.18*	
		For Hot Dip Galvanizing, Add	*2,510.15*	
		For >10 To 25 Tons, Deduct	*-762.01*	
		For >25 To 50 Tons, Deduct	*-1,568.84*	
		For >50 To 75 Tons, Deduct	*-2,241.20*	
		For >75 Tons, Deduct	*-1,120.60*	
05 12 23 00-0088	TON	12" x 12" Weight Range 40-80 Lb./LF Structural Tubing - Square	12,959.41	4,914.60
		For ASTM A242 Type 2 High Strength Steel, Add	*617.37*	
		For Hot Dip Galvanizing, Add	*2,160.80*	
		For >10 To 25 Tons, Deduct	*-655.96*	
		For >25 To 50 Tons, Deduct	*-1,350.50*	
		For >50 To 75 Tons, Deduct	*-1,929.28*	
		For >75 Tons, Deduct	*-964.64*	
05 12 23 00-0089	TON	14" x 14" Weight Range 57-90 Lb./LF Structural Tubing - Square	15,630.31	6,422.30
		For ASTM A242 Type 2 High Strength Steel, Add	*702.40*	
		For Hot Dip Galvanizing, Add	*2,458.39*	
		For >10 To 25 Tons, Deduct	*-746.30*	
		For >25 To 50 Tons, Deduct	*-1,536.49*	
		For >50 To 75 Tons, Deduct	*-2,194.99*	
		For >75 Tons, Deduct	*-1,097.50*	
05 12 23 00-0090	TON	16" x 16" Weight Range 65-105 Lb./LF Structural Tubing - Square	17,897.66	8,374.55
		For ASTM A242 Type 2 High Strength Steel, Add	*717.18*	
		For Hot Dip Galvanizing, Add	*2,510.15*	
		For >10 To 25 Tons, Deduct	*-762.01*	
		For >25 To 50 Tons, Deduct	*-1,568.84*	
		For >50 To 75 Tons, Deduct	*-2,241.20*	
		For >75 Tons, Deduct	*-1,120.60*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0091		**Galvanized Steel Pipe Tubing** *(05 12 23 00-0063)*		
		Note: ASTM A53 Grade B		
05 12 23 00-0092	LF	2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	45.74	6.12
05 12 23 00-0093	LF	2-1/2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	50.38	7.28
05 12 23 00-0094	LF	3" Diameter Galvanized Steel Pipe Tubing, Standard Weight	56.32	9.67
05 12 23 00-0095	LF	3-1/2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	60.84	10.78
05 12 23 00-0096	LF	4" Diameter Galvanized Steel Pipe Tubing, Standard Weight	63.74	11.65
05 12 23 00-0097	LF	5" Diameter Galvanized Steel Pipe Tubing, Standard Weight	71.87	14.57
05 12 23 00-0098	LF	6" Diameter Galvanized Steel Pipe Tubing, Standard Weight	80.02	17.48
05 12 23 00-0099	LF	8" Diameter Galvanized Steel Pipe Tubing, Standard Weight	88.17	20.97
05 12 23 00-0100	LF	10" Diameter Galvanized Steel Pipe Tubing, Standard Weight	99.80	25.64
05 12 23 00-0101	LF	12" Diameter Galvanized Steel Pipe Tubing, Standard Weight	118.43	32.64
05 12 23 00-0102		**Structural Shapes** *(05 12 23 00-0048)*		
05 12 23 00-0103	TON	Up To 20 Lb./LF Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts	9,227.29	2,994.08
		For ASTM A242 Type 2 High Strength Steel, Add	*357.98*	
		For Hot Dip Galvanizing, Add	*1,252.94*	
		For >20 To 50 Lb./LF, Deduct	*-1,160.35*	
		For >50 To 75 Lb./LF, Deduct	*-1,859.34*	
		For >75 To 100 Lb./LF, Deduct	*-2,558.33*	
		For >10 To 25 Tons, Deduct	*-380.36*	
		For >25 To 50 Tons, Deduct	*-783.09*	
		For >50 To 75 Tons, Deduct	*-1,118.70*	
		For >75 Tons, Deduct	*-559.35*	
05 12 23 00-0104	TON	Structural Shapes, Steel Plate A36 Structural Steel	8,986.42	1,197.63
		Note: Up to 21.5 Lb. per SF		
		For ASTM A242 Type 2 High Strength Steel, Add	*591.51*	
		For Hot Dip Galvanizing, Add	*2,070.27*	
		For >21.5 To 50 Lb./LF, Deduct	*-978.27*	
		For >10 To 25 Tons, Deduct	*-628.47*	
		For >25 To 50 Tons, Deduct	*-1,293.92*	
		For >50 To 75 Tons, Deduct	*-1,848.46*	
		For >75 Tons, Deduct	*-924.23*	
05 12 23 00-0105	LB	Up To 20 Lb./LF Structural Shapes, Primed Pipe Supports	5.24	0.27
05 12 23 00-0106	LB	Structural Shapes, Galvanized Pipe Supports	6.39	0.27
05 12 23 00-0107		**Built-Up Trusses** *(05 12 23 00-0048)*		
05 12 23 00-0108	TON	Up To 50 LF Span Average Weight 100 Lb./LF Trusses, Built-up	9,850.45	418.72
		For >10 To 25 Tons, Deduct	*-799.32*	
		For >25 To 50 Tons, Deduct	*-1,645.67*	
		For >50 To 75 Tons, Deduct	*-2,350.95*	
		For >75 Tons, Deduct	*-1,175.48*	
05 12 23 00-0109	TON	>50-100 LF Span Average Weight 120 Lb./LF Trusses, Built-up	9,744.36	232.54
		For >10 To 25 Tons, Deduct	*-807.18*	
		For >25 To 50 Tons, Deduct	*-1,661.84*	
		For >50 To 75 Tons, Deduct	*-2,374.06*	
		For >75 Tons, Deduct	*-1,187.03*	
05 12 23 00-0110	TON	>100-200 LF Span Average Weight 150 Lb./LF Trusses, Built-up	8,680.29	123.10
		For >10 To 25 Tons, Deduct	*-726.66*	
		For >25 To 50 Tons, Deduct	*-1,496.06*	
		For >50 To 75 Tons, Deduct	*-2,137.23*	
		For >75 Tons, Deduct	*-1,068.62*	
05 12 23 00-0111	TON	>200 LF Span Average Weight 180 Lb./LF Trusses, Built-up	8,441.93	116.41
		For >10 To 25 Tons, Deduct	*-707.02*	
		For >25 To 50 Tons, Deduct	*-1,455.63*	
		For >50 To 75 Tons, Deduct	*-2,079.47*	
		For >75 Tons, Deduct	*-1,039.73*	
05 12 23 00-0112		**Masonry Plates, Filler Plates, Sole Plates And Anchor Straps** *(05 12 23 00-0048)*		
		Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0113	SF	1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	32.62	8.63
05 12 23 00-0114	SF	3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	48.92	12.90
05 12 23 00-0115	SF	1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	65.23	17.20
05 12 23 00-0116	SF	5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	81.53	21.49
05 12 23 00-0117	SF	3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	97.84	25.66
05 12 23 00-0118	SF	7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	114.15	30.08
05 12 23 00-0119	SF	1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	130.45	34.38
05 12 23 00-0120	SF	1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	146.75	38.68
05 12 23 00-0121	SF	1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	163.07	42.98
05 12 23 00-0122	SF	1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	179.37	47.28
05 12 23 00-0123	SF	1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	195.68	51.58
05 12 23 00-0124	SF	1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	211.98	55.88
05 12 23 00-0125	SF	1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	228.30	60.17
05 12 23 00-0126	SF	1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	244.61	64.47
05 12 23 00-0127	SF	2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	260.91	68.77
05 12 23 00-0128		**Accessories For Steel** *(05 12 23)*		
05 12 23 00-0129		**Field Painting For Touch-Up Of Shop Prime Coat** *(05 12 23 00-0128)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0130	SF	Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat	1.46	
05 12 23 00-0131		**Connection And Stiffener Plates** *(05 12 23 00-0128)*		
		Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0132	TON	1/8" Plate Weight 6.16 Lb./SF Connection And Stiffener Plates	21,345.21	
		For >10 To 25 Tons, Deduct	*-1,814.34*	
		For >25 To 50 Tons, Deduct	*-3,735.41*	
		For >50 To 75 Tons, Deduct	*-5,336.30*	
		For >75 Tons, Deduct	*-2,668.15*	
05 12 23 00-0133	TON	3/16" Plate Weight 8.71 Lb./SF Connection And Stiffener Plates	18,211.64	
		For >10 To 25 Tons, Deduct	*-1,547.99*	
		For >25 To 50 Tons, Deduct	*-3,187.04*	
		For >50 To 75 Tons, Deduct	*-4,552.91*	
		For >75 Tons, Deduct	*-2,276.46*	
05 12 23 00-0134	TON	1/4" Plate Weight 11.26 Lb./SF Connection And Stiffener Plates	14,083.44	
		For >10 To 25 Tons, Deduct	*-1,197.09*	
		For >25 To 50 Tons, Deduct	*-2,464.60*	
		For >50 To 75 Tons, Deduct	*-3,520.86*	
		For >75 Tons, Deduct	*-1,760.43*	
05 12 23 00-0135	TON	5/16" Plate Weight 13.81 Lb./SF Connection And Stiffener Plates	14,083.44	
		For >10 To 25 Tons, Deduct	*-1,197.09*	
		For >25 To 50 Tons, Deduct	*-2,464.60*	
		For >50 To 75 Tons, Deduct	*-3,520.86*	
		For >75 Tons, Deduct	*-1,760.43*	
05 12 23 00-0136	TON	3/8" Plate Weight 16.37 Lb./SF Connection And Stiffener Plates	14,083.44	
		For >10 To 25 Tons, Deduct	*-1,197.09*	
		For >25 To 50 Tons, Deduct	*-2,464.60*	
		For >50 To 75 Tons, Deduct	*-3,520.86*	
		For >75 Tons, Deduct	*-1,760.43*	
05 12 23 00-0137	TON	1/2" Plate Weight 21.47 Lb./SF Connection And Stiffener Plates	14,083.44	
		For >10 To 25 Tons, Deduct	*-1,197.09*	
		For >25 To 50 Tons, Deduct	*-2,464.60*	
		For >50 To 75 Tons, Deduct	*-3,520.86*	
		For >75 Tons, Deduct	*-1,760.43*	
05 12 23 00-0138	TON	9/16" Plate Weight 24.02 Lb./SF Connection And Stiffener Plates	14,083.44	
		For >10 To 25 Tons, Deduct	*-1,197.09*	
		For >25 To 50 Tons, Deduct	*-2,464.60*	
		For >50 To 75 Tons, Deduct	*-3,520.86*	
		For >75 Tons, Deduct	*-1,760.43*	
05 12 23 00-0139	TON	5/8" Plate Weight 26.58 Lb./SF Connection And Stiffener Plates	14,083.44	
		For >10 To 25 Tons, Deduct	*-1,197.09*	
		For >25 To 50 Tons, Deduct	*-2,464.60*	
		For >50 To 75 Tons, Deduct	*-3,520.86*	
		For >75 Tons, Deduct	*-1,760.43*	
05 12 23 00-0140	TON	3/4" Plate Weight 31.68 Lb./SF Connection And Stiffener Plates	13,203.22	
		For >10 To 25 Tons, Deduct	*-1,122.27*	
		For >25 To 50 Tons, Deduct	*-2,310.56*	
		For >50 To 75 Tons, Deduct	*-3,300.81*	
		For >75 Tons, Deduct	*-1,650.40*	
05 12 23 00-0141	TON	7/8" Plate Weight 36.78 Lb./SF Connection And Stiffener Plates	13,203.22	
		For >10 To 25 Tons, Deduct	*-1,122.27*	
		For >25 To 50 Tons, Deduct	*-2,310.56*	
		For >50 To 75 Tons, Deduct	*-3,300.81*	
		For >75 Tons, Deduct	*-1,650.40*	
05 12 23 00-0142	TON	1" Plate Weight 41.89 Lb./SF Connection And Stiffener Plates	13,203.22	
		For >10 To 25 Tons, Deduct	*-1,122.27*	
		For >25 To 50 Tons, Deduct	*-2,310.56*	
		For >50 To 75 Tons, Deduct	*-3,300.81*	
		For >75 Tons, Deduct	*-1,650.40*	
05 12 23 00-0143		**Field Applied Cold Galvanizing** *(05 12 23 00-0128)*		
05 12 23 00-0144	SF	Brush Applied Cold Galvanizing	2.02	
05 12 23 00-0145		**Metal Grinding** *(05 12 23 00-0128)*		
		Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0146	SI	Metal Grinding Up To 1/32" Thickness To Be Removed	1.16	
		Note: Includes rust or scale removal on metal and smoothing surface.		
05 12 23 00-0147		**Structural Steel For Buildings And Structures** *(05 12 23)*		
		Note: Prices by Ton (or Lb.) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0148		**First Tier A992/A36 Structural Steel Columns, W Shapes** *(05 12 23 00-0147)*		
		Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0149	LF	W14 x 730 A992/A36 Structural Column	1,770.82	83.05
		For Hot Dip Galvanizing, Add	*466.84*	
		For High Strength Low Alloy A572-50 Steel, Add	*159.37*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*354.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0150	LF	W14 x 665 A992/A36 Structural Column	1,615.01	77.40
		For Hot Dip Galvanizing, Add	*425.27*	
		For High Strength Low Alloy A572-50 Steel, Add	*145.35*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*323.00*	
05 12 23 00-0151	LF	W14 x 605 A992/A36 Structural Column	1,471.05	72.05
		For Hot Dip Galvanizing, Add	*386.90*	
		For High Strength Low Alloy A572-50 Steel, Add	*132.39*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*294.21*	
05 12 23 00-0152	LF	W14 x 550 A992/A36 Structural Column	1,338.93	67.02
		For Hot Dip Galvanizing, Add	*351.73*	
		For High Strength Low Alloy A572-50 Steel, Add	*120.50*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*267.79*	
05 12 23 00-0153	LF	W14 x 500 A992/A36 Structural Column	1,229.71	72.58
		For Hot Dip Galvanizing, Add	*319.75*	
		For High Strength Low Alloy A572-50 Steel, Add	*110.67*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*245.94*	
05 12 23 00-0154	LF	W14 x 426 A992/A36 Structural Column	1,049.24	63.37
		For Hot Dip Galvanizing, Add	*272.43*	
		For High Strength Low Alloy A572-50 Steel, Add	*94.43*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*209.85*	
05 12 23 00-0155	LF	W14 x 342 A992/A36 Structural Column	848.55	54.85
		For Hot Dip Galvanizing, Add	*219.26*	
		For High Strength Low Alloy A572-50 Steel, Add	*76.37*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*169.71*	
05 12 23 00-0156	LF	W14 x 311 A992/A36 Structural Column	764.31	51.22
		For Hot Dip Galvanizing, Add	*196.93*	
		For High Strength Low Alloy A572-50 Steel, Add	*68.79*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*152.86*	
05 12 23 00-0157	LF	W14 x 283 A992/A36 Structural Column	693.80	48.29
		For Hot Dip Galvanizing, Add	*178.25*	
		For High Strength Low Alloy A572-50 Steel, Add	*62.44*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*138.76*	
05 12 23 00-0158	LF	W14 x 257 A992/A36 Structural Column	609.92	45.78
		For Hot Dip Galvanizing, Add	*155.71*	
		For High Strength Low Alloy A572-50 Steel, Add	*54.89*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*121.98*	
05 12 23 00-0159	LF	W14 x 233 A992/A36 Structural Column	561.30	42.57
		For Hot Dip Galvanizing, Add	*143.17*	
		For High Strength Low Alloy A572-50 Steel, Add	*50.52*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*112.26*	
05 12 23 00-0160	LF	W14 x 211 A992/A36 Structural Column	499.31	39.63
		For Hot Dip Galvanizing, Add	*126.82*	
		For High Strength Low Alloy A572-50 Steel, Add	*44.94*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*99.86*	
05 12 23 00-0161	LF	W14 x 193 A992/A36 Structural Column	451.65	37.69
		For Hot Dip Galvanizing, Add	*114.18*	
		For High Strength Low Alloy A572-50 Steel, Add	*40.65*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*90.33*	
05 12 23 00-0162	LF	W14 x 176 A992/A36 Structural Column	407.14	36.01
		For Hot Dip Galvanizing, Add	*102.33*	
		For High Strength Low Alloy A572-50 Steel, Add	*36.64*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*81.43*	
05 12 23 00-0163	LF	W14 x 159 A992/A36 Structural Column	368.18	34.76
		For Hot Dip Galvanizing, Add	*91.91*	
		For High Strength Low Alloy A572-50 Steel, Add	*33.14*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*73.64*	
05 12 23 00-0164	LF	W14 x 145 A992/A36 Structural Column	355.81	33.64
		For Hot Dip Galvanizing, Add	*88.78*	
		For High Strength Low Alloy A572-50 Steel, Add	*32.02*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*71.16*	
05 12 23 00-0165	LF	W14 x 132 A992/A36 Structural Column	304.37	32.10
		For Hot Dip Galvanizing, Add	*74.97*	
		For High Strength Low Alloy A572-50 Steel, Add	*27.39*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*60.87*	
05 12 23 00-0166	LF	W14 x 120 A992/A36 Structural Column	285.42	31.27
		For Hot Dip Galvanizing, Add	*69.95*	
		For High Strength Low Alloy A572-50 Steel, Add	*25.69*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*57.08*	
05 12 23 00-0167	LF	W14 x 109 A992/A36 Structural Column	255.61	30.01
		For Hot Dip Galvanizing, Add	*62.06*	
		For High Strength Low Alloy A572-50 Steel, Add	*23.00*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*51.12*	
05 12 23 00-0168	LF	W14 x 99 A992/A36 Structural Column	233.29	29.17
		For Hot Dip Galvanizing, Add	*56.14*	
		For High Strength Low Alloy A572-50 Steel, Add	*21.00*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*46.66*	
05 12 23 00-0169	LF	W14 x 90 A992/A36 Structural Column	216.76	28.47
		For Hot Dip Galvanizing, Add	*51.75*	
		For High Strength Low Alloy A572-50 Steel, Add	*19.51*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*43.35*	
05 12 23 00-0170	LF	W14 x 82 A992/A36 Structural Column	199.71	27.64
		For Hot Dip Galvanizing, Add	*47.25*	
		For High Strength Low Alloy A572-50 Steel, Add	*17.97*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*39.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0171	LF	W14 x 74 A992/A36 Structural Column	180.39	26.94
		For Hot Dip Galvanizing, Add	*42.12*	
		For High Strength Low Alloy A572-50 Steel, Add	*16.24*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*36.08*	
05 12 23 00-0172	LF	W14 x 68 A992/A36 Structural Column	168.52	26.52
		For Hot Dip Galvanizing, Add	*38.94*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.17*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*33.70*	
05 12 23 00-0173	LF	W14 x 61 A992/A36 Structural Column	153.71	25.82
		For Hot Dip Galvanizing, Add	*35.03*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.83*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*30.74*	
05 12 23 00-0174	LF	W14 x 53 A992/A36 Structural Column	140.05	25.12
		For Hot Dip Galvanizing, Add	*31.43*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.60*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*28.01*	
05 12 23 00-0175	LF	W14 x 48 A992/A36 Structural Column	131.25	24.71
		For Hot Dip Galvanizing, Add	*29.10*	
		For High Strength Low Alloy A572-50 Steel, Add	*11.81*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*26.25*	
05 12 23 00-0176	LF	W14 x 43 A992/A36 Structural Column	118.48	24.28
		For Hot Dip Galvanizing, Add	*25.71*	
		For High Strength Low Alloy A572-50 Steel, Add	*10.66*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*23.70*	
05 12 23 00-0177	LF	W12 x 336 A992/A36 Structural Column	807.51	36.98
		For Hot Dip Galvanizing, Add	*213.14*	
		For High Strength Low Alloy A572-50 Steel, Add	*72.68*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*161.50*	
05 12 23 00-0178	LF	W12 x 305 A992/A36 Structural Column	735.87	36.25
		For Hot Dip Galvanizing, Add	*193.48*	
		For High Strength Low Alloy A572-50 Steel, Add	*66.23*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*147.17*	
05 12 23 00-0179	LF	W12 x 279 A992/A36 Structural Column	675.96	35.81
		For Hot Dip Galvanizing, Add	*176.99*	
		For High Strength Low Alloy A572-50 Steel, Add	*60.84*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*135.19*	
05 12 23 00-0180	LF	W12 x 252 A992/A36 Structural Column	613.28	34.92
		For Hot Dip Galvanizing, Add	*159.86*	
		For High Strength Low Alloy A572-50 Steel, Add	*55.20*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*122.66*	
05 12 23 00-0181	LF	W12 x 230 A992/A36 Structural Column	562.46	34.41
		For Hot Dip Galvanizing, Add	*145.90*	
		For High Strength Low Alloy A572-50 Steel, Add	*50.62*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*112.49*	
05 12 23 00-0182	LF	W12 x 210 A992/A36 Structural Column	516.22	33.93
		For Hot Dip Galvanizing, Add	*133.21*	
		For High Strength Low Alloy A572-50 Steel, Add	*46.46*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*103.24*	
05 12 23 00-0183	LF	W12 x 190 A992/A36 Structural Column	475.51	38.52
		For Hot Dip Galvanizing, Add	*120.53*	
		For High Strength Low Alloy A572-50 Steel, Add	*42.80*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*95.10*	
05 12 23 00-0184	LF	W12 x 170 A992/A36 Structural Column	429.76	37.41
		For Hot Dip Galvanizing, Add	*108.22*	
		For High Strength Low Alloy A572-50 Steel, Add	*38.68*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*85.95*	
05 12 23 00-0185	LF	W12 x 152 A992/A36 Structural Column	387.43	34.76
		For Hot Dip Galvanizing, Add	*97.25*	
		For High Strength Low Alloy A572-50 Steel, Add	*34.87*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*77.49*	
05 12 23 00-0186	LF	W12 x 136 A992/A36 Structural Column	368.34	33.78
		For Hot Dip Galvanizing, Add	*92.22*	
		For High Strength Low Alloy A572-50 Steel, Add	*33.15*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*73.67*	
05 12 23 00-0187	LF	W12 x 120 A992/A36 Structural Column	278.99	30.99
		For Hot Dip Galvanizing, Add	*68.20*	
		For High Strength Low Alloy A572-50 Steel, Add	*25.11*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*55.80*	
05 12 23 00-0188	LF	W12 x 106 A992/A36 Structural Column	257.14	30.01
		For Hot Dip Galvanizing, Add	*62.49*	
		For High Strength Low Alloy A572-50 Steel, Add	*23.14*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*51.43*	
05 12 23 00-0189	LF	W12 x 96 A992/A36 Structural Column	230.10	29.03
		For Hot Dip Galvanizing, Add	*55.29*	
		For High Strength Low Alloy A572-50 Steel, Add	*20.71*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*46.02*	
05 12 23 00-0190	LF	W12 x 87 A992/A36 Structural Column	212.29	28.05
		For Hot Dip Galvanizing, Add	*50.58*	
		For High Strength Low Alloy A572-50 Steel, Add	*19.11*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*42.46*	
05 12 23 00-0191	LF	W12 x 79 A992/A36 Structural Column	186.33	27.21
		For Hot Dip Galvanizing, Add	*43.65*	
		For High Strength Low Alloy A572-50 Steel, Add	*16.77*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*37.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0192	LF	W12 x 72 A992/A36 Structural Column	170.58	26.52
		For Hot Dip Galvanizing, Add	*39.47*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.35*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*34.12*	
05 12 23 00-0193	LF	W12 x 65 A992/A36 Structural Column	155.96	25.97
		For Hot Dip Galvanizing, Add	*35.61*	
		For High Strength Low Alloy A572-50 Steel, Add	*14.04*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*31.19*	
05 12 23 00-0194	LF	W12 x 58 A992/A36 Structural Column	150.91	25.68
		For Hot Dip Galvanizing, Add	*34.29*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.58*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*30.18*	
05 12 23 00-0195	LF	W12 x 53 A992/A36 Structural Column	140.05	25.12
		For Hot Dip Galvanizing, Add	*31.43*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.60*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*28.01*	
05 12 23 00-0196	LF	W12 x 50 A992/A36 Structural Column	135.72	24.99
		For Hot Dip Galvanizing, Add	*30.26*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.21*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*27.14*	
05 12 23 00-0197	LF	W12 x 45 A992/A36 Structural Column	123.34	24.43
		For Hot Dip Galvanizing, Add	*26.98*	
		For High Strength Low Alloy A572-50 Steel, Add	*11.10*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*24.67*	
05 12 23 00-0198	LF	W12 x 40 A992/A36 Structural Column	110.58	23.87
		For Hot Dip Galvanizing, Add	*23.60*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.95*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*22.12*	
05 12 23 00-0199	LF	W10 x 112 A992/A36 Structural Column	268.95	30.57
		For Hot Dip Galvanizing, Add	*65.61*	
		For High Strength Low Alloy A572-50 Steel, Add	*24.21*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*53.79*	
05 12 23 00-0200	LF	W10 x 110 A992/A36 Structural Column	243.29	29.31
		For Hot Dip Galvanizing, Add	*58.84*	
		For High Strength Low Alloy A572-50 Steel, Add	*21.90*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*48.66*	
05 12 23 00-0201	LF	W10 x 88 A992/A36 Structural Column	218.72	28.34
		For Hot Dip Galvanizing, Add	*52.33*	
		For High Strength Low Alloy A572-50 Steel, Add	*19.68*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*43.74*	
05 12 23 00-0202	LF	W10 x 77 A992/A36 Structural Column	194.53	27.21
		For Hot Dip Galvanizing, Add	*45.93*	
		For High Strength Low Alloy A572-50 Steel, Add	*17.51*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*38.91*	
05 12 23 00-0203	LF	W10 x 68 A992/A36 Structural Column	175.19	26.52
		For Hot Dip Galvanizing, Add	*40.79*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.77*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*35.04*	
05 12 23 00-0204	LF	W10 x 60 A992/A36 Structural Column	153.71	25.82
		For Hot Dip Galvanizing, Add	*35.03*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.83*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*30.74*	
05 12 23 00-0205	LF	W10 x 54 A992/A36 Structural Column	152.67	25.40
		For Hot Dip Galvanizing, Add	*34.82*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.74*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*30.53*	
05 12 23 00-0206	LF	W10 x 49 A992/A36 Structural Column	134.05	24.99
		For Hot Dip Galvanizing, Add	*29.84*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.06*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*26.81*	
05 12 23 00-0207	LF	W10 x 45 A992/A36 Structural Column	129.39	24.56
		For Hot Dip Galvanizing, Add	*28.62*	
		For High Strength Low Alloy A572-50 Steel, Add	*11.65*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*25.88*	
05 12 23 00-0208	LF	W10 x 39 A992/A36 Structural Column	112.63	24.15
		For Hot Dip Galvanizing, Add	*24.13*	
		For High Strength Low Alloy A572-50 Steel, Add	*10.14*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*22.53*	
05 12 23 00-0209	LF	W10 x 33 A992/A36 Structural Column	98.21	23.45
		For Hot Dip Galvanizing, Add	*20.32*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.84*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*19.64*	
05 12 23 00-0210	LF	W8 x 67 A992/A36 Structural Column	168.71	26.52
		For Hot Dip Galvanizing, Add	*38.99*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.18*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*33.74*	
05 12 23 00-0211	LF	W8 x 58 A992/A36 Structural Column	151.48	25.68
		For Hot Dip Galvanizing, Add	*34.44*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.63*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*30.30*	
05 12 23 00-0212	LF	W8 x 48 A992/A36 Structural Column	135.58	24.99
		For Hot Dip Galvanizing, Add	*30.26*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.20*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*27.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0213	LF	W8 x 40 A992/A36 Structural Column	116.39	24.28
		For Hot Dip Galvanizing, Add	*25.13*	
		For High Strength Low Alloy A572-50 Steel, Add	*10.48*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*23.28*	
05 12 23 00-0214	LF	W8 x 35 A992/A36 Structural Column	105.15	23.73
		For Hot Dip Galvanizing, Add	*22.17*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.46*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*21.03*	
05 12 23 00-0215	LF	W8 x 31 A992/A36 Structural Column	96.11	23.45
		For Hot Dip Galvanizing, Add	*19.74*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.65*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*19.22*	
05 12 23 00-0216	LF	W8 x 28 A992/A36 Structural Column	90.49	23.17
		For Hot Dip Galvanizing, Add	*18.25*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.14*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*18.10*	
05 12 23 00-0217	LF	W8 x 24 A992/A36 Structural Column	83.73	22.89
		For Hot Dip Galvanizing, Add	*16.46*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.54*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*16.75*	
05 12 23 00-0218	LF	W8 x 21 A992/A36 Structural Column	79.25	22.75
		For Hot Dip Galvanizing, Add	*15.29*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.13*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*15.85*	
05 12 23 00-0219	LF	W8 x 18 A992/A36 Structural Column	70.77	22.33
		For Hot Dip Galvanizing, Add	*13.01*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.37*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*14.15*	
05 12 23 00-0220	LF	W6 x 25 A992/A36 Structural Column	87.92	22.89
		For Hot Dip Galvanizing, Add	*17.62*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.91*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*17.58*	
05 12 23 00-0221	LF	W6 x 20 A992/A36 Structural Column	74.35	22.47
		For Hot Dip Galvanizing, Add	*13.97*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.69*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*14.87*	
05 12 23 00-0222	LF	W6 x 15 A992/A36 Structural Column	63.73	21.78
		For Hot Dip Galvanizing, Add	*11.22*	
		For High Strength Low Alloy A572-50 Steel, Add	*5.74*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*12.75*	
05 12 23 00-0223	LF	W6 x 12 A992/A36 Structural Column	59.73	21.78
		For Hot Dip Galvanizing, Add	*10.11*	
		For High Strength Low Alloy A572-50 Steel, Add	*5.38*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*11.95*	
05 12 23 00-0224	LF	W6 x 9 A992/A36 Structural Column	54.63	21.63
		For Hot Dip Galvanizing, Add	*8.73*	
		For High Strength Low Alloy A572-50 Steel, Add	*4.92*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*10.93*	
05 12 23 00-0225	LF	W5 x 19 A992/A36 Structural Column	73.20	22.47
		For Hot Dip Galvanizing, Add	*13.65*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.59*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*14.64*	
05 12 23 00-0226	LF	W5 x 16 A992/A36 Structural Column	67.39	22.33
		For Hot Dip Galvanizing, Add	*12.12*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.07*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*13.48*	
05 12 23 00-0227	LF	W4 x 13 A992/A36 Structural Column	63.11	22.06
		For Hot Dip Galvanizing, Add	*11.01*	
		For High Strength Low Alloy A572-50 Steel, Add	*5.68*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*12.62*	

05 12 23 00-0228 A992/A36 Structural Steel Beams And Girders, W Shapes *(05 12 23 00-0147)*

Note: Includes material delivery and erection.

05 12 23 00-0229	LF	W36 x 300 A992/A36 Structural Beam Or Girder	638.36	90.95
		For Hot Dip Galvanizing, Add	*150.22*	
		For High Strength Low Alloy A572-50 Steel, Add	*57.45*	
		For High Strength Low Alloy A588 Steel, Add	*127.67*	
		For Each Additional Top Copes >2, Add	*5.41*	
		For Structural Tees, WT, MT Or ST, Deduct	*-208.87*	
		For Skewed Or Sloped Connections, Add	*76.60*	
05 12 23 00-0230	LF	W36 x 280 A992/A36 Structural Beam Or Girder	616.92	104.68
		For Hot Dip Galvanizing, Add	*140.21*	
		For High Strength Low Alloy A572-50 Steel, Add	*55.52*	
		For High Strength Low Alloy A588 Steel, Add	*123.38*	
		For Each Additional Top Copes >2, Add	*5.05*	
		For Structural Tees, WT, MT Or ST, Deduct	*-199.17*	
		For Skewed Or Sloped Connections, Add	*74.03*	
05 12 23 00-0231	LF	W36 x 260 A992/A36 Structural Beam Or Girder	584.11	103.43
		For Hot Dip Galvanizing, Add	*131.49*	
		For High Strength Low Alloy A572-50 Steel, Add	*52.57*	
		For High Strength Low Alloy A588 Steel, Add	*116.82*	
		For Each Additional Top Copes >2, Add	*4.74*	
		For Structural Tees, WT, MT Or ST, Deduct	*-187.90*	
		For Skewed Or Sloped Connections, Add	*70.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0232	LF	W36 x 240 A992/A36 Structural Beam Or Girder	543.50	87.66
		For Hot Dip Galvanizing, Add	*124.88*	
		For High Strength Low Alloy A572-50 Steel, Add	*48.92*	
		For High Strength Low Alloy A588 Steel, Add	*108.70*	
		For Each Additional Top Copes >2, Add	*4.50*	
		For Structural Tees, WT, MT Or ST, Deduct	*-176.20*	
		For Skewed Or Sloped Connections, Add	*65.22*	
05 12 23 00-0233	LF	W36 x 230 A992/A36 Structural Beam Or Girder	526.07	88.90
		For Hot Dip Galvanizing, Add	*119.67*	
		For High Strength Low Alloy A572-50 Steel, Add	*47.35*	
		For High Strength Low Alloy A588 Steel, Add	*105.21*	
		For Each Additional Top Copes >2, Add	*4.31*	
		For Structural Tees, WT, MT Or ST, Deduct	*-169.90*	
		For Skewed Or Sloped Connections, Add	*63.13*	
05 12 23 00-0234	LF	W36 x 210 A992/A36 Structural Beam Or Girder	500.52	100.08
		For Hot Dip Galvanizing, Add	*109.27*	
		For High Strength Low Alloy A572-50 Steel, Add	*45.05*	
		For High Strength Low Alloy A588 Steel, Add	*100.10*	
		For Each Additional Top Copes >2, Add	*3.94*	
		For Structural Tees, WT, MT Or ST, Deduct	*-159.17*	
		For Skewed Or Sloped Connections, Add	*60.06*	
05 12 23 00-0235	LF	W36 x 194 A992/A36 Structural Beam Or Girder	470.99	85.02
		For Hot Dip Galvanizing, Add	*105.53*	
		For High Strength Low Alloy A572-50 Steel, Add	*42.39*	
		For High Strength Low Alloy A588 Steel, Add	*94.20*	
		For Each Additional Top Copes >2, Add	*3.80*	
		For Structural Tees, WT, MT Or ST, Deduct	*-151.24*	
		For Skewed Or Sloped Connections, Add	*56.52*	
05 12 23 00-0236	LF	W36 x 182 A992/A36 Structural Beam Or Girder	446.80	84.40
		For Hot Dip Galvanizing, Add	*99.01*	
		For High Strength Low Alloy A572-50 Steel, Add	*40.21*	
		For High Strength Low Alloy A588 Steel, Add	*89.36*	
		For Each Additional Top Copes >2, Add	*3.57*	
		For Structural Tees, WT, MT Or ST, Deduct	*-142.88*	
		For Skewed Or Sloped Connections, Add	*53.62*	
05 12 23 00-0237	LF	W36 x 170 A992/A36 Structural Beam Or Girder	422.25	83.43
		For Hot Dip Galvanizing, Add	*92.48*	
		For High Strength Low Alloy A572-50 Steel, Add	*38.00*	
		For High Strength Low Alloy A588 Steel, Add	*84.45*	
		For Each Additional Top Copes >2, Add	*3.33*	
		For Structural Tees, WT, MT Or ST, Deduct	*-134.44*	
		For Skewed Or Sloped Connections, Add	*50.67*	
05 12 23 00-0238	LF	W36 x 160 A992/A36 Structural Beam Or Girder	416.94	96.87
		For Hot Dip Galvanizing, Add	*87.04*	
		For High Strength Low Alloy A572-50 Steel, Add	*37.52*	
		For High Strength Low Alloy A588 Steel, Add	*83.39*	
		For Each Additional Top Copes >2, Add	*3.14*	
		For Structural Tees, WT, MT Or ST, Deduct	*-130.44*	
		For Skewed Or Sloped Connections, Add	*50.03*	
05 12 23 00-0239	LF	W36 x 150 A992/A36 Structural Beam Or Girder	399.80	96.17
		For Hot Dip Galvanizing, Add	*82.48*	
		For High Strength Low Alloy A572-50 Steel, Add	*35.98*	
		For High Strength Low Alloy A588 Steel, Add	*79.96*	
		For Each Additional Top Copes >2, Add	*2.97*	
		For Structural Tees, WT, MT Or ST, Deduct	*-124.54*	
		For Skewed Or Sloped Connections, Add	*47.98*	
05 12 23 00-0240	LF	W36 x 135 A992/A36 Structural Beam Or Girder	375.85	95.33
		For Hot Dip Galvanizing, Add	*76.10*	
		For High Strength Low Alloy A572-50 Steel, Add	*33.83*	
		For High Strength Low Alloy A588 Steel, Add	*75.17*	
		For Each Additional Top Copes >2, Add	*2.74*	
		For Structural Tees, WT, MT Or ST, Deduct	*-116.31*	
		For Skewed Or Sloped Connections, Add	*45.10*	
05 12 23 00-0241	LF	W33 x 241 A992/A36 Structural Beam Or Girder	550.35	90.41
		For Hot Dip Galvanizing, Add	*125.96*	
		For High Strength Low Alloy A572-50 Steel, Add	*49.53*	
		For High Strength Low Alloy A588 Steel, Add	*110.07*	
		For Each Additional Top Copes >2, Add	*4.54*	
		For Structural Tees, WT, MT Or ST, Deduct	*-178.16*	
		For Skewed Or Sloped Connections, Add	*66.04*	
05 12 23 00-0242	LF	W33 x 221 A992/A36 Structural Beam Or Girder	510.31	88.19
		For Hot Dip Galvanizing, Add	*115.51*	
		For High Strength Low Alloy A572-50 Steel, Add	*45.93*	
		For High Strength Low Alloy A588 Steel, Add	*102.06*	
		For Each Additional Top Copes >2, Add	*4.16*	
		For Structural Tees, WT, MT Or ST, Deduct	*-164.50*	
		For Skewed Or Sloped Connections, Add	*61.24*	
05 12 23 00-0243	LF	W33 x 201 A992/A36 Structural Beam Or Girder	484.66	99.38
		For Hot Dip Galvanizing, Add	*105.06*	
		For High Strength Low Alloy A572-50 Steel, Add	*43.62*	
		For High Strength Low Alloy A588 Steel, Add	*96.93*	
		For Each Additional Top Copes >2, Add	*3.79*	
		For Structural Tees, WT, MT Or ST, Deduct	*-153.72*	
		For Skewed Or Sloped Connections, Add	*58.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0244	LF	W33 x 170 A992/A36 Structural Beam Or Girder	435.35	97.56
		For Hot Dip Galvanizing, Add	*91.95*	
		For High Strength Low Alloy A572-50 Steel, Add	*39.18*	
		For High Strength Low Alloy A588 Steel, Add	*87.07*	
		For Each Additional Top Copes >2, Add	*3.31*	
		For Structural Tees, WT, MT Or ST, Deduct	*-136.77*	
		For Skewed Or Sloped Connections, Add	*52.24*	
05 12 23 00-0245	LF	W33 x 152 A992/A36 Structural Beam Or Girder	395.02	83.17
		For Hot Dip Galvanizing, Add	*85.00*	
		For High Strength Low Alloy A572-50 Steel, Add	*35.55*	
		For High Strength Low Alloy A588 Steel, Add	*79.00*	
		For Each Additional Top Copes >2, Add	*3.06*	
		For Structural Tees, WT, MT Or ST, Deduct	*-124.95*	
		For Skewed Or Sloped Connections, Add	*47.40*	
05 12 23 00-0246	LF	W33 x 141 A992/A36 Structural Beam Or Girder	386.17	95.61
		For Hot Dip Galvanizing, Add	*78.85*	
		For High Strength Low Alloy A572-50 Steel, Add	*34.76*	
		For High Strength Low Alloy A588 Steel, Add	*77.23*	
		For Each Additional Top Copes >2, Add	*2.84*	
		For Structural Tees, WT, MT Or ST, Deduct	*-119.86*	
		For Skewed Or Sloped Connections, Add	*46.34*	
05 12 23 00-0247	LF	W33 x 130 A992/A36 Structural Beam Or Girder	366.78	94.91
		For Hot Dip Galvanizing, Add	*73.70*	
		For High Strength Low Alloy A572-50 Steel, Add	*33.01*	
		For High Strength Low Alloy A588 Steel, Add	*73.36*	
		For Each Additional Top Copes >2, Add	*2.66*	
		For Structural Tees, WT, MT Or ST, Deduct	*-113.19*	
		For Skewed Or Sloped Connections, Add	*44.01*	
05 12 23 00-0248	LF	W33 x 118 A992/A36 Structural Beam Or Girder	344.23	94.07
		For Hot Dip Galvanizing, Add	*67.68*	
		For High Strength Low Alloy A572-50 Steel, Add	*30.98*	
		For High Strength Low Alloy A588 Steel, Add	*68.85*	
		For Each Additional Top Copes >2, Add	*2.44*	
		For Structural Tees, WT, MT Or ST, Deduct	*-105.43*	
		For Skewed Or Sloped Connections, Add	*41.31*	
05 12 23 00-0249	LF	W30 x 211 A992/A36 Structural Beam Or Girder	489.29	88.03
		For Hot Dip Galvanizing, Add	*109.72*	
		For High Strength Low Alloy A572-50 Steel, Add	*44.04*	
		For High Strength Low Alloy A588 Steel, Add	*97.86*	
		For Each Additional Top Copes >2, Add	*3.95*	
		For Structural Tees, WT, MT Or ST, Deduct	*-157.17*	
		For Skewed Or Sloped Connections, Add	*58.71*	
05 12 23 00-0250	LF	W30 x 191 A992/A36 Structural Beam Or Girder	463.30	98.68
		For Hot Dip Galvanizing, Add	*99.32*	
		For High Strength Low Alloy A572-50 Steel, Add	*41.70*	
		For High Strength Low Alloy A588 Steel, Add	*92.66*	
		For Each Additional Top Copes >2, Add	*3.58*	
		For Structural Tees, WT, MT Or ST, Deduct	*-146.35*	
		For Skewed Or Sloped Connections, Add	*55.60*	
05 12 23 00-0251	LF	W30 x 173 A992/A36 Structural Beam Or Girder	423.73	84.01
		For Hot Dip Galvanizing, Add	*92.72*	
		For High Strength Low Alloy A572-50 Steel, Add	*38.14*	
		For High Strength Low Alloy A588 Steel, Add	*84.75*	
		For Each Additional Top Copes >2, Add	*3.34*	
		For Structural Tees, WT, MT Or ST, Deduct	*-134.86*	
		For Skewed Or Sloped Connections, Add	*50.85*	
05 12 23 00-0252	LF	W30 x 154 A992/A36 Structural Beam Or Girder	400.15	96.31
		For Hot Dip Galvanizing, Add	*82.53*	
		For High Strength Low Alloy A572-50 Steel, Add	*36.01*	
		For High Strength Low Alloy A588 Steel, Add	*80.03*	
		For Each Additional Top Copes >2, Add	*2.97*	
		For Structural Tees, WT, MT Or ST, Deduct	*-124.64*	
		For Skewed Or Sloped Connections, Add	*48.02*	
05 12 23 00-0253	LF	W30 x 132 A992/A36 Structural Beam Or Girder	356.07	81.05
		For Hot Dip Galvanizing, Add	*74.82*	
		For High Strength Low Alloy A572-50 Steel, Add	*32.05*	
		For High Strength Low Alloy A588 Steel, Add	*71.21*	
		For Each Additional Top Copes >2, Add	*2.70*	
		For Structural Tees, WT, MT Or ST, Deduct	*-111.66*	
		For Skewed Or Sloped Connections, Add	*42.73*	
05 12 23 00-0254	LF	W30 x 124 A992/A36 Structural Beam Or Girder	339.68	81.00
		For Hot Dip Galvanizing, Add	*70.28*	
		For High Strength Low Alloy A572-50 Steel, Add	*30.57*	
		For High Strength Low Alloy A588 Steel, Add	*67.94*	
		For Each Additional Top Copes >2, Add	*2.53*	
		For Structural Tees, WT, MT Or ST, Deduct	*-105.93*	
		For Skewed Or Sloped Connections, Add	*40.76*	
05 12 23 00-0255	LF	W30 x 116 A992/A36 Structural Beam Or Girder	337.14	93.94
		For Hot Dip Galvanizing, Add	*65.75*	
		For High Strength Low Alloy A572-50 Steel, Add	*30.34*	
		For High Strength Low Alloy A588 Steel, Add	*67.43*	
		For Each Additional Top Copes >2, Add	*2.37*	
		For Structural Tees, WT, MT Or ST, Deduct	*-102.97*	
		For Skewed Or Sloped Connections, Add	*40.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0256	LF	W30 x 108 A992/A36 Structural Beam Or Girder	311.91	84.58
		For Hot Dip Galvanizing, Add	*61.54*	
		For High Strength Low Alloy A572-50 Steel, Add	*28.07*	
		For High Strength Low Alloy A588 Steel, Add	*62.38*	
		For Each Additional Top Copes >2, Add	*2.22*	
		For Structural Tees, WT, MT Or ST, Deduct	*-95.64*	
		For Skewed Or Sloped Connections, Add	*37.43*	
05 12 23 00-0257	LF	W30 x 99 A992/A36 Structural Beam Or Girder	298.08	84.16
		For Hot Dip Galvanizing, Add	*57.85*	
		For High Strength Low Alloy A572-50 Steel, Add	*26.83*	
		For High Strength Low Alloy A588 Steel, Add	*59.62*	
		For Each Additional Top Copes >2, Add	*2.08*	
		For Structural Tees, WT, MT Or ST, Deduct	*-90.89*	
		For Skewed Or Sloped Connections, Add	*35.77*	
05 12 23 00-0258	LF	W27 x 178 A992/A36 Structural Beam Or Girder	470.93	98.36
		For Hot Dip Galvanizing, Add	*101.57*	
		For High Strength Low Alloy A572-50 Steel, Add	*42.38*	
		For High Strength Low Alloy A588 Steel, Add	*94.19*	
		For Each Additional Top Copes >2, Add	*3.66*	
		For Structural Tees, WT, MT Or ST, Deduct	*-149.09*	
		For Skewed Or Sloped Connections, Add	*56.51*	
05 12 23 00-0259	LF	W27 x 161 A992/A36 Structural Beam Or Girder	432.01	94.65
		For Hot Dip Galvanizing, Add	*91.87*	
		For High Strength Low Alloy A572-50 Steel, Add	*38.88*	
		For High Strength Low Alloy A588 Steel, Add	*86.40*	
		For Each Additional Top Copes >2, Add	*3.31*	
		For Structural Tees, WT, MT Or ST, Deduct	*-136.06*	
		For Skewed Or Sloped Connections, Add	*51.84*	
05 12 23 00-0260	LF	W27 x 146 A992/A36 Structural Beam Or Girder	397.60	91.30
		For Hot Dip Galvanizing, Add	*83.31*	
		For High Strength Low Alloy A572-50 Steel, Add	*35.78*	
		For High Strength Low Alloy A588 Steel, Add	*79.52*	
		For Each Additional Top Copes >2, Add	*3.00*	
		For Structural Tees, WT, MT Or ST, Deduct	*-124.55*	
		For Skewed Or Sloped Connections, Add	*47.71*	
05 12 23 00-0261	LF	W27 x 114 A992/A36 Structural Beam Or Girder	315.31	75.85
		For Hot Dip Galvanizing, Add	*65.05*	
		For High Strength Low Alloy A572-50 Steel, Add	*28.38*	
		For High Strength Low Alloy A588 Steel, Add	*63.06*	
		For Each Additional Top Copes >2, Add	*2.34*	
		For Structural Tees, WT, MT Or ST, Deduct	*-98.22*	
		For Skewed Or Sloped Connections, Add	*37.84*	
05 12 23 00-0262	LF	W27 x 102 A992/A36 Structural Beam Or Girder	299.47	84.16
		For Hot Dip Galvanizing, Add	*58.20*	
		For High Strength Low Alloy A572-50 Steel, Add	*26.95*	
		For High Strength Low Alloy A588 Steel, Add	*59.89*	
		For Each Additional Top Copes >2, Add	*2.10*	
		For Structural Tees, WT, MT Or ST, Deduct	*-91.35*	
		For Skewed Or Sloped Connections, Add	*35.94*	
05 12 23 00-0263	LF	W27 x 94 A992/A36 Structural Beam Or Girder	286.48	83.60
		For Hot Dip Galvanizing, Add	*54.75*	
		For High Strength Low Alloy A572-50 Steel, Add	*25.78*	
		For High Strength Low Alloy A588 Steel, Add	*57.30*	
		For Each Additional Top Copes >2, Add	*1.97*	
		For Structural Tees, WT, MT Or ST, Deduct	*-86.89*	
		For Skewed Or Sloped Connections, Add	*34.38*	
05 12 23 00-0264	LF	W27 x 84 A992/A36 Structural Beam Or Girder	270.61	83.05
		For Hot Dip Galvanizing, Add	*50.54*	
		For High Strength Low Alloy A572-50 Steel, Add	*24.35*	
		For High Strength Low Alloy A588 Steel, Add	*54.12*	
		For Each Additional Top Copes >2, Add	*1.82*	
		For Structural Tees, WT, MT Or ST, Deduct	*-81.44*	
		For Skewed Or Sloped Connections, Add	*32.47*	
05 12 23 00-0265	LF	W24 x 162 A992/A36 Structural Beam Or Girder	416.11	90.75
		For Hot Dip Galvanizing, Add	*88.61*	
		For High Strength Low Alloy A572-50 Steel, Add	*37.45*	
		For High Strength Low Alloy A588 Steel, Add	*83.22*	
		For Each Additional Top Copes >2, Add	*3.19*	
		For Structural Tees, WT, MT Or ST, Deduct	*-131.12*	
		For Skewed Or Sloped Connections, Add	*49.93*	
05 12 23 00-0266	LF	W24 x 146 A992/A36 Structural Beam Or Girder	380.58	86.99
		For Hot Dip Galvanizing, Add	*79.86*	
		For High Strength Low Alloy A572-50 Steel, Add	*34.25*	
		For High Strength Low Alloy A588 Steel, Add	*76.12*	
		For Each Additional Top Copes >2, Add	*2.88*	
		For Structural Tees, WT, MT Or ST, Deduct	*-119.28*	
		For Skewed Or Sloped Connections, Add	*45.67*	
05 12 23 00-0267	LF	W24 x 131 A992/A36 Structural Beam Or Girder	346.78	83.05
		For Hot Dip Galvanizing, Add	*71.65*	
		For High Strength Low Alloy A572-50 Steel, Add	*31.21*	
		For High Strength Low Alloy A588 Steel, Add	*69.36*	
		For Each Additional Top Copes >2, Add	*2.58*	
		For Structural Tees, WT, MT Or ST, Deduct	*-108.09*	
		For Skewed Or Sloped Connections, Add	*41.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0268	LF	W24 x 117 A992/A36 Structural Beam Or Girder	314.77	78.90
		For Hot Dip Galvanizing, Add	*64.00*	
		For High Strength Low Alloy A572-50 Steel, Add	*28.33*	
		For High Strength Low Alloy A588 Steel, Add	*62.95*	
		For Each Additional Top Copes >2, Add	*2.31*	
		For Structural Tees, WT, MT Or ST, Deduct	*-97.55*	
		For Skewed Or Sloped Connections, Add	*37.77*	
05 12 23 00-0269	LF	W24 x 104 A992/A36 Structural Beam Or Girder	284.57	74.61
		For Hot Dip Galvanizing, Add	*56.88*	
		For High Strength Low Alloy A572-50 Steel, Add	*25.61*	
		For High Strength Low Alloy A588 Steel, Add	*56.91*	
		For Each Additional Top Copes >2, Add	*2.05*	
		For Structural Tees, WT, MT Or ST, Deduct	*-87.66*	
		For Skewed Or Sloped Connections, Add	*34.15*	
05 12 23 00-0270	LF	W24 x 94 A992/A36 Structural Beam Or Girder	274.46	83.60
		For Hot Dip Galvanizing, Add	*51.42*	
		For High Strength Low Alloy A572-50 Steel, Add	*24.70*	
		For High Strength Low Alloy A588 Steel, Add	*54.89*	
		For Each Additional Top Copes >2, Add	*1.85*	
		For Structural Tees, WT, MT Or ST, Deduct	*-82.68*	
		For Skewed Or Sloped Connections, Add	*32.94*	
05 12 23 00-0271	LF	W24 x 84 A992/A36 Structural Beam Or Girder	250.31	74.11
		For Hot Dip Galvanizing, Add	*47.50*	
		For High Strength Low Alloy A572-50 Steel, Add	*22.53*	
		For High Strength Low Alloy A588 Steel, Add	*50.06*	
		For Each Additional Top Copes >2, Add	*1.71*	
		For Structural Tees, WT, MT Or ST, Deduct	*-75.74*	
		For Skewed Or Sloped Connections, Add	*30.04*	
05 12 23 00-0272	LF	W24 x 76 A992/A36 Structural Beam Or Girder	238.15	73.55
		For Hot Dip Galvanizing, Add	*44.28*	
		For High Strength Low Alloy A572-50 Steel, Add	*21.43*	
		For High Strength Low Alloy A588 Steel, Add	*47.63*	
		For Each Additional Top Copes >2, Add	*1.60*	
		For Structural Tees, WT, MT Or ST, Deduct	*-71.57*	
		For Skewed Or Sloped Connections, Add	*28.58*	
05 12 23 00-0273	LF	W24 x 68 A992/A36 Structural Beam Or Girder	222.83	73.14
		For Hot Dip Galvanizing, Add	*40.18*	
		For High Strength Low Alloy A572-50 Steel, Add	*20.05*	
		For High Strength Low Alloy A588 Steel, Add	*44.57*	
		For Each Additional Top Copes >2, Add	*1.45*	
		For Structural Tees, WT, MT Or ST, Deduct	*-66.29*	
		For Skewed Or Sloped Connections, Add	*26.74*	
05 12 23 00-0274	LF	W24 x 62 A992/A36 Structural Beam Or Girder	214.83	72.72
		For Hot Dip Galvanizing, Add	*38.08*	
		For High Strength Low Alloy A572-50 Steel, Add	*19.33*	
		For High Strength Low Alloy A588 Steel, Add	*42.97*	
		For Each Additional Top Copes >2, Add	*1.37*	
		For Structural Tees, WT, MT Or ST, Deduct	*-63.55*	
		For Skewed Or Sloped Connections, Add	*25.78*	
05 12 23 00-0275	LF	W24 x 55 A992/A36 Structural Beam Or Girder	203.87	72.44
		For Hot Dip Galvanizing, Add	*35.15*	
		For High Strength Low Alloy A572-50 Steel, Add	*18.35*	
		For High Strength Low Alloy A588 Steel, Add	*40.77*	
		For Each Additional Top Copes >2, Add	*1.27*	
		For Structural Tees, WT, MT Or ST, Deduct	*-59.78*	
		For Skewed Or Sloped Connections, Add	*24.46*	
05 12 23 00-0276	LF	W21 x 147 A992/A36 Structural Beam Or Girder	364.14	74.62
		For Hot Dip Galvanizing, Add	*78.96*	
		For High Strength Low Alloy A572-50 Steel, Add	*32.77*	
		For High Strength Low Alloy A588 Steel, Add	*72.83*	
		For Each Additional Top Copes >2, Add	*2.85*	
		For Structural Tees, WT, MT Or ST, Deduct	*-115.51*	
		For Skewed Or Sloped Connections, Add	*43.70*	
05 12 23 00-0277	LF	W21 x 132 A992/A36 Structural Beam Or Girder	331.55	71.30
		For Hot Dip Galvanizing, Add	*70.90*	
		For High Strength Low Alloy A572-50 Steel, Add	*29.84*	
		For High Strength Low Alloy A588 Steel, Add	*66.31*	
		For Each Additional Top Copes >2, Add	*2.56*	
		For Structural Tees, WT, MT Or ST, Deduct	*-104.64*	
		For Skewed Or Sloped Connections, Add	*39.79*	
05 12 23 00-0278	LF	W21 x 122 A992/A36 Structural Beam Or Girder	310.92	70.10
		For Hot Dip Galvanizing, Add	*65.53*	
		For High Strength Low Alloy A572-50 Steel, Add	*27.98*	
		For High Strength Low Alloy A588 Steel, Add	*62.18*	
		For Each Additional Top Copes >2, Add	*2.36*	
		For Structural Tees, WT, MT Or ST, Deduct	*-97.61*	
		For Skewed Or Sloped Connections, Add	*37.31*	
05 12 23 00-0279	LF	W21 x 111 A992/A36 Structural Beam Or Girder	287.23	67.85
		For Hot Dip Galvanizing, Add	*59.62*	
		For High Strength Low Alloy A572-50 Steel, Add	*25.85*	
		For High Strength Low Alloy A588 Steel, Add	*57.45*	
		For Each Additional Top Copes >2, Add	*2.15*	
		For Structural Tees, WT, MT Or ST, Deduct	*-89.67*	
		For Skewed Or Sloped Connections, Add	*34.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0280	LF	W21 x 101 A992/A36 Structural Beam Or Girder	265.55	65.68
		For Hot Dip Galvanizing, Add	*54.25*	
		For High Strength Low Alloy A572-50 Steel, Add	*23.90*	
		For High Strength Low Alloy A588 Steel, Add	*53.11*	
		For Each Additional Top Copes >2, Add	*1.96*	
		For Structural Tees, WT, MT Or ST, Deduct	*-82.44*	
		For Skewed Or Sloped Connections, Add	*31.87*	
05 12 23 00-0281	LF	W21 x 93 A992/A36 Structural Beam Or Girder	259.98	74.96
		For Hot Dip Galvanizing, Add	*49.95*	
		For High Strength Low Alloy A572-50 Steel, Add	*23.40*	
		For High Strength Low Alloy A588 Steel, Add	*52.00*	
		For Each Additional Top Copes >2, Add	*1.80*	
		For Structural Tees, WT, MT Or ST, Deduct	*-79.00*	
		For Skewed Or Sloped Connections, Add	*31.20*	
05 12 23 00-0282	LF	W21 x 83 A992/A36 Structural Beam Or Girder	245.67	74.11
		For Hot Dip Galvanizing, Add	*46.21*	
		For High Strength Low Alloy A572-50 Steel, Add	*22.11*	
		For High Strength Low Alloy A588 Steel, Add	*49.13*	
		For Each Additional Top Copes >2, Add	*1.67*	
		For Structural Tees, WT, MT Or ST, Deduct	*-74.11*	
		For Skewed Or Sloped Connections, Add	*29.48*	
05 12 23 00-0283	LF	W21 x 73 A992/A36 Structural Beam Or Girder	228.10	73.55
		For Hot Dip Galvanizing, Add	*41.53*	
		For High Strength Low Alloy A572-50 Steel, Add	*20.53*	
		For High Strength Low Alloy A588 Steel, Add	*45.62*	
		For Each Additional Top Copes >2, Add	*1.50*	
		For Structural Tees, WT, MT Or ST, Deduct	*-68.07*	
		For Skewed Or Sloped Connections, Add	*27.37*	
05 12 23 00-0284	LF	W21 x 68 A992/A36 Structural Beam Or Girder	219.25	73.14
		For Hot Dip Galvanizing, Add	*39.19*	
		For High Strength Low Alloy A572-50 Steel, Add	*19.73*	
		For High Strength Low Alloy A588 Steel, Add	*43.85*	
		For Each Additional Top Copes >2, Add	*1.41*	
		For Structural Tees, WT, MT Or ST, Deduct	*-65.03*	
		For Skewed Or Sloped Connections, Add	*26.31*	
05 12 23 00-0285	LF	W21 x 62 A992/A36 Structural Beam Or Girder	211.25	72.72
		For Hot Dip Galvanizing, Add	*37.09*	
		For High Strength Low Alloy A572-50 Steel, Add	*19.01*	
		For High Strength Low Alloy A588 Steel, Add	*42.25*	
		For Each Additional Top Copes >2, Add	*1.34*	
		For Structural Tees, WT, MT Or ST, Deduct	*-62.30*	
		For Skewed Or Sloped Connections, Add	*25.35*	
05 12 23 00-0286	LF	W21 x 57 A992/A36 Structural Beam Or Girder	204.01	72.58
		For Hot Dip Galvanizing, Add	*35.15*	
		For High Strength Low Alloy A572-50 Steel, Add	*18.36*	
		For High Strength Low Alloy A588 Steel, Add	*40.80*	
		For Each Additional Top Copes >2, Add	*1.27*	
		For Structural Tees, WT, MT Or ST, Deduct	*-59.80*	
		For Skewed Or Sloped Connections, Add	*24.48*	
05 12 23 00-0287	LF	W21 x 50 A992/A36 Structural Beam Or Girder	180.88	62.95
		For Hot Dip Galvanizing, Add	*31.53*	
		For High Strength Low Alloy A572-50 Steel, Add	*16.28*	
		For High Strength Low Alloy A588 Steel, Add	*36.18*	
		For Each Additional Top Copes >2, Add	*1.14*	
		For Structural Tees, WT, MT Or ST, Deduct	*-53.22*	
		For Skewed Or Sloped Connections, Add	*21.71*	
05 12 23 00-0288	LF	W21 x 44 A992/A36 Structural Beam Or Girder	172.46	62.67
		For Hot Dip Galvanizing, Add	*29.30*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.52*	
		For High Strength Low Alloy A588 Steel, Add	*34.49*	
		For Each Additional Top Copes >2, Add	*1.06*	
		For Structural Tees, WT, MT Or ST, Deduct	*-50.33*	
		For Skewed Or Sloped Connections, Add	*20.70*	
05 12 23 00-0289	LF	W18 x 119 A992/A36 Structural Beam Or Girder	302.34	69.86
		For Hot Dip Galvanizing, Add	*63.22*	
		For High Strength Low Alloy A572-50 Steel, Add	*27.21*	
		For High Strength Low Alloy A588 Steel, Add	*60.47*	
		For Each Additional Top Copes >2, Add	*2.28*	
		For Structural Tees, WT, MT Or ST, Deduct	*-94.64*	
		For Skewed Or Sloped Connections, Add	*36.28*	
05 12 23 00-0290	LF	W18 x 106 A992/A36 Structural Beam Or Girder	273.54	66.20
		For Hot Dip Galvanizing, Add	*56.31*	
		For High Strength Low Alloy A572-50 Steel, Add	*24.62*	
		For High Strength Low Alloy A588 Steel, Add	*54.71*	
		For Each Additional Top Copes >2, Add	*2.03*	
		For Structural Tees, WT, MT Or ST, Deduct	*-85.15*	
		For Skewed Or Sloped Connections, Add	*32.82*	
05 12 23 00-0291	LF	W18 x 97 A992/A36 Structural Beam Or Girder	265.82	74.96
		For Hot Dip Galvanizing, Add	*51.53*	
		For High Strength Low Alloy A572-50 Steel, Add	*23.92*	
		For High Strength Low Alloy A588 Steel, Add	*53.16*	
		For Each Additional Top Copes >2, Add	*1.86*	
		For Structural Tees, WT, MT Or ST, Deduct	*-81.02*	
		For Skewed Or Sloped Connections, Add	*31.90*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0292	LF	W18 x 86 A992/A36 Structural Beam Or Girder	249.39	74.26
		For Hot Dip Galvanizing, Add	*47.21*	
		For High Strength Low Alloy A572-50 Steel, Add	*22.45*	
		For High Strength Low Alloy A588 Steel, Add	*49.88*	
		For Each Additional Top Copes >2, Add	*1.70*	
		For Structural Tees, WT, MT Or ST, Deduct	*-75.39*	
		For Skewed Or Sloped Connections, Add	*29.93*	
05 12 23 00-0293	LF	W18 x 76 A992/A36 Structural Beam Or Girder	234.56	73.55
		For Hot Dip Galvanizing, Add	*43.28*	
		For High Strength Low Alloy A572-50 Steel, Add	*21.11*	
		For High Strength Low Alloy A588 Steel, Add	*46.91*	
		For Each Additional Top Copes >2, Add	*1.56*	
		For Structural Tees, WT, MT Or ST, Deduct	*-70.31*	
		For Skewed Or Sloped Connections, Add	*28.15*	
05 12 23 00-0294	LF	W18 x 71 A992/A36 Structural Beam Or Girder	223.74	73.42
		For Hot Dip Galvanizing, Add	*40.36*	
		For High Strength Low Alloy A572-50 Steel, Add	*20.14*	
		For High Strength Low Alloy A588 Steel, Add	*44.75*	
		For Each Additional Top Copes >2, Add	*1.45*	
		For Structural Tees, WT, MT Or ST, Deduct	*-66.56*	
		For Skewed Or Sloped Connections, Add	*26.85*	
05 12 23 00-0295	LF	W18 x 65 A992/A36 Structural Beam Or Girder	213.22	73.14
		For Hot Dip Galvanizing, Add	*37.55*	
		For High Strength Low Alloy A572-50 Steel, Add	*19.19*	
		For High Strength Low Alloy A588 Steel, Add	*42.64*	
		For Each Additional Top Copes >2, Add	*1.35*	
		For Structural Tees, WT, MT Or ST, Deduct	*-62.94*	
		For Skewed Or Sloped Connections, Add	*25.59*	
05 12 23 00-0296	LF	W18 x 60 A992/A36 Structural Beam Or Girder	203.72	72.58
		For Hot Dip Galvanizing, Add	*35.04*	
		For High Strength Low Alloy A572-50 Steel, Add	*18.33*	
		For High Strength Low Alloy A588 Steel, Add	*40.74*	
		For Each Additional Top Copes >2, Add	*1.26*	
		For Structural Tees, WT, MT Or ST, Deduct	*-59.68*	
		For Skewed Or Sloped Connections, Add	*24.45*	
05 12 23 00-0297	LF	W18 x 55 A992/A36 Structural Beam Or Girder	194.18	72.44
		For Hot Dip Galvanizing, Add	*32.46*	
		For High Strength Low Alloy A572-50 Steel, Add	*17.48*	
		For High Strength Low Alloy A588 Steel, Add	*38.84*	
		For Each Additional Top Copes >2, Add	*1.17*	
		For Structural Tees, WT, MT Or ST, Deduct	*-56.38*	
		For Skewed Or Sloped Connections, Add	*23.30*	
05 12 23 00-0298	LF	W18 x 50 A992/A36 Structural Beam Or Girder	174.98	62.95
		For Hot Dip Galvanizing, Add	*29.89*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.75*	
		For High Strength Low Alloy A588 Steel, Add	*35.00*	
		For Each Additional Top Copes >2, Add	*1.08*	
		For Structural Tees, WT, MT Or ST, Deduct	*-51.15*	
		For Skewed Or Sloped Connections, Add	*21.00*	
05 12 23 00-0299	LF	W18 x 46 A992/A36 Structural Beam Or Girder	167.54	62.80
		For Hot Dip Galvanizing, Add	*27.90*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.08*	
		For High Strength Low Alloy A588 Steel, Add	*33.51*	
		For Each Additional Top Copes >2, Add	*1.01*	
		For Structural Tees, WT, MT Or ST, Deduct	*-48.59*	
		For Skewed Or Sloped Connections, Add	*20.10*	
05 12 23 00-0300	LF	W18 x 40 A992/A36 Structural Beam Or Girder	146.59	53.59
		For Hot Dip Galvanizing, Add	*24.80*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.19*	
		For High Strength Low Alloy A588 Steel, Add	*29.32*	
		For Each Additional Top Copes >2, Add	*0.89*	
		For Structural Tees, WT, MT Or ST, Deduct	*-42.72*	
		For Skewed Or Sloped Connections, Add	*17.59*	
05 12 23 00-0301	LF	W18 x 35 A992/A36 Structural Beam Or Girder	137.26	53.46
		For Hot Dip Galvanizing, Add	*22.29*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.35*	
		For High Strength Low Alloy A588 Steel, Add	*27.45*	
		For Each Additional Top Copes >2, Add	*0.80*	
		For Structural Tees, WT, MT Or ST, Deduct	*-39.50*	
		For Skewed Or Sloped Connections, Add	*16.47*	
05 12 23 00-0302	LF	W16 x 100 A992/A36 Structural Beam Or Girder	251.54	48.71
		For Hot Dip Galvanizing, Add	*55.39*	
		For High Strength Low Alloy A572-50 Steel, Add	*22.64*	
		For High Strength Low Alloy A588 Steel, Add	*50.31*	
		For Each Additional Top Copes >2, Add	*2.00*	
		For Structural Tees, WT, MT Or ST, Deduct	*-80.25*	
		For Skewed Or Sloped Connections, Add	*30.18*	
05 12 23 00-0303	LF	W16 x 89 A992/A36 Structural Beam Or Girder	230.47	47.88
		For Hot Dip Galvanizing, Add	*49.78*	
		For High Strength Low Alloy A572-50 Steel, Add	*20.74*	
		For High Strength Low Alloy A588 Steel, Add	*46.09*	
		For Each Additional Top Copes >2, Add	*1.79*	
		For Structural Tees, WT, MT Or ST, Deduct	*-73.00*	
		For Skewed Or Sloped Connections, Add	*27.66*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0304	LF	W16 x 77 A992/A36 Structural Beam Or Girder	207.84	47.32
		For Hot Dip Galvanizing, Add	*43.70*	
		For High Strength Low Alloy A572-50 Steel, Add	*18.71*	
		For High Strength Low Alloy A588 Steel, Add	*41.57*	
		For Each Additional Top Copes >2, Add	*1.57*	
		For Structural Tees, WT, MT Or ST, Deduct	*-65.19*	
		For Skewed Or Sloped Connections, Add	*24.94*	
05 12 23 00-0305	LF	W16 x 67 A992/A36 Structural Beam Or Girder	188.60	46.62
		For Hot Dip Galvanizing, Add	*38.55*	
		For High Strength Low Alloy A572-50 Steel, Add	*16.97*	
		For High Strength Low Alloy A588 Steel, Add	*37.72*	
		For Each Additional Top Copes >2, Add	*1.39*	
		For Structural Tees, WT, MT Or ST, Deduct	*-58.56*	
		For Skewed Or Sloped Connections, Add	*22.63*	
05 12 23 00-0306	LF	W16 x 57 A992/A36 Structural Beam Or Girder	169.56	45.92
		For Hot Dip Galvanizing, Add	*33.46*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.26*	
		For High Strength Low Alloy A588 Steel, Add	*33.91*	
		For Each Additional Top Copes >2, Add	*1.21*	
		For Structural Tees, WT, MT Or ST, Deduct	*-52.00*	
		For Skewed Or Sloped Connections, Add	*20.35*	
05 12 23 00-0307	LF	W16 x 50 A992/A36 Structural Beam Or Girder	156.28	45.50
		For Hot Dip Galvanizing, Add	*29.89*	
		For High Strength Low Alloy A572-50 Steel, Add	*14.07*	
		For High Strength Low Alloy A588 Steel, Add	*31.26*	
		For Each Additional Top Copes >2, Add	*1.08*	
		For Structural Tees, WT, MT Or ST, Deduct	*-47.41*	
		For Skewed Or Sloped Connections, Add	*18.75*	
05 12 23 00-0308	LF	W16 x 45 A992/A36 Structural Beam Or Girder	146.94	45.23
		For Hot Dip Galvanizing, Add	*27.38*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.22*	
		For High Strength Low Alloy A588 Steel, Add	*29.39*	
		For Each Additional Top Copes >2, Add	*0.99*	
		For Structural Tees, WT, MT Or ST, Deduct	*-44.19*	
		For Skewed Or Sloped Connections, Add	*17.63*	
05 12 23 00-0309	LF	W16 x 40 A992/A36 Structural Beam Or Girder	137.25	44.80
		For Hot Dip Galvanizing, Add	*24.80*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.35*	
		For High Strength Low Alloy A588 Steel, Add	*27.45*	
		For Each Additional Top Copes >2, Add	*0.89*	
		For Structural Tees, WT, MT Or ST, Deduct	*-40.86*	
		For Skewed Or Sloped Connections, Add	*16.47*	
05 12 23 00-0310	LF	W16 x 36 A992/A36 Structural Beam Or Girder	129.66	44.52
		For Hot Dip Galvanizing, Add	*22.81*	
		For High Strength Low Alloy A572-50 Steel, Add	*11.67*	
		For High Strength Low Alloy A588 Steel, Add	*25.93*	
		For Each Additional Top Copes >2, Add	*0.82*	
		For Structural Tees, WT, MT Or ST, Deduct	*-38.26*	
		For Skewed Or Sloped Connections, Add	*15.56*	
05 12 23 00-0311	LF	W16 x 31 A992/A36 Structural Beam Or Girder	110.75	35.46
		For Hot Dip Galvanizing, Add	*20.24*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.97*	
		For High Strength Low Alloy A588 Steel, Add	*22.15*	
		For Each Additional Top Copes >2, Add	*0.73*	
		For Structural Tees, WT, MT Or ST, Deduct	*-33.09*	
		For Skewed Or Sloped Connections, Add	*13.29*	
05 12 23 00-0312	LF	W16 x 26 A992/A36 Structural Beam Or Girder	98.56	35.03
		For Hot Dip Galvanizing, Add	*16.97*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.87*	
		For High Strength Low Alloy A588 Steel, Add	*19.71*	
		For Each Additional Top Copes >2, Add	*0.61*	
		For Structural Tees, WT, MT Or ST, Deduct	*-28.88*	
		For Skewed Or Sloped Connections, Add	*11.83*	
05 12 23 00-0313	LF	W14 x 99 A992/A36 Structural Beam Or Girder	240.29	39.92
		For Hot Dip Galvanizing, Add	*54.87*	
		For High Strength Low Alloy A572-50 Steel, Add	*21.63*	
		For High Strength Low Alloy A588 Steel, Add	*48.06*	
		For Each Additional Top Copes >2, Add	*1.98*	
		For Structural Tees, WT, MT Or ST, Deduct	*-77.72*	
		For Skewed Or Sloped Connections, Add	*28.83*	
05 12 23 00-0314	LF	W14 x 90 A992/A36 Structural Beam Or Girder	223.15	39.22
		For Hot Dip Galvanizing, Add	*50.31*	
		For High Strength Low Alloy A572-50 Steel, Add	*20.08*	
		For High Strength Low Alloy A588 Steel, Add	*44.63*	
		For Each Additional Top Copes >2, Add	*1.81*	
		For Structural Tees, WT, MT Or ST, Deduct	*-71.82*	
		For Skewed Or Sloped Connections, Add	*26.78*	
05 12 23 00-0315	LF	W14 x 82 A992/A36 Structural Beam Or Girder	207.84	38.80
		For Hot Dip Galvanizing, Add	*46.21*	
		For High Strength Low Alloy A572-50 Steel, Add	*18.71*	
		For High Strength Low Alloy A588 Steel, Add	*41.57*	
		For Each Additional Top Copes >2, Add	*1.67*	
		For Structural Tees, WT, MT Or ST, Deduct	*-66.55*	
		For Skewed Or Sloped Connections, Add	*24.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0316	LF	W14 x 74 A992/A36 Structural Beam Or Girder	192.54	38.24
		For Hot Dip Galvanizing, Add	*42.12*	
		For High Strength Low Alloy A572-50 Steel, Add	*17.33*	
		For High Strength Low Alloy A588 Steel, Add	*38.51*	
		For Each Additional Top Copes >2, Add	*1.52*	
		For Structural Tees, WT, MT Or ST, Deduct	*-61.27*	
		For Skewed Or Sloped Connections, Add	*23.10*	
05 12 23 00-0317	LF	W14 x 68 A992/A36 Structural Beam Or Girder	181.15	37.83
		For Hot Dip Galvanizing, Add	*39.07*	
		For High Strength Low Alloy A572-50 Steel, Add	*16.30*	
		For High Strength Low Alloy A588 Steel, Add	*36.23*	
		For Each Additional Top Copes >2, Add	*1.41*	
		For Structural Tees, WT, MT Or ST, Deduct	*-57.35*	
		For Skewed Or Sloped Connections, Add	*21.74*	
05 12 23 00-0318	LF	W14 x 61 A992/A36 Structural Beam Or Girder	167.87	37.41
		For Hot Dip Galvanizing, Add	*35.51*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.11*	
		For High Strength Low Alloy A588 Steel, Add	*33.57*	
		For Each Additional Top Copes >2, Add	*1.28*	
		For Structural Tees, WT, MT Or ST, Deduct	*-52.77*	
		For Skewed Or Sloped Connections, Add	*20.14*	
05 12 23 00-0319	LF	W14 x 53 A992/A36 Structural Beam Or Girder	152.76	36.85
		For Hot Dip Galvanizing, Add	*31.47*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.75*	
		For High Strength Low Alloy A588 Steel, Add	*30.55*	
		For Each Additional Top Copes >2, Add	*1.13*	
		For Structural Tees, WT, MT Or ST, Deduct	*-47.56*	
		For Skewed Or Sloped Connections, Add	*18.33*	
05 12 23 00-0320	LF	W14 x 48 A992/A36 Structural Beam Or Girder	143.07	36.43
		For Hot Dip Galvanizing, Add	*28.90*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.88*	
		For High Strength Low Alloy A588 Steel, Add	*28.61*	
		For Each Additional Top Copes >2, Add	*1.04*	
		For Structural Tees, WT, MT Or ST, Deduct	*-44.23*	
		For Skewed Or Sloped Connections, Add	*17.17*	
05 12 23 00-0321	LF	W14 x 43 A992/A36 Structural Beam Or Girder	133.51	36.29
		For Hot Dip Galvanizing, Add	*26.32*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.02*	
		For High Strength Low Alloy A588 Steel, Add	*26.70*	
		For Each Additional Top Copes >2, Add	*0.95*	
		For Structural Tees, WT, MT Or ST, Deduct	*-40.93*	
		For Skewed Or Sloped Connections, Add	*16.02*	
05 12 23 00-0322	LF	W14 x 38 A992/A36 Structural Beam Or Girder	124.03	36.01
		For Hot Dip Galvanizing, Add	*23.81*	
		For High Strength Low Alloy A572-50 Steel, Add	*11.16*	
		For High Strength Low Alloy A588 Steel, Add	*24.81*	
		For Each Additional Top Copes >2, Add	*0.86*	
		For Structural Tees, WT, MT Or ST, Deduct	*-37.67*	
		For Skewed Or Sloped Connections, Add	*14.88*	
05 12 23 00-0323	LF	W14 x 34 A992/A36 Structural Beam Or Girder	116.37	35.59
		For Hot Dip Galvanizing, Add	*21.76*	
		For High Strength Low Alloy A572-50 Steel, Add	*10.47*	
		For High Strength Low Alloy A588 Steel, Add	*23.27*	
		For Each Additional Top Copes >2, Add	*0.78*	
		For Structural Tees, WT, MT Or ST, Deduct	*-35.04*	
		For Skewed Or Sloped Connections, Add	*13.96*	
05 12 23 00-0324	LF	W14 x 30 A992/A36 Structural Beam Or Girder	108.72	35.46
		For Hot Dip Galvanizing, Add	*19.71*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.78*	
		For High Strength Low Alloy A588 Steel, Add	*21.74*	
		For Each Additional Top Copes >2, Add	*0.71*	
		For Structural Tees, WT, MT Or ST, Deduct	*-32.40*	
		For Skewed Or Sloped Connections, Add	*13.05*	
05 12 23 00-0325	LF	W14 x 26 A992/A36 Structural Beam Or Girder	101.07	35.03
		For Hot Dip Galvanizing, Add	*17.67*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.10*	
		For High Strength Low Alloy A588 Steel, Add	*20.21*	
		For Each Additional Top Copes >2, Add	*0.64*	
		For Structural Tees, WT, MT Or ST, Deduct	*-29.76*	
		For Skewed Or Sloped Connections, Add	*12.13*	
05 12 23 00-0326	LF	W14 x 22 A992/A36 Structural Beam Or Girder	93.62	34.89
		For Hot Dip Galvanizing, Add	*15.68*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.43*	
		For High Strength Low Alloy A588 Steel, Add	*18.72*	
		For Each Additional Top Copes >2, Add	*0.56*	
		For Structural Tees, WT, MT Or ST, Deduct	*-27.20*	
		For Skewed Or Sloped Connections, Add	*11.23*	
05 12 23 00-0327	LF	W12 x 87 A992/A36 Structural Beam Or Girder	217.53	39.08
		For Hot Dip Galvanizing, Add	*48.78*	
		For High Strength Low Alloy A572-50 Steel, Add	*19.58*	
		For High Strength Low Alloy A588 Steel, Add	*43.51*	
		For Each Additional Top Copes >2, Add	*1.76*	
		For Structural Tees, WT, MT Or ST, Deduct	*-69.88*	
		For Skewed Or Sloped Connections, Add	*26.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0328	LF	W12 x 79 A992/A36 Structural Beam Or Girder	202.21	38.52
		For Hot Dip Galvanizing, Add	*44.69*	
		For High Strength Low Alloy A572-50 Steel, Add	*18.20*	
		For High Strength Low Alloy A588 Steel, Add	*40.44*	
		For Each Additional Top Copes >2, Add	*1.61*	
		For Structural Tees, WT, MT Or ST, Deduct	*-64.60*	
		For Skewed Or Sloped Connections, Add	*24.27*	
05 12 23 00-0329	LF	W12 x 72 A992/A36 Structural Beam Or Girder	188.79	38.11
		For Hot Dip Galvanizing, Add	*41.12*	
		For High Strength Low Alloy A572-50 Steel, Add	*16.99*	
		For High Strength Low Alloy A588 Steel, Add	*37.76*	
		For Each Additional Top Copes >2, Add	*1.48*	
		For Structural Tees, WT, MT Or ST, Deduct	*-59.99*	
		For Skewed Or Sloped Connections, Add	*22.65*	
05 12 23 00-0330	LF	W12 x 65 A992/A36 Structural Beam Or Girder	175.53	37.69
		For Hot Dip Galvanizing, Add	*37.55*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.80*	
		For High Strength Low Alloy A588 Steel, Add	*35.11*	
		For Each Additional Top Copes >2, Add	*1.35*	
		For Structural Tees, WT, MT Or ST, Deduct	*-55.41*	
		For Skewed Or Sloped Connections, Add	*21.06*	
05 12 23 00-0331	LF	W12 x 58 A992/A36 Structural Beam Or Girder	162.10	37.13
		For Hot Dip Galvanizing, Add	*33.99*	
		For High Strength Low Alloy A572-50 Steel, Add	*14.59*	
		For High Strength Low Alloy A588 Steel, Add	*32.42*	
		For Each Additional Top Copes >2, Add	*1.22*	
		For Structural Tees, WT, MT Or ST, Deduct	*-50.79*	
		For Skewed Or Sloped Connections, Add	*19.45*	
05 12 23 00-0332	LF	W12 x 53 A992/A36 Structural Beam Or Girder	152.76	36.85
		For Hot Dip Galvanizing, Add	*31.47*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.75*	
		For High Strength Low Alloy A588 Steel, Add	*30.55*	
		For Each Additional Top Copes >2, Add	*1.13*	
		For Structural Tees, WT, MT Or ST, Deduct	*-47.56*	
		For Skewed Or Sloped Connections, Add	*18.33*	
05 12 23 00-0333	LF	W12 x 50 A992/A36 Structural Beam Or Girder	146.79	36.70
		For Hot Dip Galvanizing, Add	*29.89*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.21*	
		For High Strength Low Alloy A588 Steel, Add	*29.36*	
		For Each Additional Top Copes >2, Add	*1.08*	
		For Structural Tees, WT, MT Or ST, Deduct	*-45.51*	
		For Skewed Or Sloped Connections, Add	*17.61*	
05 12 23 00-0334	LF	W12 x 45 A992/A36 Structural Beam Or Girder	137.45	36.43
		For Hot Dip Galvanizing, Add	*27.38*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.37*	
		For High Strength Low Alloy A588 Steel, Add	*27.49*	
		For Each Additional Top Copes >2, Add	*0.99*	
		For Structural Tees, WT, MT Or ST, Deduct	*-42.29*	
		For Skewed Or Sloped Connections, Add	*16.49*	
05 12 23 00-0335	LF	W12 x 40 A992/A36 Structural Beam Or Girder	118.27	27.08
		For Hot Dip Galvanizing, Add	*24.80*	
		For High Strength Low Alloy A572-50 Steel, Add	*10.64*	
		For High Strength Low Alloy A588 Steel, Add	*23.65*	
		For Each Additional Top Copes >2, Add	*0.89*	
		For Structural Tees, WT, MT Or ST, Deduct	*-37.06*	
		For Skewed Or Sloped Connections, Add	*14.19*	
05 12 23 00-0336	LF	W12 x 35 A992/A36 Structural Beam Or Girder	108.93	26.94
		For Hot Dip Galvanizing, Add	*22.29*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.80*	
		For High Strength Low Alloy A588 Steel, Add	*21.79*	
		For Each Additional Top Copes >2, Add	*0.80*	
		For Structural Tees, WT, MT Or ST, Deduct	*-33.83*	
		For Skewed Or Sloped Connections, Add	*13.07*	
05 12 23 00-0337	LF	W12 x 30 A992/A36 Structural Beam Or Girder	99.23	26.52
		For Hot Dip Galvanizing, Add	*19.71*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.93*	
		For High Strength Low Alloy A588 Steel, Add	*19.85*	
		For Each Additional Top Copes >2, Add	*0.71*	
		For Structural Tees, WT, MT Or ST, Deduct	*-30.50*	
		For Skewed Or Sloped Connections, Add	*11.91*	
05 12 23 00-0338	LF	W12 x 26 A992/A36 Structural Beam Or Girder	91.58	26.24
		For Hot Dip Galvanizing, Add	*17.67*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.24*	
		For High Strength Low Alloy A588 Steel, Add	*18.32*	
		For Each Additional Top Copes >2, Add	*0.64*	
		For Structural Tees, WT, MT Or ST, Deduct	*-27.87*	
		For Skewed Or Sloped Connections, Add	*10.99*	
05 12 23 00-0339	LF	W12 x 22 A992/A36 Structural Beam Or Girder	84.13	25.97
		For Hot Dip Galvanizing, Add	*15.68*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.57*	
		For High Strength Low Alloy A588 Steel, Add	*16.83*	
		For Each Additional Top Copes >2, Add	*0.56*	
		For Structural Tees, WT, MT Or ST, Deduct	*-25.30*	
		For Skewed Or Sloped Connections, Add	*10.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0340	LF	W12 x 19 A992/A36 Structural Beam Or Girder	78.29	25.82
		For Hot Dip Galvanizing, Add	*14.10*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.05*	
		For High Strength Low Alloy A588 Steel, Add	*15.66*	
		For Each Additional Top Copes >2, Add	*0.51*	
		For Structural Tees, WT, MT Or ST, Deduct	*-23.28*	
		For Skewed Or Sloped Connections, Add	*9.39*	
05 12 23 00-0341	LF	W12 x 16 A992/A36 Structural Beam Or Girder	72.53	25.40
		For Hot Dip Galvanizing, Add	*12.58*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.53*	
		For High Strength Low Alloy A588 Steel, Add	*14.51*	
		For Each Additional Top Copes >2, Add	*0.45*	
		For Structural Tees, WT, MT Or ST, Deduct	*-21.30*	
		For Skewed Or Sloped Connections, Add	*8.70*	
05 12 23 00-0342	LF	W12 x 14 A992/A36 Structural Beam Or Girder	68.82	25.40
		For Hot Dip Galvanizing, Add	*11.58*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.19*	
		For High Strength Low Alloy A588 Steel, Add	*13.76*	
		For Each Additional Top Copes >2, Add	*0.42*	
		For Structural Tees, WT, MT Or ST, Deduct	*-20.03*	
		For Skewed Or Sloped Connections, Add	*8.26*	
05 12 23 00-0343	LF	W10 x 68 A992/A36 Structural Beam Or Girder	172.22	29.17
		For Hot Dip Galvanizing, Add	*39.19*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.50*	
		For High Strength Low Alloy A588 Steel, Add	*34.44*	
		For Each Additional Top Copes >2, Add	*1.41*	
		For Structural Tees, WT, MT Or ST, Deduct	*-55.63*	
		For Skewed Or Sloped Connections, Add	*20.67*	
05 12 23 00-0344	LF	W10 x 60 A992/A36 Structural Beam Or Girder	157.11	28.62
		For Hot Dip Galvanizing, Add	*35.15*	
		For High Strength Low Alloy A572-50 Steel, Add	*14.14*	
		For High Strength Low Alloy A588 Steel, Add	*31.42*	
		For Each Additional Top Copes >2, Add	*1.27*	
		For Structural Tees, WT, MT Or ST, Deduct	*-50.42*	
		For Skewed Or Sloped Connections, Add	*18.85*	
05 12 23 00-0345	LF	W10 x 54 A992/A36 Structural Beam Or Girder	145.52	28.05
		For Hot Dip Galvanizing, Add	*32.05*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.10*	
		For High Strength Low Alloy A588 Steel, Add	*29.10*	
		For Each Additional Top Copes >2, Add	*1.16*	
		For Structural Tees, WT, MT Or ST, Deduct	*-46.43*	
		For Skewed Or Sloped Connections, Add	*17.46*	
05 12 23 00-0346	LF	W10 x 49 A992/A36 Structural Beam Or Girder	136.04	27.77
		For Hot Dip Galvanizing, Add	*29.54*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.24*	
		For High Strength Low Alloy A588 Steel, Add	*27.21*	
		For Each Additional Top Copes >2, Add	*1.06*	
		For Structural Tees, WT, MT Or ST, Deduct	*-43.18*	
		For Skewed Or Sloped Connections, Add	*16.32*	
05 12 23 00-0347	LF	W10 x 45 A992/A36 Structural Beam Or Girder	128.38	27.64
		For Hot Dip Galvanizing, Add	*27.49*	
		For High Strength Low Alloy A572-50 Steel, Add	*11.55*	
		For High Strength Low Alloy A588 Steel, Add	*25.68*	
		For Each Additional Top Copes >2, Add	*0.99*	
		For Structural Tees, WT, MT Or ST, Deduct	*-40.54*	
		For Skewed Or Sloped Connections, Add	*15.41*	
05 12 23 00-0348	LF	W10 x 39 A992/A36 Structural Beam Or Girder	117.01	27.08
		For Hot Dip Galvanizing, Add	*24.45*	
		For High Strength Low Alloy A572-50 Steel, Add	*10.53*	
		For High Strength Low Alloy A588 Steel, Add	*23.40*	
		For Each Additional Top Copes >2, Add	*0.88*	
		For Structural Tees, WT, MT Or ST, Deduct	*-36.62*	
		For Skewed Or Sloped Connections, Add	*14.04*	
05 12 23 00-0349	LF	W10 x 33 A992/A36 Structural Beam Or Girder	105.62	26.66
		For Hot Dip Galvanizing, Add	*21.41*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.51*	
		For High Strength Low Alloy A588 Steel, Add	*21.12*	
		For Each Additional Top Copes >2, Add	*0.77*	
		For Structural Tees, WT, MT Or ST, Deduct	*-32.70*	
		For Skewed Or Sloped Connections, Add	*12.67*	
05 12 23 00-0350	LF	W10 x 30 A992/A36 Structural Beam Or Girder	99.80	26.52
		For Hot Dip Galvanizing, Add	*19.83*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.98*	
		For High Strength Low Alloy A588 Steel, Add	*19.96*	
		For Each Additional Top Copes >2, Add	*0.71*	
		For Structural Tees, WT, MT Or ST, Deduct	*-30.68*	
		For Skewed Or Sloped Connections, Add	*11.98*	
05 12 23 00-0351	LF	W10 x 26 A992/A36 Structural Beam Or Girder	92.34	26.38
		For Hot Dip Galvanizing, Add	*17.84*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.31*	
		For High Strength Low Alloy A588 Steel, Add	*18.47*	
		For Each Additional Top Copes >2, Add	*0.64*	
		For Structural Tees, WT, MT Or ST, Deduct	*-28.11*	
		For Skewed Or Sloped Connections, Add	*11.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0352	LF	W10 x 22 A992/A36 Structural Beam Or Girder	84.55	25.97
		For Hot Dip Galvanizing, Add	*15.79*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.61*	
		For High Strength Low Alloy A588 Steel, Add	*16.91*	
		For Each Additional Top Copes >2, Add	*0.57*	
		For Structural Tees, WT, MT Or ST, Deduct	*-25.45*	
		For Skewed Or Sloped Connections, Add	*10.15*	
05 12 23 00-0353	LF	W10 x 19 A992/A36 Structural Beam Or Girder	78.92	25.82
		For Hot Dip Galvanizing, Add	*14.27*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.10*	
		For High Strength Low Alloy A588 Steel, Add	*15.78*	
		For Each Additional Top Copes >2, Add	*0.51*	
		For Structural Tees, WT, MT Or ST, Deduct	*-23.50*	
		For Skewed Or Sloped Connections, Add	*9.47*	
05 12 23 00-0354	LF	W10 x 17 A992/A36 Structural Beam Or Girder	75.00	25.68
		For Hot Dip Galvanizing, Add	*13.22*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.75*	
		For High Strength Low Alloy A588 Steel, Add	*15.00*	
		For Each Additional Top Copes >2, Add	*0.48*	
		For Structural Tees, WT, MT Or ST, Deduct	*-22.15*	
		For Skewed Or Sloped Connections, Add	*9.00*	
05 12 23 00-0355	LF	W10 x 15 A992/A36 Structural Beam Or Girder	71.26	25.40
		For Hot Dip Galvanizing, Add	*12.22*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.41*	
		For High Strength Low Alloy A588 Steel, Add	*14.25*	
		For Each Additional Top Copes >2, Add	*0.44*	
		For Structural Tees, WT, MT Or ST, Deduct	*-20.86*	
		For Skewed Or Sloped Connections, Add	*8.55*	
05 12 23 00-0356	LF	W10 x 12 A992/A36 Structural Beam Or Girder	65.65	25.40
		For Hot Dip Galvanizing, Add	*10.70*	
		For High Strength Low Alloy A572-50 Steel, Add	*5.91*	
		For High Strength Low Alloy A588 Steel, Add	*13.13*	
		For Each Additional Top Copes >2, Add	*0.39*	
		For Structural Tees, WT, MT Or ST, Deduct	*-18.92*	
		For Skewed Or Sloped Connections, Add	*7.88*	
05 12 23 00-0357	LF	W8 x 35 A992/A36 Structural Beam Or Girder	109.35	26.94
		For Hot Dip Galvanizing, Add	*22.40*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.84*	
		For High Strength Low Alloy A588 Steel, Add	*21.87*	
		For Each Additional Top Copes >2, Add	*0.81*	
		For Structural Tees, WT, MT Or ST, Deduct	*-33.98*	
		For Skewed Or Sloped Connections, Add	*13.12*	
05 12 23 00-0358	LF	W8 x 31 A992/A36 Structural Beam Or Girder	101.69	26.52
		For Hot Dip Galvanizing, Add	*20.35*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.15*	
		For High Strength Low Alloy A588 Steel, Add	*20.34*	
		For Each Additional Top Copes >2, Add	*0.73*	
		For Structural Tees, WT, MT Or ST, Deduct	*-31.34*	
		For Skewed Or Sloped Connections, Add	*12.20*	
05 12 23 00-0359	LF	W8 x 28 A992/A36 Structural Beam Or Girder	94.53	24.99
		For Hot Dip Galvanizing, Add	*18.83*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.51*	
		For High Strength Low Alloy A588 Steel, Add	*18.91*	
		For Each Additional Top Copes >2, Add	*0.68*	
		For Structural Tees, WT, MT Or ST, Deduct	*-29.09*	
		For Skewed Or Sloped Connections, Add	*11.34*	
05 12 23 00-0360	LF	W8 x 24 A992/A36 Structural Beam Or Girder	86.14	23.45
		For Hot Dip Galvanizing, Add	*16.97*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.75*	
		For High Strength Low Alloy A588 Steel, Add	*17.23*	
		For Each Additional Top Copes >2, Add	*0.61*	
		For Structural Tees, WT, MT Or ST, Deduct	*-26.40*	
		For Skewed Or Sloped Connections, Add	*10.34*	
05 12 23 00-0361	LF	W8 x 21 A992/A36 Structural Beam Or Girder	80.14	21.78
		For Hot Dip Galvanizing, Add	*15.77*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.21*	
		For High Strength Low Alloy A588 Steel, Add	*16.03*	
		For Each Additional Top Copes >2, Add	*0.57*	
		For Structural Tees, WT, MT Or ST, Deduct	*-24.55*	
		For Skewed Or Sloped Connections, Add	*9.62*	
05 12 23 00-0362	LF	W8 x 18 A992/A36 Structural Beam Or Girder	70.02	20.24
		For Hot Dip Galvanizing, Add	*13.43*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.30*	
		For High Strength Low Alloy A588 Steel, Add	*14.00*	
		For Each Additional Top Copes >2, Add	*0.48*	
		For Structural Tees, WT, MT Or ST, Deduct	*-21.26*	
		For Skewed Or Sloped Connections, Add	*8.40*	
05 12 23 00-0363	LF	W8 x 10 A992/A36 Structural Beam Or Girder	41.19	14.51
		For Hot Dip Galvanizing, Add	*7.17*	
		For High Strength Low Alloy A572-50 Steel, Add	*3.71*	
		For High Strength Low Alloy A588 Steel, Add	*8.24*	
		For Each Additional Top Copes >2, Add	*0.26*	
		For Structural Tees, WT, MT Or ST, Deduct	*-12.11*	
		For Skewed Or Sloped Connections, Add	*4.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0364	LF	W6 x 9 A992/A36 Structural Beam Or Girder	38.07	11.86
		For Hot Dip Galvanizing, Add	*7.08*	
		For High Strength Low Alloy A572-50 Steel, Add	*3.43*	
		For High Strength Low Alloy A588 Steel, Add	*7.61*	
		For Each Additional Top Copes >2, Add	*0.26*	
		For Structural Tees, WT, MT Or ST, Deduct	*-11.44*	
		For Skewed Or Sloped Connections, Add	*4.57*	

05 12 23 00-0365 A992/A36 Structural Steel, M Shapes *(05 12 23 00-0147)*

Note: Includes material delivery and erection.

05 12 23 00-0366	LF	M14 x 18 A992/A36 Structural Steel	72.70	18.40
		For Hot Dip Galvanizing, Add	*14.73*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.54*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*14.54*	
05 12 23 00-0367	LF	M12 x 11.8 A992/A36 Structural Steel	52.16	16.28
		For Hot Dip Galvanizing, Add	*9.66*	
		For High Strength Low Alloy A572-50 Steel, Add	*4.69*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*10.43*	
05 12 23 00-0368	LF	M10 x 9 A992/A36 Structural Steel	40.47	13.07
		For Hot Dip Galvanizing, Add	*7.36*	
		For High Strength Low Alloy A572-50 Steel, Add	*3.64*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*8.09*	
05 12 23 00-0369	LF	M8 x 6.5 A992/A36 Structural Steel	29.23	9.43
		For Hot Dip Galvanizing, Add	*5.32*	
		For High Strength Low Alloy A572-50 Steel, Add	*2.63*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*5.85*	
05 12 23 00-0370	LF	M6 x 20 A992/A36 Structural Steel	82.71	22.47
		For Hot Dip Galvanizing, Add	*16.37*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.44*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*16.54*	
05 12 23 00-0371	LF	M6 x 4.4 A992/A36 Structural Steel	19.77	6.38
		For Hot Dip Galvanizing, Add	*3.59*	
		For High Strength Low Alloy A572-50 Steel, Add	*1.78*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*3.95*	
05 12 23 00-0372	LF	M5 x 18.9 A992/A36 Structural Steel	79.65	22.47
		For Hot Dip Galvanizing, Add	*15.44*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.17*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*15.93*	
05 12 23 00-0373	LF	M4 x 13 A992/A36 Structural Steel	65.40	22.06
		For Hot Dip Galvanizing, Add	*11.64*	
		For High Strength Low Alloy A572-50 Steel, Add	*5.89*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*13.08*	

05 12 23 00-0374 A992/A36 Structural Steel, S Shapes *(05 12 23 00-0147)*

Note: Includes material delivery and erection.

05 12 23 00-0375	LF	S24 x 121 A992/A36 Structural Steel	437.39	93.23
		For Hot Dip Galvanizing, Add	*93.80*	
		For High Strength Low Alloy A572-50 Steel, Add	*39.37*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*87.48*	
05 12 23 00-0376	LF	S24 x 106 A992/A36 Structural Steel	387.76	85.97
		For Hot Dip Galvanizing, Add	*82.17*	
		For High Strength Low Alloy A572-50 Steel, Add	*34.90*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*77.55*	
05 12 23 00-0377	LF	S24 x 100 A992/A36 Structural Steel	370.36	85.36
		For Hot Dip Galvanizing, Add	*77.52*	
		For High Strength Low Alloy A572-50 Steel, Add	*33.33*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*74.07*	
05 12 23 00-0378	LF	S24 x 90 A992/A36 Structural Steel	337.64	80.87
		For Hot Dip Galvanizing, Add	*69.77*	
		For High Strength Low Alloy A572-50 Steel, Add	*30.39*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*67.53*	
05 12 23 00-0379	LF	S24 x 80 A992/A36 Structural Steel	304.14	75.68
		For Hot Dip Galvanizing, Add	*62.01*	
		For High Strength Low Alloy A572-50 Steel, Add	*27.37*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*60.83*	
05 12 23 00-0380	LF	S20 x 96 A992/A36 Structural Steel	355.55	81.95
		For Hot Dip Galvanizing, Add	*74.42*	
		For High Strength Low Alloy A572-50 Steel, Add	*32.00*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*71.11*	
05 12 23 00-0381	LF	S20 x 86 A992/A36 Structural Steel	322.62	77.28
		For Hot Dip Galvanizing, Add	*66.66*	
		For High Strength Low Alloy A572-50 Steel, Add	*29.04*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*64.52*	
05 12 23 00-0382	LF	S20 x 75 A992/A36 Structural Steel	285.14	70.95
		For Hot Dip Galvanizing, Add	*58.14*	
		For High Strength Low Alloy A572-50 Steel, Add	*25.66*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*57.03*	
05 12 23 00-0383	LF	S20 x 66 A992/A36 Structural Steel	254.43	65.71
		For Hot Dip Galvanizing, Add	*51.16*	
		For High Strength Low Alloy A572-50 Steel, Add	*22.90*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*50.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0384	LF	S18 x 70 A992/A36 Structural Steel	269.85	69.70
		For Hot Dip Galvanizing, Add	*54.26*	
		For High Strength Low Alloy A572-50 Steel, Add	*24.29*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*53.97*	
05 12 23 00-0385	LF	S18 x 54.7 A992/A36 Structural Steel	213.93	57.33
		For Hot Dip Galvanizing, Add	*42.40*	
		For High Strength Low Alloy A572-50 Steel, Add	*19.25*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*42.79*	
05 12 23 00-0386	LF	S15 x 50 A992/A36 Structural Steel	198.48	55.16
		For Hot Dip Galvanizing, Add	*38.76*	
		For High Strength Low Alloy A572-50 Steel, Add	*17.86*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*39.70*	
05 12 23 00-0387	LF	S15 x 42.9 A992/A36 Structural Steel	172.96	49.82
		For Hot Dip Galvanizing, Add	*33.26*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.57*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*34.59*	
05 12 23 00-0388	LF	S12 x 50 A992/A36 Structural Steel	195.54	52.41
		For Hot Dip Galvanizing, Add	*38.76*	
		For High Strength Low Alloy A572-50 Steel, Add	*17.60*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*39.11*	
05 12 23 00-0389	LF	S12 x 40.8 A992/A36 Structural Steel	161.96	45.02
		For Hot Dip Galvanizing, Add	*31.63*	
		For High Strength Low Alloy A572-50 Steel, Add	*14.58*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*32.39*	
05 12 23 00-0390	LF	S12 x 35 A992/A36 Structural Steel	141.10	40.64
		For Hot Dip Galvanizing, Add	*27.13*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.70*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*28.22*	
05 12 23 00-0391	LF	S12 x 31.8 A992/A36 Structural Steel	130.28	38.87
		For Hot Dip Galvanizing, Add	*24.65*	
		For High Strength Low Alloy A572-50 Steel, Add	*11.73*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*26.06*	
05 12 23 00-0392	LF	S10 x 35 A992/A36 Structural Steel	143.39	42.79
		For Hot Dip Galvanizing, Add	*27.13*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.91*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*28.68*	
05 12 23 00-0393	LF	S10 x 25.4 A992/A36 Structural Steel	105.80	32.68
		For Hot Dip Galvanizing, Add	*19.69*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.52*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*21.16*	
05 12 23 00-0394	LF	S8 x 23 A992/A36 Structural Steel	95.81	29.59
		For Hot Dip Galvanizing, Add	*17.83*	
		For High Strength Low Alloy A572-50 Steel, Add	*8.62*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*19.16*	
05 12 23 00-0395	LF	S8 x 18.4 A992/A36 Structural Steel	77.98	24.93
		For Hot Dip Galvanizing, Add	*14.26*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.02*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*15.60*	
05 12 23 00-0396	LF	S7 x 20 A992/A36 Structural Steel	84.75	27.09
		For Hot Dip Galvanizing, Add	*15.50*	
		For High Strength Low Alloy A572-50 Steel, Add	*7.63*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*16.95*	
05 12 23 00-0397	LF	S7 x 15.3 A992/A36 Structural Steel	66.00	21.82
		For Hot Dip Galvanizing, Add	*11.86*	
		For High Strength Low Alloy A572-50 Steel, Add	*5.94*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*13.20*	
05 12 23 00-0398	LF	S6 x 17.25 A992/A36 Structural Steel	73.32	23.57
		For Hot Dip Galvanizing, Add	*13.37*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.60*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*14.66*	
05 12 23 00-0399	LF	S6 x 12.5 A992/A36 Structural Steel	62.83	21.78
		For Hot Dip Galvanizing, Add	*10.97*	
		For High Strength Low Alloy A572-50 Steel, Add	*5.65*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*12.57*	
05 12 23 00-0400	LF	S5 x 14.75 A992/A36 Structural Steel	66.92	22.19
		For Hot Dip Galvanizing, Add	*12.02*	
		For High Strength Low Alloy A572-50 Steel, Add	*6.02*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*13.38*	
05 12 23 00-0401	LF	S5 x 10 A992/A36 Structural Steel	56.80	21.63
		For Hot Dip Galvanizing, Add	*9.33*	
		For High Strength Low Alloy A572-50 Steel, Add	*5.11*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*11.36*	
05 12 23 00-0402	LF	S4 x 9.5 A992/A36 Structural Steel	55.24	21.63
		For Hot Dip Galvanizing, Add	*8.90*	
		For High Strength Low Alloy A572-50 Steel, Add	*4.97*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*11.05*	
05 12 23 00-0403	LF	S4 x 7.7 A992/A36 Structural Steel	51.63	21.63
		For Hot Dip Galvanizing, Add	*7.94*	
		For High Strength Low Alloy A572-50 Steel, Add	*4.65*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*10.33*	
05 12 23 00-0404	LF	S3 x 7.5 A992/A36 Structural Steel	51.28	21.63
		For Hot Dip Galvanizing, Add	*7.84*	
		For High Strength Low Alloy A572-50 Steel, Add	*4.62*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*10.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0405	LF	S3 x 5.7 A992/A36 Structural Steel	46.98	21.50
		For Hot Dip Galvanizing, Add	*6.68*	
		For High Strength Low Alloy A572-50 Steel, Add	*4.23*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*9.40*	

05 12 23 00-0406 A992/A36 Structural Steel, HP Shapes *(05 12 23 00-0147)*

Note: Includes material delivery and erection.

05 12 23 00-0407	LF	HP14 x 117 A992/A36 Structural Steel	269.50	27.62
		For Hot Dip Galvanizing, Add	*66.62*	
		For High Strength Low Alloy A572-50 Steel, Add	*24.26*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*53.90*	
05 12 23 00-0408	LF	HP14 x 102 A992/A36 Structural Steel	235.82	25.70
		For Hot Dip Galvanizing, Add	*57.84*	
		For High Strength Low Alloy A572-50 Steel, Add	*21.22*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*47.16*	
05 12 23 00-0409	LF	HP14 x 89 A992/A36 Structural Steel	210.10	24.11
		For Hot Dip Galvanizing, Add	*51.17*	
		For High Strength Low Alloy A572-50 Steel, Add	*18.91*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*42.02*	
05 12 23 00-0410	LF	HP14 x 73 A992/A36 Structural Steel	173.93	22.72
		For Hot Dip Galvanizing, Add	*41.55*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.65*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*34.79*	
05 12 23 00-0411	LF	HP13 x 100 A992/A36 Structural Steel	231.20	25.20
		For Hot Dip Galvanizing, Add	*56.70*	
		For High Strength Low Alloy A572-50 Steel, Add	*20.81*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*46.24*	
05 12 23 00-0412	LF	HP13 x 87 A992/A36 Structural Steel	205.39	23.57
		For Hot Dip Galvanizing, Add	*50.02*	
		For High Strength Low Alloy A572-50 Steel, Add	*18.49*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*41.08*	
05 12 23 00-0413	LF	HP13 x 73 A992/A36 Structural Steel	173.93	22.72
		For Hot Dip Galvanizing, Add	*41.55*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.65*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*34.79*	
05 12 23 00-0414	LF	HP13 x 60 A992/A36 Structural Steel	147.36	21.78
		For Hot Dip Galvanizing, Add	*34.45*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.26*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*29.47*	
05 12 23 00-0415	LF	HP12 x 84 A992/A36 Structural Steel	193.74	24.85
		For Hot Dip Galvanizing, Add	*46.41*	
		For High Strength Low Alloy A572-50 Steel, Add	*17.44*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*38.75*	
05 12 23 00-0416	LF	HP12 x 74 A992/A36 Structural Steel	171.17	23.44
		For Hot Dip Galvanizing, Add	*40.57*	
		For High Strength Low Alloy A572-50 Steel, Add	*15.41*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*34.23*	
05 12 23 00-0417	LF	HP12 x 63 A992/A36 Structural Steel	147.35	21.55
		For Hot Dip Galvanizing, Add	*34.51*	
		For High Strength Low Alloy A572-50 Steel, Add	*13.26*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*29.47*	
05 12 23 00-0418	LF	HP12 x 53 A992/A36 Structural Steel	135.10	20.49
		For Hot Dip Galvanizing, Add	*31.43*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.16*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*27.02*	
05 12 23 00-0419	LF	HP10 x 57 A992/A36 Structural Steel	142.33	21.03
		For Hot Dip Galvanizing, Add	*33.28*	
		For High Strength Low Alloy A572-50 Steel, Add	*12.81*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*28.47*	
05 12 23 00-0420	LF	HP10 x 42 A992/A36 Structural Steel	117.29	19.71
		For Hot Dip Galvanizing, Add	*26.71*	
		For High Strength Low Alloy A572-50 Steel, Add	*10.56*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*23.46*	
05 12 23 00-0421	LF	HP8 x 36 A992/A36 Structural Steel	101.98	18.58
		For Hot Dip Galvanizing, Add	*22.80*	
		For High Strength Low Alloy A572-50 Steel, Add	*9.18*	
		For High Strength Low Alloy A588 Grade B Steel, Add	*20.40*	

05 12 23 00-0422 Lightweight Framing Steel Shapes *(05 12 23)*

Note: Includes cutting to length. Excludes fasteners or welds. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.

05 12 23 00-0423 Angle Iron - L *(05 12 23 00-0422)*

05 12 23 00-0424 1/8" Thick *(05 12 23 00-0423)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0425	LF	1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron	3.08	1.88
		For >100 To 250, Deduct	*-0.20*	
		For >250 To 500, Deduct	*-0.28*	
		For >500 To 1,000, Deduct	*-0.42*	
		For >1,000, Deduct	*-0.56*	
		For 304 Stainless Steel, Add	*1.60*	
		For 316 Stainless Steel, Add	*1.79*	
		For Aluminum, Add	*0.10*	
		For Galvanized Steel, Add	*0.35*	
		For High Strength Steel (HSS), Add	*0.62*	
05 12 23 00-0426	LF	3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron	3.56	2.13
		For >100 To 250, Deduct	*-0.23*	
		For >250 To 500, Deduct	*-0.32*	
		For >500 To 1,000, Deduct	*-0.48*	
		For >1,000, Deduct	*-0.64*	
		For 304 Stainless Steel, Add	*2.02*	
		For 316 Stainless Steel, Add	*2.27*	
		For Aluminum, Add	*0.13*	
		For Galvanized Steel, Add	*0.44*	
		For High Strength Steel (HSS), Add	*0.71*	
05 12 23 00-0427	LF	3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron	4.02	2.36
		For >100 To 250, Deduct	*-0.26*	
		For >250 To 500, Deduct	*-0.36*	
		For >500 To 1,000, Deduct	*-0.54*	
		For >1,000, Deduct	*-0.72*	
		For 304 Stainless Steel, Add	*2.51*	
		For 316 Stainless Steel, Add	*2.82*	
		For Aluminum, Add	*0.16*	
		For Galvanized Steel, Add	*0.55*	
		For High Strength Steel (HSS), Add	*0.80*	
05 12 23 00-0428	LF	1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron	4.51	2.62
		For >100 To 250, Deduct	*-0.29*	
		For >250 To 500, Deduct	*-0.40*	
		For >500 To 1,000, Deduct	*-0.60*	
		For >1,000, Deduct	*-0.80*	
		For 304 Stainless Steel, Add	*2.91*	
		For 316 Stainless Steel, Add	*3.26*	
		For Aluminum, Add	*0.18*	
		For Galvanized Steel, Add	*0.63*	
		For High Strength Steel (HSS), Add	*0.90*	
05 12 23 00-0429	LF	1" x 1" x 1/8" Thick, Plain Steel Angle Iron	4.97	2.83
		For >100 To 250, Deduct	*-0.31*	
		For >250 To 500, Deduct	*-0.44*	
		For >500 To 1,000, Deduct	*-0.66*	
		For >1,000, Deduct	*-0.88*	
		For 304 Stainless Steel, Add	*3.39*	
		For 316 Stainless Steel, Add	*3.81*	
		For Aluminum, Add	*0.21*	
		For Galvanized Steel, Add	*0.74*	
		For High Strength Steel (HSS), Add	*0.99*	
05 12 23 00-0430	LF	1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron	5.94	3.33
		For >100 To 250, Deduct	*-0.37*	
		For >250 To 500, Deduct	*-0.52*	
		For >500 To 1,000, Deduct	*-0.78*	
		For >1,000, Deduct	*-1.04*	
		For 304 Stainless Steel, Add	*4.28*	
		For 316 Stainless Steel, Add	*4.80*	
		For Aluminum, Add	*0.27*	
		For Galvanized Steel, Add	*0.93*	
		For High Strength Steel (HSS), Add	*1.19*	
05 12 23 00-0431	LF	1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron	5.94	3.33
		For >100 To 250, Deduct	*-0.37*	
		For >250 To 500, Deduct	*-0.52*	
		For >500 To 1,000, Deduct	*-0.78*	
		For >1,000, Deduct	*-1.04*	
		For 304 Stainless Steel, Add	*4.28*	
		For 316 Stainless Steel, Add	*4.80*	
		For Aluminum, Add	*0.27*	
		For Galvanized Steel, Add	*0.93*	
		For High Strength Steel (HSS), Add	*1.19*	
05 12 23 00-0432	LF	1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	6.57	3.57
		For >100 To 250, Deduct	*-0.40*	
		For >250 To 500, Deduct	*-0.57*	
		For >500 To 1,000, Deduct	*-0.85*	
		For >1,000, Deduct	*-1.13*	
		For 304 Stainless Steel, Add	*5.13*	
		For 316 Stainless Steel, Add	*5.76*	
		For Aluminum, Add	*0.32*	
		For Galvanized Steel, Add	*1.12*	
		For High Strength Steel (HSS), Add	*1.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0433	LF	1-3/4" x 1-3/4" x 1/8" Thick, Plain Steel Angle Iron	7.07	3.70
		For >100 To 250, Deduct	*-0.42*	
		For >250 To 500, Deduct	*-0.60*	
		For >500 To 1,000, Deduct	*-0.90*	
		For >1,000, Deduct	*-1.20*	
		For 304 Stainless Steel, Add	*6.10*	
		For 316 Stainless Steel, Add	*6.85*	
		For Aluminum, Add	*0.39*	
		For Galvanized Steel, Add	*1.33*	
		For High Strength Steel (HSS), Add	*1.41*	
05 12 23 00-0434	LF	2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	7.07	3.70
		For >100 To 250, Deduct	*-0.42*	
		For >250 To 500, Deduct	*-0.60*	
		For >500 To 1,000, Deduct	*-0.90*	
		For >1,000, Deduct	*-1.20*	
		For 304 Stainless Steel, Add	*6.10*	
		For 316 Stainless Steel, Add	*6.85*	
		For Aluminum, Add	*0.39*	
		For Galvanized Steel, Add	*1.33*	
		For High Strength Steel (HSS), Add	*1.41*	
05 12 23 00-0435	LF	2" x 2" x 1/8" Thick, Plain Steel Angle Iron	7.55	3.82
		For >100 To 250, Deduct	*-0.44*	
		For >250 To 500, Deduct	*-0.63*	
		For >500 To 1,000, Deduct	*-0.95*	
		For >1,000, Deduct	*-1.27*	
		For 304 Stainless Steel, Add	*6.98*	
		For 316 Stainless Steel, Add	*7.84*	
		For Aluminum, Add	*0.44*	
		For Galvanized Steel, Add	*1.52*	
		For High Strength Steel (HSS), Add	*1.51*	

05 12 23 00-0436 3/16" Thick *(05 12 23 00-0423)*

05 12 23 00-0437	LF	1" x 1" x 3/16" Thick, Plain Steel Angle Iron	5.71	2.99
		For >100 To 250, Deduct	*-0.34*	
		For >250 To 500, Deduct	*-0.49*	
		For >500 To 1,000, Deduct	*-0.73*	
		For >1,000, Deduct	*-0.97*	
		For 304 Stainless Steel, Add	*4.90*	
		For 316 Stainless Steel, Add	*5.50*	
		For Aluminum, Add	*0.31*	
		For Galvanized Steel, Add	*1.07*	
		For High Strength Steel (HSS), Add	*1.14*	
05 12 23 00-0438	LF	1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron	6.88	3.52
		For >100 To 250, Deduct	*-0.41*	
		For >250 To 500, Deduct	*-0.58*	
		For >500 To 1,000, Deduct	*-0.87*	
		For >1,000, Deduct	*-1.16*	
		For 304 Stainless Steel, Add	*6.24*	
		For 316 Stainless Steel, Add	*7.01*	
		For Aluminum, Add	*0.39*	
		For Galvanized Steel, Add	*1.36*	
		For High Strength Steel (HSS), Add	*1.38*	
05 12 23 00-0439	LF	1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron	6.88	3.52
		For >100 To 250, Deduct	*-0.41*	
		For >250 To 500, Deduct	*-0.58*	
		For >500 To 1,000, Deduct	*-0.87*	
		For >1,000, Deduct	*-1.16*	
		For 304 Stainless Steel, Add	*6.24*	
		For 316 Stainless Steel, Add	*7.01*	
		For Aluminum, Add	*0.39*	
		For Galvanized Steel, Add	*1.36*	
		For High Strength Steel (HSS), Add	*1.38*	
05 12 23 00-0440	LF	1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	7.70	3.78
		For >100 To 250, Deduct	*-0.44*	
		For >250 To 500, Deduct	*-0.64*	
		For >500 To 1,000, Deduct	*-0.95*	
		For >1,000, Deduct	*-1.27*	
		For 304 Stainless Steel, Add	*7.61*	
		For 316 Stainless Steel, Add	*8.54*	
		For Aluminum, Add	*0.48*	
		For Galvanized Steel, Add	*1.66*	
		For High Strength Steel (HSS), Add	*1.54*	
05 12 23 00-0441	LF	1-3/4" x 1-3/4" x 3/16" Thick, Plain Steel Angle Iron	8.36	3.91
		For >100 To 250, Deduct	*-0.47*	
		For >250 To 500, Deduct	*-0.68*	
		For >500 To 1,000, Deduct	*-1.02*	
		For >1,000, Deduct	*-1.36*	
		For 304 Stainless Steel, Add	*8.98*	
		For 316 Stainless Steel, Add	*10.08*	
		For Aluminum, Add	*0.57*	
		For Galvanized Steel, Add	*1.95*	
		For High Strength Steel (HSS), Add	*1.67*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0442	LF	2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	8.36	3.91
		For >100 To 250, Deduct	*-0.47*	
		For >250 To 500, Deduct	*-0.68*	
		For >500 To 1,000, Deduct	*-1.02*	
		For >1,000, Deduct	*-1.36*	
		For 304 Stainless Steel, Add	*8.98*	
		For 316 Stainless Steel, Add	*10.08*	
		For Aluminum, Add	*0.57*	
		For Galvanized Steel, Add	*1.95*	
		For High Strength Steel (HSS), Add	*1.67*	
05 12 23 00-0443	LF	2" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.02	4.05
		For >100 To 250, Deduct	*-0.50*	
		For >250 To 500, Deduct	*-0.72*	
		For >500 To 1,000, Deduct	*-1.08*	
		For >1,000, Deduct	*-1.44*	
		For 304 Stainless Steel, Add	*10.35*	
		For 316 Stainless Steel, Add	*11.62*	
		For Aluminum, Add	*0.65*	
		For Galvanized Steel, Add	*2.25*	
		For High Strength Steel (HSS), Add	*1.80*	
05 12 23 00-0444	LF	2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.87	4.33
		For >100 To 250, Deduct	*-0.54*	
		For >250 To 500, Deduct	*-0.78*	
		For >500 To 1,000, Deduct	*-1.17*	
		For >1,000, Deduct	*-1.57*	
		For 304 Stainless Steel, Add	*11.66*	
		For 316 Stainless Steel, Add	*13.09*	
		For Aluminum, Add	*0.74*	
		For Galvanized Steel, Add	*2.54*	
		For High Strength Steel (HSS), Add	*1.97*	
05 12 23 00-0445	LF	2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	10.76	4.64
		For >100 To 250, Deduct	*-0.58*	
		For >250 To 500, Deduct	*-0.85*	
		For >500 To 1,000, Deduct	*-1.27*	
		For >1,000, Deduct	*-1.70*	
		For 304 Stainless Steel, Add	*13.02*	
		For 316 Stainless Steel, Add	*14.62*	
		For Aluminum, Add	*0.82*	
		For Galvanized Steel, Add	*2.83*	
		For High Strength Steel (HSS), Add	*2.15*	
05 12 23 00-0446	LF	3" x 2" x 3/16" Thick, Plain Steel Angle Iron	10.75	4.64
		For >100 To 250, Deduct	*-0.58*	
		For >250 To 500, Deduct	*-0.85*	
		For >500 To 1,000, Deduct	*-1.27*	
		For >1,000, Deduct	*-1.69*	
		For 304 Stainless Steel, Add	*13.00*	
		For 316 Stainless Steel, Add	*14.59*	
		For Aluminum, Add	*0.82*	
		For Galvanized Steel, Add	*2.83*	
		For High Strength Steel (HSS), Add	*2.15*	
05 12 23 00-0447	LF	3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	11.88	5.12
		For >100 To 250, Deduct	*-0.64*	
		For >250 To 500, Deduct	*-0.94*	
		For >500 To 1,000, Deduct	*-1.40*	
		For >1,000, Deduct	*-1.87*	
		For 304 Stainless Steel, Add	*14.36*	
		For 316 Stainless Steel, Add	*16.13*	
		For Aluminum, Add	*0.91*	
		For Galvanized Steel, Add	*3.12*	
		For High Strength Steel (HSS), Add	*2.38*	
05 12 23 00-0448	LF	3" x 3" x 3/16" Thick, Plain Steel Angle Iron	12.99	5.61
		For >100 To 250, Deduct	*-0.70*	
		For >250 To 500, Deduct	*-1.02*	
		For >500 To 1,000, Deduct	*-1.54*	
		For >1,000, Deduct	*-2.05*	
		For 304 Stainless Steel, Add	*15.70*	
		For 316 Stainless Steel, Add	*17.63*	
		For Aluminum, Add	*0.99*	
		For Galvanized Steel, Add	*3.42*	
		For High Strength Steel (HSS), Add	*2.60*	

05 12 23 00-0449 1/4" Thick *(05 12 23 00-0423)*

05 12 23 00-0450	LF	1" x 1" x 1/4" Thick, Plain Steel Angle Iron	6.81	3.46
		For >100 To 250, Deduct	*-0.40*	
		For >250 To 500, Deduct	*-0.57*	
		For >500 To 1,000, Deduct	*-0.86*	
		For >1,000, Deduct	*-1.14*	
		For 304 Stainless Steel, Add	*6.24*	
		For 316 Stainless Steel, Add	*7.01*	
		For Aluminum, Add	*0.39*	
		For Galvanized Steel, Add	*1.36*	
		For High Strength Steel (HSS), Add	*1.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0451	LF	1-1/4" x 1-1/4" x 1/4" Thick, Plain Steel Angle Iron	7.78	3.72
		For >100 To 250, Deduct	*-0.44*	
		For >250 To 500, Deduct	*-0.64*	
		For >500 To 1,000, Deduct	*-0.96*	
		For >1,000, Deduct	*-1.27*	
		For 304 Stainless Steel, Add	*8.04*	
		For 316 Stainless Steel, Add	*9.02*	
		For Aluminum, Add	*0.51*	
		For Galvanized Steel, Add	*1.75*	
		For High Strength Steel (HSS), Add	*1.56*	
05 12 23 00-0452	LF	1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron	7.78	3.72
		For >100 To 250, Deduct	*-0.44*	
		For >250 To 500, Deduct	*-0.64*	
		For >500 To 1,000, Deduct	*-0.96*	
		For >1,000, Deduct	*-1.27*	
		For 304 Stainless Steel, Add	*8.04*	
		For 316 Stainless Steel, Add	*9.02*	
		For Aluminum, Add	*0.51*	
		For Galvanized Steel, Add	*1.75*	
		For High Strength Steel (HSS), Add	*1.56*	
05 12 23 00-0453	LF	1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	8.75	3.98
		For >100 To 250, Deduct	*-0.48*	
		For >250 To 500, Deduct	*-0.70*	
		For >500 To 1,000, Deduct	*-1.05*	
		For >1,000, Deduct	*-1.41*	
		For 304 Stainless Steel, Add	*9.80*	
		For 316 Stainless Steel, Add	*11.01*	
		For Aluminum, Add	*0.62*	
		For Galvanized Steel, Add	*2.13*	
		For High Strength Steel (HSS), Add	*1.75*	
05 12 23 00-0454	LF	1-3/4" x 1-3/4" x 1/4" Thick, Plain Steel Angle Iron	9.61	4.11
		For >100 To 250, Deduct	*-0.51*	
		For >250 To 500, Deduct	*-0.76*	
		For >500 To 1,000, Deduct	*-1.13*	
		For >1,000, Deduct	*-1.51*	
		For 304 Stainless Steel, Add	*11.74*	
		For 316 Stainless Steel, Add	*13.18*	
		For Aluminum, Add	*0.74*	
		For Galvanized Steel, Add	*2.55*	
		For High Strength Steel (HSS), Add	*1.92*	
05 12 23 00-0455	LF	2" x 1" x 1/4" Thick, Plain Steel Angle Iron	8.52	3.86
		For >100 To 250, Deduct	*-0.47*	
		For >250 To 500, Deduct	*-0.68*	
		For >500 To 1,000, Deduct	*-1.02*	
		For >1,000, Deduct	*-1.36*	
		For 304 Stainless Steel, Add	*9.89*	
		For 316 Stainless Steel, Add	*11.10*	
		For Aluminum, Add	*0.62*	
		For Galvanized Steel, Add	*2.15*	
		For High Strength Steel (HSS), Add	*1.70*	
05 12 23 00-0456	LF	2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	9.60	4.11
		For >100 To 250, Deduct	*-0.51*	
		For >250 To 500, Deduct	*-0.75*	
		For >500 To 1,000, Deduct	*-1.13*	
		For >1,000, Deduct	*-1.51*	
		For 304 Stainless Steel, Add	*11.71*	
		For 316 Stainless Steel, Add	*13.15*	
		For Aluminum, Add	*0.74*	
		For Galvanized Steel, Add	*2.55*	
		For High Strength Steel (HSS), Add	*1.92*	
05 12 23 00-0457	LF	2" x 2" x 1/4" Thick, Plain Steel Angle Iron	10.39	4.25
		For >100 To 250, Deduct	*-0.54*	
		For >250 To 500, Deduct	*-0.80*	
		For >500 To 1,000, Deduct	*-1.20*	
		For >1,000, Deduct	*-1.61*	
		For 304 Stainless Steel, Add	*13.48*	
		For 316 Stainless Steel, Add	*15.14*	
		For Aluminum, Add	*0.85*	
		For Galvanized Steel, Add	*2.93*	
		For High Strength Steel (HSS), Add	*2.08*	
05 12 23 00-0458	LF	2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron	11.65	4.70
		For >100 To 250, Deduct	*-0.60*	
		For >250 To 500, Deduct	*-0.90*	
		For >500 To 1,000, Deduct	*-1.34*	
		For >1,000, Deduct	*-1.79*	
		For 304 Stainless Steel, Add	*15.33*	
		For 316 Stainless Steel, Add	*17.22*	
		For Aluminum, Add	*0.97*	
		For Galvanized Steel, Add	*3.34*	
		For High Strength Steel (HSS), Add	*2.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0459	LF	2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	12.96	5.15
		For >100 To 250, Deduct	*-0.67*	
		For >250 To 500, Deduct	*-0.99*	
		For >500 To 1,000, Deduct	*-1.49*	
		For >1,000, Deduct	*-1.98*	
		For 304 Stainless Steel, Add	*17.33*	
		For 316 Stainless Steel, Add	*19.46*	
		For Aluminum, Add	*1.09*	
		For Galvanized Steel, Add	*3.77*	
		For High Strength Steel (HSS), Add	*2.59*	
05 12 23 00-0460	LF	3" x 2" x 1/4" Thick, Plain Steel Angle Iron	12.96	5.15
		For >100 To 250, Deduct	*-0.67*	
		For >250 To 500, Deduct	*-0.99*	
		For >500 To 1,000, Deduct	*-1.49*	
		For >1,000, Deduct	*-1.98*	
		For 304 Stainless Steel, Add	*17.33*	
		For 316 Stainless Steel, Add	*19.46*	
		For Aluminum, Add	*1.09*	
		For Galvanized Steel, Add	*3.77*	
		For High Strength Steel (HSS), Add	*2.59*	
05 12 23 00-0461	LF	3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	14.32	5.72
		For >100 To 250, Deduct	*-0.74*	
		For >250 To 500, Deduct	*-1.10*	
		For >500 To 1,000, Deduct	*-1.65*	
		For >1,000, Deduct	*-2.20*	
		For 304 Stainless Steel, Add	*19.07*	
		For 316 Stainless Steel, Add	*21.41*	
		For Aluminum, Add	*1.20*	
		For Galvanized Steel, Add	*4.15*	
		For High Strength Steel (HSS), Add	*2.86*	
05 12 23 00-0462	LF	3" x 3" x 1/4" Thick, Plain Steel Angle Iron	15.65	6.29
		For >100 To 250, Deduct	*-0.81*	
		For >250 To 500, Deduct	*-1.20*	
		For >500 To 1,000, Deduct	*-1.80*	
		For >1,000, Deduct	*-2.40*	
		For 304 Stainless Steel, Add	*20.69*	
		For 316 Stainless Steel, Add	*23.23*	
		For Aluminum, Add	*1.31*	
		For Galvanized Steel, Add	*4.50*	
		For High Strength Steel (HSS), Add	*3.13*	
05 12 23 00-0463	LF	3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron	17.01	6.76
		For >100 To 250, Deduct	*-0.88*	
		For >250 To 500, Deduct	*-1.30*	
		For >500 To 1,000, Deduct	*-1.95*	
		For >1,000, Deduct	*-2.60*	
		For 304 Stainless Steel, Add	*22.80*	
		For 316 Stainless Steel, Add	*25.60*	
		For Aluminum, Add	*1.44*	
		For Galvanized Steel, Add	*4.96*	
		For High Strength Steel (HSS), Add	*3.40*	
05 12 23 00-0464	LF	3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	18.03	0.70
		For >100 To 250, Deduct	*-0.92*	
		For >250 To 500, Deduct	*-1.37*	
		For >500 To 1,000, Deduct	*-2.06*	
		For >1,000, Deduct	*-2.74*	
		For 304 Stainless Steel, Add	*24.57*	
		For 316 Stainless Steel, Add	*27.58*	
		For Aluminum, Add	*1.55*	
		For Galvanized Steel, Add	*5.34*	
		For High Strength Steel (HSS), Add	*3.61*	
05 12 23 00-0465	LF	4" x 3" x 1/4" Thick, Plain Steel Angle Iron	18.03	7.06
		For >100 To 250, Deduct	*-0.92*	
		For >250 To 500, Deduct	*-1.37*	
		For >500 To 1,000, Deduct	*-2.06*	
		For >1,000, Deduct	*-2.74*	
		For 304 Stainless Steel, Add	*24.57*	
		For 316 Stainless Steel, Add	*27.58*	
		For Aluminum, Add	*1.55*	
		For Galvanized Steel, Add	*5.34*	
		For High Strength Steel (HSS), Add	*3.61*	
05 12 23 00-0466	LF	4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	19.00	7.36
		For >100 To 250, Deduct	*-0.97*	
		For >250 To 500, Deduct	*-1.44*	
		For >500 To 1,000, Deduct	*-2.16*	
		For >1,000, Deduct	*-2.88*	
		For 304 Stainless Steel, Add	*26.19*	
		For 316 Stainless Steel, Add	*29.41*	
		For Aluminum, Add	*1.65*	
		For Galvanized Steel, Add	*5.70*	
		For High Strength Steel (HSS), Add	*3.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0467	LF	4" x 4" x 1/4" Thick, Plain Steel Angle Iron	20.04	7.67
		For >100 To 250, Deduct	*-1.01*	
		For >250 To 500, Deduct	*-1.51*	
		For >500 To 1,000, Deduct	*-2.27*	
		For >1,000, Deduct	*-3.03*	
		For 304 Stainless Steel, Add	*27.96*	
		For 316 Stainless Steel, Add	*31.39*	
		For Aluminum, Add	*1.77*	
		For Galvanized Steel, Add	*6.08*	
		For High Strength Steel (HSS), Add	*4.01*	
05 12 23 00-0468	LF	5" x 3" x 1/4" Thick, Plain Steel Angle Iron	20.04	7.67
		For >100 To 250, Deduct	*-1.01*	
		For >250 To 500, Deduct	*-1.51*	
		For >500 To 1,000, Deduct	*-2.27*	
		For >1,000, Deduct	*-3.03*	
		For 304 Stainless Steel, Add	*27.96*	
		For 316 Stainless Steel, Add	*31.39*	
		For Aluminum, Add	*1.77*	
		For Galvanized Steel, Add	*6.08*	
		For High Strength Steel (HSS), Add	*4.01*	
05 12 23 00-0469	LF	5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	21.16	8.08
		For >100 To 250, Deduct	*-1.07*	
		For >250 To 500, Deduct	*-1.60*	
		For >500 To 1,000, Deduct	*-2.40*	
		For >1,000, Deduct	*-3.19*	
		For 304 Stainless Steel, Add	*29.58*	
		For 316 Stainless Steel, Add	*33.22*	
		For Aluminum, Add	*1.87*	
		For Galvanized Steel, Add	*6.44*	
		For High Strength Steel (HSS), Add	*4.23*	

05 12 23 00-0470 5/16" Thick *(05 12 23 00-0423)*

05 12 23 00-0471	LF	2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron	13.98	5.47
		For >100 To 250, Deduct	*-0.71*	
		For >250 To 500, Deduct	*-1.06*	
		For >500 To 1,000, Deduct	*-1.60*	
		For >1,000, Deduct	*-2.13*	
		For 304 Stainless Steel, Add	*19.07*	
		For 316 Stainless Steel, Add	*21.41*	
		For Aluminum, Add	*1.20*	
		For Galvanized Steel, Add	*4.15*	
		For High Strength Steel (HSS), Add	*2.80*	
05 12 23 00-0472	LF	2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	15.15	5.79
		For >100 To 250, Deduct	*-0.76*	
		For >250 To 500, Deduct	*-1.14*	
		For >500 To 1,000, Deduct	*-1.72*	
		For >1,000, Deduct	*-2.29*	
		For 304 Stainless Steel, Add	*21.18*	
		For 316 Stainless Steel, Add	*23.78*	
		For Aluminum, Add	*1.34*	
		For Galvanized Steel, Add	*4.61*	
		For High Strength Steel (HSS), Add	*3.03*	
05 12 23 00-0473	LF	3" x 2" x 5/16" Thick, Plain Steel Angle Iron	15.15	5.79
		For >100 To 250, Deduct	*-0.76*	
		For >250 To 500, Deduct	*-1.14*	
		For >500 To 1,000, Deduct	*-1.72*	
		For >1,000, Deduct	*-2.29*	
		For 304 Stainless Steel, Add	*21.18*	
		For 316 Stainless Steel, Add	*23.78*	
		For Aluminum, Add	*1.34*	
		For Galvanized Steel, Add	*4.61*	
		For High Strength Steel (HSS), Add	*3.03*	
05 12 23 00-0474	LF	3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	16.79	6.35
		For >100 To 250, Deduct	*-0.84*	
		For >250 To 500, Deduct	*-1.26*	
		For >500 To 1,000, Deduct	*-1.89*	
		For >1,000, Deduct	*-2.53*	
		For 304 Stainless Steel, Add	*23.71*	
		For 316 Stainless Steel, Add	*26.62*	
		For Aluminum, Add	*1.50*	
		For Galvanized Steel, Add	*5.16*	
		For High Strength Steel (HSS), Add	*3.36*	
05 12 23 00-0475	LF	3" x 3" x 5/16" Thick, Plain Steel Angle Iron	18.26	6.91
		For >100 To 250, Deduct	*-0.92*	
		For >250 To 500, Deduct	*-1.37*	
		For >500 To 1,000, Deduct	*-2.06*	
		For >1,000, Deduct	*-2.75*	
		For 304 Stainless Steel, Add	*25.82*	
		For 316 Stainless Steel, Add	*28.99*	
		For Aluminum, Add	*1.63*	
		For Galvanized Steel, Add	*5.62*	
		For High Strength Steel (HSS), Add	*3.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0476	LF	3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron	19.48	7.26
		For >100 To 250, Deduct	*-0.97*	
		For >250 To 500, Deduct	*-1.46*	
		For >500 To 1,000, Deduct	*-2.19*	
		For >1,000, Deduct	*-2.92*	
		For 304 Stainless Steel, Add	*27.96*	
		For 316 Stainless Steel, Add	*31.39*	
		For Aluminum, Add	*1.77*	
		For Galvanized Steel, Add	*6.08*	
		For High Strength Steel (HSS), Add	*3.90*	
05 12 23 00-0477	LF	3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	20.82	7.61
		For >100 To 250, Deduct	*-1.03*	
		For >250 To 500, Deduct	*-1.55*	
		For >500 To 1,000, Deduct	*-2.32*	
		For >1,000, Deduct	*-3.10*	
		For 304 Stainless Steel, Add	*30.41*	
		For 316 Stainless Steel, Add	*34.14*	
		For Aluminum, Add	*1.92*	
		For Galvanized Steel, Add	*6.62*	
		For High Strength Steel (HSS), Add	*4.16*	
05 12 23 00-0478	LF	4" x 3" x 5/16" Thick, Plain Steel Angle Iron	20.82	7.61
		For >100 To 250, Deduct	*-1.03*	
		For >250 To 500, Deduct	*-1.55*	
		For >500 To 1,000, Deduct	*-2.32*	
		For >1,000, Deduct	*-3.10*	
		For 304 Stainless Steel, Add	*30.41*	
		For 316 Stainless Steel, Add	*34.14*	
		For Aluminum, Add	*1.92*	
		For Galvanized Steel, Add	*6.62*	
		For High Strength Steel (HSS), Add	*4.16*	
05 12 23 00-0479	LF	4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	22.14	8.05
		For >100 To 250, Deduct	*-1.09*	
		For >250 To 500, Deduct	*-1.64*	
		For >500 To 1,000, Deduct	*-2.47*	
		For >1,000, Deduct	*-3.29*	
		For 304 Stainless Steel, Add	*32.52*	
		For 316 Stainless Steel, Add	*36.51*	
		For Aluminum, Add	*2.05*	
		For Galvanized Steel, Add	*7.07*	
		For High Strength Steel (HSS), Add	*4.43*	
05 12 23 00-0480	LF	4" x 4" x 5/16" Thick, Plain Steel Angle Iron	23.40	8.41
		For >100 To 250, Deduct	*-1.15*	
		For >250 To 500, Deduct	*-1.73*	
		For >500 To 1,000, Deduct	*-2.60*	
		For >1,000, Deduct	*-3.46*	
		For 304 Stainless Steel, Add	*34.74*	
		For 316 Stainless Steel, Add	*39.01*	
		For Aluminum, Add	*2.19*	
		For Galvanized Steel, Add	*7.56*	
		For High Strength Steel (HSS), Add	*4.68*	
05 12 23 00-0481	LF	5" x 3" x 5/16" Thick, Plain Steel Angle Iron	23.40	8.41
		For >100 To 250, Deduct	*-1.15*	
		For >250 To 500, Deduct	*-1.73*	
		For >500 To 1,000, Deduct	*-2.60*	
		For >1,000, Deduct	*-3.46*	
		For 304 Stainless Steel, Add	*34.74*	
		For 316 Stainless Steel, Add	*39.01*	
		For Aluminum, Add	*2.19*	
		For Galvanized Steel, Add	*7.56*	
		For High Strength Steel (HSS), Add	*4.68*	
05 12 23 00-0482	LF	5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	24.58	8.76
		For >100 To 250, Deduct	*-1.20*	
		For >250 To 500, Deduct	*-1.81*	
		For >500 To 1,000, Deduct	*-2.72*	
		For >1,000, Deduct	*-3.63*	
		For 304 Stainless Steel, Add	*36.77*	
		For 316 Stainless Steel, Add	*41.28*	
		For Aluminum, Add	*2.32*	
		For Galvanized Steel, Add	*8.00*	
		For High Strength Steel (HSS), Add	*4.92*	
05 12 23 00-0483	LF	5" x 5" x 5/16" Thick, Plain Steel Angle Iron	27.48	9.13
		For >100 To 250, Deduct	*-1.30*	
		For >250 To 500, Deduct	*-1.98*	
		For >500 To 1,000, Deduct	*-2.97*	
		For >1,000, Deduct	*-3.97*	
		For 304 Stainless Steel, Add	*43.63*	
		For 316 Stainless Steel, Add	*48.99*	
		For Aluminum, Add	*2.76*	
		For Galvanized Steel, Add	*9.49*	
		For High Strength Steel (HSS), Add	*5.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0484	LF	6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	27.22	9.51
		For >100 To 250, Deduct	*-1.32*	
		For >250 To 500, Deduct	*-2.00*	
		For >500 To 1,000, Deduct	*-2.99*	
		For >1,000, Deduct	*-3.99*	
		For 304 Stainless Steel, Add	*41.41*	
		For 316 Stainless Steel, Add	*46.50*	
		For Aluminum, Add	*2.62*	
		For Galvanized Steel, Add	*9.01*	
		For High Strength Steel (HSS), Add	*5.44*	
05 12 23 00-0485		3/8" Thick *(05 12 23 00-0423)*		
05 12 23 00-0486	LF	3" x 2" x 3/8" Thick, Plain Steel Angle Iron	16.83	6.06
		For >100 To 250, Deduct	*-0.82*	
		For >250 To 500, Deduct	*-1.25*	
		For >500 To 1,000, Deduct	*-1.87*	
		For >1,000, Deduct	*-2.49*	
		For 304 Stainless Steel, Add	*24.94*	
		For 316 Stainless Steel, Add	*28.00*	
		For Aluminum, Add	*1.58*	
		For Galvanized Steel, Add	*5.43*	
		For High Strength Steel (HSS), Add	*3.37*	
05 12 23 00-0487	LF	3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron	18.57	6.56
		For >100 To 250, Deduct	*-0.90*	
		For >250 To 500, Deduct	*-1.37*	
		For >500 To 1,000, Deduct	*-2.05*	
		For >1,000, Deduct	*-2.73*	
		For 304 Stainless Steel, Add	*27.96*	
		For 316 Stainless Steel, Add	*31.39*	
		For Aluminum, Add	*1.77*	
		For Galvanized Steel, Add	*6.08*	
		For High Strength Steel (HSS), Add	*3.71*	
05 12 23 00-0488	LF	3" x 3" x 3/8" Thick, Plain Steel Angle Iron	20.10	7.08
		For >100 To 250, Deduct	*-0.97*	
		For >250 To 500, Deduct	*-1.48*	
		For >500 To 1,000, Deduct	*-2.21*	
		For >1,000, Deduct	*-2.95*	
		For 304 Stainless Steel, Add	*30.41*	
		For 316 Stainless Steel, Add	*34.14*	
		For Aluminum, Add	*1.92*	
		For Galvanized Steel, Add	*6.62*	
		For High Strength Steel (HSS), Add	*4.02*	
05 12 23 00-0489	LF	3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron	21.43	7.27
		For >100 To 250, Deduct	*-1.02*	
		For >250 To 500, Deduct	*-1.56*	
		For >500 To 1,000, Deduct	*-2.33*	
		For >1,000, Deduct	*-3.11*	
		For 304 Stainless Steel, Add	*33.46*	
		For 316 Stainless Steel, Add	*37.57*	
		For Aluminum, Add	*2.11*	
		For Galvanized Steel, Add	*7.28*	
		For High Strength Steel (HSS), Add	*4.29*	
05 12 23 00-0490	LF	3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	22.82	7.66
		For >100 To 250, Deduct	*-1.08*	
		For >250 To 500, Deduct	*-1.65*	
		For >500 To 1,000, Deduct	*-2.48*	
		For >1,000, Deduct	*-3.30*	
		For 304 Stainless Steel, Add	*35.91*	
		For 316 Stainless Steel, Add	*40.32*	
		For Aluminum, Add	*2.27*	
		For Galvanized Steel, Add	*7.81*	
		For High Strength Steel (HSS), Add	*4.56*	
05 12 23 00-0491	LF	4" x 3" x 3/8" Thick, Plain Steel Angle Iron	22.82	7.66
		For >100 To 250, Deduct	*-1.08*	
		For >250 To 500, Deduct	*-1.65*	
		For >500 To 1,000, Deduct	*-2.48*	
		For >1,000, Deduct	*-3.30*	
		For 304 Stainless Steel, Add	*35.91*	
		For 316 Stainless Steel, Add	*40.32*	
		For Aluminum, Add	*2.27*	
		For Galvanized Steel, Add	*7.81*	
		For High Strength Steel (HSS), Add	*4.56*	
05 12 23 00-0492	LF	4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	24.62	8.36
		For >100 To 250, Deduct	*-1.17*	
		For >250 To 500, Deduct	*-1.79*	
		For >500 To 1,000, Deduct	*-2.68*	
		For >1,000, Deduct	*-3.58*	
		For 304 Stainless Steel, Add	*38.45*	
		For 316 Stainless Steel, Add	*43.17*	
		For Aluminum, Add	*2.43*	
		For Galvanized Steel, Add	*8.36*	
		For High Strength Steel (HSS), Add	*4.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0493	LF	4" x 4" x 3/8" Thick, Plain Steel Angle Iron	25.99	8.60
		For >100 To 250, Deduct	*-1.22*	
		For >250 To 500, Deduct	*-1.87*	
		For >500 To 1,000, Deduct	*-2.81*	
		For >1,000, Deduct	*-3.75*	
		For 304 Stainless Steel, Add	*41.41*	
		For 316 Stainless Steel, Add	*46.50*	
		For Aluminum, Add	*2.62*	
		For Galvanized Steel, Add	*9.01*	
		For High Strength Steel (HSS), Add	*5.20*	
05 12 23 00-0494	LF	5" x 3" x 3/8" Thick, Plain Steel Angle Iron	26.45	8.94
		For >100 To 250, Deduct	*-1.26*	
		For >250 To 500, Deduct	*-1.92*	
		For >500 To 1,000, Deduct	*-2.88*	
		For >1,000, Deduct	*-3.84*	
		For 304 Stainless Steel, Add	*41.41*	
		For 316 Stainless Steel, Add	*46.50*	
		For Aluminum, Add	*2.62*	
		For Galvanized Steel, Add	*9.01*	
		For High Strength Steel (HSS), Add	*5.29*	
05 12 23 00-0495	LF	5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	28.27	9.63
		For >100 To 250, Deduct	*-1.35*	
		For >250 To 500, Deduct	*-2.06*	
		For >500 To 1,000, Deduct	*-3.08*	
		For >1,000, Deduct	*-4.11*	
		For 304 Stainless Steel, Add	*43.95*	
		For 316 Stainless Steel, Add	*49.34*	
		For Aluminum, Add	*2.78*	
		For Galvanized Steel, Add	*9.56*	
		For High Strength Steel (HSS), Add	*5.65*	
05 12 23 00-0496	LF	5" x 5" x 3/8" Thick, Plain Steel Angle Iron	33.24	11.23
		For >100 To 250, Deduct	*-1.58*	
		For >250 To 500, Deduct	*-2.41*	
		For >500 To 1,000, Deduct	*-3.62*	
		For >1,000, Deduct	*-4.82*	
		For 304 Stainless Steel, Add	*52.10*	
		For 316 Stainless Steel, Add	*58.50*	
		For Aluminum, Add	*3.29*	
		For Galvanized Steel, Add	*11.33*	
		For High Strength Steel (HSS), Add	*6.65*	
05 12 23 00-0497	LF	6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	31.25	10.44
		For >100 To 250, Deduct	*-1.48*	
		For >250 To 500, Deduct	*-2.26*	
		For >500 To 1,000, Deduct	*-3.39*	
		For >1,000, Deduct	*-4.52*	
		For 304 Stainless Steel, Add	*49.42*	
		For 316 Stainless Steel, Add	*55.49*	
		For Aluminum, Add	*3.12*	
		For Galvanized Steel, Add	*10.75*	
		For High Strength Steel (HSS), Add	*6.25*	
05 12 23 00-0498	LF	6" x 4" x 3/8" Thick, Plain Steel Angle Iron	33.24	11.23
		For >100 To 250, Deduct	*-1.58*	
		For >250 To 500, Deduct	*-2.41*	
		For >500 To 1,000, Deduct	*-3.62*	
		For >1,000, Deduct	*-4.82*	
		For 304 Stainless Steel, Add	*52.10*	
		For 316 Stainless Steel, Add	*58.50*	
		For Aluminum, Add	*3.29*	
		For Galvanized Steel, Add	*11.33*	
		For High Strength Steel (HSS), Add	*6.65*	
05 12 23 00-0499	LF	6" x 6" x 3/8" Thick, Plain Steel Angle Iron	40.09	13.47
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-2.90*	
		For >500 To 1,000, Deduct	*-4.35*	
		For >1,000, Deduct	*-5.80*	
		For 304 Stainless Steel, Add	*63.10*	
		For 316 Stainless Steel, Add	*70.85*	
		For Aluminum, Add	*3.99*	
		For Galvanized Steel, Add	*13.73*	
		For High Strength Steel (HSS), Add	*8.02*	
05 12 23 00-0500	LF	7" x 4" x 3/8" Thick, Plain Steel Angle Iron	36.68	12.34
		For >100 To 250, Deduct	*-1.74*	
		For >250 To 500, Deduct	*-2.66*	
		For >500 To 1,000, Deduct	*-3.99*	
		For >1,000, Deduct	*-5.32*	
		For 304 Stainless Steel, Add	*57.60*	
		For 316 Stainless Steel, Add	*64.67*	
		For Aluminum, Add	*3.64*	
		For Galvanized Steel, Add	*12.53*	
		For High Strength Steel (HSS), Add	*7.34*	

05 12 23 00-0501 1/2" Thick *(05 12 23 00-0423)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0502	LF	3" x 3" x 1/2" Thick, Plain Steel Angle Iron	23.60	7.23
		For >100 To 250, Deduct	*-1.07*	
		For >250 To 500, Deduct	*-1.66*	
		For >500 To 1,000, Deduct	*-2.49*	
		For >1,000, Deduct	*-3.32*	
		For 304 Stainless Steel, Add	*39.81*	
		For 316 Stainless Steel, Add	*44.70*	
		For Aluminum, Add	*2.51*	
		For Galvanized Steel, Add	*8.66*	
		For High Strength Steel (HSS), Add	*4.72*	
05 12 23 00-0503	LF	4" x 3" x 1/2" Thick, Plain Steel Angle Iron	27.88	8.54
		For >100 To 250, Deduct	*-1.27*	
		For >250 To 500, Deduct	*-1.96*	
		For >500 To 1,000, Deduct	*-2.94*	
		For >1,000, Deduct	*-3.93*	
		For 304 Stainless Steel, Add	*47.03*	
		For 316 Stainless Steel, Add	*52.80*	
		For Aluminum, Add	*2.97*	
		For Galvanized Steel, Add	*10.23*	
		For High Strength Steel (HSS), Add	*5.58*	
05 12 23 00-0504	LF	4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	29.88	9.15
		For >100 To 250, Deduct	*-1.36*	
		For >250 To 500, Deduct	*-2.10*	
		For >500 To 1,000, Deduct	*-3.16*	
		For >1,000, Deduct	*-4.21*	
		For 304 Stainless Steel, Add	*50.39*	
		For 316 Stainless Steel, Add	*56.58*	
		For Aluminum, Add	*3.18*	
		For Galvanized Steel, Add	*10.96*	
		For High Strength Steel (HSS), Add	*5.98*	
05 12 23 00-0505	LF	4" x 4" x 1/2" Thick, Plain Steel Angle Iron	32.15	9.85
		For >100 To 250, Deduct	*-1.46*	
		For >250 To 500, Deduct	*-2.26*	
		For >500 To 1,000, Deduct	*-3.40*	
		For >1,000, Deduct	*-4.53*	
		For 304 Stainless Steel, Add	*54.21*	
		For 316 Stainless Steel, Add	*60.86*	
		For Aluminum, Add	*3.42*	
		For Galvanized Steel, Add	*11.79*	
		For High Strength Steel (HSS), Add	*6.43*	
05 12 23 00-0506	LF	5" x 3" x 1/2" Thick, Plain Steel Angle Iron	32.15	9.85
		For >100 To 250, Deduct	*-1.46*	
		For >250 To 500, Deduct	*-2.26*	
		For >500 To 1,000, Deduct	*-3.40*	
		For >1,000, Deduct	*-4.53*	
		For 304 Stainless Steel, Add	*54.21*	
		For 316 Stainless Steel, Add	*60.86*	
		For Aluminum, Add	*3.42*	
		For Galvanized Steel, Add	*11.79*	
		For High Strength Steel (HSS), Add	*6.43*	
05 12 23 00-0507	LF	5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	34.15	10.46
		For >100 To 250, Deduct	*-1.55*	
		For >250 To 500, Deduct	*-2.40*	
		For >500 To 1,000, Deduct	*-3.61*	
		For >1,000, Deduct	*-4.81*	
		For 304 Stainless Steel, Add	*57.60*	
		For 316 Stainless Steel, Add	*64.67*	
		For Aluminum, Add	*3.64*	
		For Galvanized Steel, Add	*12.53*	
		For High Strength Steel (HSS), Add	*6.83*	
05 12 23 00-0508	LF	5" x 5" x 1/2" Thick, Plain Steel Angle Iron	40.68	12.45
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.86*	
		For >500 To 1,000, Deduct	*-4.30*	
		For >1,000, Deduct	*-5.73*	
		For 304 Stainless Steel, Add	*68.60*	
		For 316 Stainless Steel, Add	*77.02*	
		For Aluminum, Add	*4.33*	
		For Galvanized Steel, Add	*14.92*	
		For High Strength Steel (HSS), Add	*8.14*	
05 12 23 00-0509	LF	6" x 4" x 1/2" Thick, Plain Steel Angle Iron	40.68	12.45
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 500, Deduct	*-2.86*	
		For >500 To 1,000, Deduct	*-4.30*	
		For >1,000, Deduct	*-5.73*	
		For 304 Stainless Steel, Add	*68.60*	
		For 316 Stainless Steel, Add	*77.02*	
		For Aluminum, Add	*4.33*	
		For Galvanized Steel, Add	*14.92*	
		For High Strength Steel (HSS), Add	*8.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0510	LF	6" x 6" x 1/2" Thick, Plain Steel Angle Iron	49.21	15.07
		For >100 To 250, Deduct	*-2.23*	
		For >250 To 500, Deduct	*-3.47*	
		For >500 To 1,000, Deduct	*-5.20*	
		For >1,000, Deduct	*-6.93*	
		For 304 Stainless Steel, Add	*82.99*	
		For 316 Stainless Steel, Add	*93.18*	
		For Aluminum, Add	*5.24*	
		For Galvanized Steel, Add	*18.05*	
		For High Strength Steel (HSS), Add	*9.84*	
05 12 23 00-0511	LF	7" x 4" x 1/2" Thick, Plain Steel Angle Iron	44.93	13.76
		For >100 To 250, Deduct	*-2.04*	
		For >250 To 500, Deduct	*-3.16*	
		For >500 To 1,000, Deduct	*-4.75*	
		For >1,000, Deduct	*-6.33*	
		For 304 Stainless Steel, Add	*75.78*	
		For 316 Stainless Steel, Add	*85.09*	
		For Aluminum, Add	*4.79*	
		For Galvanized Steel, Add	*16.49*	
		For High Strength Steel (HSS), Add	*8.99*	
05 12 23 00-0512	LF	8" x 4" x 1/2" Thick, Plain Steel Angle Iron	49.21	15.07
		For >100 To 250, Deduct	*-2.23*	
		For >250 To 500, Deduct	*-3.47*	
		For >500 To 1,000, Deduct	*-5.20*	
		For >1,000, Deduct	*-6.93*	
		For 304 Stainless Steel, Add	*82.99*	
		For 316 Stainless Steel, Add	*93.18*	
		For Aluminum, Add	*5.24*	
		For Galvanized Steel, Add	*18.05*	
		For High Strength Steel (HSS), Add	*9.84*	
05 12 23 00-0513	LF	8" x 6" x 1/2" Thick, Plain Steel Angle Iron	57.76	17.69
		For >100 To 250, Deduct	*-2.62*	
		For >250 To 500, Deduct	*-4.07*	
		For >500 To 1,000, Deduct	*-6.10*	
		For >1,000, Deduct	*-8.13*	
		For 304 Stainless Steel, Add	*97.41*	
		For 316 Stainless Steel, Add	*109.38*	
		For Aluminum, Add	*6.15*	
		For Galvanized Steel, Add	*21.19*	
		For High Strength Steel (HSS), Add	*11.55*	
05 12 23 00-0514	LF	8" x 8" x 1/2" Thick, Plain Steel Angle Iron	66.28	20.30
		For >100 To 250, Deduct	*-3.01*	
		For >250 To 500, Deduct	*-4.67*	
		For >500 To 1,000, Deduct	*-7.00*	
		For >1,000, Deduct	*-9.33*	
		For 304 Stainless Steel, Add	*111.78*	
		For 316 Stainless Steel, Add	*125.50*	
		For Aluminum, Add	*7.06*	
		For Galvanized Steel, Add	*24.32*	
		For High Strength Steel (HSS), Add	*13.26*	
05 12 23 00-0515		5/8" Thick *(05 12 23 00-0423)*		
05 12 23 00-0516	LF	4" x 4" x 5/8" Thick, Plain Steel Angle Iron	38.37	11.29
		For >100 To 250, Deduct	*-1.71*	
		For >250 To 500, Deduct	*-2.67*	
		For >500 To 1,000, Deduct	*-4.01*	
		For >1,000, Deduct	*-5.34*	
		For 316 Stainless Steel, Add	*74.66*	
		For Aluminum, Add	*4.20*	
		For Galvanized Steel, Add	*14.46*	
		For High Strength Steel (HSS), Add	*7.67*	
05 12 23 00-0517	LF	5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron	41.07	12.07
		For >100 To 250, Deduct	*-1.83*	
		For >250 To 500, Deduct	*-2.86*	
		For >500 To 1,000, Deduct	*-4.29*	
		For >1,000, Deduct	*-5.72*	
		For 316 Stainless Steel, Add	*79.90*	
		For Aluminum, Add	*4.49*	
		For Galvanized Steel, Add	*15.48*	
		For High Strength Steel (HSS), Add	*8.21*	
05 12 23 00-0518	LF	5" x 5" x 5/8" Thick, Plain Steel Angle Iron	48.87	14.38
		For >100 To 250, Deduct	*-2.18*	
		For >250 To 500, Deduct	*-3.40*	
		For >500 To 1,000, Deduct	*-5.10*	
		For >1,000, Deduct	*-6.80*	
		For 316 Stainless Steel, Add	*95.07*	
		For Aluminum, Add	*5.35*	
		For Galvanized Steel, Add	*18.42*	
		For High Strength Steel (HSS), Add	*9.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0519	LF	6" x 4" x 5/8" Thick, Plain Steel Angle Iron	48.87	14.38
		For >100 To 250, Deduct	*-2.18*	
		For >250 To 500, Deduct	*-3.40*	
		For >500 To 1,000, Deduct	*-5.10*	
		For >1,000, Deduct	*-6.80*	
		For 316 Stainless Steel, Add	*95.07*	
		For Aluminum, Add	*5.35*	
		For Galvanized Steel, Add	*18.42*	
		For High Strength Steel (HSS), Add	*9.77*	
05 12 23 00-0520	LF	6" x 6" x 5/8" Thick, Plain Steel Angle Iron	59.15	17.39
		For >100 To 250, Deduct	*-2.64*	
		For >250 To 500, Deduct	*-4.12*	
		For >500 To 1,000, Deduct	*-6.18*	
		For >1,000, Deduct	*-8.23*	
		For 316 Stainless Steel, Add	*115.07*	
		For Aluminum, Add	*6.47*	
		For Galvanized Steel, Add	*22.30*	
		For High Strength Steel (HSS), Add	*11.83*	
05 12 23 00-0521	LF	7" x 4" x 5/8" Thick, Plain Steel Angle Iron	54.01	15.88
		For >100 To 250, Deduct	*-2.41*	
		For >250 To 500, Deduct	*-3.76*	
		For >500 To 1,000, Deduct	*-5.64*	
		For >1,000, Deduct	*-7.52*	
		For 316 Stainless Steel, Add	*105.09*	
		For Aluminum, Add	*5.91*	
		For Galvanized Steel, Add	*20.36*	
		For High Strength Steel (HSS), Add	*10.80*	
05 12 23 00-0522	LF	8" x 6" x 5/8" Thick, Plain Steel Angle Iron	69.65	20.48
		For >100 To 250, Deduct	*-3.11*	
		For >250 To 500, Deduct	*-4.85*	
		For >500 To 1,000, Deduct	*-7.27*	
		For >1,000, Deduct	*-9.70*	
		For 316 Stainless Steel, Add	*135.52*	
		For Aluminum, Add	*7.62*	
		For Galvanized Steel, Add	*26.26*	
		For High Strength Steel (HSS), Add	*13.93*	
05 12 23 00-0523	LF	8" x 8" x 5/8" Thick, Plain Steel Angle Iron	79.93	23.50
		For >100 To 250, Deduct	*-3.56*	
		For >250 To 500, Deduct	*-5.56*	
		For >500 To 1,000, Deduct	*-8.34*	
		For >1,000, Deduct	*-11.13*	
		For 316 Stainless Steel, Add	*155.52*	
		For Aluminum, Add	*8.75*	
		For Galvanized Steel, Add	*30.13*	
		For High Strength Steel (HSS), Add	*15.99*	

05 12 23 00-0524 3/4" Thick *(05 12 23 00-0423)*

05 12 23 00-0525	LF	4" x 4" x 3/4" Thick, Plain Steel Angle Iron	44.12	12.46
		For >100 To 250, Deduct	*-1.93*	
		For >250 To 500, Deduct	*-3.04*	
		For >500 To 1,000, Deduct	*-4.56*	
		For >1,000, Deduct	*-6.07*	
		For 316 Stainless Steel, Add	*88.00*	
		For Aluminum, Add	*4.95*	
		For Galvanized Steel, Add	*17.05*	
		For High Strength Steel (HSS), Add	*8.82*	
05 12 23 00-0526	LF	5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron	47.21	13.34
		For >100 To 250, Deduct	*-2.07*	
		For >250 To 500, Deduct	*-3.25*	
		For >500 To 1,000, Deduct	*-4.88*	
		For >1,000, Deduct	*-6.50*	
		For 316 Stainless Steel, Add	*94.14*	
		For Aluminum, Add	*5.30*	
		For Galvanized Steel, Add	*18.24*	
		For High Strength Steel (HSS), Add	*9.44*	
05 12 23 00-0527	LF	5" x 5" x 3/4" Thick, Plain Steel Angle Iron	56.27	15.91
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.87*	
		For >500 To 1,000, Deduct	*-5.81*	
		For >1,000, Deduct	*-7.75*	
		For 316 Stainless Steel, Add	*112.22*	
		For Aluminum, Add	*6.31*	
		For Galvanized Steel, Add	*21.74*	
		For High Strength Steel (HSS), Add	*11.25*	
05 12 23 00-0528	LF	6" x 4" x 3/4" Thick, Plain Steel Angle Iron	56.27	15.91
		For >100 To 250, Deduct	*-2.47*	
		For >250 To 500, Deduct	*-3.87*	
		For >500 To 1,000, Deduct	*-5.81*	
		For >1,000, Deduct	*-7.75*	
		For 316 Stainless Steel, Add	*112.22*	
		For Aluminum, Add	*6.31*	
		For Galvanized Steel, Add	*21.74*	
		For High Strength Steel (HSS), Add	*11.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0529	LF	6" x 6" x 3/4" Thick, Plain Steel Angle Iron	68.43	19.33
		For >100 To 250, Deduct	*-3.00*	
		For >250 To 500, Deduct	*-4.71*	
		For >500 To 1,000, Deduct	*-7.07*	
		For >1,000, Deduct	*-9.42*	
		For 316 Stainless Steel, Add	*136.48*	
		For Aluminum, Add	*7.68*	
		For Galvanized Steel, Add	*26.44*	
		For High Strength Steel (HSS), Add	*13.69*	
05 12 23 00-0530	LF	7" x 4" x 3/4" Thick, Plain Steel Angle Iron	62.47	17.65
		For >100 To 250, Deduct	*-2.74*	
		For >250 To 500, Deduct	*-4.30*	
		For >500 To 1,000, Deduct	*-6.45*	
		For >1,000, Deduct	*-8.60*	
		For 316 Stainless Steel, Add	*124.58*	
		For Aluminum, Add	*7.01*	
		For Galvanized Steel, Add	*24.14*	
		For High Strength Steel (HSS), Add	*12.49*	
05 12 23 00-0531	LF	8" x 4" x 3/4" Thick, Plain Steel Angle Iron	68.43	19.33
		For >100 To 250, Deduct	*-3.00*	
		For >250 To 500, Deduct	*-4.71*	
		For >500 To 1,000, Deduct	*-7.07*	
		For >1,000, Deduct	*-9.42*	
		For 316 Stainless Steel, Add	*136.48*	
		For Aluminum, Add	*7.68*	
		For Galvanized Steel, Add	*26.44*	
		For High Strength Steel (HSS), Add	*13.69*	
05 12 23 00-0532	LF	8" x 6" x 3/4" Thick, Plain Steel Angle Iron	80.60	22.76
		For >100 To 250, Deduct	*-3.53*	
		For >250 To 500, Deduct	*-5.55*	
		For >500 To 1,000, Deduct	*-8.32*	
		For >1,000, Deduct	*-11.10*	
		For 316 Stainless Steel, Add	*160.77*	
		For Aluminum, Add	*9.04*	
		For Galvanized Steel, Add	*31.15*	
		For High Strength Steel (HSS), Add	*16.12*	
05 12 23 00-0533	LF	8" x 8" x 3/4" Thick, Plain Steel Angle Iron	92.75	26.21
		For >100 To 250, Deduct	*-4.07*	
		For >250 To 500, Deduct	*-6.38*	
		For >500 To 1,000, Deduct	*-9.58*	
		For >1,000, Deduct	*-12.77*	
		For 316 Stainless Steel, Add	*184.99*	
		For Aluminum, Add	*10.41*	
		For Galvanized Steel, Add	*35.84*	
		For High Strength Steel (HSS), Add	*18.55*	
05 12 23 00-0534		7/8" Thick *(05 12 23 00-0423)*		
05 12 23 00-0535	LF	5" x 5" x 7/8" Thick, Plain Steel Angle Iron	63.21	17.10
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-4.30*	
		For >500 To 1,000, Deduct	*-6.45*	
		For >1,000, Deduct	*-8.60*	
		For 316 Stainless Steel, Add	*129.31*	
		For Aluminum, Add	*7.27*	
		For Galvanized Steel, Add	*25.05*	
		For High Strength Steel (HSS), Add	*12.64*	
05 12 23 00-0536	LF	6" x 4" x 7/8" Thick, Plain Steel Angle Iron	63.21	17.10
		For >100 To 250, Deduct	*-2.72*	
		For >250 To 500, Deduct	*-4.30*	
		For >500 To 1,000, Deduct	*-6.45*	
		For >1,000, Deduct	*-8.60*	
		For 316 Stainless Steel, Add	*129.31*	
		For Aluminum, Add	*7.27*	
		For Galvanized Steel, Add	*25.05*	
		For High Strength Steel (HSS), Add	*12.64*	
05 12 23 00-0537	LF	6" x 6" x 7/8" Thick, Plain Steel Angle Iron	76.94	20.82
		For >100 To 250, Deduct	*-3.31*	
		For >250 To 500, Deduct	*-5.23*	
		For >500 To 1,000, Deduct	*-7.85*	
		For >1,000, Deduct	*-10.47*	
		For 316 Stainless Steel, Add	*157.41*	
		For Aluminum, Add	*8.85*	
		For Galvanized Steel, Add	*30.50*	
		For High Strength Steel (HSS), Add	*15.39*	
05 12 23 00-0538	LF	8" x 6" x 7/8" Thick, Plain Steel Angle Iron	90.89	24.58
		For >100 To 250, Deduct	*-3.91*	
		For >250 To 500, Deduct	*-6.18*	
		For >500 To 1,000, Deduct	*-9.28*	
		For >1,000, Deduct	*-12.37*	
		For 316 Stainless Steel, Add	*185.95*	
		For Aluminum, Add	*10.46*	
		For Galvanized Steel, Add	*36.03*	
		For High Strength Steel (HSS), Add	*18.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0539	LF	8" x 8" x 7/8" Thick, Plain Steel Angle Iron	104.58	28.30
		For >100 To 250, Deduct	*-4.50*	
		For >250 To 500, Deduct	*-7.12*	
		For >500 To 1,000, Deduct	*-10.67*	
		For >1,000, Deduct	*-14.23*	
		For 316 Stainless Steel, Add	*213.95*	
		For Aluminum, Add	*12.03*	
		For Galvanized Steel, Add	*41.45*	
		For High Strength Steel (HSS), Add	*20.92*	

05 12 23 00-0540 Bar Channel *(05 12 23 00-0422)*

05 12 23 00-0541	LF	1" x 1/2" x 1/8" Thick Bar Channel	5.40	
		For 304 Stainless Steel, Add	*4.62*	
		For 316 Stainless Steel, Add	*5.18*	
		For Aluminum, Add	*0.29*	
		For Galvanized Steel, Add	*1.00*	
		For High Strength Steel (HSS), Add	*1.08*	
05 12 23 00-0542	LF	1-1/4" x 1/2" x 1/8" Thick Bar Channel	6.05	
		For 304 Stainless Steel, Add	*5.53*	
		For 316 Stainless Steel, Add	*6.21*	
		For Aluminum, Add	*0.35*	
		For Galvanized Steel, Add	*1.20*	
		For High Strength Steel (HSS), Add	*1.21*	
05 12 23 00-0543	LF	1-1/2" x 1/2" x 1/8" Thick Bar Channel	6.58	
		For 304 Stainless Steel, Add	*6.10*	
		For 316 Stainless Steel, Add	*6.85*	
		For Aluminum, Add	*0.39*	
		For Galvanized Steel, Add	*1.33*	
		For High Strength Steel (HSS), Add	*1.32*	
05 12 23 00-0544	LF	1-1/2" x 3/4" x 1/8" Thick Bar Channel	7.55	
		For 304 Stainless Steel, Add	*6.36*	
		For 316 Stainless Steel, Add	*7.14*	
		For Aluminum, Add	*0.40*	
		For Galvanized Steel, Add	*1.38*	
		For High Strength Steel (HSS), Add	*1.51*	
05 12 23 00-0545	LF	2" x 1/2" x 1/8" Thick Bar Channel	8.06	
		For 304 Stainless Steel, Add	*7.81*	
		For 316 Stainless Steel, Add	*8.77*	
		For Aluminum, Add	*0.49*	
		For Galvanized Steel, Add	*1.70*	
05 12 23 00-0546	LF	2" x 1" x 1/8" Thick Bar Channel	10.65	
		For 304 Stainless Steel, Add	*8.72*	
		For 316 Stainless Steel, Add	*9.79*	
		For Aluminum, Add	*0.55*	
		For Galvanized Steel, Add	*1.90*	

05 12 23 00-0547 Channels - C *(05 12 23 00-0422)*

05 12 23 00-0548	LF	C2 x 1.78 - 2" Wide Channel	8.85	4.68
		For >100 To 250, Deduct	*-0.53*	
		For >250 To 500, Deduct	*-0.76*	
		For >500 To 1,000, Deduct	*-1.13*	
		For >1,000, Deduct	*-1.51*	
		For 304 Stainless Steel, Add	*7.41*	
		For 316 Stainless Steel, Add	*8.32*	
		For Aluminum, Add	*0.47*	
		For Galvanized Steel, Add	*1.61*	
05 12 23 00-0549	LF	C3 x 4.1 - 3" Wide Channel	15.07	6.74
		For >100 To 250, Deduct	*-0.83*	
		For >250 To 500, Deduct	*-1.20*	
		For >500 To 1,000, Deduct	*-1.80*	
		For >1,000, Deduct	*-2.41*	
		For 304 Stainless Steel, Add	*17.36*	
		For 316 Stainless Steel, Add	*19.49*	
		For Aluminum, Add	*1.10*	
		For Galvanized Steel, Add	*3.78*	
05 12 23 00-0550	LF	C3 x 5 - 3" Wide Channel	18.38	8.22
		For >100 To 250, Deduct	*-1.01*	
		For >250 To 500, Deduct	*-1.47*	
		For >500 To 1,000, Deduct	*-2.20*	
		For >1,000, Deduct	*-2.93*	
		For 304 Stainless Steel, Add	*21.18*	
		For 316 Stainless Steel, Add	*23.78*	
		For Aluminum, Add	*1.34*	
		For Galvanized Steel, Add	*4.61*	
05 12 23 00-0551	LF	C3 x 6 - 3" Wide Channel	22.06	9.86
		For >100 To 250, Deduct	*-1.21*	
		For >250 To 500, Deduct	*-1.76*	
		For >500 To 1,000, Deduct	*-2.64*	
		For >1,000, Deduct	*-3.52*	
		For 304 Stainless Steel, Add	*25.39*	
		For 316 Stainless Steel, Add	*28.51*	
		For Aluminum, Add	*1.60*	
		For Galvanized Steel, Add	*5.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0552	LF	C4 x 5.4 - 4" Wide Channel	18.80	8.08
		For >100 To 250, Deduct	*-1.01*	
		For >250 To 500, Deduct	*-1.48*	
		For >500 To 1,000, Deduct	*-2.22*	
		For >1,000, Deduct	*-2.96*	
		For 304 Stainless Steel, Add	*22.86*	
		For 316 Stainless Steel, Add	*25.66*	
		For Aluminum, Add	*1.44*	
		For Galvanized Steel, Add	*4.97*	
05 12 23 00-0553	LF	C4 x 7.25 - 4" Wide Channel	25.24	10.85
		For >100 To 250, Deduct	*-1.35*	
		For >250 To 500, Deduct	*-1.99*	
		For >500 To 1,000, Deduct	*-2.98*	
		For >1,000, Deduct	*-3.97*	
		For 304 Stainless Steel, Add	*30.69*	
		For 316 Stainless Steel, Add	*34.46*	
		For Aluminum, Add	*1.94*	
		For Galvanized Steel, Add	*6.68*	
05 12 23 00-0554	LF	C5 x 6.7 - 5" Wide Channel	22.52	9.42
		For >100 To 250, Deduct	*-1.19*	
		For >250 To 500, Deduct	*-1.75*	
		For >500 To 1,000, Deduct	*-2.63*	
		For >1,000, Deduct	*-3.51*	
		For 304 Stainless Steel, Add	*28.36*	
		For 316 Stainless Steel, Add	*31.84*	
		For Aluminum, Add	*1.79*	
		For Galvanized Steel, Add	*6.17*	
05 12 23 00-0555	LF	C5 x 9 - 5" Wide Channel	30.25	12.67
		For >100 To 250, Deduct	*-1.60*	
		For >250 To 500, Deduct	*-2.36*	
		For >500 To 1,000, Deduct	*-3.53*	
		For >1,000, Deduct	*-4.71*	
		For 304 Stainless Steel, Add	*38.10*	
		For 316 Stainless Steel, Add	*42.78*	
		For Aluminum, Add	*2.41*	
		For Galvanized Steel, Add	*8.29*	
05 12 23 00-0556	LF	C6 x 8.2 - 6" Wide Channel	27.27	11.32
		For >100 To 250, Deduct	*-1.44*	
		For >250 To 500, Deduct	*-2.12*	
		For >500 To 1,000, Deduct	*-3.18*	
		For >1,000, Deduct	*-4.24*	
		For 304 Stainless Steel, Add	*34.71*	
		For 316 Stainless Steel, Add	*38.98*	
		For Aluminum, Add	*2.19*	
		For Galvanized Steel, Add	*7.55*	
05 12 23 00-0557	LF	C6 x 10.5 - 6" Wide Channel	34.92	14.49
		For >100 To 250, Deduct	*-1.84*	
		For >250 To 500, Deduct	*-2.71*	
		For >500 To 1,000, Deduct	*-4.07*	
		For >1,000, Deduct	*-5.42*	
		For 304 Stainless Steel, Add	*44.46*	
		For 316 Stainless Steel, Add	*49.92*	
		For Aluminum, Add	*2.81*	
		For Galvanized Steel, Add	*9.67*	
05 12 23 00-0558	LF	C6 x 13 - 6" Wide Channel	43.25	17.94
		For >100 To 250, Deduct	*-2.28*	
		For >250 To 500, Deduct	*-3.36*	
		For >500 To 1,000, Deduct	*-5.04*	
		For >1,000, Deduct	*-6.72*	
		For 304 Stainless Steel, Add	*55.06*	
		For 316 Stainless Steel, Add	*61.82*	
		For Aluminum, Add	*3.48*	
		For Galvanized Steel, Add	*11.98*	
05 12 23 00-0559	LF	C7 x 9.8 - 7" Wide Channel	32.52	13.47
		For >100 To 250, Deduct	*-1.71*	
		For >250 To 500, Deduct	*-2.52*	
		For >500 To 1,000, Deduct	*-3.79*	
		For >1,000, Deduct	*-5.05*	
		For 304 Stainless Steel, Add	*41.50*	
		For 316 Stainless Steel, Add	*46.59*	
		For Aluminum, Add	*2.62*	
		For Galvanized Steel, Add	*9.03*	
05 12 23 00-0560	LF	C7 x 12.25 - 7" Wide Channel	40.65	16.84
		For >100 To 250, Deduct	*-2.14*	
		For >250 To 500, Deduct	*-3.16*	
		For >500 To 1,000, Deduct	*-4.73*	
		For >1,000, Deduct	*-6.31*	
		For 304 Stainless Steel, Add	*51.87*	
		For 316 Stainless Steel, Add	*58.24*	
		For Aluminum, Add	*3.28*	
		For Galvanized Steel, Add	*11.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0561	LF	C7 x 14.75 - 7" Wide Channel	48.96	20.28
		For >100 To 250, Deduct	*-2.58*	
		For >250 To 500, Deduct	*-3.80*	
		For >500 To 1,000, Deduct	*-5.70*	
		For >1,000, Deduct	*-7.60*	
		For 304 Stainless Steel, Add	*62.47*	
		For 316 Stainless Steel, Add	*70.14*	
		For Aluminum, Add	*3.95*	
		For Galvanized Steel, Add	*13.59*	
05 12 23 00-0562	LF	C8 x 11.5 - 8" Wide Channel	36.85	14.82
		For >100 To 250, Deduct	*-1.91*	
		For >250 To 500, Deduct	*-2.83*	
		For >500 To 1,000, Deduct	*-4.25*	
		For >1,000, Deduct	*-5.66*	
		For 304 Stainless Steel, Add	*48.71*	
		For 316 Stainless Steel, Add	*54.69*	
		For Aluminum, Add	*3.08*	
		For Galvanized Steel, Add	*10.60*	
05 12 23 00-0563	LF	C8 x 13.75 - 8" Wide Channel	44.06	17.73
		For >100 To 250, Deduct	*-2.28*	
		For >250 To 500, Deduct	*-3.38*	
		For >500 To 1,000, Deduct	*-5.08*	
		For >1,000, Deduct	*-6.77*	
		For 304 Stainless Steel, Add	*58.23*	
		For 316 Stainless Steel, Add	*65.38*	
		For Aluminum, Add	*3.68*	
		For Galvanized Steel, Add	*12.67*	
05 12 23 00-0564	LF	C8 x 18.75 - 8" Wide Channel	60.08	24.17
		For >100 To 250, Deduct	*-3.11*	
		For >250 To 500, Deduct	*-4.62*	
		For >500 To 1,000, Deduct	*-6.92*	
		For >1,000, Deduct	*-9.23*	
		For 304 Stainless Steel, Add	*79.40*	
		For 316 Stainless Steel, Add	*89.15*	
		For Aluminum, Add	*5.01*	
		For Galvanized Steel, Add	*17.27*	
05 12 23 00-0565	LF	C9 x 13.4 - 9" Wide Channel	42.94	17.27
		For >100 To 250, Deduct	*-2.23*	
		For >250 To 500, Deduct	*-3.30*	
		For >500 To 1,000, Deduct	*-4.95*	
		For >1,000, Deduct	*-6.60*	
		For 304 Stainless Steel, Add	*56.74*	
		For 316 Stainless Steel, Add	*63.71*	
		For Aluminum, Add	*3.58*	
		For Galvanized Steel, Add	*12.34*	
05 12 23 00-0566	LF	C9 x 15 - 9" Wide Channel	48.06	19.33
		For >100 To 250, Deduct	*-2.49*	
		For >250 To 500, Deduct	*-3.69*	
		For >500 To 1,000, Deduct	*-5.54*	
		For >1,000, Deduct	*-7.38*	
		For 304 Stainless Steel, Add	*63.53*	
		For 316 Stainless Steel, Add	*71.33*	
		For Aluminum, Add	*4.01*	
		For Galvanized Steel, Add	*13.82*	
05 12 23 00-0567	LF	C9 x 20 - 9" Wide Channel	64.09	25.77
		For >100 To 250, Deduct	*-3.32*	
		For >250 To 500, Deduct	*-4.92*	
		For >500 To 1,000, Deduct	*-7.38*	
		For >1,000, Deduct	*-9.85*	
		For 304 Stainless Steel, Add	*84.70*	
		For 316 Stainless Steel, Add	*95.10*	
		For Aluminum, Add	*5.35*	
		For Galvanized Steel, Add	*18.43*	
05 12 23 00-0568	LF	C10 x 15.3 - 10" Wide Channel	49.02	19.71
		For >100 To 250, Deduct	*-2.54*	
		For >250 To 500, Deduct	*-3.77*	
		For >500 To 1,000, Deduct	*-5.65*	
		For >1,000, Deduct	*-7.53*	
		For 304 Stainless Steel, Add	*64.78*	
		For 316 Stainless Steel, Add	*72.74*	
		For Aluminum, Add	*4.09*	
		For Galvanized Steel, Add	*14.09*	
05 12 23 00-0569	LF	C10 x 20 - 10" Wide Channel	64.09	25.77
		For >100 To 250, Deduct	*-3.32*	
		For >250 To 500, Deduct	*-4.92*	
		For >500 To 1,000, Deduct	*-7.38*	
		For >1,000, Deduct	*-9.85*	
		For 304 Stainless Steel, Add	*84.70*	
		For 316 Stainless Steel, Add	*95.10*	
		For Aluminum, Add	*5.35*	
		For Galvanized Steel, Add	*18.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0570	LF	C10 x 25 - 10" Wide Channel	80.10	32.22
		For >100 To 250, Deduct	*-4.15*	
		For >250 To 500, Deduct	*-6.15*	
		For >500 To 1,000, Deduct	*-9.23*	
		For >1,000, Deduct	*-12.31*	
		For 304 Stainless Steel, Add	*105.85*	
		For 316 Stainless Steel, Add	*118.85*	
		For Aluminum, Add	*6.69*	
		For Galvanized Steel, Add	*23.03*	
05 12 23 00-0571	LF	C10 x 30 - 10" Wide Channel	96.12	38.66
		For >100 To 250, Deduct	*-4.98*	
		For >250 To 500, Deduct	*-7.38*	
		For >500 To 1,000, Deduct	*-11.08*	
		For >1,000, Deduct	*-14.77*	
		For 304 Stainless Steel, Add	*127.02*	
		For 316 Stainless Steel, Add	*142.62*	
		For Aluminum, Add	*8.02*	
		For Galvanized Steel, Add	*27.63*	
05 12 23 00-0572	LF	C12 x 20.7 - 12" Wide Channel	66.33	26.68
		For >100 To 250, Deduct	*-3.44*	
		For >250 To 500, Deduct	*-5.10*	
		For >500 To 1,000, Deduct	*-7.64*	
		For >1,000, Deduct	*-10.19*	
		For 304 Stainless Steel, Add	*87.67*	
		For 316 Stainless Steel, Add	*98.43*	
		For Aluminum, Add	*5.54*	
		For Galvanized Steel, Add	*19.07*	
05 12 23 00-0573	LF	C12 x 25 - 12" Wide Channel	80.10	32.22
		For >100 To 250, Deduct	*-4.15*	
		For >250 To 500, Deduct	*-6.15*	
		For >500 To 1,000, Deduct	*-9.23*	
		For >1,000, Deduct	*-12.31*	
		For 304 Stainless Steel, Add	*105.85*	
		For 316 Stainless Steel, Add	*118.85*	
		For Aluminum, Add	*6.69*	
		For Galvanized Steel, Add	*23.03*	
05 12 23 00-0574	LF	C12 x 30 - 12" Wide Channel	96.12	38.66
		For >100 To 250, Deduct	*-4.98*	
		For >250 To 500, Deduct	*-7.38*	
		For >500 To 1,000, Deduct	*-11.08*	
		For >1,000, Deduct	*-14.77*	
		For 304 Stainless Steel, Add	*127.02*	
		For 316 Stainless Steel, Add	*142.62*	
		For Aluminum, Add	*8.02*	
		For Galvanized Steel, Add	*27.63*	
05 12 23 00-0575	LF	C15 x 33.9 - 15" Wide Channel	108.62	43.69
		For >100 To 250, Deduct	*-5.63*	
		For >250 To 500, Deduct	*-8.34*	
		For >500 To 1,000, Deduct	*-12.52*	
		For >1,000, Deduct	*-16.69*	
		For 304 Stainless Steel, Add	*143.55*	
		For 316 Stainless Steel, Add	*161.18*	
		For Aluminum, Add	*9.07*	
		For Galvanized Steel, Add	*31.23*	
05 12 23 00-0576	LF	C15 x 40 - 15" Wide Channel	128.16	51.55
		For >100 To 250, Deduct	*-6.64*	
		For >250 To 500, Deduct	*-9.84*	
		For >500 To 1,000, Deduct	*-14.77*	
		For >1,000, Deduct	*-19.69*	
		For 304 Stainless Steel, Add	*169.38*	
		For 316 Stainless Steel, Add	*190.18*	
		For Aluminum, Add	*10.70*	
		For Galvanized Steel, Add	*36.85*	
05 12 23 00-0577	LF	C15 x 50 - 15" Wide Channel	160.21	64.43
		For >100 To 250, Deduct	*-8.30*	
		For >250 To 500, Deduct	*-12.31*	
		For >500 To 1,000, Deduct	*-18.46*	
		For >1,000, Deduct	*-24.61*	
		For 304 Stainless Steel, Add	*211.73*	
		For 316 Stainless Steel, Add	*237.73*	
		For Aluminum, Add	*13.37*	
		For Galvanized Steel, Add	*46.06*	

05 12 23 00-0578 Miscellaneous Channels - MC *(05 12 23 00-0422)*

05 12 23 00-0579	LF	MC6 x 12 - 6" Wide Channel	39.92	16.56
		For >100 To 250, Deduct	*-2.10*	
		For >250 To 500, Deduct	*-3.10*	
		For >500 To 1,000, Deduct	*-4.65*	
		For >1,000, Deduct	*-6.20*	
		For 304 Stainless Steel, Add	*50.82*	
		For 316 Stainless Steel, Add	*57.06*	
		For Aluminum, Add	*3.21*	
		For Galvanized Steel, Add	*11.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0580	LF	MC6 x 15.1 - 6" Wide Channel	50.23	20.84
		For >100 To 250, Deduct	*-2.65*	
		For >250 To 500, Deduct	*-3.90*	
		For >500 To 1,000, Deduct	*-5.85*	
		For >1,000, Deduct	*-7.80*	
		For 304 Stainless Steel, Add	*63.95*	
		For 316 Stainless Steel, Add	*71.81*	
		For Aluminum, Add	*4.04*	
		For Galvanized Steel, Add	*13.91*	
05 12 23 00-0581	LF	MC6 x 15.3 - 6" Wide Channel	50.89	21.11
		For >100 To 250, Deduct	*-2.68*	
		For >250 To 500, Deduct	*-3.95*	
		For >500 To 1,000, Deduct	*-5.93*	
		For >1,000, Deduct	*-7.91*	
		For 304 Stainless Steel, Add	*64.78*	
		For 316 Stainless Steel, Add	*72.74*	
		For Aluminum, Add	*4.09*	
		For Galvanized Steel, Add	*14.09*	
05 12 23 00-0582	LF	MC6 x 16.3 - 6" Wide Channel	54.22	22.49
		For >100 To 250, Deduct	*-2.86*	
		For >250 To 500, Deduct	*-4.21*	
		For >500 To 1,000, Deduct	*-6.32*	
		For >1,000, Deduct	*-8.42*	
		For 304 Stainless Steel, Add	*69.03*	
		For 316 Stainless Steel, Add	*77.50*	
		For Aluminum, Add	*4.36*	
		For Galvanized Steel, Add	*15.02*	
05 12 23 00-0583	LF	MC6 x 18 - 6" Wide Channel	59.86	24.84
		For >100 To 250, Deduct	*-3.15*	
		For >250 To 500, Deduct	*-4.65*	
		For >500 To 1,000, Deduct	*-6.97*	
		For >1,000, Deduct	*-9.30*	
		For 304 Stainless Steel, Add	*76.21*	
		For 316 Stainless Steel, Add	*85.57*	
		For Aluminum, Add	*4.81*	
		For Galvanized Steel, Add	*16.58*	
05 12 23 00-0584	LF	MC7 x 17.6 - 7" Wide Channel	58.42	24.20
		For >100 To 250, Deduct	*-3.07*	
		For >250 To 500, Deduct	*-4.53*	
		For >500 To 1,000, Deduct	*-6.80*	
		For >1,000, Deduct	*-9.07*	
		For 304 Stainless Steel, Add	*74.53*	
		For 316 Stainless Steel, Add	*83.68*	
		For Aluminum, Add	*4.71*	
		For Galvanized Steel, Add	*16.21*	
05 12 23 00-0585	LF	MC7 x 19.1 - 7" Wide Channel	63.40	26.27
		For >100 To 250, Deduct	*-3.34*	
		For >250 To 500, Deduct	*-4.92*	
		For >500 To 1,000, Deduct	*-7.38*	
		For >1,000, Deduct	*-9.84*	
		For 304 Stainless Steel, Add	*80.88*	
		For 316 Stainless Steel, Add	*90.82*	
		For Aluminum, Add	*5.11*	
		For Galvanized Steel, Add	*17.60*	
05 12 23 00-0586	LF	MC7 x 22.7 - 7" Wide Channel	75.35	31.21
		For >100 To 250, Deduct	*-3.96*	
		For >250 To 500, Deduct	*-5.85*	
		For >500 To 1,000, Deduct	*-8.77*	
		For >1,000, Deduct	*-11.70*	
		For 304 Stainless Steel, Add	*96.13*	
		For 316 Stainless Steel, Add	*107.94*	
		For Aluminum, Add	*6.07*	
		For Galvanized Steel, Add	*20.91*	
05 12 23 00-0587	LF	MC8 x 8.5 - 8" Wide Channel	27.24	10.95
		For >100 To 250, Deduct	*-1.41*	
		For >250 To 500, Deduct	*-2.09*	
		For >500 To 1,000, Deduct	*-3.14*	
		For >1,000, Deduct	*-4.19*	
		For 304 Stainless Steel, Add	*36.00*	
		For 316 Stainless Steel, Add	*40.42*	
		For Aluminum, Add	*2.27*	
		For Galvanized Steel, Add	*7.83*	
05 12 23 00-0588	LF	MC8 x 18.7 - 8" Wide Channel	59.92	24.09
		For >100 To 250, Deduct	*-3.11*	
		For >250 To 500, Deduct	*-4.60*	
		For >500 To 1,000, Deduct	*-6.90*	
		For >1,000, Deduct	*-9.21*	
		For 304 Stainless Steel, Add	*79.17*	
		For 316 Stainless Steel, Add	*88.90*	
		For Aluminum, Add	*5.00*	
		For Galvanized Steel, Add	*17.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0589	LF	MC8 x 20 - 8" Wide Channel	64.09	25.77
		For >100 To 250, Deduct	*-3.32*	
		For >250 To 500, Deduct	*-4.92*	
		For >500 To 1,000, Deduct	*-7.38*	
		For >1,000, Deduct	*-9.85*	
		For 304 Stainless Steel, Add	*84.70*	
		For 316 Stainless Steel, Add	*95.10*	
		For Aluminum, Add	*5.35*	
		For Galvanized Steel, Add	*18.43*	
05 12 23 00-0590	LF	MC8 x 21.4 - 8" Wide Channel	68.58	27.59
		For >100 To 250, Deduct	*-3.55*	
		For >250 To 500, Deduct	*-5.27*	
		For >500 To 1,000, Deduct	*-7.90*	
		For >1,000, Deduct	*-10.54*	
		For 304 Stainless Steel, Add	*90.63*	
		For 316 Stainless Steel, Add	*101.76*	
		For Aluminum, Add	*5.72*	
		For Galvanized Steel, Add	*19.72*	
05 12 23 00-0591	LF	MC8 x 22.8 - 8" Wide Channel	73.05	29.39
		For >100 To 250, Deduct	*-3.78*	
		For >250 To 500, Deduct	*-5.61*	
		For >500 To 1,000, Deduct	*-8.42*	
		For >1,000, Deduct	*-11.22*	
		For 304 Stainless Steel, Add	*96.56*	
		For 316 Stainless Steel, Add	*108.42*	
		For Aluminum, Add	*6.10*	
		For Galvanized Steel, Add	*21.01*	
05 12 23 00-0592	LF	MC9 x 23.9 - 9" Wide Channel	76.58	30.81
		For >100 To 250, Deduct	*-3.97*	
		For >250 To 500, Deduct	*-5.88*	
		For >500 To 1,000, Deduct	*-8.82*	
		For >1,000, Deduct	*-11.77*	
		For 304 Stainless Steel, Add	*101.20*	
		For 316 Stainless Steel, Add	*113.63*	
		For Aluminum, Add	*6.39*	
		For Galvanized Steel, Add	*22.02*	
05 12 23 00-0593	LF	MC9 x 25.4 - 9" Wide Channel	81.38	32.73
		For >100 To 250, Deduct	*-4.22*	
		For >250 To 500, Deduct	*-6.25*	
		For >500 To 1,000, Deduct	*-9.38*	
		For >1,000, Deduct	*-12.50*	
		For 304 Stainless Steel, Add	*107.56*	
		For 316 Stainless Steel, Add	*120.77*	
		For Aluminum, Add	*6.79*	
		For Galvanized Steel, Add	*23.40*	
05 12 23 00-0594	LF	MC10 x 6.5 - 10" Wide Channel	20.84	8.38
		For >100 To 250, Deduct	*-1.08*	
		For >250 To 500, Deduct	*-1.60*	
		For >500 To 1,000, Deduct	*-2.40*	
		For >1,000, Deduct	*-3.20*	
		For 304 Stainless Steel, Add	*27.53*	
		For 316 Stainless Steel, Add	*30.91*	
		For Aluminum, Add	*1.74*	
		For Galvanized Steel, Add	*5.99*	
05 12 23 00-0595	LF	MC10 x 8.4 - 10" Wide Channel	26.91	10.82
		For >100 To 250, Deduct	*-1.39*	
		For >250 To 500, Deduct	*-2.07*	
		For >500 To 1,000, Deduct	*-3.10*	
		For >1,000, Deduct	*-4.13*	
		For 304 Stainless Steel, Add	*35.57*	
		For 316 Stainless Steel, Add	*39.94*	
		For Aluminum, Add	*2.25*	
		For Galvanized Steel, Add	*7.74*	
05 12 23 00-0596	LF	MC10 x 21.9 - 10" Wide Channel	70.17	28.23
		For >100 To 250, Deduct	*-3.64*	
		For >250 To 500, Deduct	*-5.39*	
		For >500 To 1,000, Deduct	*-8.09*	
		For >1,000, Deduct	*-10.78*	
		For 304 Stainless Steel, Add	*92.74*	
		For 316 Stainless Steel, Add	*104.13*	
		For Aluminum, Add	*5.86*	
		For Galvanized Steel, Add	*20.17*	
05 12 23 00-0597	LF	MC10 x 24.9 - 10" Wide Channel	79.79	32.10
		For >100 To 250, Deduct	*-4.13*	
		For >250 To 500, Deduct	*-6.13*	
		For >500 To 1,000, Deduct	*-9.19*	
		For >1,000, Deduct	*-12.26*	
		For 304 Stainless Steel, Add	*105.45*	
		For 316 Stainless Steel, Add	*118.40*	
		For Aluminum, Add	*6.66*	
		For Galvanized Steel, Add	*22.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0598	LF	MC10 x 25.3 - 10" Wide Channel	81.06	32.61
		For >100 To 250, Deduct	*-4.20*	
		For >250 To 500, Deduct	*-6.23*	
		For >500 To 1,000, Deduct	*-9.34*	
		For >1,000, Deduct	*-12.45*	
		For 304 Stainless Steel, Add	*107.13*	
		For 316 Stainless Steel, Add	*120.29*	
		For Aluminum, Add	*6.77*	
		For Galvanized Steel, Add	*23.31*	
05 12 23 00-0599	LF	MC10 x 28.3 - 10" Wide Channel	90.69	36.46
		For >100 To 250, Deduct	*-4.70*	
		For >250 To 500, Deduct	*-6.97*	
		For >500 To 1,000, Deduct	*-10.45*	
		For >1,000, Deduct	*-13.93*	
		For 304 Stainless Steel, Add	*119.84*	
		For 316 Stainless Steel, Add	*134.56*	
		For Aluminum, Add	*7.57*	
		For Galvanized Steel, Add	*26.07*	
05 12 23 00-0600	LF	MC10 x 28.5 - 10" Wide Channel	91.31	36.73
		For >100 To 250, Deduct	*-4.73*	
		For >250 To 500, Deduct	*-7.01*	
		For >500 To 1,000, Deduct	*-10.52*	
		For >1,000, Deduct	*-14.03*	
		For 304 Stainless Steel, Add	*120.67*	
		For 316 Stainless Steel, Add	*135.49*	
		For Aluminum, Add	*7.62*	
		For Galvanized Steel, Add	*26.25*	
05 12 23 00-0601	LF	MC10 x 33.6 - 10" Wide Channel	107.66	43.31
		For >100 To 250, Deduct	*-5.58*	
		For >250 To 500, Deduct	*-8.27*	
		For >500 To 1,000, Deduct	*-12.41*	
		For >1,000, Deduct	*-16.54*	
		For 304 Stainless Steel, Add	*142.27*	
		For 316 Stainless Steel, Add	*159.74*	
		For Aluminum, Add	*8.99*	
		For Galvanized Steel, Add	*30.95*	
05 12 23 00-0602	LF	MC10 x 41.1 - 10" Wide Channel	131.69	52.98
		For >100 To 250, Deduct	*-6.82*	
		For >250 To 500, Deduct	*-10.12*	
		For >500 To 1,000, Deduct	*-15.17*	
		For >1,000, Deduct	*-20.23*	
		For 304 Stainless Steel, Add	*174.05*	
		For 316 Stainless Steel, Add	*195.42*	
		For Aluminum, Add	*10.99*	
		For Galvanized Steel, Add	*37.86*	
05 12 23 00-0603	LF	MC12 x 30.9 - 12" Wide Channel	99.02	39.82
		For >100 To 250, Deduct	*-5.13*	
		For >250 To 500, Deduct	*-7.61*	
		For >500 To 1,000, Deduct	*-11.41*	
		For >1,000, Deduct	*-15.21*	
		For 304 Stainless Steel, Add	*130.84*	
		For 316 Stainless Steel, Add	*146.91*	
		For Aluminum, Add	*8.26*	
		For Galvanized Steel, Add	*28.46*	
05 12 23 00-0604	LF	MC12 x 32.9 - 12" Wide Channel	105.42	42.39
		For >100 To 250, Deduct	*-5.46*	
		For >250 To 500, Deduct	*-8.10*	
		For >500 To 1,000, Deduct	*-12.15*	
		For >1,000, Deduct	*-16.20*	
		For 304 Stainless Steel, Add	*139.31*	
		For 316 Stainless Steel, Add	*156.42*	
		For Aluminum, Add	*8.80*	
		For Galvanized Steel, Add	*30.31*	
05 12 23 00-0605	LF	MC12 x 35 - 12" Wide Channel	112.14	45.10
		For >100 To 250, Deduct	*-5.81*	
		For >250 To 500, Deduct	*-8.61*	
		For >500 To 1,000, Deduct	*-12.92*	
		For >1,000, Deduct	*-17.23*	
		For 304 Stainless Steel, Add	*148.20*	
		For 316 Stainless Steel, Add	*166.40*	
		For Aluminum, Add	*9.36*	
		For Galvanized Steel, Add	*32.24*	
05 12 23 00-0606	LF	MC12 x 37 - 12" Wide Channel	118.56	47.69
		For >100 To 250, Deduct	*-6.14*	
		For >250 To 500, Deduct	*-9.11*	
		For >500 To 1,000, Deduct	*-13.66*	
		For >1,000, Deduct	*-18.22*	
		For 304 Stainless Steel, Add	*156.66*	
		For 316 Stainless Steel, Add	*175.90*	
		For Aluminum, Add	*9.89*	
		For Galvanized Steel, Add	*34.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0607	LF	MC12 x 40 - 12" Wide Channel	128.16	51.55
		For >100 To 250, Deduct	*-6.64*	
		For >250 To 500, Deduct	*-9.84*	
		For >500 To 1,000, Deduct	*-14.77*	
		For >1,000, Deduct	*-19.69*	
		For 304 Stainless Steel, Add	*169.38*	
		For 316 Stainless Steel, Add	*190.18*	
		For Aluminum, Add	*10.70*	
		For Galvanized Steel, Add	*36.85*	
05 12 23 00-0608	LF	MC12 x 45 - 12" Wide Channel	144.19	58.00
		For >100 To 250, Deduct	*-7.47*	
		For >250 To 500, Deduct	*-11.08*	
		For >500 To 1,000, Deduct	*-16.61*	
		For >1,000, Deduct	*-22.15*	
		For 304 Stainless Steel, Add	*190.55*	
		For 316 Stainless Steel, Add	*213.95*	
		For Aluminum, Add	*12.03*	
		For Galvanized Steel, Add	*41.45*	
05 12 23 00-0609	LF	MC12 x 50 - 12" Wide Channel	160.21	64.44
		For >100 To 250, Deduct	*-8.30*	
		For >250 To 500, Deduct	*-12.31*	
		For >500 To 1,000, Deduct	*-18.46*	
		For >1,000, Deduct	*-24.61*	
		For 304 Stainless Steel, Add	*211.73*	
		For 316 Stainless Steel, Add	*237.73*	
		For Aluminum, Add	*13.37*	
		For Galvanized Steel, Add	*46.06*	
05 12 23 00-0610	LF	MC13 x 31.8 - 13" Wide Channel	101.90	40.99
		For >100 To 250, Deduct	*-5.28*	
		For >250 To 500, Deduct	*-7.83*	
		For >500 To 1,000, Deduct	*-11.74*	
		For >1,000, Deduct	*-15.66*	
		For 304 Stainless Steel, Add	*134.66*	
		For 316 Stainless Steel, Add	*151.20*	
		For Aluminum, Add	*8.51*	
		For Galvanized Steel, Add	*29.30*	
05 12 23 00-0611	LF	MC13 x 35 - 13" Wide Channel	112.14	45.10
		For >100 To 250, Deduct	*-5.81*	
		For >250 To 500, Deduct	*-8.61*	
		For >500 To 1,000, Deduct	*-12.92*	
		For >1,000, Deduct	*-17.23*	
		For 304 Stainless Steel, Add	*148.20*	
		For 316 Stainless Steel, Add	*166.40*	
		For Aluminum, Add	*9.36*	
		For Galvanized Steel, Add	*32.24*	
05 12 23 00-0612	LF	MC13 x 40 - 13" Wide Channel	128.16	51.55
		For >100 To 250, Deduct	*-6.64*	
		For >250 To 500, Deduct	*-9.84*	
		For >500 To 1,000, Deduct	*-14.77*	
		For >1,000, Deduct	*-19.69*	
		For 304 Stainless Steel, Add	*169.38*	
		For 316 Stainless Steel, Add	*190.18*	
		For Aluminum, Add	*10.70*	
		For Galvanized Steel, Add	*36.85*	
05 12 23 00-0613	LF	MC13 x 50 - 13" Wide Channel	160.21	64.44
		For >100 To 250, Deduct	*-8.30*	
		For >250 To 500, Deduct	*-12.31*	
		For >500 To 1,000, Deduct	*-18.46*	
		For >1,000, Deduct	*-24.61*	
		For 304 Stainless Steel, Add	*211.73*	
		For 316 Stainless Steel, Add	*237.73*	
		For Aluminum, Add	*13.37*	
		For Galvanized Steel, Add	*46.06*	
05 12 23 00-0614	LF	MC18 x 42.7 - 18" Wide Channel	136.82	55.03
		For >100 To 250, Deduct	*-7.09*	
		For >250 To 500, Deduct	*-10.51*	
		For >500 To 1,000, Deduct	*-15.77*	
		For >1,000, Deduct	*-21.02*	
		For 304 Stainless Steel, Add	*180.80*	
		For 316 Stainless Steel, Add	*203.01*	
		For Aluminum, Add	*11.42*	
		For Galvanized Steel, Add	*39.33*	
05 12 23 00-0615	LF	MC18 x 45.8 - 18" Wide Channel	146.75	59.04
		For >100 To 250, Deduct	*-7.60*	
		For >250 To 500, Deduct	*-11.27*	
		For >500 To 1,000, Deduct	*-16.91*	
		For >1,000, Deduct	*-22.55*	
		For 304 Stainless Steel, Add	*193.94*	
		For 316 Stainless Steel, Add	*217.76*	
		For Aluminum, Add	*12.25*	
		For Galvanized Steel, Add	*42.19*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0616	LF	MC18 x 51.9 - 18" Wide Channel	166.30	66.89
		For >100 To 250, Deduct	*-8.62*	
		For >250 To 500, Deduct	*-12.77*	
		For >500 To 1,000, Deduct	*-19.16*	
		For >1,000, Deduct	*-25.55*	
		For 304 Stainless Steel, Add	*219.76*	
		For 316 Stainless Steel, Add	*246.75*	
		For Aluminum, Add	*13.88*	
		For Galvanized Steel, Add	*47.81*	
05 12 23 00-0617	LF	MC18 x 58 - 18" Wide Channel	185.85	74.74
		For >100 To 250, Deduct	*-9.63*	
		For >250 To 500, Deduct	*-14.28*	
		For >500 To 1,000, Deduct	*-21.41*	
		For >1,000, Deduct	*-28.55*	
		For 304 Stainless Steel, Add	*245.61*	
		For 316 Stainless Steel, Add	*275.78*	
		For Aluminum, Add	*15.51*	
		For Galvanized Steel, Add	*53.43*	

05 12 23 00-0618 Structural Bar Tees *(05 12 23 00-0422)*

05 12 23 00-0619	LF	3/4" x 3/4" x 1/8" Structural Bar Tee	5.77	3.43
		For >100 To 250, Deduct	*-0.37*	
		For >250 To 500, Deduct	*-0.52*	
		For >500 To 1,000, Deduct	*-0.78*	
		For >1,000, Deduct	*-1.03*	
		For 304 Stainless Steel, Add	*3.42*	
		For 316 Stainless Steel, Add	*3.84*	
		For Aluminum, Add	*0.22*	
		For Galvanized Steel, Add	*0.74*	
05 12 23 00-0620	LF	1" x 1" x 1/8" Structural Bar Tee	7.04	4.04
		For >100 To 250, Deduct	*-0.45*	
		For >250 To 500, Deduct	*-0.62*	
		For >500 To 1,000, Deduct	*-0.93*	
		For >1,000, Deduct	*-1.24*	
		For 304 Stainless Steel, Add	*4.70*	
		For 316 Stainless Steel, Add	*5.28*	
		For Aluminum, Add	*0.30*	
		For Galvanized Steel, Add	*1.02*	
05 12 23 00-0621	LF	1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	10.93	4.67
		For >100 To 250, Deduct	*-0.58*	
		For >250 To 500, Deduct	*-0.86*	
		For >500 To 1,000, Deduct	*-1.29*	
		For >1,000, Deduct	*-1.72*	
		For 304 Stainless Steel, Add	*13.42*	
		For 316 Stainless Steel, Add	*15.07*	
		For Aluminum, Add	*0.85*	
		For Galvanized Steel, Add	*2.92*	
05 12 23 00-0622	LF	2" x 2" x 1/4" Structural Bar Tee	15.16	6.11
		For >100 To 250, Deduct	*-0.79*	
		For >250 To 500, Deduct	*-1.17*	
		For >500 To 1,000, Deduct	*-1.75*	
		For >1,000, Deduct	*-2.33*	
		For 304 Stainless Steel, Add	*20.01*	
		For 316 Stainless Steel, Add	*22.46*	
		For Aluminum, Add	*1.26*	
		For Galvanized Steel, Add	*4.35*	
05 12 23 00-0623	LF	2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	22.43	7.37
		For >100 To 250, Deduct	*-1.05*	
		For >250 To 500, Deduct	*-1.61*	
		For >500 To 1,000, Deduct	*-2.42*	
		For >1,000, Deduct	*-3.23*	
		For 304 Stainless Steel, Add	*35.91*	
		For 316 Stainless Steel, Add	*40.32*	
		For Aluminum, Add	*2.27*	
		For Galvanized Steel, Add	*7.81*	
05 12 23 00-0624	LF	3" x 3" x 3/8" Structural Bar Tee	27.69	9.43
		For >100 To 250, Deduct	*-1.32*	
		For >250 To 500, Deduct	*-2.01*	
		For >500 To 1,000, Deduct	*-3.02*	
		For >1,000, Deduct	*-4.03*	
		For 304 Stainless Steel, Add	*43.09*	
		For 316 Stainless Steel, Add	*48.38*	
		For Aluminum, Add	*2.72*	
		For Galvanized Steel, Add	*9.37*	

05 12 23 00-0625 Structural Zees *(05 12 23 00-0422)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0626	LF	1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee	13.24	4.67
		For >100 To 250, Deduct	*-0.64*	
		For >250 To 500, Deduct	*-0.97*	
		For >500 To 1,000, Deduct	*-1.46*	
		For >1,000, Deduct	*-1.95*	
		For 304 Stainless Steel, Add	*20.01*	
		For 316 Stainless Steel, Add	*22.46*	
		For Aluminum, Add	*1.26*	
		For Galvanized Steel, Add	*4.35*	
05 12 23 00-0627	LF	2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee	24.23	5.57
		For >100 To 250, Deduct	*-0.98*	
		For >250 To 500, Deduct	*-1.58*	
		For >500 To 1,000, Deduct	*-2.37*	
		For >1,000, Deduct	*-3.17*	
		For 304 Stainless Steel, Add	*47.91*	
		For 316 Stainless Steel, Add	*53.79*	
		For Aluminum, Add	*3.03*	
		For Galvanized Steel, Add	*10.42*	
05 12 23 00-0628	LF	3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee	28.96	6.29
		For >100 To 250, Deduct	*-1.14*	
		For >250 To 500, Deduct	*-1.87*	
		For >500 To 1,000, Deduct	*-2.80*	
		For >1,000, Deduct	*-3.74*	
		For 304 Stainless Steel, Add	*58.62*	
		For 316 Stainless Steel, Add	*65.82*	
		For Aluminum, Add	*3.70*	
		For Galvanized Steel, Add	*12.75*	
05 12 23 00-0629	LF	3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee	38.68	7.19
		For >100 To 250, Deduct	*-1.45*	
		For >250 To 500, Deduct	*-2.41*	
		For >500 To 1,000, Deduct	*-3.62*	
		For >1,000, Deduct	*-4.83*	
		For 304 Stainless Steel, Add	*82.94*	
		For 316 Stainless Steel, Add	*93.12*	
		For Aluminum, Add	*5.24*	
		For Galvanized Steel, Add	*18.04*	
05 12 23 00-0630	LF	3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee	49.80	7.81
		For >100 To 250, Deduct	*-1.77*	
		For >250 To 500, Deduct	*-3.01*	
		For >500 To 1,000, Deduct	*-4.52*	
		For >1,000, Deduct	*-6.02*	
		For 304 Stainless Steel, Add	*112.23*	
		For 316 Stainless Steel, Add	*126.02*	
		For Aluminum, Add	*7.09*	
		For Galvanized Steel, Add	*24.42*	

05 12 23 00-0631 Junior I-Beams *(05 12 23 00-0422)*

05 12 23 00-0632	LF	3" Junior I-Beam, 2.9 Lb./LF	18.24	6.74
		For >100 To 250, Deduct	*-0.91*	
		For >250 To 500, Deduct	*-1.36*	
		For >500 To 1,000, Deduct	*-2.04*	
		For >1,000, Deduct	*-2.72*	
		For 304 Stainless Steel, Add	*26.39*	
		For 316 Stainless Steel, Add	*29.63*	
		For Aluminum, Add	*1.67*	
		For Galvanized Steel, Add	*5.74*	
05 12 23 00-0633	LF	4" Junior I-Beam, 3.2 Lb./LF	20.05	7.37
		For >100 To 250, Deduct	*-0.99*	
		For >250 To 500, Deduct	*-1.49*	
		For >500 To 1,000, Deduct	*-2.24*	
		For >1,000, Deduct	*-2.99*	
		For 304 Stainless Steel, Add	*29.13*	
		For 316 Stainless Steel, Add	*32.70*	
		For Aluminum, Add	*1.84*	
		For Galvanized Steel, Add	*6.34*	
05 12 23 00-0634	LF	5" Junior I-Beam, 3.8 Lb./LF	22.90	8.08
		For >100 To 250, Deduct	*-1.11*	
		For >250 To 500, Deduct	*-1.68*	
		For >500 To 1,000, Deduct	*-2.53*	
		For >1,000, Deduct	*-3.37*	
		For 304 Stainless Steel, Add	*34.57*	
		For 316 Stainless Steel, Add	*38.82*	
		For Aluminum, Add	*2.18*	
		For Galvanized Steel, Add	*7.52*	
05 12 23 00-0635	LF	6" Junior I-Beam, 4.4 Lb./LF	25.79	8.80
		For >100 To 250, Deduct	*-1.23*	
		For >250 To 500, Deduct	*-1.88*	
		For >500 To 1,000, Deduct	*-2.81*	
		For >1,000, Deduct	*-3.75*	
		For 304 Stainless Steel, Add	*40.04*	
		For 316 Stainless Steel, Add	*44.96*	
		For Aluminum, Add	*2.53*	
		For Galvanized Steel, Add	*8.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0636	LF	7" Junior I-Beam, 5.5 Lb./LF	30.13	9.43
		For >100 To 250, Deduct	*-1.38*	
		For >250 To 500, Deduct	*-2.14*	
		For >500 To 1,000, Deduct	*-3.20*	
		For >1,000, Deduct	*-4.27*	
		For 304 Stainless Steel, Add	*50.05*	
		For 316 Stainless Steel, Add	*56.19*	
		For Aluminum, Add	*3.16*	
		For Galvanized Steel, Add	*10.89*	
05 12 23 00-0637	LF	8" Junior I-Beam, 6.5 Lb./LF	34.16	10.06
		For >100 To 250, Deduct	*-1.52*	
		For >250 To 500, Deduct	*-2.38*	
		For >500 To 1,000, Deduct	*-3.57*	
		For >1,000, Deduct	*-4.76*	
		For 304 Stainless Steel, Add	*59.14*	
		For 316 Stainless Steel, Add	*66.40*	
		For Aluminum, Add	*3.74*	
		For Galvanized Steel, Add	*12.87*	
05 12 23 00-0638	LF	10" Junior I-Beam, 9 Lb./LF	44.06	11.50
		For >100 To 250, Deduct	*-1.87*	
		For >250 To 500, Deduct	*-2.97*	
		For >500 To 1,000, Deduct	*-4.45*	
		For >1,000, Deduct	*-5.94*	
		For 304 Stainless Steel, Add	*81.88*	
		For 316 Stainless Steel, Add	*91.94*	
		For Aluminum, Add	*5.17*	
		For Galvanized Steel, Add	*17.81*	
05 12 23 00-0639	LF	12" Junior I-Beam, 11.8 Lb./LF	55.87	13.65
		For >100 To 250, Deduct	*-2.31*	
		For >250 To 500, Deduct	*-3.70*	
		For >500 To 1,000, Deduct	*-5.56*	
		For >1,000, Deduct	*-7.41*	
		For 304 Stainless Steel, Add	*107.36*	
		For 316 Stainless Steel, Add	*120.54*	
		For Aluminum, Add	*6.78*	
		For Galvanized Steel, Add	*23.36*	

05 12 23 00-0640 Round Stock *(05 12 23 00-0422)*

05 12 23 00-0641	LF	1/4" Carbon Steel Rounds, ASTM A108	2.60	
		For 304 Stainless Steel, Add	*3.99*	
		For 316 Stainless Steel, Add	*4.48*	
		For Aluminum, Add	*0.25*	
		For Galvanized Steel, Add	*0.87*	
05 12 23 00-0642	LF	3/8" Carbon Steel Rounds, ASTM A108	4.11	
		For 304 Stainless Steel, Add	*7.84*	
		For 316 Stainless Steel, Add	*8.80*	
		For Aluminum, Add	*0.50*	
		For Galvanized Steel, Add	*1.71*	
05 12 23 00-0643	LF	1/2" Carbon Steel Rounds, ASTM A108	5.69	
		For 304 Stainless Steel, Add	*11.94*	
		For 316 Stainless Steel, Add	*13.41*	
		For Aluminum, Add	*0.75*	
		For Galvanized Steel, Add	*2.60*	
05 12 23 00-0644	LF	5/8" Carbon Steel Rounds, ASTM A108	8.64	
		For 304 Stainless Steel, Add	*19.89*	
		For 316 Stainless Steel, Add	*22.34*	
		For Aluminum, Add	*1.26*	
		For Galvanized Steel, Add	*4.33*	
05 12 23 00-0645	LF	3/4" Carbon Steel Rounds, ASTM A108	10.28	
		For 304 Stainless Steel, Add	*23.63*	
		For 316 Stainless Steel, Add	*26.53*	
		For Aluminum, Add	*1.49*	
		For Galvanized Steel, Add	*5.14*	
05 12 23 00-0646	LF	7/8" Carbon Steel Rounds, ASTM A108	12.00	
		For 304 Stainless Steel, Add	*27.62*	
		For 316 Stainless Steel, Add	*31.01*	
		For Aluminum, Add	*1.74*	
		For Galvanized Steel, Add	*6.01*	
05 12 23 00-0647	LF	1" Carbon Steel Rounds, ASTM A108	17.48	
		For 304 Stainless Steel, Add	*42.07*	
		For 316 Stainless Steel, Add	*47.23*	
		For Aluminum, Add	*2.66*	
		For Galvanized Steel, Add	*9.15*	
05 12 23 00-0648	LF	1-1/8" Carbon Steel Rounds, ASTM A108	21.25	
		For 304 Stainless Steel, Add	*51.10*	
		For 316 Stainless Steel, Add	*57.38*	
		For Aluminum, Add	*3.23*	
		For Galvanized Steel, Add	*11.12*	
05 12 23 00-0649	LF	1-1/4" Carbon Steel Rounds, ASTM A108	25.39	
		For 304 Stainless Steel, Add	*60.16*	
		For 316 Stainless Steel, Add	*67.55*	
		For Aluminum, Add	*3.80*	
		For Galvanized Steel, Add	*13.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0650	LF	1-3/8" Carbon Steel Rounds, ASTM A108	30.75	
		For 304 Stainless Steel, Add	*73.42*	
		For 316 Stainless Steel, Add	*82.43*	
		For Aluminum, Add	*4.64*	
		For Galvanized Steel, Add	*15.97*	
05 12 23 00-0651	LF	1-1/2" Carbon Steel Rounds, ASTM A108	34.25	
		For 304 Stainless Steel, Add	*80.54*	
		For 316 Stainless Steel, Add	*90.43*	
		For Aluminum, Add	*5.09*	
		For Galvanized Steel, Add	*17.52*	
05 12 23 00-0652	LF	1-5/8" Carbon Steel Rounds, ASTM A108	39.51	
		For 304 Stainless Steel, Add	*91.26*	
		For 316 Stainless Steel, Add	*102.46*	
		For Aluminum, Add	*5.76*	
		For Galvanized Steel, Add	*19.85*	
05 12 23 00-0653	LF	1-3/4" Carbon Steel Rounds, ASTM A108	47.24	
		For 304 Stainless Steel, Add	*106.19*	
		For 316 Stainless Steel, Add	*119.23*	
		For Aluminum, Add	*6.71*	
		For Galvanized Steel, Add	*23.10*	
05 12 23 00-0654	LF	1-7/8" Carbon Steel Rounds, ASTM A108	56.83	
		For 304 Stainless Steel, Add	*124.40*	
		For 316 Stainless Steel, Add	*139.68*	
		For Aluminum, Add	*7.86*	
		For Galvanized Steel, Add	*27.06*	
05 12 23 00-0655	LF	2" Carbon Steel Rounds, ASTM A108	64.88	
		For 304 Stainless Steel, Add	*138.40*	
		For 316 Stainless Steel, Add	*155.39*	
		For Aluminum, Add	*8.74*	
		For Galvanized Steel, Add	*30.11*	
05 12 23 00-0656	LF	2-1/8" Carbon Steel Rounds, ASTM A108	75.72	
		For 304 Stainless Steel, Add	*158.03*	
		For 316 Stainless Steel, Add	*177.44*	
		For Aluminum, Add	*9.98*	
		For Galvanized Steel, Add	*34.38*	
05 12 23 00-0657	LF	2-1/4" Carbon Steel Rounds, ASTM A108	85.65	
		For 304 Stainless Steel, Add	*177.70*	
		For 316 Stainless Steel, Add	*199.52*	
		For Aluminum, Add	*11.22*	
		For Galvanized Steel, Add	*38.66*	
05 12 23 00-0658	LF	2-3/8" Carbon Steel Rounds, ASTM A108	98.11	
		For 304 Stainless Steel, Add	*203.23*	
		For 316 Stainless Steel, Add	*228.19*	
		For Aluminum, Add	*12.84*	
		For Galvanized Steel, Add	*44.21*	
05 12 23 00-0659	LF	2-1/2" Carbon Steel Rounds, ASTM A108	108.32	
		For 304 Stainless Steel, Add	*219.05*	
		For 316 Stainless Steel, Add	*245.95*	
		For Aluminum, Add	*13.83*	
		For Galvanized Steel, Add	*47.65*	
05 12 23 00-0660	LF	2-5/8" Carbon Steel Rounds, ASTM A108	132.58	
		For 304 Stainless Steel, Add	*278.22*	
		For 316 Stainless Steel, Add	*312.38*	
		For Aluminum, Add	*17.57*	
		For Galvanized Steel, Add	*60.52*	
05 12 23 00-0661	LF	2-3/4" Carbon Steel Rounds, ASTM A108	150.95	
		For 304 Stainless Steel, Add	*317.29*	
		For 316 Stainless Steel, Add	*356.26*	
		For Aluminum, Add	*20.04*	
		For Galvanized Steel, Add	*69.02*	
05 12 23 00-0662	LF	2-7/8 Carbon Steel Rounds, ASTM A108	168.35	
		For 304 Stainless Steel, Add	*353.57*	
		For 316 Stainless Steel, Add	*396.99*	
		For Aluminum, Add	*22.33*	
		For Galvanized Steel, Add	*76.92*	
05 12 23 00-0663	LF	3" Carbon Steel Rounds, ASTM A108	176.73	
		For 304 Stainless Steel, Add	*364.17*	
		For 316 Stainless Steel, Add	*408.90*	
		For Aluminum, Add	*23.00*	
		For Galvanized Steel, Add	*79.22*	
05 12 23 00-0664	LF	3-1/8" Carbon Steel Rounds, ASTM A108	184.23	
		For 304 Stainless Steel, Add	*372.27*	
		For 316 Stainless Steel, Add	*417.98*	
		For Aluminum, Add	*23.51*	
		For Galvanized Steel, Add	*80.98*	
05 12 23 00-0665	LF	3-1/4" Carbon Steel Rounds, ASTM A108	194.23	
		For 304 Stainless Steel, Add	*387.46*	
		For 316 Stainless Steel, Add	*435.04*	
		For Aluminum, Add	*24.47*	
		For Galvanized Steel, Add	*84.29*	
05 12 23 00-0666	LF	3-1/2" Carbon Steel Rounds, ASTM A108	236.59	
		For 304 Stainless Steel, Add	*491.60*	
		For 316 Stainless Steel, Add	*551.97*	
		For Aluminum, Add	*31.05*	
		For Galvanized Steel, Add	*106.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0667	LF	3-5/8" Carbon Steel Rounds, ASTM A108	262.89	
		For 304 Stainless Steel, Add	*549.94*	
		For 316 Stainless Steel, Add	*617.47*	
		For Aluminum, Add	*34.73*	
		For Galvanized Steel, Add	*119.64*	
05 12 23 00-0668	LF	3-3/4" Carbon Steel Rounds, ASTM A108	282.16	
		For 304 Stainless Steel, Add	*588.27*	
		For 316 Stainless Steel, Add	*660.51*	
		For Aluminum, Add	*37.15*	
		For Galvanized Steel, Add	*127.97*	
05 12 23 00-0669	LF	4" Carbon Steel Rounds, ASTM A108	316.59	
		For 304 Stainless Steel, Add	*669.78*	
		For 316 Stainless Steel, Add	*752.03*	
		For Aluminum, Add	*42.30*	
		For Galvanized Steel, Add	*145.71*	

05 12 23 00-0670 Square Stock *(05 12 23 00-0422)*

05 12 23 00-0671	LF	3/8" Square Bar Stock	2.07	
		For 304 Stainless Steel, Add	*2.02*	
		For 316 Stainless Steel, Add	*2.27*	
		For Aluminum, Add	*0.13*	
		For Galvanized Steel, Add	*0.44*	
05 12 23 00-0672	LF	1/2" Square Bar Stock	2.75	
		For 304 Stainless Steel, Add	*3.56*	
		For 316 Stainless Steel, Add	*4.00*	
		For Aluminum, Add	*0.23*	
		For Galvanized Steel, Add	*0.78*	
05 12 23 00-0673	LF	5/8" Square Bar Stock	3.62	
		For 304 Stainless Steel, Add	*5.59*	
		For 316 Stainless Steel, Add	*6.27*	
		For Aluminum, Add	*0.35*	
		For Galvanized Steel, Add	*1.22*	
05 12 23 00-0674	LF	3/4" Square Bar Stock	4.82	
		For 304 Stainless Steel, Add	*8.07*	
		For 316 Stainless Steel, Add	*9.06*	
		For Aluminum, Add	*0.51*	
		For Galvanized Steel, Add	*1.75*	
05 12 23 00-0675	LF	7/8" Square Bar Stock	6.26	
		For 304 Stainless Steel, Add	*11.26*	
		For 316 Stainless Steel, Add	*12.64*	
		For Aluminum, Add	*0.71*	
		For Galvanized Steel, Add	*2.45*	
05 12 23 00-0676	LF	1" Square Bar Stock	7.76	
		For 304 Stainless Steel, Add	*14.36*	
		For 316 Stainless Steel, Add	*16.13*	
		For Aluminum, Add	*0.91*	
		For Galvanized Steel, Add	*3.12*	
05 12 23 00-0677	LF	1-1/4" Square Bar Stock	12.15	
		For 304 Stainless Steel, Add	*22.43*	
		For 316 Stainless Steel, Add	*25.18*	
		For Aluminum, Add	*1.42*	
		For Galvanized Steel, Add	*4.88*	
05 12 23 00-0678	LF	1-1/2" Square Bar Stock	17.32	
		For 304 Stainless Steel, Add	*32.29*	
		For 316 Stainless Steel, Add	*36.26*	
		For Aluminum, Add	*2.04*	
		For Galvanized Steel, Add	*7.02*	
05 12 23 00-0679	LF	1-3/4" Square Bar Stock	25.74	
		For 304 Stainless Steel, Add	*44.92*	
		For 316 Stainless Steel, Add	*50.43*	
		For Aluminum, Add	*2.84*	
		For Galvanized Steel, Add	*9.77*	
05 12 23 00-0680	LF	2" Square Bar Stock	36.92	
		For 304 Stainless Steel, Add	*57.46*	
		For 316 Stainless Steel, Add	*64.51*	
		For Aluminum, Add	*3.63*	
		For Galvanized Steel, Add	*12.50*	

05 12 23 00-0681 Steel Tubing *(05 12 23 00-0422)*

Note: General purpose low-carbon steel.

05 12 23 00-0682 Square Steel Tubing *(05 12 23 00-0681)*

05 12 23 00-0683 0.06" Wall Thickness *(05 12 23 00-0682)*

05 12 23 00-0684	LF	1/2" x 1/2" x 0.06" Square Steel Tubing	2.71	0.64
		For >100 To 250, Deduct	*-0.11*	
		For >250 To 500, Deduct	*-0.18*	
		For >500 To 1,000, Deduct	*-0.27*	
		For >1,000, Deduct	*-0.36*	
		For 304 Stainless Steel, Add	*5.27*	
		For 316 Stainless Steel, Add	*5.92*	
		For Aluminum, Add	*0.33*	
		For Galvanized Steel, Add	*1.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0685	LF	3/4" x 3/4" x 0.06" Square Steel Tubing	4.17	1.02
		For >100 To 250, Deduct	*-0.17*	
		For >250 To 500, Deduct	*-0.28*	
		For >500 To 1,000, Deduct	*-0.41*	
		For >1,000, Deduct	*-0.55*	
		For 304 Stainless Steel, Add	*8.04*	
		For 316 Stainless Steel, Add	*9.02*	
		For Aluminum, Add	*0.51*	
		For Galvanized Steel, Add	*1.75*	
05 12 23 00-0686	LF	1" x 1" x 0.06" Square Steel Tubing	5.61	1.84
		For >100 To 250, Deduct	*-0.23*	
		For >250 To 500, Deduct	*-0.37*	
		For >500 To 1,000, Deduct	*-0.56*	
		For >1,000, Deduct	*-0.75*	
		For 304 Stainless Steel, Add	*10.74*	
		For 316 Stainless Steel, Add	*12.06*	
		For Aluminum, Add	*0.68*	
		For Galvanized Steel, Add	*2.34*	
05 12 23 00-0687	LF	1-1/4" x 1-1/4" x 0.06" Square Steel Tubing	7.41	1.74
		For >100 To 250, Deduct	*-0.30*	
		For >250 To 500, Deduct	*-0.49*	
		For >500 To 1,000, Deduct	*-0.73*	
		For >1,000, Deduct	*-0.97*	
		For 304 Stainless Steel, Add	*14.48*	
		For 316 Stainless Steel, Add	*16.26*	
		For Aluminum, Add	*0.91*	
		For Galvanized Steel, Add	*3.15*	
05 12 23 00-0688	LF	1-1/2" x 1-1/2" x 0.06" Square Steel Tubing	8.79	2.11
		For >100 To 250, Deduct	*-0.36*	
		For >250 To 500, Deduct	*-0.58*	
		For >500 To 1,000, Deduct	*-0.87*	
		For >1,000, Deduct	*-1.16*	
		For 304 Stainless Steel, Add	*17.01*	
		For 316 Stainless Steel, Add	*19.10*	
		For Aluminum, Add	*1.07*	
		For Galvanized Steel, Add	*3.70*	

05 12 23 00-0689 0.083" Wall Thickness *(05 12 23 00-0682)*

05 12 23 00-0690	LF	3/4" x 3/4" x 0.083" Square Steel Tubing	4.85	1.19
		For >100 To 250, Deduct	*-0.20*	
		For >250 To 500, Deduct	*-0.32*	
		For >500 To 1,000, Deduct	*-0.48*	
		For >1,000, Deduct	*-0.64*	
		For 304 Stainless Steel, Add	*9.32*	
		For 316 Stainless Steel, Add	*10.46*	
		For Aluminum, Add	*0.59*	
		For Galvanized Steel, Add	*2.03*	
05 12 23 00-0691	LF	1" x 1" x 0.083" Square Steel Tubing	7.07	1.63
		For >100 To 250, Deduct	*-0.29*	
		For >250 To 500, Deduct	*-0.46*	
		For >500 To 1,000, Deduct	*-0.69*	
		For >1,000, Deduct	*-0.92*	
		For 304 Stainless Steel, Add	*13.97*	
		For 316 Stainless Steel, Add	*15.68*	
		For Aluminum, Add	*0.88*	
		For Galvanized Steel, Add	*3.04*	
05 12 23 00-0692	LF	1-1/4" x 1-1/4" x 0.083" Square Steel Tubing	8.54	2.07
		For >100 To 250, Deduct	*-0.35*	
		For >250 To 500, Deduct	*-0.57*	
		For >500 To 1,000, Deduct	*-0.85*	
		For >1,000, Deduct	*-1.13*	
		For 304 Stainless Steel, Add	*16.47*	
		For 316 Stainless Steel, Add	*18.50*	
		For Aluminum, Add	*1.04*	
		For Galvanized Steel, Add	*3.58*	
05 12 23 00-0693	LF	1-1/2" x 1-1/2" x 0.083" Square Steel Tubing	10.32	2.52
		For >100 To 250, Deduct	*-0.43*	
		For >250 To 500, Deduct	*-0.68*	
		For >500 To 1,000, Deduct	*-1.03*	
		For >1,000, Deduct	*-1.37*	
		For 304 Stainless Steel, Add	*19.86*	
		For 316 Stainless Steel, Add	*22.30*	
		For Aluminum, Add	*1.25*	
		For Galvanized Steel, Add	*4.32*	
05 12 23 00-0694	LF	2" x 2" x 0.083" Square Steel Tubing	13.25	3.35
		For >100 To 250, Deduct	*-0.55*	
		For >250 To 500, Deduct	*-0.89*	
		For >500 To 1,000, Deduct	*-1.33*	
		For >1,000, Deduct	*-1.77*	
		For 304 Stainless Steel, Add	*25.02*	
		For 316 Stainless Steel, Add	*28.10*	
		For Aluminum, Add	*1.58*	
		For Galvanized Steel, Add	*5.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0695		**0.12" Wall Thickness** *(05 12 23 00-0682)*		
05 12 23 00-0696	LF	1" x 1" x 0.12" Square Steel Tubing	7.81	1.93
		For >100 To 250, Deduct	*-0.32*	
		For >250 To 500, Deduct	*-0.52*	
		For >500 To 1,000, Deduct	*-0.78*	
		For >1,000, Deduct	*-1.04*	
		For 304 Stainless Steel, Add	*14.88*	
		For 316 Stainless Steel, Add	*16.70*	
		For Aluminum, Add	*0.94*	
		For Galvanized Steel, Add	*3.24*	
05 12 23 00-0697	LF	1-1/4" x 1-1/4" x 0.12" Square Steel Tubing	10.04	2.49
		For >100 To 250, Deduct	*-0.42*	
		For >250 To 500, Deduct	*-0.67*	
		For >500 To 1,000, Deduct	*-1.00*	
		For >1,000, Deduct	*-1.34*	
		For 304 Stainless Steel, Add	*19.18*	
		For 316 Stainless Steel, Add	*21.54*	
		For Aluminum, Add	*1.21*	
		For Galvanized Steel, Add	*4.17*	
05 12 23 00-0698	LF	1-1/2" x 1-1/2" x 0.12" Square Steel Tubing	12.33	3.04
		For >100 To 250, Deduct	*-0.51*	
		For >250 To 500, Deduct	*-0.82*	
		For >500 To 1,000, Deduct	*-1.23*	
		For >1,000, Deduct	*-1.64*	
		For 304 Stainless Steel, Add	*23.60*	
		For 316 Stainless Steel, Add	*26.50*	
		For Aluminum, Add	*1.49*	
		For Galvanized Steel, Add	*5.13*	
05 12 23 00-0699	LF	2" x 2" x 0.12" Square Steel Tubing	16.70	4.14
		For >100 To 250, Deduct	*-0.69*	
		For >250 To 500, Deduct	*-1.11*	
		For >500 To 1,000, Deduct	*-1.67*	
		For >1,000, Deduct	*-2.22*	
		For 304 Stainless Steel, Add	*31.86*	
		For 316 Stainless Steel, Add	*35.78*	
		For Aluminum, Add	*2.01*	
		For Galvanized Steel, Add	*6.93*	
05 12 23 00-0700		**1/8" Wall Thickness** *(05 12 23 00-0682)*		
05 12 23 00-0701	LF	2" x 2" x 1/8" Square Steel Tubing	15.05	4.30
		For >100 To 250, Deduct	*-0.66*	
		For >250 To 500, Deduct	*-1.04*	
		For >500 To 1,000, Deduct	*-1.56*	
		For >1,000, Deduct	*-2.08*	
		For 304 Stainless Steel, Add	*26.56*	
		For 316 Stainless Steel, Add	*29.82*	
		For Aluminum, Add	*1.68*	
		For Galvanized Steel, Add	*5.78*	
05 12 23 00-0702	LF	2-1/2" x 2-1/2" x 1/8" Square Steel Tubing	19.85	5.45
		For >100 To 250, Deduct	*-0.86*	
		For >250 To 500, Deduct	*-1.36*	
		For >500 To 1,000, Deduct	*-2.03*	
		For >1,000, Deduct	*-2.71*	
		For 304 Stainless Steel, Add	*35.88*	
		For 316 Stainless Steel, Add	*40.29*	
		For Aluminum, Add	*2.27*	
		For Galvanized Steel, Add	*7.81*	
05 12 23 00-0703	LF	3" x 3" x 1/8" Square Steel Tubing	23.26	6.59
		For >100 To 250, Deduct	*-1.02*	
		For >250 To 500, Deduct	*-1.60*	
		For >500 To 1,000, Deduct	*-2.40*	
		For >1,000, Deduct	*-3.21*	
		For 304 Stainless Steel, Add	*41.24*	
		For 316 Stainless Steel, Add	*46.30*	
		For Aluminum, Add	*2.60*	
		For Galvanized Steel, Add	*8.97*	
05 12 23 00-0704	LF	3-1/2" x 3-1/2" x 1/8" Square Steel Tubing	26.96	7.74
		For >100 To 250, Deduct	*-1.19*	
		For >250 To 500, Deduct	*-1.86*	
		For >500 To 1,000, Deduct	*-2.80*	
		For >1,000, Deduct	*-3.73*	
		For 304 Stainless Steel, Add	*47.42*	
		For 316 Stainless Steel, Add	*53.25*	
		For Aluminum, Add	*3.00*	
		For Galvanized Steel, Add	*10.32*	
05 12 23 00-0705	LF	4" x 4" x 1/8" Square Steel Tubing	29.72	8.88
		For >100 To 250, Deduct	*-1.34*	
		For >250 To 500, Deduct	*-2.08*	
		For >500 To 1,000, Deduct	*-3.12*	
		For >1,000, Deduct	*-4.16*	
		For 304 Stainless Steel, Add	*50.93*	
		For 316 Stainless Steel, Add	*57.18*	
		For Aluminum, Add	*3.22*	
		For Galvanized Steel, Add	*11.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0706		3/16" Wall Thickness *(05 12 23 00-0682)*		
05 12 23 00-0707	LF	2" x 2" x 3/16" Square Steel Tubing	17.06	4.85
		For >100 To 250, Deduct	*-0.75*	
		For >250 To 500, Deduct	*-1.18*	
		For >500 To 1,000, Deduct	*-1.76*	
		For >1,000, Deduct	*-2.35*	
		For 304 Stainless Steel, Add	*30.21*	
		For 316 Stainless Steel, Add	*33.92*	
		For Aluminum, Add	*1.91*	
		For Galvanized Steel, Add	*6.57*	
05 12 23 00-0708	LF	2-1/2" x 2-1/2" x 3/16" Square Steel Tubing	22.09	6.27
		For >100 To 250, Deduct	*-0.97*	
		For >250 To 500, Deduct	*-1.52*	
		For >500 To 1,000, Deduct	*-2.28*	
		For >1,000, Deduct	*-3.05*	
		For 304 Stainless Steel, Add	*39.10*	
		For 316 Stainless Steel, Add	*43.90*	
		For Aluminum, Add	*2.47*	
		For Galvanized Steel, Add	*8.51*	
05 12 23 00-0709	LF	3" x 3" x 3/16" Square Steel Tubing	27.15	7.71
		For >100 To 250, Deduct	*-1.19*	
		For >250 To 500, Deduct	*-1.87*	
		For >500 To 1,000, Deduct	*-2.81*	
		For >1,000, Deduct	*-3.74*	
		For 304 Stainless Steel, Add	*48.05*	
		For 316 Stainless Steel, Add	*53.95*	
		For Aluminum, Add	*3.03*	
		For Galvanized Steel, Add	*10.45*	
05 12 23 00-0710	LF	3-1/2" x 3-1/2" x 3/16" Square Steel Tubing	32.21	9.15
		For >100 To 250, Deduct	*-1.42*	
		For >250 To 500, Deduct	*-2.22*	
		For >500 To 1,000, Deduct	*-3.33*	
		For >1,000, Deduct	*-4.44*	
		For 304 Stainless Steel, Add	*57.03*	
		For 316 Stainless Steel, Add	*64.03*	
		For Aluminum, Add	*3.60*	
		For Galvanized Steel, Add	*12.41*	
05 12 23 00-0711	LF	4" x 4" x 3/16" Square Steel Tubing	37.22	10.58
		For >100 To 250, Deduct	*-1.64*	
		For >250 To 500, Deduct	*-2.57*	
		For >500 To 1,000, Deduct	*-3.85*	
		For >1,000, Deduct	*-5.13*	
		For 304 Stainless Steel, Add	*65.89*	
		For 316 Stainless Steel, Add	*73.98*	
		For Aluminum, Add	*4.16*	
		For Galvanized Steel, Add	*14.33*	
05 12 23 00-0712	LF	4-1/2" x 4-1/2" x 3/16" Square Steel Tubing	42.29	12.01
		For >100 To 250, Deduct	*-1.86*	
		For >250 To 500, Deduct	*-2.92*	
		For >500 To 1,000, Deduct	*-4.37*	
		For >1,000, Deduct	*-5.83*	
		For 304 Stainless Steel, Add	*74.87*	
		For 316 Stainless Steel, Add	*84.06*	
		For Aluminum, Add	*4.73*	
		For Galvanized Steel, Add	*16.29*	
05 12 23 00-0713	LF	5" x 5" x 3/16" Square Steel Tubing	47.30	13.44
		For >100 To 250, Deduct	*-2.08*	
		For >250 To 500, Deduct	*-3.26*	
		For >500 To 1,000, Deduct	*-4.89*	
		For >1,000, Deduct	*-6.52*	
		For 304 Stainless Steel, Add	*83.73*	
		For 316 Stainless Steel, Add	*94.02*	
		For Aluminum, Add	*5.29*	
		For Galvanized Steel, Add	*18.22*	
05 12 23 00-0714	LF	6" x 6" x 3/16" Square Steel Tubing	57.43	16.31
		For >100 To 250, Deduct	*-2.52*	
		For >250 To 500, Deduct	*-3.96*	
		For >500 To 1,000, Deduct	*-5.94*	
		For >1,000, Deduct	*-7.92*	
		For 304 Stainless Steel, Add	*101.66*	
		For 316 Stainless Steel, Add	*114.14*	
		For Aluminum, Add	*6.42*	
		For Galvanized Steel, Add	*22.12*	
05 12 23 00-0715		1/4" Wall Thickness *(05 12 23 00-0682)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0716	LF	2" x 2" x 1/4" Square Steel Tubing	18.20	4.86
		For >100 To 250, Deduct	*-0.78*	
		For >250 To 500, Deduct	*-1.23*	
		For >500 To 1,000, Deduct	*-1.85*	
		For >1,000, Deduct	*-2.47*	
		For 304 Stainless Steel, Add	*33.40*	
		For 316 Stainless Steel, Add	*37.50*	
		For Aluminum, Add	*2.11*	
		For Galvanized Steel, Add	*7.27*	
05 12 23 00-0717	LF	2-1/2" x 2-1/2" x 1/4" Square Steel Tubing	23.92	6.38
		For >100 To 250, Deduct	*-1.02*	
		For >250 To 500, Deduct	*-1.62*	
		For >500 To 1,000, Deduct	*-2.43*	
		For >1,000, Deduct	*-3.24*	
		For 304 Stainless Steel, Add	*43.89*	
		For 316 Stainless Steel, Add	*49.28*	
		For Aluminum, Add	*2.77*	
		For Galvanized Steel, Add	*9.55*	
05 12 23 00-0718	LF	3" x 3" x 1/4" Square Steel Tubing	29.64	7.91
		For >100 To 250, Deduct	*-1.27*	
		For >250 To 500, Deduct	*-2.01*	
		For >500 To 1,000, Deduct	*-3.01*	
		For >1,000, Deduct	*-4.02*	
		For 304 Stainless Steel, Add	*54.41*	
		For 316 Stainless Steel, Add	*61.09*	
		For Aluminum, Add	*3.44*	
		For Galvanized Steel, Add	*11.84*	
05 12 23 00-0719	LF	3-1/2" x 3-1/2" x 1/4" Square Steel Tubing	35.35	9.44
		For >100 To 250, Deduct	*-1.51*	
		For >250 To 500, Deduct	*-2.40*	
		For >500 To 1,000, Deduct	*-3.59*	
		For >1,000, Deduct	*-4.79*	
		For 304 Stainless Steel, Add	*64.89*	
		For 316 Stainless Steel, Add	*72.86*	
		For Aluminum, Add	*4.10*	
		For Galvanized Steel, Add	*14.12*	
05 12 23 00-0720	LF	4" x 4" x 1/4" Square Steel Tubing	41.07	10.96
		For >100 To 250, Deduct	*-1.76*	
		For >250 To 500, Deduct	*-2.78*	
		For >500 To 1,000, Deduct	*-4.18*	
		For >1,000, Deduct	*-5.57*	
		For 304 Stainless Steel, Add	*75.38*	
		For 316 Stainless Steel, Add	*84.64*	
		For Aluminum, Add	*4.76*	
		For Galvanized Steel, Add	*16.40*	
05 12 23 00-0721	LF	4-1/2" x 4-1/2" x 1/4" Square Steel Tubing	46.80	12.49
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-3.17*	
		For >500 To 1,000, Deduct	*-4.76*	
		For >1,000, Deduct	*-6.35*	
		For 304 Stainless Steel, Add	*85.90*	
		For 316 Stainless Steel, Add	*96.45*	
		For Aluminum, Add	*5.43*	
		For Galvanized Steel, Add	*18.69*	
05 12 23 00-0722	LF	5" x 5" x 1/4" Square Steel Tubing	52.55	14.03
		For >100 To 250, Deduct	*-2.25*	
		For >250 To 500, Deduct	*-3.56*	
		For >500 To 1,000, Deduct	*-5.34*	
		For >1,000, Deduct	*-7.13*	
		For 304 Stainless Steel, Add	*96.44*	
		For 316 Stainless Steel, Add	*108.29*	
		For Aluminum, Add	*6.09*	
		For Galvanized Steel, Add	*20.98*	
05 12 23 00-0723	LF	6" x 6" x 1/4" Square Steel Tubing	63.99	17.08
		For >100 To 250, Deduct	*-2.74*	
		For >250 To 500, Deduct	*-4.34*	
		For >500 To 1,000, Deduct	*-6.51*	
		For >1,000, Deduct	*-8.68*	
		For 304 Stainless Steel, Add	*117.45*	
		For 316 Stainless Steel, Add	*131.87*	
		For Aluminum, Add	*7.42*	
		For Galvanized Steel, Add	*25.55*	

05 12 23 00-0724 Rectangular Steel Tubing *(05 12 23 00-0681)*

05 12 23 00-0725 3/16" Wall Thickness *(05 12 23 00-0724)*

05 12 23 00-0726	LF	3" x 2" x 3/16" Square Steel Tubing	22.09	6.27
		For >100 To 250, Deduct	*-0.97*	
		For >250 To 500, Deduct	*-1.52*	
		For >500 To 1,000, Deduct	*-2.28*	
		For >1,000, Deduct	*-3.05*	
		For 304 Stainless Steel, Add	*39.10*	
		For 316 Stainless Steel, Add	*43.90*	
		For Aluminum, Add	*2.47*	
		For Galvanized Steel, Add	*8.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0727	LF	4" x 2" x 3/16" Square Steel Tubing	27.15	7.71
		For >100 To 250, Deduct	*-1.19*	
		For >250 To 500, Deduct	*-1.87*	
		For >500 To 1,000, Deduct	*-2.81*	
		For >1,000, Deduct	*-3.74*	
		For 304 Stainless Steel, Add	*48.05*	
		For 316 Stainless Steel, Add	*53.95*	
		For Aluminum, Add	*3.03*	
		For Galvanized Steel, Add	*10.45*	
05 12 23 00-0728	LF	4" x 3" x 3/16" Square Steel Tubing	32.21	9.15
		For >100 To 250, Deduct	*-1.42*	
		For >250 To 500, Deduct	*-2.22*	
		For >500 To 1,000, Deduct	*-3.33*	
		For >1,000, Deduct	*-4.44*	
		For 304 Stainless Steel, Add	*57.03*	
		For 316 Stainless Steel, Add	*64.03*	
		For Aluminum, Add	*3.60*	
		For Galvanized Steel, Add	*12.41*	
05 12 23 00-0729	LF	5" x 2" x 3/16" Square Steel Tubing	32.21	9.15
		For >100 To 250, Deduct	*-1.42*	
		For >250 To 500, Deduct	*-2.22*	
		For >500 To 1,000, Deduct	*-3.33*	
		For >1,000, Deduct	*-4.44*	
		For 304 Stainless Steel, Add	*57.03*	
		For 316 Stainless Steel, Add	*64.03*	
		For Aluminum, Add	*3.60*	
		For Galvanized Steel, Add	*12.41*	
05 12 23 00-0730	LF	5" x 3" x 3/16" Square Steel Tubing	37.22	10.58
		For >100 To 250, Deduct	*-1.64*	
		For >250 To 500, Deduct	*-2.57*	
		For >500 To 1,000, Deduct	*-3.85*	
		For >1,000, Deduct	*-5.13*	
		For 304 Stainless Steel, Add	*65.89*	
		For 316 Stainless Steel, Add	*73.98*	
		For Aluminum, Add	*4.16*	
		For Galvanized Steel, Add	*14.33*	
05 12 23 00-0731	LF	5" x 4" x 3/16" Square Steel Tubing	42.29	12.01
		For >100 To 250, Deduct	*-1.86*	
		For >250 To 500, Deduct	*-2.92*	
		For >500 To 1,000, Deduct	*-4.37*	
		For >1,000, Deduct	*-5.83*	
		For 304 Stainless Steel, Add	*74.87*	
		For 316 Stainless Steel, Add	*84.06*	
		For Aluminum, Add	*4.73*	
		For Galvanized Steel, Add	*16.29*	
05 12 23 00-0732	LF	6" x 2" x 3/16" Square Steel Tubing	37.22	10.58
		For >100 To 250, Deduct	*-1.64*	
		For >250 To 500, Deduct	*-2.57*	
		For >500 To 1,000, Deduct	*-3.85*	
		For >1,000, Deduct	*-5.13*	
		For 304 Stainless Steel, Add	*65.89*	
		For 316 Stainless Steel, Add	*73.98*	
		For Aluminum, Add	*4.16*	
		For Galvanized Steel, Add	*14.33*	
05 12 23 00-0733	LF	6" x 3" x 3/16" Square Steel Tubing	42.29	12.01
		For >100 To 250, Deduct	*-1.86*	
		For >250 To 500, Deduct	*-2.92*	
		For >500 To 1,000, Deduct	*-4.37*	
		For >1,000, Deduct	*-5.83*	
		For 304 Stainless Steel, Add	*74.87*	
		For 316 Stainless Steel, Add	*84.06*	
		For Aluminum, Add	*4.73*	
		For Galvanized Steel, Add	*16.29*	
05 12 23 00-0734	LF	6" x 4" x 3/16" Square Steel Tubing	47.30	13.44
		For >100 To 250, Deduct	*-2.08*	
		For >250 To 500, Deduct	*-3.26*	
		For >500 To 1,000, Deduct	*-4.89*	
		For >1,000, Deduct	*-6.52*	
		For 304 Stainless Steel, Add	*83.73*	
		For 316 Stainless Steel, Add	*94.02*	
		For Aluminum, Add	*5.29*	
		For Galvanized Steel, Add	*18.22*	

05 12 23 00-0735 1/4" Wall Thickness *(05 12 23 00-0724)*

05 12 23 00-0736	LF	3" x 2" x 1/4" Square Steel Tubing	23.92	6.38
		For >100 To 250, Deduct	*-1.02*	
		For >250 To 500, Deduct	*-1.62*	
		For >500 To 1,000, Deduct	*-2.43*	
		For >1,000, Deduct	*-3.24*	
		For 304 Stainless Steel, Add	*43.89*	
		For 316 Stainless Steel, Add	*49.28*	
		For Aluminum, Add	*2.77*	
		For Galvanized Steel, Add	*9.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0737	LF	4" x 2" x 1/4" Square Steel Tubing	29.64	7.91
		For >100 To 250, Deduct	*-1.27*	
		For >250 To 500, Deduct	*-2.01*	
		For >500 To 1,000, Deduct	*-3.01*	
		For >1,000, Deduct	*-4.02*	
		For 304 Stainless Steel, Add	*54.41*	
		For 316 Stainless Steel, Add	*61.09*	
		For Aluminum, Add	*3.44*	
		For Galvanized Steel, Add	*11.84*	
05 12 23 00-0738	LF	4" x 3" x 1/4" Square Steel Tubing	35.35	9.44
		For >100 To 250, Deduct	*-1.51*	
		For >250 To 500, Deduct	*-2.40*	
		For >500 To 1,000, Deduct	*-3.59*	
		For >1,000, Deduct	*-4.79*	
		For 304 Stainless Steel, Add	*64.89*	
		For 316 Stainless Steel, Add	*72.86*	
		For Aluminum, Add	*4.10*	
		For Galvanized Steel, Add	*14.12*	
05 12 23 00-0739	LF	5" x 2" x 1/4" Square Steel Tubing	35.35	9.44
		For >100 To 250, Deduct	*-1.51*	
		For >250 To 500, Deduct	*-2.40*	
		For >500 To 1,000, Deduct	*-3.59*	
		For >1,000, Deduct	*-4.79*	
		For 304 Stainless Steel, Add	*64.89*	
		For 316 Stainless Steel, Add	*72.86*	
		For Aluminum, Add	*4.10*	
		For Galvanized Steel, Add	*14.12*	
05 12 23 00-0740	LF	5" x 3" x 1/4" Square Steel Tubing	41.07	10.96
		For >100 To 250, Deduct	*-1.76*	
		For >250 To 500, Deduct	*-2.78*	
		For >500 To 1,000, Deduct	*-4.18*	
		For >1,000, Deduct	*-5.57*	
		For 304 Stainless Steel, Add	*75.38*	
		For 316 Stainless Steel, Add	*84.64*	
		For Aluminum, Add	*4.76*	
		For Galvanized Steel, Add	*16.40*	
05 12 23 00-0741	LF	5" x 4" x 1/4" Square Steel Tubing	46.80	12.49
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-3.17*	
		For >500 To 1,000, Deduct	*-4.76*	
		For >1,000, Deduct	*-6.35*	
		For 304 Stainless Steel, Add	*85.90*	
		For 316 Stainless Steel, Add	*96.45*	
		For Aluminum, Add	*5.43*	
		For Galvanized Steel, Add	*18.69*	
05 12 23 00-0742	LF	6" x 2" x 1/4" Square Steel Tubing	41.07	10.96
		For >100 To 250, Deduct	*-1.76*	
		For >250 To 500, Deduct	*-2.78*	
		For >500 To 1,000, Deduct	*-4.18*	
		For >1,000, Deduct	*-5.57*	
		For 304 Stainless Steel, Add	*75.38*	
		For 316 Stainless Steel, Add	*84.64*	
		For Aluminum, Add	*4.76*	
		For Galvanized Steel, Add	*16.40*	
05 12 23 00-0743	LF	6" x 3" x 1/4" Square Steel Tubing	46.80	12.49
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-3.17*	
		For >500 To 1,000, Deduct	*-4.76*	
		For >1,000, Deduct	*-6.35*	
		For 304 Stainless Steel, Add	*85.90*	
		For 316 Stainless Steel, Add	*96.45*	
		For Aluminum, Add	*5.43*	
		For Galvanized Steel, Add	*18.69*	
05 12 23 00-0744	LF	6" x 4" x 1/4" Square Steel Tubing	52.55	14.03
		For >100 To 250, Deduct	*-2.25*	
		For >250 To 500, Deduct	*-3.56*	
		For >500 To 1,000, Deduct	*-5.34*	
		For >1,000, Deduct	*-7.13*	
		For 304 Stainless Steel, Add	*96.44*	
		For 316 Stainless Steel, Add	*108.29*	
		For Aluminum, Add	*6.09*	
		For Galvanized Steel, Add	*20.98*	

05 12 23 00-0745 Round Steel Tubing *(05 12 23 00-0681)*

05 12 23 00-0746 0.065" Wall Thickness *(05 12 23 00-0745)*

05 12 23 00-0747	LF	1" Diameter x 0.065" Round Steel Tubing	4.84	1.17
		For >100 To 250, Deduct	*-0.20*	
		For >250 To 500, Deduct	*-0.32*	
		For >500 To 1,000, Deduct	*-0.48*	
		For >1,000, Deduct	*-0.64*	
		For 304 Stainless Steel, Add	*9.38*	
		For 316 Stainless Steel, Add	*10.53*	
		For Aluminum, Add	*0.59*	
		For Galvanized Steel, Add	*2.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0748	LF	1-1/4" Diameter x 0.065" Round Steel Tubing	6.15	1.48
		For >100 To 250, Deduct	*-0.25*	
		For >250 To 500, Deduct	*-0.41*	
		For >500 To 1,000, Deduct	*-0.61*	
		For >1,000, Deduct	*-0.81*	
		For 304 Stainless Steel, Add	*11.91*	
		For 316 Stainless Steel, Add	*13.38*	
		For Aluminum, Add	*0.75*	
		For Galvanized Steel, Add	*2.59*	
05 12 23 00-0749	LF	1-1/2" Diameter x 0.065" Round Steel Tubing	7.45	1.79
		For >100 To 250, Deduct	*-0.31*	
		For >250 To 500, Deduct	*-0.49*	
		For >500 To 1,000, Deduct	*-0.74*	
		For >1,000, Deduct	*-0.98*	
		For 304 Stainless Steel, Add	*14.42*	
		For 316 Stainless Steel, Add	*16.19*	
		For Aluminum, Add	*0.91*	
		For Galvanized Steel, Add	*3.14*	
05 12 23 00-0750	LF	2" Diameter x 0.065" Round Steel Tubing	10.04	2.42
		For >100 To 250, Deduct	*-0.41*	
		For >250 To 500, Deduct	*-0.66*	
		For >500 To 1,000, Deduct	*-0.99*	
		For >1,000, Deduct	*-1.33*	
		For 304 Stainless Steel, Add	*19.44*	
		For 316 Stainless Steel, Add	*21.82*	
		For Aluminum, Add	*1.23*	
		For Galvanized Steel, Add	*4.23*	
05 12 23 00-0751	LF	2-1/2" Diameter x 0.065" Round Steel Tubing	12.63	3.04
		For >100 To 250, Deduct	*-0.52*	
		For >250 To 500, Deduct	*-0.83*	
		For >500 To 1,000, Deduct	*-1.25*	
		For >1,000, Deduct	*-1.67*	
		For 304 Stainless Steel, Add	*24.45*	
		For 316 Stainless Steel, Add	*27.46*	
		For Aluminum, Add	*1.54*	
		For Galvanized Steel, Add	*5.32*	
05 12 23 00-0752	LF	3" Diameter x 0.065" Round Steel Tubing	15.22	3.65
		For >100 To 250, Deduct	*-0.62*	
		For >250 To 500, Deduct	*-1.01*	
		For >500 To 1,000, Deduct	*-1.51*	
		For >1,000, Deduct	*-2.01*	
		For 304 Stainless Steel, Add	*29.47*	
		For 316 Stainless Steel, Add	*33.09*	
		For Aluminum, Add	*1.86*	
		For Galvanized Steel, Add	*6.41*	
05 12 23 00-0753	LF	3-1/2" Diameter x 0.065" Round Steel Tubing	17.81	4.29
		For >100 To 250, Deduct	*-0.73*	
		For >250 To 500, Deduct	*-1.18*	
		For >500 To 1,000, Deduct	*-1.76*	
		For >1,000, Deduct	*-2.35*	
		For 304 Stainless Steel, Add	*34.49*	
		For 316 Stainless Steel, Add	*38.72*	
		For Aluminum, Add	*2.18*	
		For Galvanized Steel, Add	*7.50*	
05 12 23 00-0754	LF	4" Diameter x 0.065" Round Steel Tubing	20.41	4.91
		For >100 To 250, Deduct	*-0.84*	
		For >250 To 500, Deduct	*-1.35*	
		For >500 To 1,000, Deduct	*-2.02*	
		For >1,000, Deduct	*-2.70*	
		For 304 Stainless Steel, Add	*39.53*	
		For 316 Stainless Steel, Add	*44.38*	
		For Aluminum, Add	*2.50*	
		For Galvanized Steel, Add	*8.60*	

05 12 23 00-0755 0.083" Wall Thickness *(05 12 23 00-0745)*

05 12 23 00-0756	LF	1" Diameter x 0.083" Round Steel Tubing	5.26	1.28
		For >100 To 250, Deduct	*-0.22*	
		For >250 To 500, Deduct	*-0.35*	
		For >500 To 1,000, Deduct	*-0.52*	
		For >1,000, Deduct	*-0.70*	
		For 304 Stainless Steel, Add	*10.15*	
		For 316 Stainless Steel, Add	*11.39*	
		For Aluminum, Add	*0.64*	
		For Galvanized Steel, Add	*2.21*	
05 12 23 00-0757	LF	1-1/4" Diameter x 0.083" Round Steel Tubing	6.70	1.63
		For >100 To 250, Deduct	*-0.28*	
		For >250 To 500, Deduct	*-0.44*	
		For >500 To 1,000, Deduct	*-0.66*	
		For >1,000, Deduct	*-0.89*	
		For 304 Stainless Steel, Add	*12.94*	
		For 316 Stainless Steel, Add	*14.53*	
		For Aluminum, Add	*0.82*	
		For Galvanized Steel, Add	*2.81*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0758	LF	1-1/2" Diameter x 0.083" Round Steel Tubing	8.14	1.97
		For >100 To 250, Deduct	*-0.34*	
		For >250 To 500, Deduct	*-0.54*	
		For >500 To 1,000, Deduct	*-0.81*	
		For >1,000, Deduct	*-1.08*	
		For 304 Stainless Steel, Add	*15.70*	
		For 316 Stainless Steel, Add	*17.63*	
		For Aluminum, Add	*0.99*	
		For Galvanized Steel, Add	*3.42*	
05 12 23 00-0759	LF	2" Diameter x 0.083" Round Steel Tubing	11.01	2.67
		For >100 To 250, Deduct	*-0.45*	
		For >250 To 500, Deduct	*-0.73*	
		For >500 To 1,000, Deduct	*-1.09*	
		For >1,000, Deduct	*-1.46*	
		For 304 Stainless Steel, Add	*21.23*	
		For 316 Stainless Steel, Add	*23.84*	
		For Aluminum, Add	*1.34*	
		For Galvanized Steel, Add	*4.62*	
05 12 23 00-0760	LF	2-1/2" Diameter x 0.083" Round Steel Tubing	13.89	3.37
		For >100 To 250, Deduct	*-0.57*	
		For >250 To 500, Deduct	*-0.92*	
		For >500 To 1,000, Deduct	*-1.38*	
		For >1,000, Deduct	*-1.84*	
		For 304 Stainless Steel, Add	*26.79*	
		For 316 Stainless Steel, Add	*30.08*	
		For Aluminum, Add	*1.69*	
		For Galvanized Steel, Add	*5.83*	
05 12 23 00-0761	LF	3" Diameter x 0.083" Round Steel Tubing	16.76	4.07
		For >100 To 250, Deduct	*-0.69*	
		For >250 To 500, Deduct	*-1.11*	
		For >500 To 1,000, Deduct	*-1.66*	
		For >1,000, Deduct	*-2.22*	
		For 304 Stainless Steel, Add	*32.32*	
		For 316 Stainless Steel, Add	*36.29*	
		For Aluminum, Add	*2.04*	
		For Galvanized Steel, Add	*7.03*	
05 12 23 00-0762	LF	3-1/2" Diameter x 0.083" Round Steel Tubing	19.63	4.76
		For >100 To 250, Deduct	*-0.81*	
		For >250 To 500, Deduct	*-1.30*	
		For >500 To 1,000, Deduct	*-1.95*	
		For >1,000, Deduct	*-2.60*	
		For 304 Stainless Steel, Add	*37.85*	
		For 316 Stainless Steel, Add	*42.50*	
		For Aluminum, Add	*2.39*	
		For Galvanized Steel, Add	*8.23*	
05 12 23 00-0763	LF	4" Diameter x 0.083" Round Steel Tubing	22.50	5.46
		For >100 To 250, Deduct	*-0.93*	
		For >250 To 500, Deduct	*-1.49*	
		For >500 To 1,000, Deduct	*-2.23*	
		For >1,000, Deduct	*-2.98*	
		For 304 Stainless Steel, Add	*43.38*	
		For 316 Stainless Steel, Add	*48.70*	
		For Aluminum, Add	*2.74*	
		For Galvanized Steel, Add	*9.44*	

05 12 23 00-0764 0.125" Wall Thickness *(05 12 23 00-0745)*

05 12 23 00-0765	LF	2" Diameter x 0.125" Round Steel Tubing	11.81	3.37
		For >100 To 250, Deduct	*-0.52*	
		For >250 To 500, Deduct	*-0.82*	
		For >500 To 1,000, Deduct	*-1.22*	
		For >1,000, Deduct	*-1.63*	
		For 304 Stainless Steel, Add	*20.83*	
		For 316 Stainless Steel, Add	*23.39*	
		For Aluminum, Add	*1.32*	
		For Galvanized Steel, Add	*4.53*	
05 12 23 00-0766	LF	2-1/2" Diameter x 0.125" Round Steel Tubing	14.96	4.27
		For >100 To 250, Deduct	*-0.66*	
		For >250 To 500, Deduct	*-1.03*	
		For >500 To 1,000, Deduct	*-1.55*	
		For >1,000, Deduct	*-2.07*	
		For 304 Stainless Steel, Add	*26.39*	
		For 316 Stainless Steel, Add	*29.63*	
		For Aluminum, Add	*1.67*	
		For Galvanized Steel, Add	*5.74*	
05 12 23 00-0767	LF	3" Diameter x 0.125" Round Steel Tubing	18.11	5.17
		For >100 To 250, Deduct	*-0.80*	
		For >250 To 500, Deduct	*-1.25*	
		For >500 To 1,000, Deduct	*-1.88*	
		For >1,000, Deduct	*-2.50*	
		For 304 Stainless Steel, Add	*31.95*	
		For 316 Stainless Steel, Add	*35.87*	
		For Aluminum, Add	*2.02*	
		For Galvanized Steel, Add	*6.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0768	LF	3-1/2" Diameter x 0.125" Round Steel Tubing	21.25	6.07
		For >100 To 250, Deduct	*-0.94*	
		For >250 To 500, Deduct	*-1.47*	
		For >500 To 1,000, Deduct	*-2.20*	
		For >1,000, Deduct	*-2.93*	
		For 304 Stainless Steel, Add	*37.51*	
		For 316 Stainless Steel, Add	*42.11*	
		For Aluminum, Add	*2.37*	
		For Galvanized Steel, Add	*8.16*	
05 12 23 00-0769	LF	4" Diameter x 0.125" Round Steel Tubing	24.40	6.97
		For >100 To 250, Deduct	*-1.07*	
		For >250 To 500, Deduct	*-1.68*	
		For >500 To 1,000, Deduct	*-2.53*	
		For >1,000, Deduct	*-3.37*	
		For 304 Stainless Steel, Add	*43.06*	
		For 316 Stainless Steel, Add	*48.35*	
		For Aluminum, Add	*2.72*	
		For Galvanized Steel, Add	*9.37*	

05 12 23 00-0770 Flat Steel Bar *(05 12 23 00-0422)*

05 12 23 00-0771 1/8" Thick *(05 12 23 00-0770)*

05 12 23 00-0772	LF	1/8" Thick x 1" Wide Flat Steel Bar	3.61	1.68
		For 304 Stainless Steel, Add	*3.11*	
		For 316 Stainless Steel, Add	*3.49*	
		For Aluminum, Add	*0.20*	
		For Galvanized Steel, Add	*0.68*	
05 12 23 00-0773	LF	1/8" Thick x 2" Wide Flat Steel Bar	5.59	2.52
		For 304 Stainless Steel, Add	*5.16*	
		For 316 Stainless Steel, Add	*5.79*	
		For Aluminum, Add	*0.33*	
		For Galvanized Steel, Add	*1.12*	
05 12 23 00-0774	LF	1/8" Thick x 4" Wide Flat Steel Bar	8.61	3.54
		For 304 Stainless Steel, Add	*9.38*	
		For 316 Stainless Steel, Add	*10.53*	
		For Aluminum, Add	*0.59*	
		For Galvanized Steel, Add	*2.04*	
05 12 23 00-0775	LF	1/8" Thick x 6" Wide Flat Steel Bar	11.67	4.81
		For 304 Stainless Steel, Add	*12.68*	
		For 316 Stainless Steel, Add	*14.24*	
		For Aluminum, Add	*0.80*	
		For Galvanized Steel, Add	*2.76*	

05 12 23 00-0776 3/16" Thick *(05 12 23 00-0770)*

05 12 23 00-0777	LF	3/16" Thick x 1" Wide Flat Steel Bar	4.78	2.08
		For 304 Stainless Steel, Add	*4.73*	
		For 316 Stainless Steel, Add	*5.31*	
		For Aluminum, Add	*0.30*	
		For Galvanized Steel, Add	*1.03*	
05 12 23 00-0778	LF	3/16" Thick x 2" Wide Flat Steel Bar	7.55	3.12
		For 304 Stainless Steel, Add	*8.15*	
		For 316 Stainless Steel, Add	*9.15*	
		For Aluminum, Add	*0.51*	
		For Galvanized Steel, Add	*1.77*	
05 12 23 00-0779	LF	3/16" Thick x 4" Wide Flat Steel Bar	10.22	3.59
		For 304 Stainless Steel, Add	*13.77*	
		For 316 Stainless Steel, Add	*15.46*	
		For Aluminum, Add	*0.87*	
		For Galvanized Steel, Add	*2.99*	
05 12 23 00-0780	LF	3/16" Thick x 6" Wide Flat Steel Bar	14.14	4.98
		For 304 Stainless Steel, Add	*19.01*	
		For 316 Stainless Steel, Add	*21.34*	
		For Aluminum, Add	*1.20*	
		For Galvanized Steel, Add	*4.14*	

05 12 23 00-0781 1/4" Thick *(05 12 23 00-0770)*

05 12 23 00-0782	LF	1/4" Thick x 1" Wide Flat Steel Bar	4.94	2.20
		For 304 Stainless Steel, Add	*4.67*	
		For 316 Stainless Steel, Add	*5.25*	
		For Aluminum, Add	*0.30*	
		For Galvanized Steel, Add	*1.02*	
05 12 23 00-0783	LF	1/4" Thick x 2" Wide Flat Steel Bar	8.26	3.30
		For 304 Stainless Steel, Add	*9.43*	
		For 316 Stainless Steel, Add	*10.59*	
		For Aluminum, Add	*0.60*	
		For Galvanized Steel, Add	*2.05*	
05 12 23 00-0784	LF	1/4" Thick x 4" Wide Flat Steel Bar	12.08	3.78
		For 304 Stainless Steel, Add	*18.27*	
		For 316 Stainless Steel, Add	*20.51*	
		For Aluminum, Add	*1.15*	
		For Galvanized Steel, Add	*3.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0785	LF	1/4" Thick x 6" Wide Flat Steel Bar	17.48	5.58
		For 304 Stainless Steel, Add	*25.91*	
		For 316 Stainless Steel, Add	*29.09*	
		For Aluminum, Add	*1.64*	
		For Galvanized Steel, Add	*5.64*	

05 12 23 00-0786 3/8" Thick *(05 12 23 00-0770)*

05 12 23 00-0787	LF	3/8" Thick x 1" Wide Flat Steel Bar	6.29	2.48
		For 304 Stainless Steel, Add	*7.32*	
		For 316 Stainless Steel, Add	*8.22*	
		For Aluminum, Add	*0.46*	
		For Galvanized Steel, Add	*1.59*	
05 12 23 00-0788	LF	3/8" Thick x 2" Wide Flat Steel Bar	10.32	3.71
		For 304 Stainless Steel, Add	*13.51*	
		For 316 Stainless Steel, Add	*15.17*	
		For Aluminum, Add	*0.85*	
		For Galvanized Steel, Add	*2.94*	
05 12 23 00-0789	LF	3/8" Thick x 4" Wide Flat Steel Bar	15.85	4.24
		For 304 Stainless Steel, Add	*27.02*	
		For 316 Stainless Steel, Add	*30.34*	
		For Aluminum, Add	*1.71*	
		For Galvanized Steel, Add	*5.88*	
05 12 23 00-0790	LF	3/8" Thick x 6" Wide Flat Steel Bar	22.77	6.27
		For 304 Stainless Steel, Add	*38.02*	
		For 316 Stainless Steel, Add	*42.69*	
		For Aluminum, Add	*2.40*	
		For Galvanized Steel, Add	*8.27*	

05 12 23 00-0791 1/2" Thick *(05 12 23 00-0770)*

05 12 23 00-0792	LF	1/2" Thick x 1" Wide Flat Steel Bar	7.39	2.72
		For 304 Stainless Steel, Add	*9.38*	
		For 316 Stainless Steel, Add	*10.53*	
		For Aluminum, Add	*0.59*	
		For Galvanized Steel, Add	*2.04*	
05 12 23 00-0793	LF	1/2" Thick x 2" Wide Flat Steel Bar	12.19	4.10
		For 304 Stainless Steel, Add	*17.24*	
		For 316 Stainless Steel, Add	*19.36*	
		For Aluminum, Add	*1.09*	
		For Galvanized Steel, Add	*3.75*	
05 12 23 00-0794	LF	1/2" Thick x 4" Wide Flat Steel Bar	17.32	4.66
		For 304 Stainless Steel, Add	*29.38*	
		For 316 Stainless Steel, Add	*32.99*	
		For Aluminum, Add	*1.86*	
		For Galvanized Steel, Add	*6.39*	
05 12 23 00-0795	LF	1/2" Thick x 6" Wide Flat Steel Bar	30.94	6.91
		For 304 Stainless Steel, Add	*58.62*	
		For 316 Stainless Steel, Add	*65.82*	
		For Aluminum, Add	*3.70*	
		For Galvanized Steel, Add	*12.75*	

05 12 23 00-0796 Flat Steel Plate *(05 12 23 00-0422)*

05 12 23 00-0797	SF	1/8" Thick Flat Steel Plate	18.60	7.22
		For 304 Stainless Steel, Add	*22.12*	
		For 316 Stainless Steel, Add	*24.83*	
		For Aluminum, Add	*1.40*	
		For Galvanized Steel, Add	*4.81*	
05 12 23 00-0798	SF	3/16" Thick Flat Steel Plate	20.94	7.47
		For 304 Stainless Steel, Add	*27.67*	
		For 316 Stainless Steel, Add	*31.07*	
		For Aluminum, Add	*1.75*	
		For Galvanized Steel, Add	*6.02*	
05 12 23 00-0799	SF	1/4" Thick Flat Steel Plate	24.95	8.38
		For 304 Stainless Steel, Add	*35.28*	
		For 316 Stainless Steel, Add	*39.62*	
		For Aluminum, Add	*2.23*	
		For Galvanized Steel, Add	*7.68*	
05 12 23 00-0800	SF	3/8" Thick Flat Steel Plate	33.57	9.42
		For 304 Stainless Steel, Add	*55.38*	
		For 316 Stainless Steel, Add	*62.18*	
		For Aluminum, Add	*3.50*	
		For Galvanized Steel, Add	*12.05*	
05 12 23 00-0801	SF	1/2" Thick Flat Steel Plate	39.75	10.36
		For 304 Stainless Steel, Add	*68.97*	
		For 316 Stainless Steel, Add	*77.44*	
		For Aluminum, Add	*4.36*	
		For Galvanized Steel, Add	*15.00*	
05 12 23 00-0802	SF	3/4" Thick Flat Steel Plate	64.85	12.84
		For 304 Stainless Steel, Add	*129.39*	
		For 316 Stainless Steel, Add	*145.28*	
		For Aluminum, Add	*8.17*	
		For Galvanized Steel, Add	*28.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0803	SF	1" Thick Flat Steel Plate	86.47	16.05
		For 304 Stainless Steel, Add	*177.16*	
		For 316 Stainless Steel, Add	*198.91*	
		For Aluminum, Add	*11.19*	
		For Galvanized Steel, Add	*38.54*	

05 12 33 Structural Steel for Bridges *(05 12)*

See CSI section 05 12 23 00-0000 for structural steel, 34 05 43 00-0392 for bridge girder repair.

05 13 Structural Stainless-Steel Framing *(05 10)*

05 13 00 00-0001 Stainless Steel Tube *(05 13)*

05 13 00 00-0002	LF	1" x 1" Stainless Steel Tube	39.52	
05 13 00 00-0003	LF	1-1/2" x 1-1/2" Stainless Steel Tube	51.29	
05 13 00 00-0004	LF	2" x 2" Stainless Steel Tube	69.91	

05 14 Structural Aluminum Framing *(05 10)*

05 14 13 Architecturally-Exposed Structural Aluminum Framing *(05 14)*

05 14 13 00-0001 Rolled Or Plate Shapes *(05 14 13)*

Note: 1" through 10" member.

05 14 13 00-0002	LB	Structural Aluminum, Up To 2,000 Lb. / Order 1" To 10" Rolled / Plate Structural Members	11.97	0.98
05 14 13 00-0003	LB	Structural Aluminum, >2,000 - 9,999 Lb. / Order 1" To 10" Rolled / Plate Structural Members	10.53	0.91

05 14 13 00-0004 Aluminum Extrusions *(05 14 13)*

05 14 13 00-0005	LB	Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	18.75	4.04
05 14 13 00-0006	LB	Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members	19.95	4.04

05 14 13 00-0007 Aluminum Tubing *(05 14 13)*

05 14 13 00-0008	LB	Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	16.97	2.47
05 14 13 00-0009	LF	1" x 1" Aluminum Tubing, 1/8" Wall Thickness	14.35	3.99
05 14 13 00-0010	LF	1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	17.57	4.36
05 14 13 00-0011	LF	1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	20.14	5.08
05 14 13 00-0012	LF	2" x 2" Aluminum Tubing, 1/8" Wall Thickness	24.24	5.46
05 14 13 00-0013	LF	4" x 4" Aluminum Tubing, 1/4" Wall Thickness	75.22	6.91
05 14 13 00-0014	LF	2" x 5" Aluminum Tubing, 1/4" Wall Thickness	61.36	6.18

05 14 13 00-0015 Columns *(05 14 13)*

Note: Baked on paint finish, load bearing.

05 14 13 00-0016 Round Columns *(05 14 13 00-0015)*

05 14 13 00-0017	LF	6" Diameter Aluminum Column	68.22	7.81
05 14 13 00-0018	LF	8" Diameter Aluminum Column	90.73	11.19
05 14 13 00-0019	LF	10" Diameter Aluminum Column	111.43	12.59
05 14 13 00-0020	LF	12" Diameter Aluminum Column	171.05	13.17
05 14 13 00-0021	LF	15" Diameter Aluminum Column	219.32	15.27
05 14 13 00-0022	EA	6" Diameter Aluminum Base And Cap	133.65	14.57
05 14 13 00-0023	EA	8" Diameter Aluminum Base And Cap	153.62	15.73
05 14 13 00-0024	EA	10" Diameter Aluminum Base And Cap	195.52	17.48
05 14 13 00-0025	EA	12" Diameter Aluminum Base And Cap	345.81	18.65
05 14 13 00-0026	EA	15" Diameter Aluminum Base And Cap	535.06	20.40

05 14 13 00-0027 Octagonal Columns *(05 14 13 00-0015)*

05 14 13 00-0028	LF	6" Diameter Aluminum Column	77.06	7.81
05 14 13 00-0029	LF	8" Diameter Aluminum Column	104.40	11.19
05 14 13 00-0030	LF	10" Diameter Aluminum Column	128.68	12.59
05 14 13 00-0031	LF	12" Diameter Aluminum Column	200.02	13.17
05 14 13 00-0032	LF	15" Diameter Aluminum Column	257.10	15.27
05 14 13 00-0033	EA	6" Diameter Aluminum Base And Cap	154.55	14.57
05 14 13 00-0034	EA	8" Diameter Aluminum Base And Cap	178.05	15.73
05 14 13 00-0035	EA	10" Diameter Aluminum Base And Cap	227.63	17.48
05 14 13 00-0036	EA	12" Diameter Aluminum Base And Cap	407.51	18.65
05 14 13 00-0037	EA	15" Diameter Aluminum Base And Cap	633.91	20.40

05 14 13 00-0038 Fluted Columns *(05 14 13 00-0015)*

05 14 13 00-0039	LF	6" Diameter Aluminum Column	86.29	7.81
05 14 13 00-0040	LF	8" Diameter Aluminum Column	116.69	11.19
05 14 13 00-0041	LF	10" Diameter Aluminum Column	144.21	12.59
05 14 13 00-0042	LF	12" Diameter Aluminum Column	226.08	13.17
05 14 13 00-0043	LF	15" Diameter Aluminum Column	291.10	15.27
05 14 13 00-0044	EA	6" Diameter Aluminum Base And Cap	173.37	14.57
05 14 13 00-0045	EA	8" Diameter Aluminum Base And Cap	200.03	15.73
05 14 13 00-0046	EA	10" Diameter Aluminum Base And Cap	256.53	17.48

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0047	EA	12" Diameter Aluminum Base And Cap	463.04	18.65
05 14 13 00-0048	EA	15" Diameter Aluminum Base And Cap	722.88	20.40
05 14 13 00-0049		Square Columns *(05 14 13 00-0015)*		
05 14 13 00-0050	LF	6" Aluminum Column	92.61	7.81
05 14 13 00-0051	LF	8" Aluminum Column	125.10	11.19
05 14 13 00-0052	LF	10" Aluminum Column	154.83	12.59
05 14 13 00-0053	LF	12" Aluminum Column	243.91	13.17
05 14 13 00-0054	LF	15" Aluminum Column	314.35	15.27
05 14 13 00-0055	EA	6" Aluminum Base And Cap	186.23	14.57
05 14 13 00-0056	EA	8" Aluminum Base And Cap	215.07	15.73
05 14 13 00-0057	EA	10" Aluminum Base And Cap	276.29	17.48
05 14 13 00-0058	EA	12" Aluminum Base And Cap	501.02	18.65
05 14 13 00-0059	EA	15" Aluminum Base And Cap	783.71	20.40
05 14 13 00-0060		Ornamental Or Decorative Cap And Bases *(05 14 13 00-0015)*		
05 14 13 00-0061	EA	8" Corinthian Capital And Base	1,099.03	17.48
05 14 13 00-0062	EA	10" Corinthian Capital And Base	1,620.99	20.40
05 14 13 00-0063	EA	12" Corinthian Capital And Base	2,570.38	23.31
05 14 13 00-0064	EA	8" Scamozzi Capital And Base	539.71	17.48
05 14 13 00-0065	EA	10" Scamozzi Capital And Base	725.17	20.40
05 14 13 00-0066	EA	12" Scamozzi Capital And Base	1,470.84	23.31

05 15 Wire Rope Assemblies *(05 10)*

05 15 16 Steel Wire Rope Assemblies *(05 15)*

05 15 16 00-0001		6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope *(05 15 16)*		
05 15 16 00-0002	LF	1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	1.68	0.12
		For >500, Deduct	*-0.29*	
05 15 16 00-0003	LF	5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.25	0.12
		For >500, Deduct	*-0.39*	
05 15 16 00-0004	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.68	0.24
		For >500, Deduct	*-0.44*	
05 15 16 00-0005	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	3.23	0.24
		For >500, Deduct	*-0.52*	
05 15 16 00-0006	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	3.74	0.36
		For >500, Deduct	*-0.58*	
05 15 16 00-0007	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	4.59	0.48
		For >500, Deduct	*-0.71*	
05 15 16 00-0008	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	5.49	0.48
		For >500, Deduct	*-0.84*	
05 15 16 00-0009	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	7.61	0.84
		For >500, Deduct	*-1.14*	
05 15 16 00-0010	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	10.23	0.96
		For >500, Deduct	*-1.53*	
05 15 16 00-0011	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	12.75	1.32
		For >500, Deduct	*-1.87*	
05 15 16 00-0012	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	15.76	1.68
		For >500, Deduct	*-2.31*	
05 15 16 00-0013	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	19.21	2.03
		For >500, Deduct	*-2.81*	
05 15 16 00-0014		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope *(05 15 16)*		
05 15 16 00-0015	LF	1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	1.97	0.12
		For >500, Deduct	*-0.35*	
05 15 16 00-0016	LF	5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.55	0.12
		For >500, Deduct	*-0.45*	
05 15 16 00-0017	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	3.16	0.24
		For >500, Deduct	*-0.54*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0018	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	3.60	0.24
		For >500, Deduct	*-0.59*	
05 15 16 00-0019	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	4.28	0.36
		For >500, Deduct	*-0.69*	
05 15 16 00-0020	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	4.94	0.48
		For >500, Deduct	*-0.78*	
05 15 16 00-0021	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	5.78	0.48
		For >500, Deduct	*-0.90*	
05 15 16 00-0022	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	8.48	0.84
		For >500, Deduct	*-1.32*	
05 15 16 00-0023	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	10.87	0.96
		For >500, Deduct	*-1.66*	
05 15 16 00-0024	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	13.39	1.32
		For >500, Deduct	*-2.01*	
05 15 16 00-0025	LF	1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	17.13	1.68
		For >500, Deduct	*-2.57*	
05 15 16 00-0026	LF	1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	20.85	2.03
		For >500, Deduct	*-3.14*	

05 15 16 00-0027 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope *(05 15 16)*

05 15 16 00-0028	LF	1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	1.56	0.12
		For >500, Deduct	*-0.27*	
05 15 16 00-0029	LF	5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	2.12	0.12
		For >500, Deduct	*-0.36*	
05 15 16 00-0030	LF	3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	2.52	0.24
		For >500, Deduct	*-0.41*	
05 15 16 00-0031	LF	7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	2.96	0.24
		For >500, Deduct	*-0.47*	
05 15 16 00-0032	LF	1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	3.57	0.36
		For >500, Deduct	*-0.55*	
05 15 16 00-0033	LF	9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	4.52	0.48
		For >500, Deduct	*-0.69*	
05 15 16 00-0034	LF	5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	5.27	0.48
		For >500, Deduct	*-0.79*	
05 15 16 00-0035	LF	3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	7.41	0.84
		For >500, Deduct	*-1.10*	
05 15 16 00-0036	LF	7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	9.09	0.96
		For >500, Deduct	*-1.31*	
05 15 16 00-0037	LF	1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope	11.55	1.32
		For >500, Deduct	*-1.63*	

05 15 16 00-0038 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope *(05 15 16)*

05 15 16 00-0039	LF	1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	1.54	0.12
		For >500, Deduct	*-0.27*	
05 15 16 00-0040	LF	5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.04	0.12
		For >500, Deduct	*-0.34*	
05 15 16 00-0041	LF	3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.52	0.24
		For >500, Deduct	*-0.41*	
05 15 16 00-0042	LF	7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.96	0.24
		For >500, Deduct	*-0.47*	
05 15 16 00-0043	LF	1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	3.72	0.36
		For >500, Deduct	*-0.58*	
05 15 16 00-0044	LF	9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	4.44	0.48
		For >500, Deduct	*-0.68*	
05 15 16 00-0045	LF	5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	5.56	0.48
		For >500, Deduct	*-0.85*	
05 15 16 00-0046	LF	3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	7.76	0.84
		For >500, Deduct	*-1.17*	
05 15 16 00-0047	LF	7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	10.16	0.96
		For >500, Deduct	*-1.52*	
05 15 16 00-0048	LF	1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	12.53	1.32
		For >500, Deduct	*-1.84*	

05 15 16 00-0049 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope *(05 15 16)*

05 15 16 00-0050	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	2.85	0.24
		For >500, Deduct	*-0.48*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0051	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	3.34	0.24
		For >500, Deduct	*-0.54*	
05 15 16 00-0052	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	3.91	0.36
		For >500, Deduct	*-0.62*	
05 15 16 00-0053	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	5.27	0.48
		For >500, Deduct	*-0.84*	
05 15 16 00-0054	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	5.82	0.48
		For >500, Deduct	*-0.90*	
05 15 16 00-0055	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	7.94	0.84
		For >500, Deduct	*-1.21*	
05 15 16 00-0056	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	10.19	0.96
		For >500, Deduct	*-1.53*	
05 15 16 00-0057	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	13.43	1.32
		For >500, Deduct	*-2.01*	
05 15 16 00-0058	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	16.27	1.68
		For >500, Deduct	*-2.41*	
05 15 16 00-0059	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	19.64	2.03
		For >500, Deduct	*-2.90*	

05 15 16 00-0060 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope *(05 15 16)*

05 15 16 00-0061	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	2.93	0.24
		For >500, Deduct	*-0.49*	
05 15 16 00-0062	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	3.54	0.24
		For >500, Deduct	*-0.58*	
05 15 16 00-0063	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	4.19	0.36
		For >500, Deduct	*-0.67*	
05 15 16 00-0064	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	5.85	0.48
		For >500, Deduct	*-0.96*	
05 15 16 00-0065	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	5.91	0.48
		For >500, Deduct	*-0.92*	
05 15 16 00-0066	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	8.13	0.84
		For >500, Deduct	*-1.25*	
05 15 16 00-0067	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	10.78	0.96
		For >500, Deduct	*-1.64*	
05 15 16 00-0068	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	13.62	1.32
		For >500, Deduct	*-2.05*	

05 15 16 00-0069 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope *(05 15 16)*

05 15 16 00-0070	LF	1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.02	0.12
		For >500, Deduct	*-0.56*	
05 15 16 00-0071	LF	5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.25	0.12
		For >500, Deduct	*-0.59*	
05 15 16 00-0072	LF	3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.83	0.24
		For >500, Deduct	*-0.68*	
05 15 16 00-0073	LF	7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	5.15	0.24
		For >500, Deduct	*-0.90*	
05 15 16 00-0074	LF	1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	5.87	0.24
		For >500, Deduct	*-1.05*	
05 15 16 00-0075	LF	9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	6.79	0.48
		For >500, Deduct	*-1.15*	
05 15 16 00-0076	LF	5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	8.08	0.48
		For >500, Deduct	*-1.36*	
05 15 16 00-0077	LF	3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	11.13	0.71
		For >500, Deduct	*-1.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0078		**7x7, Galvanized Finish, Aircraft Cable** *(05 15 16)*		
05 15 16 00-0079	LF	1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.34	0.08
		For >500, Deduct	*-0.04*	
05 15 16 00-0080	LF	3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.39	0.10
		For >500, Deduct	*-0.05*	
05 15 16 00-0081	LF	1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.44	0.11
		For >500, Deduct	*-0.05*	
05 15 16 00-0082	LF	5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.51	0.12
		For >500, Deduct	*-0.06*	
05 15 16 00-0083	LF	3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.63	0.12
		For >500, Deduct	*-0.08*	
05 15 16 00-0084		**7x19, Galvanized Finish, Aircraft Cable** *(05 15 16)*		
05 15 16 00-0085	LF	1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.62	0.11
		For >500, Deduct	*-0.09*	
05 15 16 00-0086	LF	5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.67	0.12
		For >500, Deduct	*-0.10*	
05 15 16 00-0087	LF	3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.77	0.12
		For >500, Deduct	*-0.11*	
05 15 16 00-0088	LF	1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.90	0.12
		For >500, Deduct	*-0.14*	
05 15 16 00-0089	LF	5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.36	0.12
		For >500, Deduct	*-0.21*	
05 15 16 00-0090	LF	3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.82	0.12
		For >500, Deduct	*-0.27*	
05 15 16 00-0091		**Heavy-Duty, Galvanized Steel, Wire Rope Thimbles** *(05 15 16)*		
05 15 16 00-0092	EA	1/4" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	15.39	3.59
05 15 16 00-0093	EA	5/16" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	17.50	3.59
05 15 16 00-0094	EA	3/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	19.84	3.59
05 15 16 00-0095	EA	7/16" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	26.27	3.59
05 15 16 00-0096	EA	1/2" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	26.30	3.59
05 15 16 00-0097	EA	9/16" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	26.30	3.59
05 15 16 00-0098	EA	5/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	28.48	3.59
05 15 16 00-0099	EA	3/4" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	52.11	5.51
05 15 16 00-0100	EA	7/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	61.48	6.70
05 15 16 00-0101	EA	1" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	109.52	11.01
05 15 16 00-0102	EA	1-1/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	157.30	14.97
05 15 16 00-0103	EA	1-1/4" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	157.30	14.97
05 15 16 00-0104		**Galvanized Steel, Wire Rope Clips** *(05 15 16)*		
05 15 16 00-0105	EA	1/8" Diameter, Galvanized Steel, Wire Rope Clip	18.79	3.59
05 15 16 00-0106	EA	3/16" Diameter, Galvanized Steel, Wire Rope Clip	19.21	3.59
05 15 16 00-0107	EA	1/4" Diameter, Galvanized Steel, Wire Rope Clip	22.09	3.59
05 15 16 00-0108	EA	5/16" Diameter, Galvanized Steel, Wire Rope Clip	22.54	3.59
05 15 16 00-0109	EA	3/8" Diameter, Galvanized Steel, Wire Rope Clip	23.19	3.59
05 15 16 00-0110	EA	7/16" Diameter, Galvanized Steel, Wire Rope Clip	29.38	3.59
05 15 16 00-0111	EA	1/2" Diameter, Galvanized Steel, Wire Rope Clip	29.85	3.59
05 15 16 00-0112	EA	9/16" Diameter, Galvanized Steel, Wire Rope Clip	34.30	3.59
05 15 16 00-0113	EA	5/8" Diameter, Galvanized Steel, Wire Rope Clip	34.95	3.59
05 15 16 00-0114	EA	3/4" Diameter, Galvanized Steel, Wire Rope Clip	47.75	4.79
05 15 16 00-0115	EA	7/8" Diameter, Galvanized Steel, Wire Rope Clip	71.29	7.19
05 15 16 00-0116	EA	1" Diameter, Galvanized Steel, Wire Rope Clip	78.58	7.19
05 15 16 00-0117	EA	1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	92.09	9.58
05 15 16 00-0118	EA	1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	133.73	14.38
05 15 16 00-0119		**Steel, Open Swage Sockets** *(05 15 16)*		
05 15 16 00-0120	EA	1/4" Diameter, Steel, Open Swage Socket	104.93	3.59
05 15 16 00-0121	EA	5/16" Diameter, Steel, Open Swage Socket	167.70	3.59
05 15 16 00-0122	EA	3/8" Diameter, Steel, Open Swage Socket	172.43	4.79
05 15 16 00-0123	EA	7/16" Diameter, Steel, Open Swage Socket	204.82	5.99
05 15 16 00-0124	EA	1/2" Diameter, Steel, Open Swage Socket	204.82	5.99
05 15 16 00-0125	EA	9/16" Diameter, Steel, Open Swage Socket	298.52	13.18
05 15 16 00-0126	EA	5/8" Diameter, Steel, Open Swage Socket	298.52	13.18
05 15 16 00-0127	EA	3/4" Diameter, Steel, Open Swage Socket	379.48	25.15
05 15 16 00-0128	EA	7/8" Diameter, Steel, Open Swage Socket	510.38	35.93
05 15 16 00-0129	EA	1" Diameter, Steel, Open Swage Socket	717.22	55.09
05 15 16 00-0130	EA	1-1/8" Diameter, Steel, Open Swage Socket	938.21	86.23
05 15 16 00-0131	EA	1-1/4" Diameter, Steel, Open Swage Socket	1,092.31	99.41
05 15 16 00-0132		**Steel, Closed Swage Sockets** *(05 15 16)*		
05 15 16 00-0133	EA	1/4" Diameter, Steel, Closed Swage Socket	84.25	3.59
05 15 16 00-0134	EA	5/16" Diameter, Steel, Closed Swage Socket	114.33	3.59
05 15 16 00-0135	EA	3/8" Diameter, Steel, Closed Swage Socket	114.33	3.59
05 15 16 00-0136	EA	7/16" Diameter, Steel, Closed Swage Socket	142.37	4.79

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0137	EA	1/2" Diameter, Steel, Closed Swage Socket	143.69	4.79
05 15 16 00-0138	EA	9/16" Diameter, Steel, Closed Swage Socket	196.56	8.39
05 15 16 00-0139	EA	5/8" Diameter, Steel, Closed Swage Socket	202.26	9.58
05 15 16 00-0140	EA	3/4" Diameter, Steel, Closed Swage Socket	249.46	15.56
05 15 16 00-0141	EA	7/8" Diameter, Steel, Closed Swage Socket	321.73	22.75
05 15 16 00-0142	EA	1" Diameter, Steel, Closed Swage Socket	460.22	31.14
05 15 16 00-0143	EA	1-1/8" Diameter, Steel, Closed Swage Socket	569.42	43.12
05 15 16 00-0144	EA	1-1/4" Diameter, Steel, Closed Swage Socket	769.66	67.07

05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets *(05 15 16)*

05 15 16 00-0146	EA	1/4" Galvanized Steel, Open Spelter Socket	176.23	3.59
05 15 16 00-0147	EA	5/16" Galvanized Steel, Open Spelter Socket	180.54	3.59
05 15 16 00-0148	EA	3/8" Galvanized Steel, Open Spelter Socket	180.54	3.59
05 15 16 00-0149	EA	7/16" Galvanized Steel, Open Spelter Socket	201.00	7.19
05 15 16 00-0150	EA	1/2" Galvanized Steel, Open Spelter Socket	201.00	7.19
05 15 16 00-0151	EA	9/16" Galvanized Steel, Open Spelter Socket	262.84	11.98
05 15 16 00-0152	EA	5/8" Galvanized Steel, Open Spelter Socket	262.84	11.98
05 15 16 00-0153	EA	3/4" Galvanized Steel, Open Spelter Socket	332.03	17.96
05 15 16 00-0154	EA	7/8" Galvanized Steel, Open Spelter Socket	495.97	29.94
05 15 16 00-0155	EA	1" Galvanized Steel, Open Spelter Socket	904.31	46.70
05 15 16 00-0156	EA	1-1/8" Galvanized Steel, Open Spelter Socket	1,057.25	75.45
05 15 16 00-0157	EA	1-1/4" Galvanized Steel, Open Spelter Socket	1,429.44	99.41

05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets *(05 15 16)*

05 15 16 00-0159	EA	1/4" Galvanized Steel, Closed Spelter Socket	147.62	3.59
05 15 16 00-0160	EA	5/16" Galvanized Steel, Closed Spelter Socket	148.19	3.59
05 15 16 00-0161	EA	3/8" Galvanized Steel, Closed Spelter Socket	148.19	3.59
05 15 16 00-0162	EA	7/16" Galvanized Steel, Closed Spelter Socket	165.52	5.99
05 15 16 00-0163	EA	1/2" Galvanized Steel, Closed Spelter Socket	165.52	5.99
05 15 16 00-0164	EA	9/16" Galvanized Steel, Closed Spelter Socket	230.88	10.78
05 15 16 00-0165	EA	5/8" Galvanized Steel, Closed Spelter Socket	230.88	10.78
05 15 16 00-0166	EA	3/4" Galvanized Steel, Closed Spelter Socket	282.28	15.56
05 15 16 00-0167	EA	7/8" Galvanized Steel, Closed Spelter Socket	411.89	23.95
05 15 16 00-0168	EA	1" Galvanized Steel, Closed Spelter Socket	621.67	37.13
05 15 16 00-0169	EA	1-1/8" Galvanized Steel, Closed Spelter Socket	813.58	50.30
05 15 16 00-0170	EA	1-1/4" Galvanized Steel, Closed Spelter Socket	1,023.98	67.07

05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles *(05 15 16)*

05 15 16 00-0172	EA	1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle	101.25	3.59
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-13.39*	
05 15 16 00-0173	EA	5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle	108.68	3.59
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-14.51*	
05 15 16 00-0174	EA	3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	122.43	3.59
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-16.57*	
05 15 16 00-0175	EA	1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle	135.03	4.79
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-17.24*	
05 15 16 00-0176	EA	1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle	177.86	5.99
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-22.94*	
05 15 16 00-0177	EA	1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	202.00	7.19
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-25.97*	
05 15 16 00-0178	EA	5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	204.88	9.58
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-25.20*	
05 15 16 00-0179	EA	5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle	254.06	9.58
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-32.12*	
05 15 16 00-0180	EA	5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle	288.73	10.78
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-36.89*	
05 15 16 00-0181	EA	3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle	276.14	13.18
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-33.78*	
05 15 16 00-0182	EA	3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle	313.84	15.56
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-37.62*	
05 15 16 00-0183	EA	3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle	388.57	16.76
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-48.02*	
05 15 16 00-0184	EA	3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle	467.43	20.36
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-57.73*	
05 15 16 00-0185	EA	7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle	529.92	28.74
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-62.38*	
05 15 16 00-0186	EA	7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle	643.32	33.54
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-76.54*	
05 15 16 00-0187	EA	1" x 6", Forged Steel, Jaw And Jaw Turnbuckle	550.96	28.74
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-65.54*	
05 15 16 00-0188	EA	1" x 12", Forged Steel, Jaw And Jaw Turnbuckle	628.39	37.13
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-71.80*	
05 15 16 00-0189	EA	1" x 18", Forged Steel, Jaw And Jaw Turnbuckle	863.86	46.70
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-101.94*	
05 15 16 00-0190	EA	1" x 24", Forged Steel, Jaw And Jaw Turnbuckle	964.78	55.09
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-112.05*	
05 15 16 00-0191	EA	1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle	1,072.53	67.07
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-120.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0192	EA	1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle	1,297.28	75.45
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-149.68*	
05 15 16 00-0193	EA	1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle	1,685.25	86.23
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-201.46*	
05 15 16 00-0194	EA	1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	1,663.02	92.22
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-194.18*	
05 15 16 00-0195	EA	1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle	1,822.13	119.76
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-201.46*	
05 15 16 00-0196	EA	1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle	3,309.24	155.69
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-406.56*	
05 15 16 00-0197	EA	2" x 24", Forged Steel, Jaw And Jaw Turnbuckle	5,404.83	299.41
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	*-631.08*	

05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts *(05 15 16)*

05 15 16 00-0199	EA	1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	21.72
05 15 16 00-0200	EA	5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	21.82
05 15 16 00-0201	EA	3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	24.62
05 15 16 00-0202	EA	7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	29.41
05 15 16 00-0203	EA	1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	29.28
05 15 16 00-0204	EA	5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	40.09
05 15 16 00-0205	EA	3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	48.21
05 15 16 00-0206	EA	7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	65.21
05 15 16 00-0207	EA	1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	87.57
05 15 16 00-0208	EA	1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	127.55
05 15 16 00-0209	EA	1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	151.78
05 15 16 00-0210	EA	1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	276.18
05 15 16 00-0211	EA	1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	316.78
05 15 16 00-0212	EA	2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	391.85

05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts *(05 15 16)*

05 15 16 00-0214	EA	1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	28.62
05 15 16 00-0215	EA	1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	25.80
05 15 16 00-0216	EA	5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	35.09
05 15 16 00-0217	EA	5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	23.47
05 15 16 00-0218	EA	3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	31.78
05 15 16 00-0219	EA	3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	48.02
05 15 16 00-0220	EA	3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	46.53
05 15 16 00-0221	EA	3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	44.21
05 15 16 00-0222	EA	3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	39.60
05 15 16 00-0223	EA	3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	40.90
05 15 16 00-0224	EA	1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	36.11
05 15 16 00-0225	EA	1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	28.73
05 15 16 00-0226	EA	1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	37.50
05 15 16 00-0227	EA	1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	51.30
05 15 16 00-0228	EA	1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	38.89
05 15 16 00-0229	EA	1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	62.74
05 15 16 00-0230	EA	1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	55.19
05 15 16 00-0231	EA	1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	50.33
05 15 16 00-0232	EA	1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	59.25
05 15 16 00-0233	EA	5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	60.12
05 15 16 00-0234	EA	5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	53.50
05 15 16 00-0235	EA	5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	67.37
05 15 16 00-0236	EA	5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	77.28
05 15 16 00-0237	EA	5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	89.17
05 15 16 00-0238	EA	5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	73.61
05 15 16 00-0239	EA	3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	73.59
05 15 16 00-0240	EA	3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	75.05
05 15 16 00-0241	EA	3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	82.99
05 15 16 00-0242	EA	3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	89.53
05 15 16 00-0243	EA	3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	104.69
05 15 16 00-0244	EA	1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	138.71

05 15 19 Stainless Steel Wire Rope Assemblies *(05 15)*

05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable *(05 15 19)*

05 15 19 00-0002	LF	1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.30	0.08
		For >500, Deduct	*-0.03*	
05 15 19 00-0003	LF	3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.38	0.10
		For >500, Deduct	*-0.05*	
05 15 19 00-0004	LF	1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.49	0.11
		For >500, Deduct	*-0.06*	
05 15 19 00-0005	LF	5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.64	0.12
		For >500, Deduct	*-0.09*	
05 15 19 00-0006	LF	3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.79	0.12
		For >500, Deduct	*-0.11*	

05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable *(05 15 19)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 19 00-0008	LF	1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.55	0.11
		For >500, Deduct	*-0.08*	
05 15 19 00-0009	LF	5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.64	0.12
		For >500, Deduct	*-0.09*	
05 15 19 00-0010	LF	3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.75	0.12
		For >500, Deduct	*-0.11*	
05 15 19 00-0011	LF	1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.94	0.12
		For >500, Deduct	*-0.15*	
05 15 19 00-0012	LF	5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	1.43	0.12
		For >500, Deduct	*-0.22*	
05 15 19 00-0013	LF	3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	2.14	0.24
		For >500, Deduct	*-0.34*	

05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable *(05 15 19)*

05 15 19 00-0015	LF	1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.30	0.08
		For >500, Deduct	*-0.03*	
05 15 19 00-0016	LF	3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.38	0.10
		For >500, Deduct	*-0.05*	
05 15 19 00-0017	LF	1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.49	0.11
		For >500, Deduct	*-0.06*	
05 15 19 00-0018	LF	5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.64	0.12
		For >500, Deduct	*-0.09*	
05 15 19 00-0019	LF	3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.79	0.12
		For >500, Deduct	*-0.11*	

05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable *(05 15 19)*

05 15 19 00-0021	LF	1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.55	0.11
		For >500, Deduct	*-0.08*	
05 15 19 00-0022	LF	5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.64	0.12
		For >500, Deduct	*-0.09*	
05 15 19 00-0023	LF	3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.75	0.12
		For >500, Deduct	*-0.11*	
05 15 19 00-0024	LF	1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.94	0.12
		For >500, Deduct	*-0.15*	
05 15 19 00-0025	LF	5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.43	0.12
		For >500, Deduct	*-0.22*	
05 15 19 00-0026	LF	3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	2.14	0.12
		For >500, Deduct	*-0.34*	

05 20 Metal Joists *(05)*

Note: Includes all connecting bolts and welds.

05 21 Steel Joist Framing *(05 20)*

05 21 19 Open Web Steel Joist Framing *(05 21)*

05 21 19 00-0001	TON	H, J Or K Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging	2,879.01	212.10
		For Welded Cross Bridging, Add	*265.12*	
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	*239.43*	
05 21 19 00-0002	TON	H, J Or K Open Web Joist, >30' To 50' Span, Steel, Horizontal Bridging	2,638.30	198.84
		For Welded Cross Bridging, Add	*235.66*	
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	*222.33*	
05 21 19 00-0003	TON	LJ Or LH Open Web Joist, Up To 96' Span, Steel, Bolted Cross Bridging	3,163.86	198.84
		For Welded Cross Bridging, Add	*244.73*	
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	*281.77*	
05 21 19 00-0004	TON	DLJ Or DLH Open Web Joist, Up To 144' Span, Steel, Bolted Cross Bridging	3,581.30	198.84
		For Welded Cross Bridging, Add	*244.73*	
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	*331.86*	
05 21 19 00-0005	TON	CS Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging	3,179.65	198.84
		For Welded Cross Bridging, Add	*265.12*	
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	*275.51*	
05 21 19 00-0006	TON	SLH Open Web Joist, Up To 200' Span, Steel, Bolted Cross Bridging	3,946.56	198.84
		For Welded Cross Bridging, Add	*244.73*	
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	*375.70*	

05 30 Metal Decking *(05)*

Note: Includes all connecting bolts and welds.

05 31 Steel Decking *(05 30)*

See CSI section 03 30 00 00-0000 for concrete where required.

05 31 13 Steel Floor Decking *(05 31)*

Note: Floor or roof decking

05 31 13 00-0001 Open Ribbed Galvanized Steel Deck *(05 31 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0002	SF	1" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck	3.27	0.54
		For Painted, Deduct	*-0.13*	
		For Perforated Or Slotted, Add	*0.13*	
		For Site Installed Insulation Between Ribs, Add	*0.87*	
		For Up To 100, Add	*0.94*	
		For >100 To 500, Add	*0.53*	
		For >500 To 1,500, Add	*0.17*	
05 31 13 00-0003	SF	1" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	3.73	0.63
		For Painted, Deduct	*-0.15*	
		For Perforated Or Slotted, Add	*0.15*	
		For Site Installed Insulation Between Ribs, Add	*0.99*	
		For Up To 100, Add	*1.08*	
		For >100 To 500, Add	*0.61*	
		For >500 To 1,500, Add	*0.20*	
05 31 13 00-0004	SF	1" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	4.68	0.76
		For Painted, Deduct	*-0.19*	
		For Perforated Or Slotted, Add	*0.19*	
		For Site Installed Insulation Between Ribs, Add	*1.24*	
		For Up To 100, Add	*1.33*	
		For >100 To 500, Add	*0.76*	
		For >500 To 1,500, Add	*0.24*	
05 31 13 00-0005	SF	1-1/2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck	3.59	0.61
		For Painted, Deduct	*-0.14*	
		For Perforated Or Slotted, Add	*0.14*	
		For Site Installed Insulation Between Ribs, Add	*0.96*	
		For Up To 100, Add	*1.04*	
		For >100 To 500, Add	*0.59*	
		For >500 To 1,500, Add	*0.19*	
05 31 13 00-0006	SF	1-1/2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	4.13	0.70
		For Painted, Deduct	*-0.16*	
		For Perforated Or Slotted, Add	*0.16*	
		For Site Installed Insulation Between Ribs, Add	*1.10*	
		For Up To 100, Add	*1.20*	
		For >100 To 500, Add	*0.67*	
		For >500 To 1,500, Add	*0.22*	
05 31 13 00-0007	SF	1-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	5.19	0.85
		For Painted, Deduct	*-0.21*	
		For Perforated Or Slotted, Add	*0.21*	
		For Site Installed Insulation Between Ribs, Add	*1.38*	
		For Up To 100, Add	*1.48*	
		For >100 To 500, Add	*0.84*	
		For >500 To 1,500, Add	*0.27*	
05 31 13 00-0008	SF	2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck	4.06	0.64
		For Painted, Deduct	*-0.16*	
		For Perforated Or Slotted, Add	*0.16*	
		For Site Installed Insulation Between Ribs, Add	*1.08*	
		For Up To 100, Add	*1.13*	
		For >100 To 500, Add	*0.65*	
		For >500 To 1,500, Add	*0.20*	
05 31 13 00-0009	SF	2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	4.71	0.74
		For Painted, Deduct	*-0.19*	
		For Perforated Or Slotted, Add	*0.19*	
		For Site Installed Insulation Between Ribs, Add	*1.25*	
		For Up To 100, Add	*1.29*	
		For >100 To 500, Add	*0.74*	
		For >500 To 1,500, Add	*0.23*	
05 31 13 00-0010	SF	2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	5.80	0.83
		For Painted, Deduct	*-0.24*	
		For Perforated Or Slotted, Add	*0.24*	
		For Site Installed Insulation Between Ribs, Add	*1.53*	
		For Up To 100, Add	*1.52*	
		For >100 To 500, Add	*0.89*	
		For >500 To 1,500, Add	*0.26*	
05 31 13 00-0011	SF	2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	7.28	0.90
		For Painted, Deduct	*-0.31*	
		For Perforated Or Slotted, Add	*0.31*	
		For Site Installed Insulation Between Ribs, Add	*1.90*	
		For Up To 100, Add	*1.75*	
		For >100 To 500, Add	*1.07*	
		For >500 To 1,500, Add	*0.28*	
05 31 13 00-0012	SF	3" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck	4.53	0.68
		For Painted, Deduct	*-0.18*	
		For Perforated Or Slotted, Add	*0.18*	
		For Site Installed Insulation Between Ribs, Add	*1.20*	
		For Up To 100, Add	*1.21*	
		For >100 To 500, Add	*0.71*	
		For >500 To 1,500, Add	*0.21*	
05 31 13 00-0013	SF	3" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	5.29	0.76
		For Painted, Deduct	*-0.22*	
		For Perforated Or Slotted, Add	*0.22*	
		For Site Installed Insulation Between Ribs, Add	*1.39*	
		For Up To 100, Add	*1.39*	
		For >100 To 500, Add	*0.82*	
		For >500 To 1,500, Add	*0.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0014	SF	3" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	6.59	0.95
		For Painted, Deduct	*-0.27*	
		For Perforated Or Slotted, Add	*0.27*	
		For Site Installed Insulation Between Ribs, Add	*1.74*	
		For Up To 100, Add	*1.72*	
		For >100 To 500, Add	*1.01*	
		For >500 To 1,500, Add	*0.30*	
05 31 13 00-0015	SF	3" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	8.29	1.15
		For Painted, Deduct	*-0.34*	
		For Perforated Or Slotted, Add	*0.34*	
		For Site Installed Insulation Between Ribs, Add	*2.18*	
		For Up To 100, Add	*2.12*	
		For >100 To 500, Add	*1.26*	
		For >500 To 1,500, Add	*0.36*	
05 31 13 00-0016	SF	4-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	11.94	
		For Painted, Deduct	*-0.55*	
		For Perforated Or Slotted, Add	*0.55*	
		For Site Installed Insulation Between Ribs, Add	*3.06*	
		For Up To 100, Add	*2.13*	
		For >100 To 500, Add	*1.51*	
		For >500 To 1,500, Add	*0.26*	
05 31 13 00-0017	SF	4-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	15.04	0.95
		For Painted, Deduct	*-0.69*	
		For Perforated Or Slotted, Add	*0.69*	
		For Site Installed Insulation Between Ribs, Add	*3.85*	
		For Up To 100, Add	*2.57*	
		For >100 To 500, Add	*1.86*	
		For >500 To 1,500, Add	*0.30*	
05 31 13 00-0018	SF	6" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	13.97	0.95
		For Painted, Deduct	*-0.64*	
		For Perforated Or Slotted, Add	*0.64*	
		For Site Installed Insulation Between Ribs, Add	*3.58*	
		For Up To 100, Add	*2.46*	
		For >100 To 500, Add	*1.75*	
		For >500 To 1,500, Add	*0.30*	
05 31 13 00-0019	SF	6" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	14.66	1.15
		For Painted, Deduct	*-0.66*	
		For Perforated Or Slotted, Add	*0.66*	
		For Site Installed Insulation Between Ribs, Add	*3.77*	
		For Up To 100, Add	*2.75*	
		For >100 To 500, Add	*1.90*	
		For >500 To 1,500, Add	*0.36*	
05 31 13 00-0020	SF	6" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	18.31	1.39
		For Painted, Deduct	*-0.83*	
		For Perforated Or Slotted, Add	*0.83*	
		For Site Installed Insulation Between Ribs, Add	*4.71*	
		For Up To 100, Add	*3.41*	
		For >100 To 500, Add	*2.36*	
		For >500 To 1,500, Add	*0.44*	
05 31 13 00-0021	SF	7-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	16.21	1.26
		For Painted, Deduct	*-0.73*	
		For Perforated Or Slotted, Add	*0.73*	
		For Site Installed Insulation Between Ribs, Add	*4.17*	
		For Up To 100, Add	*3.04*	
		For >100 To 500, Add	*2.10*	
		For >500 To 1,500, Add	*0.40*	
05 31 13 00-0022	SF	7-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	20.19	1.53
		For Painted, Deduct	*-0.91*	
		For Perforated Or Slotted, Add	*0.91*	
		For Site Installed Insulation Between Ribs, Add	*5.19*	
		For Up To 100, Add	*3.74*	
		For >100 To 500, Add	*2.59*	
		For >500 To 1,500, Add	*0.48*	

05 31 13 00-0023 Cellular Galvanized Steel Deck *(05 31 13)*

Note: Cellular decking is made of a top ribbed sheet and a flat bottom sheet welded together to create hollow longitudinal cells within the panels.

05 31 13 00-0024	SF	1" Deep, 22/18 Gauge Cellular Galvanized Steel Deck	10.72	0.97
		For Painted, Deduct	*-0.48*	
		For Perforated Or Slotted, Add	*0.48*	
		For Insulated Cells, Add	*2.14*	
		For Site Installed Insulation Between Ribs, Add	*2.77*	
		For Up To 100, Add	*2.16*	
		For >100 To 500, Add	*1.44*	
		For >500 To 1,500, Add	*0.30*	
05 31 13 00-0025	SF	1" Deep, 18/18 Gauge Cellular Galvanized Steel Deck	11.68	1.28
		For Painted, Deduct	*-0.50*	
		For Perforated Or Slotted, Add	*0.50*	
		For Insulated Cells, Add	*2.27*	
		For Site Installed Insulation Between Ribs, Add	*3.04*	
		For Up To 100, Add	*2.62*	
		For >100 To 500, Add	*1.65*	
		For >500 To 1,500, Add	*0.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0026	SF	1-1/2" Deep, 22/18 Gauge Cellular Galvanized Steel Deck	13.15	1.02
		For Painted, Deduct	*-0.59*	
		For Perforated Or Slotted, Add	*0.59*	
		For Insulated Cells, Add	*2.67*	
		For Site Installed Insulation Between Ribs, Add	*3.38*	
		For Up To 100, Add	*2.46*	
		For >100 To 500, Add	*1.70*	
		For >500 To 1,500, Add	*0.32*	
05 31 13 00-0027	SF	1-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck	14.25	1.35
		For Painted, Deduct	*-0.63*	
		For Perforated Or Slotted, Add	*0.63*	
		For Insulated Cells, Add	*2.83*	
		For Site Installed Insulation Between Ribs, Add	*3.69*	
		For Up To 100, Add	*2.95*	
		For >100 To 500, Add	*1.93*	
		For >500 To 1,500, Add	*0.42*	
05 31 13 00-0028	SF	3" Deep, 20/18 Gauge Cellular Galvanized Steel Deck	15.06	1.24
		For Painted, Deduct	*-0.68*	
		For Perforated Or Slotted, Add	*0.68*	
		For Insulated Cells, Add	*3.05*	
		For Site Installed Insulation Between Ribs, Add	*3.88*	
		For Up To 100, Add	*2.87*	
		For >100 To 500, Add	*1.96*	
		For >500 To 1,500, Add	*0.38*	
05 31 13 00-0029	SF	3" Deep, 18/18 Gauge Cellular Galvanized Steel Deck	18.00	1.42
		For Painted, Deduct	*-0.81*	
		For Perforated Or Slotted, Add	*0.81*	
		For Insulated Cells, Add	*3.65*	
		For Site Installed Insulation Between Ribs, Add	*4.63*	
		For Up To 100, Add	*3.40*	
		For >100 To 500, Add	*2.33*	
		For >500 To 1,500, Add	*0.45*	
05 31 13 00-0030	SF	3" Deep, 18/16 Gauge Cellular Galvanized Steel Deck	20.17	1.53
		For Painted, Deduct	*-0.91*	
		For Perforated Or Slotted, Add	*0.91*	
		For Insulated Cells, Add	*4.11*	
		For Site Installed Insulation Between Ribs, Add	*5.19*	
		For Up To 100, Add	*3.74*	
		For >100 To 500, Add	*2.59*	
		For >500 To 1,500, Add	*0.48*	
05 31 13 00-0031	SF	3" Deep, 16/16 Gauge Cellular Galvanized Steel Deck	21.81	1.65
		For Painted, Deduct	*-0.99*	
		For Perforated Or Slotted, Add	*0.99*	
		For Insulated Cells, Add	*4.45*	
		For Site Installed Insulation Between Ribs, Add	*5.61*	
		For Up To 100, Add	*4.03*	
		For >100 To 500, Add	*2.80*	
		For >500 To 1,500, Add	*0.51*	
05 31 13 00-0032	SF	4-1/2" Deep, 20/18 Gauge Cellular Galvanized Steel Deck	23.30	1.24
		For Painted, Deduct	*-1.09*	
		For Perforated Or Slotted, Add	*1.09*	
		For Insulated Cells, Add	*4.90*	
		For Site Installed Insulation Between Ribs, Add	*5.94*	
		For Up To 100, Add	*3.72*	
		For >100 To 500, Add	*2.79*	
		For >500 To 1,500, Add	*0.39*	
05 31 13 00-0033	SF	4-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck	24.80	1.44
		For Painted, Deduct	*-1.15*	
		For Perforated Or Slotted, Add	*1.15*	
		For Insulated Cells, Add	*5.18*	
		For Site Installed Insulation Between Ribs, Add	*6.33*	
		For Up To 100, Add	*4.10*	
		For >100 To 500, Add	*3.02*	
		For >500 To 1,500, Add	*0.45*	
05 31 13 00-0034	SF	4-1/2" Deep, 18/16 Gauge Cellular Galvanized Steel Deck	26.21	1.55
		For Painted, Deduct	*-1.21*	
		For Perforated Or Slotted, Add	*1.21*	
		For Insulated Cells, Add	*5.46*	
		For Site Installed Insulation Between Ribs, Add	*6.70*	
		For Up To 100, Add	*4.37*	
		For >100 To 500, Add	*3.20*	
		For >500 To 1,500, Add	*0.49*	
05 31 13 00-0035	SF	4-1/2" Deep, 16/16 Gauge Cellular Galvanized Steel Deck	27.95	1.67
		For Painted, Deduct	*-1.29*	
		For Perforated Or Slotted, Add	*1.29*	
		For Insulated Cells, Add	*5.82*	
		For Site Installed Insulation Between Ribs, Add	*7.14*	
		For Up To 100, Add	*4.67*	
		For >100 To 500, Add	*3.42*	
		For >500 To 1,500, Add	*0.52*	

05 31 23 Steel Roof Decking *(05 31)*

See CSI section 05 31 13 00-0000 for Steel floor or roof decking.

05 31 33 Steel Form Decking *(05 31)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 33 00-0001		**Open Ribbed Galvanized Steel Form Deck** *(05 31 33)*		
05 31 33 00-0002	SF	9/16" Deep, 28 Gauge Open Ribbed Galvanized Steel Form Deck	2.99	
		For Painted, Deduct	*-0.10*	
		For Perforated Or Slotted, Add	*0.10*	
		For Up To 100, Add	*1.22*	
		For >100 To 500, Add	*0.61*	
		For >500 To 1,500, Add	*0.26*	
05 31 33 00-0003	SF	9/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck	3.16	
		For Painted, Deduct	*-0.10*	
		For Perforated Or Slotted, Add	*0.10*	
		For Up To 100, Add	*1.28*	
		For >100 To 500, Add	*0.64*	
		For >500 To 1,500, Add	*0.27*	
05 31 33 00-0004	SF	9/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck	3.51	
		For Painted, Deduct	*-0.11*	
		For Perforated Or Slotted, Add	*0.11*	
		For Up To 100, Add	*1.47*	
		For >100 To 500, Add	*0.72*	
		For >500 To 1,500, Add	*0.31*	
05 31 33 00-0005	SF	9/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck	3.80	
		For Painted, Deduct	*-0.12*	
		For Perforated Or Slotted, Add	*0.12*	
		For Up To 100, Add	*1.65*	
		For >100 To 500, Add	*0.80*	
		For >500 To 1,500, Add	*0.35*	
05 31 33 00-0006	SF	15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck	3.57	
		For Painted, Deduct	*-0.13*	
		For Perforated Or Slotted, Add	*0.13*	
		For Up To 100, Add	*1.32*	
		For >100 To 500, Add	*0.68*	
		For >500 To 1,500, Add	*0.27*	
05 31 33 00-0007	SF	15/16" Deep, 25 Gauge Open Ribbed Galvanized Steel Form Deck	3.76	
		For Painted, Deduct	*-0.13*	
		For Perforated Or Slotted, Add	*0.13*	
		For Up To 100, Add	*1.39*	
		For >100 To 500, Add	*0.72*	
		For >500 To 1,500, Add	*0.28*	
05 31 33 00-0008	SF	15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck	3.96	
		For Painted, Deduct	*-0.14*	
		For Perforated Or Slotted, Add	*0.14*	
		For Up To 100, Add	*1.51*	
		For >100 To 500, Add	*0.77*	
		For >500 To 1,500, Add	*0.31*	
05 31 33 00-0009	SF	15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck	4.23	
		For Painted, Deduct	*-0.14*	
		For Perforated Or Slotted, Add	*0.14*	
		For Up To 100, Add	*1.69*	
		For >100 To 500, Add	*0.85*	
		For >500 To 1,500, Add	*0.35*	
05 31 33 00-0010	SF	1-15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck	4.45	
		For Painted, Deduct	*-0.15*	
		For Perforated Or Slotted, Add	*0.15*	
		For Up To 100, Add	*1.76*	
		For >100 To 500, Add	*0.88*	
		For >500 To 1,500, Add	*0.37*	
05 31 33 00-0011	SF	1-15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck	4.86	
		For Painted, Deduct	*-0.17*	
		For Perforated Or Slotted, Add	*0.17*	
		For Up To 100, Add	*1.85*	
		For >100 To 500, Add	*0.94*	
		For >500 To 1,500, Add	*0.38*	
05 31 33 00-0012	SF	1-15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck	5.57	
		For Painted, Deduct	*-0.20*	
		For Perforated Or Slotted, Add	*0.20*	
		For Up To 100, Add	*2.03*	
		For >100 To 500, Add	*1.05*	
		For >500 To 1,500, Add	*0.41*	
05 31 33 00-0013	SF	1-15/16" Deep, 20 Gauge Open Ribbed Galvanized Steel Form Deck	6.17	
		For Painted, Deduct	*-0.22*	
		For Perforated Or Slotted, Add	*0.22*	
		For Up To 100, Add	*2.29*	
		For >100 To 500, Add	*1.18*	
		For >500 To 1,500, Add	*0.47*	

05 36 Composite Metal Decking *(05 30)*

See CSI section 03 30 00 00-0000 for concrete.

05 36 00 00-0001		**Composite Open Ribbed Galvanized Steel Deck** *(05 36)*		
		Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab.		
05 36 00 00-0002	SF	1-1/2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck	4.50	
		For Painted, Deduct	*-0.15*	
		For Perforated Or Slotted, Add	*0.15*	
		For Up To 100, Add	*1.76*	
		For >100 To 500, Add	*0.89*	
		For >500 To 1,500, Add	*0.37*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0003	SF	1-1/2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck	4.82	
		For Painted, Deduct	*-0.16*	
		For Perforated Or Slotted, Add	*0.16*	
		For Up To 100, Add	*1.96*	
		For >100 To 500, Add	*0.97*	
		For >500 To 1,500, Add	*0.41*	
05 36 00 00-0004	SF	1-1/2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck	5.40	
		For Painted, Deduct	*-0.17*	
		For Perforated Or Slotted, Add	*0.17*	
		For Up To 100, Add	*2.37*	
		For >100 To 500, Add	*1.15*	
		For >500 To 1,500, Add	*0.51*	
05 36 00 00-0005	SF	1-1/2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck	5.89	
		For Painted, Deduct	*-0.17*	
		For Perforated Or Slotted, Add	*0.17*	
		For Up To 100, Add	*2.77*	
		For >100 To 500, Add	*1.32*	
		For >500 To 1,500, Add	*0.61*	
05 36 00 00-0006	SF	2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck	4.82	
		For Painted, Deduct	*-0.16*	
		For Perforated Or Slotted, Add	*0.16*	
		For Up To 100, Add	*1.96*	
		For >100 To 500, Add	*0.97*	
		For >500 To 1,500, Add	*0.41*	
05 36 00 00-0007	SF	2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck	5.20	
		For Painted, Deduct	*-0.17*	
		For Perforated Or Slotted, Add	*0.17*	
		For Up To 100, Add	*2.14*	
		For >100 To 500, Add	*1.06*	
		For >500 To 1,500, Add	*0.45*	
05 36 00 00-0008	SF	2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck	5.78	
		For Painted, Deduct	*-0.18*	
		For Perforated Or Slotted, Add	*0.18*	
		For Up To 100, Add	*2.56*	
		For >100 To 500, Add	*1.24*	
		For >500 To 1,500, Add	*0.55*	
05 36 00 00-0009	SF	2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck	6.32	
		For Painted, Deduct	*-0.19*	
		For Perforated Or Slotted, Add	*0.19*	
		For Up To 100, Add	*2.96*	
		For >100 To 500, Add	*1.41*	
		For >500 To 1,500, Add	*0.65*	
05 36 00 00-0010	SF	3" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck	5.06	
		For Painted, Deduct	*-0.17*	
		For Perforated Or Slotted, Add	*0.17*	
		For Up To 100, Add	*2.03*	
		For >100 To 500, Add	*1.01*	
		For >500 To 1,500, Add	*0.42*	
05 36 00 00-0011	SF	3" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck	5.42	
		For Painted, Deduct	*-0.18*	
		For Perforated Or Slotted, Add	*0.18*	
		For Up To 100, Add	*2.26*	
		For >100 To 500, Add	*1.12*	
		For >500 To 1,500, Add	*0.48*	
05 36 00 00-0012	SF	3" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck	6.10	
		For Painted, Deduct	*-0.19*	
		For Perforated Or Slotted, Add	*0.19*	
		For Up To 100, Add	*2.74*	
		For >100 To 500, Add	*1.32*	
		For >500 To 1,500, Add	*0.59*	
05 36 00 00-0013	SF	3" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck	6.80	
		For Painted, Deduct	*-0.20*	
		For Perforated Or Slotted, Add	*0.20*	
		For Up To 100, Add	*3.21*	
		For >100 To 500, Add	*1.52*	
		For >500 To 1,500, Add	*0.70*	

05 36 00 00-0014 Composite Cellular Galvanized Steel Deck *(05 36)*

Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab. Cellular decking is made of a top ribbed sheet and a bottom flat sheet welded together to create hollow longitudinal cells within the panels.

05 36 00 00-0015	SF	1-1/2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck	8.25	
		For Painted, Deduct	*-0.28*	
		For Perforated Or Slotted, Add	*0.28*	
		For Insulated Cells, Add	*1.26*	
		For Up To 100, Add	*3.21*	
		For >100 To 500, Add	*1.62*	
		For >500 To 1,500, Add	*0.66*	
05 36 00 00-0016	SF	1-1/2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck	8.82	
		For Painted, Deduct	*-0.29*	
		For Perforated Or Slotted, Add	*0.29*	
		For Insulated Cells, Add	*1.33*	
		For Up To 100, Add	*3.52*	
		For >100 To 500, Add	*1.76*	
		For >500 To 1,500, Add	*0.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0017	SF	1-1/2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck	8.93	
		For Painted, Deduct	*-0.29*	
		For Perforated Or Slotted, Add	*0.29*	
		For Insulated Cells, Add	*1.33*	
		For Up To 100, Add	*3.63*	
		For >100 To 500, Add	*1.81*	
		For >500 To 1,500, Add	*0.76*	
05 36 00 00-0018	SF	1-1/2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck	9.49	
		For Painted, Deduct	*-0.31*	
		For Perforated Or Slotted, Add	*0.31*	
		For Insulated Cells, Add	*1.37*	
		For Up To 100, Add	*3.99*	
		For >100 To 500, Add	*1.96*	
		For >500 To 1,500, Add	*0.85*	
05 36 00 00-0019	SF	1-1/2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck	10.17	
		For Painted, Deduct	*-0.33*	
		For Perforated Or Slotted, Add	*0.33*	
		For Insulated Cells, Add	*1.46*	
		For Up To 100, Add	*4.31*	
		For >100 To 500, Add	*2.12*	
		For >500 To 1,500, Add	*0.92*	
05 36 00 00-0020	SF	1-1/2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck	10.28	
		For Painted, Deduct	*-0.33*	
		For Perforated Or Slotted, Add	*0.33*	
		For Insulated Cells, Add	*1.46*	
		For Up To 100, Add	*4.42*	
		For >100 To 500, Add	*2.16*	
		For >500 To 1,500, Add	*0.94*	
05 36 00 00-0021	SF	1-1/2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck	10.85	
		For Painted, Deduct	*-0.34*	
		For Perforated Or Slotted, Add	*0.34*	
		For Insulated Cells, Add	*1.51*	
		For Up To 100, Add	*4.79*	
		For >100 To 500, Add	*2.32*	
		For >500 To 1,500, Add	*1.03*	
05 36 00 00-0022	SF	2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck	8.52	
		For Painted, Deduct	*-0.29*	
		For Perforated Or Slotted, Add	*0.29*	
		For Insulated Cells, Add	*1.28*	
		For Up To 100, Add	*3.38*	
		For >100 To 500, Add	*1.70*	
		For >500 To 1,500, Add	*0.70*	
05 36 00 00-0023	SF	2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck	9.00	
		For Painted, Deduct	*-0.30*	
		For Perforated Or Slotted, Add	*0.30*	
		For Insulated Cells, Add	*1.34*	
		For Up To 100, Add	*3.64*	
		For >100 To 500, Add	*1.81*	
		For >500 To 1,500, Add	*0.76*	
05 36 00 00-0024	SF	2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck	9.11	
		For Painted, Deduct	*-0.30*	
		For Perforated Or Slotted, Add	*0.30*	
		For Insulated Cells, Add	*1.34*	
		For Up To 100, Add	*3.75*	
		For >100 To 500, Add	*1.86*	
		For >500 To 1,500, Add	*0.79*	
05 36 00 00-0025	SF	2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck	9.79	
		For Painted, Deduct	*-0.31*	
		For Perforated Or Slotted, Add	*0.31*	
		For Insulated Cells, Add	*1.42*	
		For Up To 100, Add	*4.13*	
		For >100 To 500, Add	*2.03*	
		For >500 To 1,500, Add	*0.88*	
05 36 00 00-0026	SF	2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck	10.35	
		For Painted, Deduct	*-0.33*	
		For Perforated Or Slotted, Add	*0.33*	
		For Insulated Cells, Add	*1.48*	
		For Up To 100, Add	*4.43*	
		For >100 To 500, Add	*2.17*	
		For >500 To 1,500, Add	*0.94*	
05 36 00 00-0027	SF	2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck	10.52	
		For Painted, Deduct	*-0.33*	
		For Perforated Or Slotted, Add	*0.33*	
		For Insulated Cells, Add	*1.48*	
		For Up To 100, Add	*4.60*	
		For >100 To 500, Add	*2.23*	
		For >500 To 1,500, Add	*0.99*	
05 36 00 00-0028	SF	2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck	11.11	
		For Painted, Deduct	*-0.34*	
		For Perforated Or Slotted, Add	*0.34*	
		For Insulated Cells, Add	*1.55*	
		For Up To 100, Add	*4.92*	
		For >100 To 500, Add	*2.38*	
		For >500 To 1,500, Add	*1.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0029	SF	3" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck	8.55	
		For Painted, Deduct	*-0.29*	
		For Perforated Or Slotted, Add	*0.29*	
		For Insulated Cells, Add	*1.29*	
		For Up To 100, Add	*3.38*	
		For >100 To 500, Add	*1.70*	
		For >500 To 1,500, Add	*0.70*	
05 36 00 00-0030	SF	3" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck	9.06	
		For Painted, Deduct	*-0.30*	
		For Perforated Or Slotted, Add	*0.30*	
		For Insulated Cells, Add	*1.34*	
		For Up To 100, Add	*3.70*	
		For >100 To 500, Add	*1.84*	
		For >500 To 1,500, Add	*0.78*	
05 36 00 00-0031	SF	3" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck	9.23	
		For Painted, Deduct	*-0.30*	
		For Perforated Or Slotted, Add	*0.30*	
		For Insulated Cells, Add	*1.34*	
		For Up To 100, Add	*3.87*	
		For >100 To 500, Add	*1.90*	
		For >500 To 1,500, Add	*0.82*	
05 36 00 00-0032	SF	3" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck	9.88	
		For Painted, Deduct	*-0.32*	
		For Perforated Or Slotted, Add	*0.32*	
		For Insulated Cells, Add	*1.42*	
		For Up To 100, Add	*4.18*	
		For >100 To 500, Add	*2.05*	
		For >500 To 1,500, Add	*0.89*	
05 36 00 00-0033	SF	3" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck	10.52	
		For Painted, Deduct	*-0.33*	
		For Perforated Or Slotted, Add	*0.33*	
		For Insulated Cells, Add	*1.51*	
		For Up To 100, Add	*4.50*	
		For >100 To 500, Add	*2.20*	
		For >500 To 1,500, Add	*0.96*	
05 36 00 00-0034	SF	3" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck	10.74	
		For Painted, Deduct	*-0.33*	
		For Perforated Or Slotted, Add	*0.33*	
		For Insulated Cells, Add	*1.51*	
		For Up To 100, Add	*4.72*	
		For >100 To 500, Add	*2.29*	
		For >500 To 1,500, Add	*1.01*	
05 36 00 00-0035	SF	3" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck	11.22	
		For Painted, Deduct	*-0.34*	
		For Perforated Or Slotted, Add	*0.34*	
		For Insulated Cells, Add	*1.55*	
		For Up To 100, Add	*5.03*	
		For >100 To 500, Add	*2.42*	
		For >500 To 1,500, Add	*1.09*	

05 36 00 00-0036 Non-Cellular, Composite Deck, Galvanized *(05 36)*

05 36 00 00-0037	SF	1" Deep x 16 Gauge Composite Metal Deck Galvanized, Non-Cellular	6.29	
05 36 00 00-0038	SF	1" Deep x 18 Gauge Composite Metal Deck Galvanized, Non-Cellular	5.18	
05 36 00 00-0039	SF	1" Deep x 20 Gauge Composite Metal Deck Galvanized, Non-Cellular	4.30	
05 36 00 00-0040	SF	1" Deep x 22 Gauge Composite Metal Deck Galvanized, Non-Cellular	3.71	
05 36 00 00-0041	SF	1-1/2" Deep x 16 Gauge Composite Metal Deck Galvanized, Non-Cellular	6.92	
05 36 00 00-0042	SF	1-1/2" Deep x 18 Gauge Composite Metal Deck Galvanized, Non-Cellular	5.64	
05 36 00 00-0043	SF	1-1/2" Deep x 20 Gauge Composite Metal Deck Galvanized, Non-Cellular	4.68	
05 36 00 00-0044	SF	1-1/2" Deep x 22 Gauge Composite Metal Deck Galvanized, Non-Cellular	4.05	
05 36 00 00-0045	SF	3" Deep x 16 Gauge Composite Metal Deck Galvanized, Non-Cellular	7.99	
05 36 00 00-0046	SF	3" Deep x 18 Gauge Composite Metal Deck Galvanized, Non-Cellular	6.40	
05 36 00 00-0047	SF	3" Deep x 20 Gauge Composite Metal Deck Galvanized, Non-Cellular	5.38	
05 36 00 00-0048	SF	3" Deep x 22 Gauge Composite Metal Deck Galvanized, Non-Cellular	4.86	

05 40 Cold-Formed Metal Framing *(05)*

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing *(05 40)*

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assemblies *(05 41)*

05 41 00 00-0002	SF	2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	7.27	1.22
		For Walls >10' High, Add	*1.45*	
		For Curved Wall, Add	*0.85*	
		For Up To 200, Add	*2.02*	
		For >200 To 500, Add	*1.01*	
		For 12" On Center, Add	*1.31*	
		For 24" On Center, Deduct	*-1.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0003	SF	3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	8.19	1.22
		For Walls >10' High, Add	*1.64*	
		For Curved Wall, Add	*0.89*	
		For Up To 200, Add	*2.23*	
		For >200 To 500, Add	*1.12*	
		For 12" On Center, Add	*1.49*	
		For 24" On Center, Deduct	*-1.49*	
05 41 00 00-0004	SF	4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	8.54	1.22
		For Walls >10' High, Add	*1.71*	
		For Curved Wall, Add	*0.93*	
		For Up To 200, Add	*2.33*	
		For >200 To 500, Add	*1.16*	
		For 12" On Center, Add	*1.55*	
		For 24" On Center, Deduct	*-1.55*	
05 41 00 00-0005	SF	6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	11.10	1.35
		For Walls >10' High, Add	*2.22*	
		For Curved Wall, Add	*0.97*	
		For Up To 200, Add	*2.86*	
		For >200 To 500, Add	*1.43*	
		For 12" On Center, Add	*2.06*	
		For 24" On Center, Deduct	*-2.06*	
05 41 00 00-0006	SF	8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	12.49	1.48
		For Walls >10' High, Add	*2.50*	
		For Curved Wall, Add	*1.01*	
		For Up To 200, Add	*3.17*	
		For >200 To 500, Add	*1.59*	
		For 12" On Center, Add	*2.33*	
		For 24" On Center, Deduct	*-2.33*	

05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assemblies *(05 41)*

05 41 00 00-0008	SF	2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	7.84	1.22
		For Walls >10' High, Add	*1.57*	
		For Curved Wall, Add	*0.89*	
		For Up To 200, Add	*2.16*	
		For >200 To 500, Add	*1.08*	
		For 12" On Center, Add	*1.42*	
		For 24" On Center, Deduct	*-1.42*	
05 41 00 00-0009	SF	3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	9.18	1.23
		For Walls >10' High, Add	*1.84*	
		For Curved Wall, Add	*0.94*	
		For Up To 200, Add	*2.46*	
		For >200 To 500, Add	*1.23*	
		For 12" On Center, Add	*1.68*	
		For 24" On Center, Deduct	*-1.68*	
05 41 00 00-0010	SF	4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	9.70	1.23
		For Walls >10' High, Add	*1.94*	
		For Curved Wall, Add	*0.97*	
		For Up To 200, Add	*2.59*	
		For >200 To 500, Add	*1.29*	
		For 12" On Center, Add	*1.78*	
		For 24" On Center, Deduct	*-1.78*	
05 41 00 00-0011	SF	6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	12.50	1.48
		For Walls >10' High, Add	*2.50*	
		For Curved Wall, Add	*1.02*	
		For Up To 200, Add	*3.18*	
		For >200 To 500, Add	*1.59*	
		For 12" On Center, Add	*2.33*	
		For 24" On Center, Deduct	*-2.33*	
05 41 00 00-0012	SF	8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	13.85	1.62
		For Walls >10' High, Add	*2.77*	
		For Curved Wall, Add	*1.07*	
		For Up To 200, Add	*3.48*	
		For >200 To 500, Add	*1.74*	
		For 12" On Center, Add	*2.59*	
		For 24" On Center, Deduct	*-2.59*	

05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assemblies *(05 41)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0014	SF	3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	10.90	1.68
		For Walls >10' High, Add	*2.18*	
		For Curved Wall, Add	*1.12*	
		For Up To 200, Add	*2.93*	
		For >200 To 500, Add	*1.46*	
		For 12" On Center, Add	*1.99*	
		For 24" On Center, Deduct	*-1.99*	
05 41 00 00-0015	SF	4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	11.22	1.71
		For Walls >10' High, Add	*2.24*	
		For Curved Wall, Add	*1.14*	
		For Up To 200, Add	*3.01*	
		For >200 To 500, Add	*1.50*	
		For 12" On Center, Add	*2.05*	
		For 24" On Center, Deduct	*-2.05*	
05 41 00 00-0016	SF	6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	14.34	1.80
		For Walls >10' High, Add	*2.87*	
		For Curved Wall, Add	*1.20*	
		For Up To 200, Add	*3.67*	
		For >200 To 500, Add	*1.83*	
		For 12" On Center, Add	*2.67*	
		For 24" On Center, Deduct	*-2.67*	
05 41 00 00-0017	SF	8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	15.81	1.88
		For Walls >10' High, Add	*3.16*	
		For Curved Wall, Add	*1.25*	
		For Up To 200, Add	*4.00*	
		For >200 To 500, Add	*2.00*	
		For 12" On Center, Add	*2.95*	
		For 24" On Center, Deduct	*-2.95*	

05 42 Cold-Formed Metal Joist Framing *(05 40)*

05 42 13 Cold-Formed Metal Floor Joist Framing *(05 42)*

Note: Floor or roof joist framing

05 42 13 00-0001 Steel Joists, 20 Gauge *(05 42 13)*

05 42 13 00-0002	LF	5-1/2" - 20 Gauge Steel Joists	15.88	2.89
05 42 13 00-0003	LF	6" - 20 Gauge Steel Joists	17.11	3.64
05 42 13 00-0004	LF	7-1/4" - 20 Gauge Steel Joists	18.52	3.98
05 42 13 00-0005	LF	8" - 20 Gauge Steel Joists	20.91	4.24

05 42 13 00-0006 Steel Joists, 18 Gauge *(05 42 13)*

05 42 13 00-0007	LF	5-1/2" - 18 Gauge Steel Joists	17.72	3.21
05 42 13 00-0008	LF	6" - 18 Gauge Steel Joists	19.11	4.04
05 42 13 00-0009	LF	7-1/4" - 18 Gauge Steel Joists	20.76	4.43
05 42 13 00-0010	LF	8" - 18 Gauge Steel Joists	21.31	4.71

05 42 13 00-0011 Steel Joists, 16 Gauge *(05 42 13)*

05 42 13 00-0012	LF	7-1/4" - 16 Gauge Steel Joists	22.63	4.47
05 42 13 00-0013	LF	8" - 16 Gauge Steel Joists	23.91	4.71

05 42 13 00-0014 Steel Joists, 14 Gauge *(05 42 13)*

05 42 13 00-0015	LF	9-1/4" - 14 Gauge Steel Joists	27.28	4.71
05 42 13 00-0016	LF	11-1/2" - 14 Gauge Steel Joists	29.72	4.96

05 42 13 00-0017 Steel Joists, 12 Gauge *(05 42 13)*

05 42 13 00-0018	LF	9-1/4" - 12 Gauge Steel Joists	32.71	5.18
05 42 13 00-0019	LF	11-1/2" - 12 Gauge Steel Joists	35.88	5.46

05 42 13 00-0020 Steel Joists, 10 Gauge *(05 42 13)*

05 42 13 00-0021	LF	9-1/4" - 10 Gauge Steel Joists	38.21	5.70
05 42 13 00-0022	LF	11-1/2" - 10 Gauge Steel Joists	42.12	6.00

05 42 13 00-0023 Steel Joists, 8 Gauge *(05 42 13)*

05 42 13 00-0024	LF	9-1/4" - 8 Gauge Steel Joists	43.79	6.27
05 42 13 00-0025	LF	11-1/2" - 8 Gauge Steel Joists	48.41	6.61

05 42 23 Cold-Formed Metal Roof Joist Framing *(05 42)*

See CSI section 05 42 13 00-0000 for metal joist framing.

05 43 Slotted Channel Framing *(05 40)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0001		**Metal Framing Channel** *(05 43)* Note: Excludes fasteners and accessories.		
05 43 00 00-0002		**Steel Unistrut Channel** *(05 43 00 00-0001)*		
05 43 00 00-0003	LF	1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	14.59	2.70
		For Powder Coating, Add	*1.38*	
		For Galvanizing, Add	*1.56*	
05 43 00 00-0004	LF	1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	15.04	2.70
		For Powder Coating, Add	*1.44*	
		For Galvanizing, Add	*1.64*	
05 43 00 00-0005	LF	1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	15.72	2.70
		For Powder Coating, Add	*1.55*	
		For Galvanizing, Add	*1.75*	
05 43 00 00-0006	LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	13.70	2.70
		For Powder Coating, Add	*1.24*	
		For Galvanizing, Add	*1.41*	
05 43 00 00-0007	LF	1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	11.75	2.70
		For Powder Coating, Add	*0.95*	
		For Galvanizing, Add	*1.08*	
05 43 00 00-0008		**Stainless Steel Unistrut Channel** *(05 43 00 00-0001)*		
05 43 00 00-0009		**304 Stainless Steel Unistrut Channel** *(05 43 00 00-0008)*		
05 43 00 00-0010	LF	1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	25.53	2.70
05 43 00 00-0011	LF	1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	30.44	2.70
05 43 00 00-0012	LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	29.22	2.70
05 43 00 00-0013	LF	1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	36.81	2.70
05 43 00 00-0014		**316 Stainless Steel Unistrut Channel** *(05 43 00 00-0008)*		
05 43 00 00-0015	LF	1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	41.47	2.70
05 43 00 00-0016		**Aluminum Unistrut Channel** *(05 43 00 00-0001)*		
05 43 00 00-0017	LF	1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel	14.01	2.70
05 43 00 00-0018	LF	1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel	10.61	2.70
05 43 00 00-0019		**Metal Framing Channel Fittings** *(05 43)*		
05 43 00 00-0020		**Unistrut Closure Strips** *(05 43 00 00-0019)*		
05 43 00 00-0021	LF	Steel Raceway Closure Strip For Unistrut Channel	9.09	0.59
05 43 00 00-0022		**Lock Nuts With Spring For Unistrut Channel** *(05 43 00 00-0019)* Note: Includes hex bolt.		
05 43 00 00-0023		**Steel Lock Nuts With Spring For Unistrut Channel** *(05 43 00 00-0022)* Note: Includes hex bolt.		
05 43 00 00-0024	EA	1/4-20, Steel Lock Nut With Spring For Unistrut Channel	9.04	
05 43 00 00-0025	EA	3/8-16, Steel Lock Nut With Spring For Unistrut Channel	10.12	
05 43 00 00-0026	EA	1/2-13, Steel Lock Nut With Spring For Unistrut Channel	10.93	
05 43 00 00-0027	EA	5/8-11, Steel Lock Nut With Spring For Unistrut Channel	15.31	
05 43 00 00-0028		**Stainless Steel Lock Nuts With Spring For Unistrut Channel** *(05 43 00 00-0022)* Note: Includes hex bolt.		
05 43 00 00-0029	EA	1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	15.38	
05 43 00 00-0030	EA	3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	16.45	
05 43 00 00-0031	EA	1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	22.98	
05 43 00 00-0032	EA	5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	37.28	
05 43 00 00-0033		**Lock Nuts Without Spring For Unistrut Channel** *(05 43 00 00-0019)* Note: Includes hex bolt.		
05 43 00 00-0034		**Steel Lock Nuts Without Spring For Unistrut Channel** *(05 43 00 00-0033)* Note: Includes hex bolt.		
05 43 00 00-0035	EA	1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	9.07	
05 43 00 00-0036	EA	3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	10.27	
05 43 00 00-0037	EA	1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	10.99	
05 43 00 00-0038	EA	5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	16.57	
05 43 00 00-0039		**Stainless Steel Lock Nuts Without Spring For Unistrut Channel** *(05 43 00 00-0033)* Note: Includes hex bolt.		
05 43 00 00-0040	EA	1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	11.41	
05 43 00 00-0041	EA	3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.65	
05 43 00 00-0042	EA	1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	15.08	
05 43 00 00-0043	EA	5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	36.35	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0044		**Beam Clamp For Unistrut Channel** *(05 43 00 00-0019)*		
05 43 00 00-0045	EA	1-5/8" Channel, P2675 Unistrut Beam Clamp	25.26	8.98
05 43 00 00-0046	EA	1-5/8" Channel, P2676 Unistrut Beam Clamp	32.05	8.98
05 43 00 00-0047	EA	Add For Unistrut Swivel Nut, P2676	3.70	
05 43 00 00-0048		**Beam Clamp Clevis Hangers For Unistrut Channel** *(05 43 00 00-0019)*		
05 43 00 00-0049	EA	Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	27.62	8.98
05 43 00 00-0050	EA	Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	33.02	8.98
05 43 00 00-0051	EA	Add For Unistrut Swivel Nut	3.70	
05 43 00 00-0052	EA	6-Hole Electrogalvanized Steel Shelf Bracket For Unistrut	190.71	11.98
05 43 00 00-0053		**Accessories For Unistrut Channel** *(05 43 00 00-0019)*		
05 43 00 00-0054	EA	Trolley Truck Hanger, 1-5/8" Channel P1834	62.85	8.98
05 43 00 00-0055	EA	Flat Plate Fitting, One Hole, 1-5/8" Channel P1064	15.72	5.99
05 43 00 00-0056	EA	60 Degree Angle, 1-5/8" Channel P2097	16.47	5.99
05 43 00 00-0057		**Bases For Unistrut Channel** *(05 43 00 00-0019)*		
05 43 00 00-0058		**Steel Bases For Unistrut Channel** *(05 43 00 00-0057)*		
		Note: Includes straight or angled post mounting and fasteners.		
05 43 00 00-0059	EA	6" x 6", 1-5/8" Height, Single Post, Steel Base For Unistrut Channel	119.51	29.94
05 43 00 00-0060	EA	6" x 6", 3-1/2" Height, Single Post, Steel Base For Unistrut Channel	121.09	29.94
05 43 00 00-0061	EA	6" x 6", 1-5/8" Height, Double Post, Steel Base For Unistrut Channel	174.25	29.94
05 43 00 00-0062	EA	6" x 6", 3-1/2" Height, Double Post, Steel Base For Unistrut Channel	143.16	29.94
05 43 00 00-0063		**Stainless Steel Bases For Unistrut Channel** *(05 43 00 00-0057)*		
		Note: Includes straight or angled post mounting and fasteners.		
05 43 00 00-0064	EA	6" x 6", 1-5/8" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel	240.92	29.94
05 43 00 00-0065	EA	6" x 6", 3-1/2" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel	439.17	29.94
05 43 00 00-0066	EA	6" x 6", 3-1/2" Height, Double Post, 304 Stainless Steel Base For Unistrut Channel	332.79	29.94
05 43 00 00-0067	EA	6" x 6", 1-5/8" Height, Single Post, 316 Stainless Steel Base For Unistrut Channel	493.38	29.94
05 43 00 00-0068	EA	6" x 6", 3-1/2" Height, Double Post, 316 Stainless Steel Base For Unistrut Channel	430.85	29.94
05 43 00 00-0069		**Pipe And Rigid Conduit Clamps** *(05 43 00 00-0019)*		
05 43 00 00-0070		**Pipe And Rigid Conduit Clamps** *(05 43 00 00-0069)*		
		Note: Includes stainless steel (316) hardware.		
05 43 00 00-0071	PR	1/2" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	6.57	2.15
05 43 00 00-0072	PR	3/4" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	6.71	2.15
05 43 00 00-0073	PR	1" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	7.76	2.60
05 43 00 00-0074	PR	1-1/4" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	8.23	2.82
05 43 00 00-0075	PR	1-1/2" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	10.38	3.16
05 43 00 00-0076	PR	2" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	10.38	3.16
05 43 00 00-0077	PR	2-1/2" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	16.01	5.30
05 43 00 00-0078	PR	3" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	16.29	5.30
05 43 00 00-0079	PR	3-1/2" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	17.44	5.86
05 43 00 00-0080	PR	4" Diameter, Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	19.29	6.32
05 43 00 00-0081		**Pipe And Rigid Conduit Clamps** *(05 43 00 00-0069)*		
		Note: Includes nylon hardware.		
05 43 00 00-0082	PR	1/2" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	10.57	2.15
05 43 00 00-0083	PR	3/4" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	10.96	2.15
05 43 00 00-0084	PR	1" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	12.01	2.60
05 43 00 00-0085	PR	1-1/4" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	12.63	2.82
05 43 00 00-0086	PR	1-1/2" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	17.26	3.16
05 43 00 00-0087	PR	2" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	17.26	3.16
05 43 00 00-0088	PR	2-1/2" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	25.30	5.30
05 43 00 00-0089	PR	3" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	26.06	5.30
05 43 00 00-0090	PR	3-1/2" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	27.36	5.86
05 43 00 00-0091	PR	4" Diameter, Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	30.58	6.32

05 44 Cold-Formed Metal Trusses *(05 40)*

05 44 13 Cold-Formed Metal Roof Trusses *(05 44)*

05 44 13 00-0001		**Metal Trusses** *(05 44 13)*		
05 44 13 00-0002		**4:12 Pitch Metal Trusses** *(05 44 13 00-0001)*		
05 44 13 00-0003	EA	28' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	775.48	120.63
		For 4" Chords, Deduct	*-165.44*	
		For 14 Gauge, Add	*200.59*	
		For 16 Gauge, Add	*84.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 44 13 00-0004	EA	30' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	813.12	121.69
		For 4" Chords, Deduct	*-177.06*	
		For 14 Gauge, Add	*211.91*	
		For 16 Gauge, Add	*89.94*	
05 44 13 00-0005	EA	32' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	842.16	122.75
		For 4" Chords, Deduct	*-185.85*	
		For 14 Gauge, Add	*220.56*	
		For 16 Gauge, Add	*94.24*	
05 44 13 00-0006	EA	34' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	894.85	128.82
		For 4" Chords, Deduct	*-198.68*	
		For 14 Gauge, Add	*234.89*	
		For 16 Gauge, Add	*100.66*	
05 44 13 00-0007	EA	36' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	938.92	134.91
		For 4" Chords, Deduct	*-208.67*	
		For 14 Gauge, Add	*246.55*	
		For 16 Gauge, Add	*105.71*	
05 44 13 00-0008	EA	38' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	968.62	136.18
		For 4" Chords, Deduct	*-217.51*	
		For 14 Gauge, Add	*255.33*	
		For 16 Gauge, Add	*110.04*	
05 44 13 00-0009	EA	40' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	1,006.93	137.47
		For 4" Chords, Deduct	*-229.19*	
		For 14 Gauge, Add	*266.78*	
		For 16 Gauge, Add	*115.74*	
05 44 13 00-0010	EA	42' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	1,053.41	144.35
		For 4" Chords, Deduct	*-239.37*	
		For 14 Gauge, Add	*278.92*	
		For 16 Gauge, Add	*120.91*	
05 44 13 00-0011	EA	44' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	1,108.48	151.21
		For 4" Chords, Deduct	*-252.39*	
		For 14 Gauge, Add	*293.73*	
		For 16 Gauge, Add	*127.46*	
05 44 13 00-0012	EA	46' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	1,154.96	158.10
		For 4" Chords, Deduct	*-262.57*	
		For 14 Gauge, Add	*305.87*	
		For 16 Gauge, Add	*132.63*	
05 44 13 00-0013	EA	48' Metal Trusses, 18 Gauge, 6" Chords, 4:12 Pitch	1,210.03	164.95
		For 4" Chords, Deduct	*-275.59*	
		For 14 Gauge, Add	*320.67*	
		For 16 Gauge, Add	*139.17*	
05 44 13 00-0014		5:12 To 6:12 Pitch Metal Trusses *(05 44 13 00-0001)*		
05 44 13 00-0015	EA	28' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	924.21	150.10
		For 4" Chords, Deduct	*-192.41*	
		For 14 Gauge, Add	*236.97*	
		For 16 Gauge, Add	*98.34*	
05 44 13 00-0016	EA	30' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	962.99	151.55
		For 4" Chords, Deduct	*-204.13*	
		For 14 Gauge, Add	*248.52*	
		For 16 Gauge, Add	*104.07*	
05 44 13 00-0017	EA	32' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	1,001.75	152.97
		For 4" Chords, Deduct	*-215.85*	
		For 14 Gauge, Add	*260.06*	
		For 16 Gauge, Add	*109.80*	
05 44 13 00-0018	EA	34' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	1,066.42	163.04
		For 4" Chords, Deduct	*-229.64*	
		For 14 Gauge, Add	*276.79*	
		For 16 Gauge, Add	*116.82*	
05 44 13 00-0019	EA	36' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	1,131.08	173.11
		For 4" Chords, Deduct	*-243.43*	
		For 14 Gauge, Add	*293.51*	
		For 16 Gauge, Add	*123.85*	
05 44 13 00-0020	EA	38' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	1,054.78	174.93
		For 4" Chords, Deduct	*-245.94*	
		For 14 Gauge, Add	*282.04*	
		For 16 Gauge, Add	*123.82*	
05 44 13 00-0021	EA	40' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	1,210.94	176.74
		For 4" Chords, Deduct	*-267.05*	
		For 14 Gauge, Add	*317.07*	
		For 16 Gauge, Add	*135.42*	
05 44 13 00-0022	EA	42' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	1,271.91	185.58
		For 4" Chords, Deduct	*-280.54*	
		For 14 Gauge, Add	*333.05*	
		For 16 Gauge, Add	*142.26*	
05 44 13 00-0023	EA	44' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	1,332.90	194.43
		For 4" Chords, Deduct	*-294.04*	
		For 14 Gauge, Add	*349.04*	
		For 16 Gauge, Add	*149.10*	
05 44 13 00-0024	EA	46' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	1,393.87	203.26
		For 4" Chords, Deduct	*-307.53*	
		For 14 Gauge, Add	*365.02*	
		For 16 Gauge, Add	*155.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 44 13 00-0025	EA	48' Metal Trusses, 18 Gauge, 6" Chords, 5:12 To 6:12 Pitch	1,454.85	212.10
		For 4" Chords, Deduct	*-321.03*	
		For 14 Gauge, Add	*381.01*	
		For 16 Gauge, Add	*162.78*	

05 50 Metal Fabrications *(05)*

05 51 Metal Stairs *(05 50)*

05 51 13 Metal Pan Stairs *(05 51)*

Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail.
See CSI section 05 52 13 00-0000 for handrails.

05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing *(05 51 13)*

Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.

05 51 13 00-0002	RSR	3'-6" Wide Open Concrete Filled Metal Pan Tread Stair	1,070.75	53.02
		For Closed Riser, Add	*123.70*	
05 51 13 00-0003	RSR	4'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,216.70	62.18
		For Closed Riser, Add	*140.41*	
05 51 13 00-0004	RSR	5'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,355.23	72.84
		For Closed Riser, Add	*156.07*	
05 51 13 00-0005	SF	Concrete Filled Steel Pan Landing Note: Conventional shape.	90.31	5.83

05 51 19 Metal Grating Stairs *(05 51)*

Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.

05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing *(05 51 19)*

Note: Includes steel stringers, safety nosing and 2 pipe handrail.

05 51 19 00-0002	RSR	3'-6" Wide Open Steel Grating Tread Metal Stair	519.74	46.62
		For Closed Riser, Add	*62.44*	
		For Galvanized Steel, Add	*106.63*	
05 51 19 00-0003	RSR	4'-0" Wide Open Steel Grating Tread Metal Stair	554.03	53.61
		For Closed Riser, Add	*66.13*	
		For Galvanized Steel, Add	*111.70*	
05 51 19 00-0004	RSR	5'-0" Wide Open Steel Grating Tread Metal Stair	613.30	62.93
		For Closed Riser, Add	*72.81*	
		For Galvanized Steel, Add	*121.86*	
05 51 19 00-0005	SF	Steel Grating Landing With Framing And 2 Pipe Handrail Note: Conventional shape.	96.42	5.83

05 51 33 Metal Ladders *(05 51)*

Note: Includes factory prime.

05 51 33 13 Vertical Metal Ladders *(05 51 33)*

05 51 33 13-0001 Vertical Ladders *(05 51 33 13)*

Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"

05 51 33 13-0002	VLF	20" Wide Fixed Vertical Steel Ladder Primed	95.44	13.99
		For Galvanized Steel, Add	*12.89*	
		For Aluminum, Add	*25.78*	
05 51 33 13-0003	VLF	24" Wide Fixed Vertical Steel Ladder Primed	108.51	13.99
		For Galvanized Steel, Add	*16.16*	
		For Aluminum, Add	*32.32*	
05 51 33 13-0004	VLF	20" Wide Fixed Vertical Steel Caged Ladder Primed	224.08	23.31
		For Galvanized Steel, Add	*37.45*	
		For Aluminum, Add	*74.89*	
05 51 33 13-0005	VLF	24" Wide Fixed Vertical Steel Caged Ladder Primed	250.21	23.31
		For Galvanized Steel, Add	*43.98*	
		For Aluminum, Add	*87.96*	

05 51 33 13-0006 Vertical Ladders Options *(05 51 33 13)*

05 51 33 13-0007	EA	20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket.	372.98	43.70
		For Galvanized Steel, Add	*71.39*	
		For Aluminum, Add	*142.79*	
05 51 33 13-0008	EA	24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket.	408.21	46.62
		For Galvanized Steel, Add	*78.74*	
		For Aluminum, Add	*157.49*	
05 51 33 13-0009	EA	Security Cage Entry Gate With Lockable Hasp	437.42	14.57
05 51 33 13-0010	EA	6' Powder Coated, Security Ladder Guard	1,189.02	87.41
05 51 33 13-0011	EA	8' Powder Coated, Security Ladder Guard	1,421.84	101.98
05 51 33 13-0012	EA	Safety Chain Attachment	216.49	

05 51 33 13-0013 Welded Steel Ladder Cages *(05 51 33 13)*

Note: For existing fixed ladders up to 20" wide. Excludes the ladder.

05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages *(05 51 33 13-0013)*

05 51 33 13-0015	EA	7-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,027.14	174.82

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 13-0016	EA	8-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,199.78	180.64
05 51 33 13-0017	EA	9-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,337.42	186.47
05 51 33 13-0018	EA	10-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,484.39	192.31
05 51 33 13-0019	EA	11-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,570.71	198.13
05 51 33 13-0020	EA	12-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,710.68	203.96
05 51 33 13-0021	EA	13-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,834.33	209.79
05 51 33 13-0022	EA	14-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,995.31	215.61
05 51 33 13-0023	EA	15-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,151.61	221.44
05 51 33 13-0024	EA	16-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,279.91	227.27
05 51 33 13-0025	EA	17-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,436.23	233.09
05 51 33 13-0026	EA	18-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,587.86	238.92
05 51 33 13-0027	EA	19-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,737.18	244.75
05 51 33 13-0028	EA	20-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,007.81	250.57
05 51 33 13-0029	EA	21-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,089.45	256.40
05 51 33 13-0030	EA	22-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,229.42	262.24
05 51 33 13-0031	EA	23-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,357.73	268.06
05 51 33 13-0032	EA	24-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,476.71	273.89
05 51 33 13-0033	EA	25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,740.34	279.72
05 51 33 13-0034	EA	26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,882.65	285.54
05 51 33 13-0035	EA	27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,015.63	291.37
05 51 33 13-0036		Welded Stainless Steel Ladder Cages *(05 51 33 13-0013)*		
05 51 33 13-0037	EA	7-1/2' Length, Welded Stainless Steel Ladder Cage	4,997.18	174.82
05 51 33 13-0038	EA	8-1/2' Length, Welded Stainless Steel Ladder Cage	5,337.80	180.64
05 51 33 13-0039	EA	9-1/2' Length, Welded Stainless Steel Ladder Cage	5,904.73	186.47
05 51 33 13-0040	EA	10-1/2' Length, Welded Stainless Steel Ladder Cage	6,184.69	192.31
05 51 33 13-0041	EA	11-1/2' Length, Welded Stainless Steel Ladder Cage	6,420.32	198.13
05 51 33 13-0042	EA	12-1/2' Length, Welded Stainless Steel Ladder Cage	6,732.94	203.96
05 51 33 13-0043	EA	13-1/2' Length, Welded Stainless Steel Ladder Cage	7,295.22	209.79
05 51 33 13-0044	EA	14-1/2' Length, Welded Stainless Steel Ladder Cage	7,579.85	215.61
05 51 33 13-0045	EA	15-1/2' Length, Welded Stainless Steel Ladder Cage	7,873.80	221.44
05 51 33 13-0046	EA	16-1/2' Length, Welded Stainless Steel Ladder Cage	8,195.76	227.27
05 51 33 13-0047	EA	17-1/2' Length, Welded Stainless Steel Ladder Cage	8,769.69	233.09
05 51 33 13-0048	EA	18-1/2' Length, Welded Stainless Steel Ladder Cage	9,056.65	238.92
05 51 33 13-0049	EA	19-1/2' Length, Welded Stainless Steel Ladder Cage	9,329.62	244.75
05 51 33 13-0050	EA	20-1/2' Length, Welded Stainless Steel Ladder Cage	9,782.23	250.57
05 51 33 13-0051	EA	21-1/2' Length, Welded Stainless Steel Ladder Cage	10,290.83	256.40
05 51 33 13-0052	EA	22-1/2' Length, Welded Stainless Steel Ladder Cage	10,573.12	262.24
05 51 33 13-0053	EA	23-1/2' Length, Welded Stainless Steel Ladder Cage	10,862.41	268.06
05 51 33 13-0054	EA	24-1/2' Length, Welded Stainless Steel Ladder Cage	11,133.04	273.89
05 51 33 13-0055	EA	25-1/2' Length, Welded Stainless Steel Ladder Cage	11,828.29	279.72
05 51 33 13-0056	EA	26-1/2' Length, Welded Stainless Steel Ladder Cage	12,098.93	285.54
05 51 33 13-0057	EA	27-1/2' Length, Welded Stainless Steel Ladder Cage	12,376.56	291.37
05 51 33 13-0058		Vertical Ladder Fall Protection System *(05 51 33 13)*		
05 51 33 13-0059	EA	For 20' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30914-00)	1,232.68	78.54
05 51 33 13-0060	EA	For 40' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30915-00)	1,358.59	85.67
05 51 33 13-0061	EA	For 60' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30916-00)	1,541.80	92.81
05 51 33 13-0062	EA	For 80' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30917-00)	1,725.76	99.96
05 51 33 13-0063	EA	For 100' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30918-00)	1,966.32	107.09
05 51 33 13-0064	EA	For 120' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30919-00)	2,155.00	114.23
05 51 33 13-0065	EA	For 140' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30920-00)	2,360.28	121.37
05 51 33 13-0066	EA	For 20' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30924-00)	732.05	71.39
05 51 33 13-0067	EA	For 40' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30925-00)	861.82	78.54
05 51 33 13-0068	EA	For 60' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30906-00)	1,023.85	85.67
05 51 33 13-0069	EA	For 80' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30907-00)	1,274.58	92.81
05 51 33 13-0070	EA	For 100' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30908-00)	1,431.13	99.96
05 51 33 13-0071	EA	For 120' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30909-00)	1,552.30	107.09
05 51 33 13-0072	EA	Ladder Latch Device For Vertical Ladder Fall Protection System (MSA Latchways® 3104L-00)	590.42	17.85
05 51 33 16		**Inclined Metal Ladders** *(05 51 33)*		
05 51 33 16-0001		Industrial Ship Ladder, Incline Stairs *(05 51 33 16)* Note: Includes factory prime.		
05 51 33 16-0002	RSR	3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side	371.82	58.28
		For Aluminum, Add	*127.64*	
05 51 33 23		**Alternating Tread Ladders** *(05 51 33)*		
05 51 33 23-0001		Vertical Ladders With Alternating Tread *(05 51 33 23)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 23-0002	EA	4' Vertical Height Aluminum Alternating Tread Ladder	2,911.54	174.82
		For Stainless Steel, Add	*279.46*	
		For Primed Steel, Deduct	*-232.88*	
05 51 33 23-0003	EA	5' Vertical Height Aluminum Alternating Tread Ladder	3,345.69	185.31
		For Stainless Steel, Add	*340.51*	
		For Primed Steel, Deduct	*-265.60*	
05 51 33 23-0004	EA	6' Vertical Height Aluminum Alternating Tread Ladder	3,731.19	185.31
		For Stainless Steel, Add	*404.25*	
		For Primed Steel, Deduct	*-295.41*	
05 51 33 23-0005	EA	7' Vertical Height Aluminum Alternating Tread Ladder	4,243.13	232.86
		For Stainless Steel, Add	*467.93*	
		For Primed Steel, Deduct	*-320.62*	
05 51 33 23-0006	EA	8' Vertical Height Aluminum Alternating Tread Ladder	4,671.55	241.12
		For Stainless Steel, Add	*541.49*	
		For Primed Steel, Deduct	*-348.10*	
05 51 33 23-0007	EA	9' Vertical Height Aluminum Alternating Tread Ladder	5,012.18	241.12
		For Stainless Steel, Add	*610.22*	
		For Primed Steel, Deduct	*-368.24*	
05 51 33 23-0008	EA	10' Vertical Height Aluminum Alternating Tread Ladder	5,500.77	268.95
		For Stainless Steel, Add	*690.64*	
		For Primed Steel, Deduct	*-391.36*	
05 51 33 23-0009	EA	11' Vertical Height Aluminum Alternating Tread Ladder	5,882.41	268.95
		For Stainless Steel, Add	*772.81*	
		For Primed Steel, Deduct	*-411.34*	
05 51 33 23-0010	EA	12' Vertical Height Aluminum Alternating Tread Ladder	6,179.34	268.95
		For Stainless Steel, Add	*845.25*	
		For Primed Steel, Deduct	*-422.63*	

05 52 Metal Railings *(05 50)*

05 52 13 Pipe and Tube Railings *(05 52)*

Note: Includes embedded steel sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 Welded Steel Pipe Railing *(05 52 13)*

Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings *(05 52 13 00-0001)*

Note: Includes factory primed posts and one rail.

05 52 13 00-0003	LF	1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	39.96	11.65
		For Schedule 80 Handrail, Add	*5.02*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-3.66*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-4.16*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-5.49*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-6.49*	
		For ADA Handrail P-Loop End Return, Add Per Each	*82.22*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*14.65*	
		For Aluminum, Satin Finish, Add	*6.99*	
		For Aluminum, Clear Anodized Finish, Add	*10.82*	
		For Aluminum, Dark Anodized Finish, Add	*12.49*	
		For Galvanizing, Add	*6.66*	
		For Wrought Iron, Add	*4.00*	
		For Solid Steel Rails, Add	*7.99*	
		For 304 Stainless Steel, Add	*53.28*	
		For 316 Stainless Steel, Add	*59.94*	
		For 2" Wheel Guard, Add	*1.58*	
		For 4" High Kick Plate, Add	*2.08*	
		For 6" High Kick Plate, Add	*3.33*	
		For Curved Rail, Add	*16.98*	
		For Mounting On Stairs, Add	*11.99*	
		For Mounting On Slopes, Add	*4.00*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*14.15*	
		For Nylon Coating, Add	*2.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0004	LF	1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	42.83	11.65
		For Schedule 80 Handrail, Add	*7.85*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-4.29*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-4.88*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-6.44*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-7.61*	
		For ADA Handrail P-Loop End Return, Add Per Each	*97.85*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*16.37*	
		For Aluminum, Satin Finish, Add	*8.20*	
		For Aluminum, Clear Anodized Finish, Add	*12.69*	
		For Aluminum, Dark Anodized Finish, Add	*14.64*	
		For Galvanizing, Add	*7.81*	
		For Wrought Iron, Add	*4.28*	
		For Solid Steel Rails, Add	*8.57*	
		For 304 Stainless Steel, Add	*62.46*	
		For 316 Stainless Steel, Add	*70.27*	
		For 2" Wheel Guard, Add	*1.85*	
		For 4" High Kick Plate, Add	*2.44*	
		For 6" High Kick Plate, Add	*3.90*	
		For Curved Rail, Add	*18.71*	
		For Mounting On Stairs, Add	*12.85*	
		For Mounting On Slopes, Add	*4.28*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*15.59*	
		For Nylon Coating, Add	*2.93*	
05 52 13 00-0005	LF	1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	45.69	11.65
		For Schedule 80 Handrail, Add	*7.85*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-4.92*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-5.60*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-7.39*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-8.73*	
		For ADA Handrail P-Loop End Return, Add Per Each	*110.29*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*18.09*	
		For Aluminum, Satin Finish, Add	*9.40*	
		For Aluminum, Clear Anodized Finish, Add	*14.55*	
		For Aluminum, Dark Anodized Finish, Add	*16.79*	
		For Galvanizing, Add	*8.95*	
		For Wrought Iron, Add	*4.57*	
		For Solid Steel Rails, Add	*9.14*	
		For 304 Stainless Steel, Add	*71.62*	
		For 316 Stainless Steel, Add	*80.57*	
		For 2" Wheel Guard, Add	*2.13*	
		For 4" High Kick Plate, Add	*2.80*	
		For 6" High Kick Plate, Add	*4.48*	
		For Curved Rail, Add	*20.42*	
		For Mounting On Stairs, Add	*13.71*	
		For Mounting On Slopes, Add	*4.57*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*17.02*	
		For Nylon Coating, Add	*3.36*	
05 52 13 00-0006	LF	2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	50.67	11.65
		For Schedule 80 Handrail, Add	*8.99*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-6.02*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-6.84*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-9.03*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-10.67*	
		For ADA Handrail P-Loop End Return, Add Per Each	*133.17*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*21.08*	
		For Aluminum, Satin Finish, Add	*11.49*	
		For Aluminum, Clear Anodized Finish, Add	*17.78*	
		For Aluminum, Dark Anodized Finish, Add	*20.52*	
		For Galvanizing, Add	*10.94*	
		For Wrought Iron, Add	*5.07*	
		For Solid Steel Rails, Add	*10.13*	
		For 304 Stainless Steel, Add	*87.55*	
		For 316 Stainless Steel, Add	*98.50*	
		For 2" Wheel Guard, Add	*2.60*	
		For 4" High Kick Plate, Add	*3.42*	
		For 6" High Kick Plate, Add	*5.47*	
		For Curved Rail, Add	*23.41*	
		For Mounting On Stairs, Add	*15.20*	
		For Mounting On Slopes, Add	*5.07*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*19.51*	
		For Nylon Coating, Add	*4.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0007	LF	2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	56.63	11.65
		For Schedule 80 Handrail, Add	*10.15*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-7.33*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-8.33*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-11.00*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-12.99*	
		For ADA Handrail P-Loop End Return, Add Per Each	*181.99*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*24.65*	
		For Aluminum, Satin Finish, Add	*13.99*	
		For Aluminum, Clear Anodized Finish, Add	*21.66*	
		For Aluminum, Dark Anodized Finish, Add	*24.99*	
		For Galvanizing, Add	*13.33*	
		For Wrought Iron, Add	*5.66*	
		For Solid Steel Rails, Add	*11.33*	
		For 304 Stainless Steel, Add	*106.62*	
		For 316 Stainless Steel, Add	*119.95*	
		For 2" Wheel Guard, Add	*3.17*	
		For 4" High Kick Plate, Add	*4.17*	
		For 6" High Kick Plate, Add	*6.66*	
		For Curved Rail, Add	*26.99*	
		For Mounting On Stairs, Add	*16.99*	
		For Mounting On Slopes, Add	*5.66*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*22.49*	
		For Nylon Coating, Add	*5.00*	

05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings *(05 52 13 00-0001)*

Note: Includes factory primed posts and two rails.

05 52 13 00-0009	LF	1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	52.44	11.65
		For Schedule 80 Handrail, Add	*5.02*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-6.41*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-7.28*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-9.61*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-11.36*	
		For ADA Handrail P-Loop End Return, Add Per Each	*82.22*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*14.65*	
		For Aluminum, Satin Finish, Add	*12.23*	
		For Aluminum, Clear Anodized Finish, Add	*18.93*	
		For Aluminum, Dark Anodized Finish, Add	*21.85*	
		For Galvanizing, Add	*11.65*	
		For Wrought Iron, Add	*5.24*	
		For Solid Steel Rails, Add	*10.49*	
		For 304 Stainless Steel, Add	*93.22*	
		For 316 Stainless Steel, Add	*104.87*	
		For 2" Wheel Guard, Add	*2.77*	
		For 4" High Kick Plate, Add	*3.64*	
		For 6" High Kick Plate, Add	*5.83*	
		For Curved Rail, Add	*24.47*	
		For Mounting On Stairs, Add	*15.73*	
		For Mounting On Slopes, Add	*5.24*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*20.39*	
		For Nylon Coating, Add	*4.37*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0010	LF	1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	57.46	11.65
		For Schedule 80 Handrail, Add	*7.85*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-7.51*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-8.54*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-11.27*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-13.32*	
		For ADA Handrail P-Loop End Return, Add Per Each	*97.85*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*16.37*	
		For Aluminum, Satin Finish, Add	*14.34*	
		For Aluminum, Clear Anodized Finish, Add	*22.20*	
		For Aluminum, Dark Anodized Finish, Add	*25.61*	
		For Galvanizing, Add	*13.66*	
		For Wrought Iron, Add	*5.75*	
		For Solid Steel Rails, Add	*11.49*	
		For 304 Stainless Steel, Add	*109.28*	
		For 316 Stainless Steel, Add	*122.94*	
		For 2" Wheel Guard, Add	*3.24*	
		For 4" High Kick Plate, Add	*4.27*	
		For 6" High Kick Plate, Add	*6.83*	
		For Curved Rail, Add	*27.48*	
		For Mounting On Stairs, Add	*17.24*	
		For Mounting On Slopes, Add	*5.75*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*22.90*	
		For Nylon Coating, Add	*5.12*	
05 52 13 00-0011	LF	1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	62.48	11.65
		For Schedule 80 Handrail, Add	*7.85*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*106.72*	
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*77.55*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-8.62*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-9.79*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-12.93*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-15.28*	
		For ADA Handrail P-Loop End Return, Add Per Each	*110.29*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*18.09*	
		For Aluminum, Satin Finish, Add	*16.45*	
		For Aluminum, Clear Anodized Finish, Add	*25.46*	
		For Aluminum, Dark Anodized Finish, Add	*29.38*	
		For Galvanizing, Add	*15.67*	
		For Wrought Iron, Add	*6.25*	
		For Solid Steel Rails, Add	*12.50*	
		For 304 Stainless Steel, Add	*125.34*	
		For 316 Stainless Steel, Add	*141.01*	
		For 2" Wheel Guard, Add	*3.72*	
		For 4" High Kick Plate, Add	*4.90*	
		For 6" High Kick Plate, Add	*7.83*	
		For Curved Rail, Add	*30.50*	
		For Mounting On Stairs, Add	*18.74*	
		For Mounting On Slopes, Add	*6.25*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*25.41*	
		For Nylon Coating, Add	*5.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0012	LF	2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	71.18	11.65
		For Schedule 80 Handrail, Add	*8.99*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*106.72*	
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*77.55*	
		For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*134.72*	
		For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*95.55*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-10.53*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-11.97*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-15.80*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-18.67*	
		For ADA Handrail P-Loop End Return, Add Per Each	*133.17*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*21.08*	
		For Aluminum, Satin Finish, Add	*20.11*	
		For Aluminum, Clear Anodized Finish, Add	*31.12*	
		For Aluminum, Dark Anodized Finish, Add	*35.90*	
		For Galvanizing, Add	*19.15*	
		For Wrought Iron, Add	*7.12*	
		For Solid Steel Rails, Add	*14.24*	
		For 304 Stainless Steel, Add	*153.18*	
		For 316 Stainless Steel, Add	*172.33*	
		For 2" Wheel Guard, Add	*4.55*	
		For 4" High Kick Plate, Add	*5.98*	
		For 6" High Kick Plate, Add	*9.57*	
		For Curved Rail, Add	*35.72*	
		For Mounting On Stairs, Add	*21.35*	
		For Mounting On Slopes, Add	*7.12*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*29.76*	
		For Nylon Coating, Add	*7.18*	
05 52 13 00-0013	LF	2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	81.62	11.65
		For Schedule 80 Handrail, Add	*10.15*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*106.72*	
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*77.55*	
		For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*134.72*	
		For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*95.55*	
		For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*136.89*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-12.83*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-14.58*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-19.24*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-22.74*	
		For ADA Handrail P-Loop End Return, Add Per Each	*181.99*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*24.65*	
		For Aluminum, Satin Finish, Add	*24.49*	
		For Aluminum, Clear Anodized Finish, Add	*37.90*	
		For Aluminum, Dark Anodized Finish, Add	*43.73*	
		For Galvanizing, Add	*23.32*	
		For Wrought Iron, Add	*8.16*	
		For Solid Steel Rails, Add	*16.32*	
		For 304 Stainless Steel, Add	*186.59*	
		For 316 Stainless Steel, Add	*209.92*	
		For 2" Wheel Guard, Add	*5.54*	
		For 4" High Kick Plate, Add	*7.29*	
		For 6" High Kick Plate, Add	*11.66*	
		For Curved Rail, Add	*41.98*	
		For Mounting On Stairs, Add	*24.49*	
		For Mounting On Slopes, Add	*8.16*	
		For Post Base Flange With Screws, Add Per Post	*19.83*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.00*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*34.98*	
		For Nylon Coating, Add	*8.75*	

05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings *(05 52 13 00-0001)*
Note: Includes factory primed posts and three rails.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0015	LF	1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	81.50	13.99
		For Schedule 80 Handrail, Add	*7.29*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-11.78*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-13.38*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-17.66*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-20.88*	
		For ADA Handrail P-Loop End Return, Add Per Each	*82.22*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*15.58*	
		For Aluminum, Satin Finish, Add	*22.48*	
		For Aluminum, Clear Anodized Finish, Add	*34.79*	
		For Aluminum, Dark Anodized Finish, Add	*40.15*	
		For Galvanizing, Add	*21.41*	
		For Wrought Iron, Add	*8.15*	
		For Solid Steel Rails, Add	*16.30*	
		For 304 Stainless Steel, Add	*171.30*	
		For 316 Stainless Steel, Add	*192.71*	
		For 2" Wheel Guard, Add	*5.09*	
		For 4" High Kick Plate, Add	*6.69*	
		For 6" High Kick Plate, Add	*10.71*	
		For Curved Rail, Add	*40.51*	
		For Mounting On Stairs, Add	*24.45*	
		For Mounting On Slopes, Add	*8.15*	
		For Post Base Flange With Screws, Add Per Post	*20.30*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.70*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*33.76*	
		For Nylon Coating, Add	*8.03*	
05 52 13 00-0016	LF	1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	90.71	13.99
		For Schedule 80 Handrail, Add	*11.06*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-13.80*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-15.69*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-20.70*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-24.47*	
		For ADA Handrail P-Loop End Return, Add Per Each	*97.85*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*17.30*	
		For Aluminum, Satin Finish, Add	*26.35*	
		For Aluminum, Clear Anodized Finish, Add	*40.78*	
		For Aluminum, Dark Anodized Finish, Add	*47.06*	
		For Galvanizing, Add	*25.10*	
		For Wrought Iron, Add	*9.07*	
		For Solid Steel Rails, Add	*18.14*	
		For 304 Stainless Steel, Add	*200.77*	
		For 316 Stainless Steel, Add	*225.86*	
		For 2" Wheel Guard, Add	*5.96*	
		For 4" High Kick Plate, Add	*7.84*	
		For 6" High Kick Plate, Add	*12.55*	
		For Curved Rail, Add	*46.04*	
		For Mounting On Stairs, Add	*27.21*	
		For Mounting On Slopes, Add	*9.07*	
		For Post Base Flange With Screws, Add Per Post	*20.30*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.70*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*38.36*	
		For Nylon Coating, Add	*9.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0017	LF	1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	99.93	13.99
		For Schedule 80 Handrail, Add	*11.06*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*106.72*	
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*77.55*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-15.83*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-17.99*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-23.75*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-28.06*	
		For ADA Handrail P-Loop End Return, Add Per Each	*110.29*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*19.02*	
		For Aluminum, Satin Finish, Add	*30.22*	
		For Aluminum, Clear Anodized Finish, Add	*46.77*	
		For Aluminum, Dark Anodized Finish, Add	*53.97*	
		For Galvanizing, Add	*28.78*	
		For Wrought Iron, Add	*9.99*	
		For Solid Steel Rails, Add	*19.99*	
		For 304 Stainless Steel, Add	*230.27*	
		For 316 Stainless Steel, Add	*259.06*	
		For 2" Wheel Guard, Add	*6.84*	
		For 4" High Kick Plate, Add	*9.00*	
		For 6" High Kick Plate, Add	*14.39*	
		For Curved Rail, Add	*51.57*	
		For Mounting On Stairs, Add	*29.98*	
		For Mounting On Slopes, Add	*9.99*	
		For Post Base Flange With Screws, Add Per Post	*20.30*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.70*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*42.97*	
		For Nylon Coating, Add	*10.79*	
05 52 13 00-0018	LF	2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	115.95	13.99
		For Schedule 80 Handrail, Add	*12.59*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*106.72*	
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*77.55*	
		For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*134.72*	
		For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*95.55*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-19.36*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-22.00*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-29.03*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-34.31*	
		For ADA Handrail P-Loop End Return, Add Per Each	*133.17*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*22.01*	
		For Aluminum, Satin Finish, Add	*36.95*	
		For Aluminum, Clear Anodized Finish, Add	*57.19*	
		For Aluminum, Dark Anodized Finish, Add	*65.99*	
		For Galvanizing, Add	*35.19*	
		For Wrought Iron, Add	*11.60*	
		For Solid Steel Rails, Add	*23.19*	
		For 304 Stainless Steel, Add	*281.54*	
		For 316 Stainless Steel, Add	*316.73*	
		For 2" Wheel Guard, Add	*8.36*	
		For 4" High Kick Plate, Add	*11.00*	
		For 6" High Kick Plate, Add	*17.60*	
		For Curved Rail, Add	*61.18*	
		For Mounting On Stairs, Add	*34.79*	
		For Mounting On Slopes, Add	*11.60*	
		For Post Base Flange With Screws, Add Per Post	*20.30*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.70*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*50.98*	
		For Nylon Coating, Add	*13.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0019	LF	2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	135.02	13.99
		For Schedule 80 Handrail, Add	*14.13*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*106.72*	
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*77.55*	
		For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*134.72*	
		For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*95.55*	
		For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*136.89*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-23.55*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-26.76*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-35.33*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-41.75*	
		For ADA Handrail P-Loop End Return, Add Per Each	*181.99*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*25.58*	
		For Aluminum, Satin Finish, Add	*44.96*	
		For Aluminum, Clear Anodized Finish, Add	*69.58*	
		For Aluminum, Dark Anodized Finish, Add	*80.29*	
		For Galvanizing, Add	*42.82*	
		For Wrought Iron, Add	*13.50*	
		For Solid Steel Rails, Add	*27.00*	
		For 304 Stainless Steel, Add	*342.56*	
		For 316 Stainless Steel, Add	*385.38*	
		For 2" Wheel Guard, Add	*10.17*	
		For 4" High Kick Plate, Add	*13.38*	
		For 6" High Kick Plate, Add	*21.41*	
		For Curved Rail, Add	*72.62*	
		For Mounting On Stairs, Add	*40.51*	
		For Mounting On Slopes, Add	*13.50*	
		For Post Base Flange With Screws, Add Per Post	*20.30*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*30.70*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*60.52*	
		For Nylon Coating, Add	*16.06*	

05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings *(05 52 13 00-0001)*

Note: Includes factory primed posts and four rails.

05 52 13 00-0021	LF	1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	98.33	16.32
		For Schedule 80 Handrail, Add	*9.87*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-14.45*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-16.42*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-21.68*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-25.62*	
		For ADA Handrail P-Loop End Return, Add Per Each	*82.22*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*16.52*	
		For Aluminum, Satin Finish, Add	*27.59*	
		For Aluminum, Clear Anodized Finish, Add	*42.70*	
		For Aluminum, Dark Anodized Finish, Add	*49.27*	
		For Galvanizing, Add	*26.28*	
		For Wrought Iron, Add	*9.83*	
		For Solid Steel Rails, Add	*19.67*	
		For 304 Stainless Steel, Add	*210.21*	
		For 316 Stainless Steel, Add	*236.48*	
		For 2" Wheel Guard, Add	*6.24*	
		For 4" High Kick Plate, Add	*8.21*	
		For 6" High Kick Plate, Add	*13.14*	
		For Curved Rail, Add	*49.21*	
		For Mounting On Stairs, Add	*29.50*	
		For Mounting On Slopes, Add	*9.83*	
		For Post Base Flange With Screws, Add Per Post	*20.76*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*31.40*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*41.01*	
		For Nylon Coating, Add	*9.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0022	LF	1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	106.52	16.32
		For Schedule 80 Handrail, Add	*14.58*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-16.25*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-18.47*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-24.38*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-28.81*	
		For ADA Handrail P-Loop End Return, Add Per Each	*97.85*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*18.24*	
		For Aluminum, Satin Finish, Add	*31.03*	
		For Aluminum, Clear Anodized Finish, Add	*48.02*	
		For Aluminum, Dark Anodized Finish, Add	*55.41*	
		For Galvanizing, Add	*29.55*	
		For Wrought Iron, Add	*10.65*	
		For Solid Steel Rails, Add	*21.30*	
		For 304 Stainless Steel, Add	*236.42*	
		For 316 Stainless Steel, Add	*265.97*	
		For 2" Wheel Guard, Add	*7.02*	
		For 4" High Kick Plate, Add	*9.24*	
		For 6" High Kick Plate, Add	*14.78*	
		For Curved Rail, Add	*54.12*	
		For Mounting On Stairs, Add	*31.96*	
		For Mounting On Slopes, Add	*10.65*	
		For Post Base Flange With Screws, Add Per Post	*20.76*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*31.40*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*45.10*	
		For Nylon Coating, Add	*11.08*	
05 52 13 00-0023	LF	1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	114.70	16.32
		For Schedule 80 Handrail, Add	*14.58*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*106.72*	
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*77.55*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-18.05*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-20.52*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-27.08*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-32.00*	
		For ADA Handrail P-Loop End Return, Add Per Each	*110.29*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*19.96*	
		For Aluminum, Satin Finish, Add	*34.47*	
		For Aluminum, Clear Anodized Finish, Add	*53.34*	
		For Aluminum, Dark Anodized Finish, Add	*61.55*	
		For Galvanizing, Add	*32.82*	
		For Wrought Iron, Add	*11.47*	
		For Solid Steel Rails, Add	*22.94*	
		For 304 Stainless Steel, Add	*262.59*	
		For 316 Stainless Steel, Add	*295.42*	
		For 2" Wheel Guard, Add	*7.80*	
		For 4" High Kick Plate, Add	*10.26*	
		For 6" High Kick Plate, Add	*16.41*	
		For Curved Rail, Add	*59.03*	
		For Mounting On Stairs, Add	*34.41*	
		For Mounting On Slopes, Add	*11.47*	
		For Post Base Flange With Screws, Add Per Post	*20.76*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*31.40*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*49.19*	
		For Nylon Coating, Add	*12.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0024	LF	2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	132.93	16.32
		For Schedule 80 Handrail, Add	*16.48*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*106.72*	
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*77.55*	
		For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*134.72*	
		For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*95.55*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-22.06*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-25.07*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-33.10*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-39.11*	
		For ADA Handrail P-Loop End Return, Add Per Each	*133.17*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*22.95*	
		For Aluminum, Satin Finish, Add	*42.12*	
		For Aluminum, Clear Anodized Finish, Add	*65.19*	
		For Aluminum, Dark Anodized Finish, Add	*75.22*	
		For Galvanizing, Add	*40.12*	
		For Wrought Iron, Add	*13.29*	
		For Solid Steel Rails, Add	*26.59*	
		For 304 Stainless Steel, Add	*320.93*	
		For 316 Stainless Steel, Add	*361.04*	
		For 2" Wheel Guard, Add	*9.53*	
		For 4" High Kick Plate, Add	*12.54*	
		For 6" High Kick Plate, Add	*20.06*	
		For Curved Rail, Add	*69.97*	
		For Mounting On Stairs, Add	*39.88*	
		For Mounting On Slopes, Add	*13.29*	
		For Post Base Flange With Screws, Add Per Post	*20.76*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*31.40*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*58.31*	
		For Nylon Coating, Add	*15.04*	
05 52 13 00-0025	LF	2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	154.29	16.32
		For Schedule 80 Handrail, Add	*18.41*	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	*59.91*	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*44.16*	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*28.39*	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	*71.17*	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*52.45*	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*33.73*	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	*93.52*	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	*68.92*	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	*44.31*	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	*93.35*	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	*68.96*	
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*106.72*	
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*77.55*	
		For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	*134.72*	
		For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*95.55*	
		For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	*136.89*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-26.76*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-30.41*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-40.14*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-47.44*	
		For ADA Handrail P-Loop End Return, Add Per Each	*181.99*	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	*26.52*	
		For Aluminum, Satin Finish, Add	*51.09*	
		For Aluminum, Clear Anodized Finish, Add	*79.07*	
		For Aluminum, Dark Anodized Finish, Add	*91.24*	
		For Galvanizing, Add	*48.66*	
		For Wrought Iron, Add	*15.43*	
		For Solid Steel Rails, Add	*30.86*	
		For 304 Stainless Steel, Add	*389.28*	
		For 316 Stainless Steel, Add	*437.94*	
		For 2" Wheel Guard, Add	*11.56*	
		For 4" High Kick Plate, Add	*15.21*	
		For 6" High Kick Plate, Add	*24.33*	
		For Curved Rail, Add	*82.78*	
		For Mounting On Stairs, Add	*46.29*	
		For Mounting On Slopes, Add	*15.43*	
		For Post Base Flange With Screws, Add Per Post	*20.76*	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	*31.40*	
		For Custom Design Or Shapes (Square Tops, etc.), Add	*68.99*	
		For Nylon Coating, Add	*18.25*	

05 52 13 00-0026 Railing Infill Panels *(05 52 13)*
Note: Includes field welds and touch-up of welds.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0027		**Wire Mesh Or Welded Wire Mesh, Railing Infill Panels** *(05 52 13 00-0026)*		
		Note: Square weave or square welded wire mesh.		
05 52 13 00-0028	SF	Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	15.81	
05 52 13 00-0029	SF	Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	16.79	
05 52 13 00-0030	SF	Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	17.65	
05 52 13 00-0031	SF	Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	29.85	
05 52 13 00-0032		**Perforated Metal, Railing Infill Panels** *(05 52 13 00-0026)*		
05 52 13 00-0033	SF	Powder Coated Steel, Perforated Metal, Railing Infill Panel	15.51	
05 52 13 00-0034	SF	Galvanized Steel, Perforated Metal, Railing Infill Panel	16.03	
05 52 13 00-0035	SF	Aluminum, Perforated Metal, Railing Infill Panel	17.16	
05 52 13 00-0036	SF	Stainless Steel, Perforated Metal, Railing Infill Panel	34.45	
05 52 13 00-0037		**Expanded Metal, Railing Infill Panels** *(05 52 13 00-0026)*		
05 52 13 00-0038	SF	Powder Coated Steel, Expanded Metal, Railing Infill Panel	7.00	
05 52 13 00-0039	SF	Galvanized Steel, Expanded Metal, Railing Infill Panel	14.30	
05 52 13 00-0040	SF	Aluminum, Expanded Metal, Railing Infill Panel	18.77	
05 52 13 00-0041	SF	Stainless Steel, Expanded Metal, Railing Infill Panel	27.99	
05 52 13 00-0042		**Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings** *(05 52 13)*		
		Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0043	LF	1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	39.78	6.99
		For Schedule 80 Handrail, Add	*2.74*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-4.91*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-5.58*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-7.36*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-8.70*	
		For Stainless Steel, Add	*44.60*	
		For Aluminum, Satin Finish, Add	*9.37*	
		For Curved Rail, Add	*11.93*	
		For Aluminum, Clear Anodized Finish, Add	*14.50*	
		For Aluminum, Dark Anodized Finish, Add	*16.73*	
		For Galvanized Finish, Add	*6.69*	
05 52 13 00-0044	LF	1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	40.50	6.99
		For Schedule 80 Handrail, Add	*3.21*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-5.06*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-5.76*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-7.60*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-8.98*	
		For Stainless Steel, Add	*46.04*	
		For Aluminum, Satin Finish, Add	*9.67*	
		For Curved Rail, Add	*12.15*	
		For Aluminum, Clear Anodized Finish, Add	*14.96*	
		For Aluminum, Dark Anodized Finish, Add	*17.27*	
		For Galvanized Finish, Add	*6.91*	
05 52 13 00-0045	LF	1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	41.22	6.99
		For Schedule 80 Handrail, Add	*9.49*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-5.22*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-5.94*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-7.83*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-9.26*	
		For Stainless Steel, Add	*47.48*	
		For Aluminum, Satin Finish, Add	*9.97*	
		For Curved Rail, Add	*12.37*	
		For Aluminum, Clear Anodized Finish, Add	*15.43*	
		For Aluminum, Dark Anodized Finish, Add	*17.81*	
		For Galvanized Finish, Add	*7.12*	
05 52 13 00-0046	LF	2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	49.49	6.99
		For Schedule 80 Handrail, Add	*4.07*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-7.04*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-8.00*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-10.56*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-12.48*	
		For Stainless Steel, Add	*64.02*	
		For Aluminum, Satin Finish, Add	*13.44*	
		For Curved Rail, Add	*14.85*	
		For Aluminum, Clear Anodized Finish, Add	*20.81*	
		For Aluminum, Dark Anodized Finish, Add	*24.01*	
		For Galvanized Finish, Add	*9.60*	
05 52 13 00-0047	LF	2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	56.33	6.99
		For Schedule 80 Handrail, Add	*4.45*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-8.55*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-9.71*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-12.82*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-15.15*	
		For Stainless Steel, Add	*77.70*	
		For Aluminum, Satin Finish, Add	*16.32*	
		For Curved Rail, Add	*16.90*	
		For Aluminum, Clear Anodized Finish, Add	*25.25*	
		For Aluminum, Dark Anodized Finish, Add	*29.14*	
		For Galvanized Finish, Add	*11.66*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0048		Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings *(05 52 13)*		
		Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF	1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	48.23	7.35
		For Schedule 80 Handrail, Add	*2.74*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-6.77*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-7.69*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-10.15*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-11.99*	
		For Stainless Steel, Add	*61.50*	
		For Aluminum, Satin Finish, Add	*12.92*	
		For Curved Rail, Add	*14.47*	
		For Aluminum, Clear Anodized Finish, Add	*19.99*	
		For Aluminum, Dark Anodized Finish, Add	*23.06*	
		For Galvanized Finish, Add	*9.23*	
05 52 13 00-0050	LF	1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	49.24	7.35
		For Schedule 80 Handrail, Add	*3.21*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-6.99*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-7.94*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-10.48*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-12.39*	
		For Stainless Steel, Add	*63.52*	
		For Aluminum, Satin Finish, Add	*13.34*	
		For Curved Rail, Add	*14.77*	
		For Aluminum, Clear Anodized Finish, Add	*20.64*	
		For Aluminum, Dark Anodized Finish, Add	*23.82*	
		For Galvanized Finish, Add	*9.53*	
05 52 13 00-0051	LF	1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	50.00	7.35
		For Schedule 80 Handrail, Add	*9.49*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-7.15*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-8.13*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-10.73*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-12.68*	
		For Stainless Steel, Add	*65.04*	
		For Aluminum, Satin Finish, Add	*13.66*	
		For Curved Rail, Add	*15.00*	
		For Aluminum, Clear Anodized Finish, Add	*21.14*	
		For Aluminum, Dark Anodized Finish, Add	*24.39*	
		For Galvanized Finish, Add	*9.76*	
05 52 13 00-0052	LF	2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	61.54	7.35
		For Schedule 80 Handrail, Add	*4.07*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-9.69*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-11.02*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-14.54*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-17.18*	
		For Stainless Steel, Add	*88.12*	
		For Aluminum, Satin Finish, Add	*18.51*	
		For Curved Rail, Add	*18.46*	
		For Aluminum, Clear Anodized Finish, Add	*28.64*	
		For Aluminum, Dark Anodized Finish, Add	*33.05*	
		For Galvanized Finish, Add	*13.22*	
05 52 13 00-0053	LF	2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	69.10	7.35
		For Schedule 80 Handrail, Add	*4.45*	
		For 11 Gauge A513 Steel Tubing, Deduct	*-11.36*	
		For 12 Gauge A513 Steel Tubing, Deduct	*-12.91*	
		For 14 Gauge A513 Steel Tubing, Deduct	*-17.03*	
		For 16 Gauge A513 Steel Tubing, Deduct	*-20.13*	
		For Stainless Steel, Add	*103.24*	
		For Aluminum, Satin Finish, Add	*21.68*	
		For Curved Rail, Add	*20.73*	
		For Aluminum, Clear Anodized Finish, Add	*33.55*	
		For Aluminum, Dark Anodized Finish, Add	*38.72*	
		For Galvanized Finish, Add	*15.49*	
05 52 13 00-0054		Remove/Reinstall Pipe Railing *(05 52 13)*		
05 52 13 00-0055	LF	Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing	26.22	
05 52 13 00-0056	LF	Removal And Reinstallation Of Floor Mounted Pipe Railing	34.95	
05 52 13 00-0057	EA	Install New Galvanized Steel Pipe Railing Bracket	69.72	
		For Stainless Steel, Add	*69.52*	

05 53 Metal Gratings *(05 50)*

05 53 13 Bar Gratings *(05 53)*

05 53 13 00-0001 Welded Grating *(05 53 13)*

Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0002		**Steel, Welded Grating** *(05 53 13 00-0001)* Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003	SF	3/4" x 1/8" Steel, Welded Grating	14.40	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*2.01*	
		For 304 Stainless Steel, Add	*37.97*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*3.45*	
		For Crossbars At 2" On-Center, Add	*1.28*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.02*	
05 53 13 00-0004	SF	3/4" x 3/16" Steel, Welded Grating	19.30	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*2.84*	
		For 304 Stainless Steel, Add	*53.70*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*4.89*	
		For Crossbars At 2" On-Center, Add	*1.81*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.14*	
05 53 13 00-0005	SF	1" x 1/8" Steel, Welded Grating	17.55	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*2.55*	
		For 304 Stainless Steel, Add	*48.09*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*4.37*	
		For Crossbars At 2" On-Center, Add	*1.62*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.10*	
05 53 13 00-0006	SF	1" x 3/16" Steel, Welded Grating	24.20	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*3.68*	
		For 304 Stainless Steel, Add	*69.43*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*6.32*	
		For Crossbars At 2" On-Center, Add	*2.34*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.26*	
05 53 13 00-0007	SF	1" x 1/4" Steel, Welded Grating	30.84	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.81*	
		For 304 Stainless Steel, Add	*90.75*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*8.25*	
		For Crossbars At 2" On-Center, Add	*3.05*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.43*	
05 53 13 00-0008	SF	1-1/4" x 1/8" Steel, Welded Grating	20.73	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*3.09*	
		For 304 Stainless Steel, Add	*58.29*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*5.30*	
		For Crossbars At 2" On-Center, Add	*1.96*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.18*	
05 53 13 00-0009	SF	1-1/4" x 3/16" Steel, Welded Grating	28.81	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.46*	
		For 304 Stainless Steel, Add	*84.23*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*7.66*	
		For Crossbars At 2" On-Center, Add	*2.83*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.38*	
05 53 13 00-0010	SF	1-1/2" x 1/8" Steel, Welded Grating	23.92	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*3.63*	
		For 304 Stainless Steel, Add	*68.53*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*6.23*	
		For Crossbars At 2" On-Center, Add	*2.31*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.26*	
05 53 13 00-0011	SF	1-1/2" x 3/16" Steel, Welded Grating	34.25	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*5.29*	
		For 304 Stainless Steel, Add	*99.86*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*9.08*	
		For Crossbars At 2" On-Center, Add	*3.36*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0012	SF	1-1/2" x 1/4" Steel, Welded Grating	44.36	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*7.01*	
		For 304 Stainless Steel, Add	*132.32*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*12.04*	
		For Crossbars At 2" On-Center, Add	*4.45*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.13*	
05 53 13 00-0013	SF	1-3/4" x 3/16" Steel, Welded Grating	39.18	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*6.13*	
		For 304 Stainless Steel, Add	*115.69*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*10.52*	
		For Crossbars At 2" On-Center, Add	*3.89*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.00*	
05 53 13 00-0014	SF	2" x 3/16" Steel, Welded Grating	43.80	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*6.91*	
		For 304 Stainless Steel, Add	*130.52*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*11.87*	
		For Crossbars At 2" On-Center, Add	*4.39*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.12*	
05 53 13 00-0015	SF	2-1/4" x 3/16" Steel, Welded Grating	48.70	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*7.75*	
		For 304 Stainless Steel, Add	*146.25*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*13.30*	
		For Crossbars At 2" On-Center, Add	*4.92*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.24*	
05 53 13 00-0016	SF	2-1/2" x 3/16" Steel, Welded Grating	53.32	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*8.53*	
		For 304 Stainless Steel, Add	*161.08*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*14.65*	
		For Crossbars At 2" On-Center, Add	*5.42*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.36*	

05 53 13 00-0017 Pressure Locked Grating *(05 53 13)*

Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.

05 53 13 00-0018 Steel, Pressure Locked Grating *(05 53 13 00-0017)*

Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.

05 53 13 00-0019	SF	3/4" x 1/8" Steel, Pressure Locked Grating	27.24	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.05*	
		For 304 Stainless Steel, Add	*46.16*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*7.20*	
		For Crossbars At 2" On-Center, Add	*2.66*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.34*	
05 53 13 00-0020	SF	3/4" x 3/16" Steel, Pressure Locked Grating	33.54	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*5.08*	
		For 304 Stainless Steel, Add	*57.94*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*9.04*	
		For Crossbars At 2" On-Center, Add	*3.34*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.50*	
05 53 13 00-0021	SF	1" x 1/8" Steel, Pressure Locked Grating	29.93	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.49*	
		For 304 Stainless Steel, Add	*51.19*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*7.99*	
		For Crossbars At 2" On-Center, Add	*2.95*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0022	SF	1" x 3/16" Steel, Pressure Locked Grating	40.75	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*6.26*	
		For 304 Stainless Steel, Add	*71.43*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 7/16" On-Center, Add	*55.36*	
		For Bearing Bars At 15/16" On-Center, Add	*11.15*	
		For Crossbars At 2" On-Center, Add	*4.12*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.68*	
05 53 13 00-0023	SF	1-1/4" x 1/8" Steel, Pressure Locked Grating	33.54	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*5.08*	
		For 304 Stainless Steel, Add	*57.94*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*9.04*	
		For Crossbars At 2" On-Center, Add	*3.34*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.50*	
05 53 13 00-0024	SF	1-1/4" x 3/16" Steel, Pressure Locked Grating	45.75	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*7.08*	
		For 304 Stainless Steel, Add	*80.79*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*12.61*	
		For Crossbars At 2" On-Center, Add	*4.66*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.80*	
05 53 13 00-0025	SF	1-1/2" x 1/8" Steel, Pressure Locked Grating	37.32	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*5.70*	
		For 304 Stainless Steel, Add	*65.02*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*10.15*	
		For Crossbars At 2" On-Center, Add	*3.75*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.59*	
05 53 13 00-0026	SF	1-1/2" x 3/16" Steel, Pressure Locked Grating	51.57	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*7.94*	
		For 304 Stainless Steel, Add	*90.61*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 7/16" On-Center, Add	*70.22*	
		For Bearing Bars At 15/16" On-Center, Add	*14.14*	
		For Crossbars At 2" On-Center, Add	*5.23*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.31*	
05 53 13 00-0027	SF	1-3/4" x 3/16" Steel, Pressure Locked Grating	56.85	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*8.81*	
		For 304 Stainless Steel, Add	*100.49*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*15.68*	
		For Crossbars At 2" On-Center, Add	*5.80*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.45*	
05 53 13 00-0028	SF	2" x 3/16" Steel, Pressure Locked Grating	61.16	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*9.52*	
		For 304 Stainless Steel, Add	*108.56*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*16.94*	
		For Crossbars At 2" On-Center, Add	*6.27*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.55*	
05 53 13 00-0029	SF	2-1/4" x 3/16" Steel, Pressure Locked Grating	65.29	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*10.19*	
		For 304 Stainless Steel, Add	*116.28*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*18.15*	
		For Crossbars At 2" On-Center, Add	*6.71*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.66*	
05 53 13 00-0030	SF	2-1/2" x 3/16" Steel, Pressure Locked Grating	68.86	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*10.78*	
		For 304 Stainless Steel, Add	*122.96*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*19.19*	
		For Crossbars At 2" On-Center, Add	*7.10*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.75*	

05 53 13 00-0031 Aluminum, Type 6063, Pressure Locked Grating *(05 53 13 00-0017)*
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0032	SF	3/4" x 1/8" Aluminum, Pressure Locked Grating	17.20	1.28
		For Bearing Bars At 15/16" On-Center, Add	*4.27*	
		For Crossbars At 2" On-Center, Add	*1.58*	
		For Set In Place Without Bolting, Deduct	*-2.09*	
		For Powder Coating, Add	*2.19*	
05 53 13 00-0033	SF	3/4" x 3/16" Aluminum, Pressure Locked Grating	23.19	1.28
		For Bearing Bars At 15/16" On-Center, Add	*6.02*	
		For Crossbars At 2" On-Center, Add	*2.23*	
		For Set In Place Without Bolting, Deduct	*-2.24*	
		For Powder Coating, Add	*3.09*	
05 53 13 00-0034	SF	1" x 1/8" Aluminum, Pressure Locked Grating	21.90	1.28
		For Bearing Bars At 15/16" On-Center, Add	*5.64*	
		For Crossbars At 2" On-Center, Add	*2.09*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.21*	
		For Powder Coating, Add	*2.90*	
05 53 13 00-0035	SF	1" x 3/16" Aluminum, Pressure Locked Grating	29.65	1.28
		For Bearing Bars At 7/16" On-Center, Add	*39.27*	
		For Bearing Bars At 15/16" On-Center, Add	*7.91*	
		For Crossbars At 2" On-Center, Add	*2.92*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.40*	
		For Powder Coating, Add	*4.06*	
05 53 13 00-0036	SF	1-1/4" x 1/8" Aluminum, Pressure Locked Grating	25.31	1.28
		For Bearing Bars At 15/16" On-Center, Add	*6.64*	
		For Crossbars At 2" On-Center, Add	*2.46*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.29*	
		For Powder Coating, Add	*3.41*	
05 53 13 00-0037	SF	1-1/4" x 3/16" Aluminum, Pressure Locked Grating	33.76	1.28
		For Bearing Bars At 15/16" On-Center, Add	*9.11*	
		For Crossbars At 2" On-Center, Add	*3.37*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.50*	
		For Powder Coating, Add	*4.68*	
05 53 13 00-0038	SF	1-1/2" x 1/8" Aluminum, Pressure Locked Grating	28.52	1.28
		For Bearing Bars At 15/16" On-Center, Add	*7.58*	
		For Crossbars At 2" On-Center, Add	*2.80*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.37*	
		For Powder Coating, Add	*3.89*	
05 53 13 00-0039	SF	1-1/2" x 3/16" Aluminum, Pressure Locked Grating	38.00	1.28
		For Bearing Bars At 7/16" On-Center, Add	*51.37*	
		For Bearing Bars At 15/16" On-Center, Add	*10.35*	
		For Crossbars At 2" On-Center, Add	*3.83*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.61*	
		For Powder Coating, Add	*5.31*	
05 53 13 00-0040	SF	1-3/4" x 3/16" Aluminum, Pressure Locked Grating	42.06	1.28
		For Bearing Bars At 15/16" On-Center, Add	*11.53*	
		For Crossbars At 2" On-Center, Add	*4.26*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.71*	
		For Powder Coating, Add	*5.92*	
05 53 13 00-0041	SF	2" x 3/16" Aluminum, Pressure Locked Grating	46.86	1.28
		For Bearing Bars At 15/16" On-Center, Add	*12.93*	
		For Crossbars At 2" On-Center, Add	*4.78*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.83*	
		For Powder Coating, Add	*6.64*	
05 53 13 00-0042	SF	2-1/4" x 3/16" Aluminum, Pressure Locked Grating	50.64	1.28
		For Bearing Bars At 15/16" On-Center, Add	*14.04*	
		For Crossbars At 2" On-Center, Add	*5.19*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.92*	
		For Powder Coating, Add	*7.21*	
05 53 13 00-0043	SF	2-1/2" x 3/16" Aluminum, Pressure Locked Grating	55.13	1.28
		For Bearing Bars At 15/16" On-Center, Add	*15.35*	
		For Crossbars At 2" On-Center, Add	*5.68*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-3.04*	
		For Powder Coating, Add	*7.88*	

05 53 13 00-0044 **Swage Locked Grating** *(05 53 13)*

Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.

05 53 13 00-0045 **Steel, Swage Locked Grating** *(05 53 13 00-0044)*

Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0046	SF	1" x 3/16" Steel, Swaged Grating	44.60	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*3.87*	
		For 304 Stainless Steel, Add	*69.69*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*26.90*	
		For Crossbars At 2" On-Center, Add	*3.36*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.77*	
05 53 13 00-0047	SF	1-1/4" x 3/16" Steel, Swaged Grating	49.78	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.34*	
		For 304 Stainless Steel, Add	*78.27*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*30.21*	
		For Crossbars At 2" On-Center, Add	*3.78*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-2.90*	
05 53 13 00-0048	SF	1-1/2" x 3/16" Steel, Swaged Grating	54.40	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.72*	
		For 304 Stainless Steel, Add	*84.99*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*32.81*	
		For Crossbars At 2" On-Center, Add	*4.10*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.39*	
05 53 13 00-0049	SF	1-3/4" x 3/16" Steel, Swaged Grating	62.35	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*5.45*	
		For 304 Stainless Steel, Add	*98.17*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*37.89*	
		For Crossbars At 2" On-Center, Add	*4.74*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.58*	
05 53 13 00-0050	SF	2" x 3/16" Steel, Swaged Grating	70.33	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*6.18*	
		For 304 Stainless Steel, Add	*111.40*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*43.00*	
		For Crossbars At 2" On-Center, Add	*5.38*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.78*	
05 53 13 00-0051	SF	2-1/4" x 3/16" Steel, Swaged Grating	78.27	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*6.91*	
		For 304 Stainless Steel, Add	*124.57*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*48.08*	
		For Crossbars At 2" On-Center, Add	*6.01*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.98*	
05 53 13 00-0052	SF	2-1/2" x 3/16" Steel, Swaged Grating	86.25	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*7.65*	
		For 304 Stainless Steel, Add	*137.80*	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	*53.19*	
		For Crossbars At 2" On-Center, Add	*6.65*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-4.18*	

05 53 13 00-0053 Aluminum Grating, Type 6063, Swage Locked *(05 53 13 00-0044)*

Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.

05 53 13 00-0054	SF	1" x 1/8" Aluminum, Swaged Grating	20.25	1.28
		For Bearing Bars At 15/16" On-Center, Add	*11.32*	
		For Crossbars At 2" On-Center, Add	*1.41*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.16*	
		For Powder Coating, Add	*2.65*	
05 53 13 00-0055	SF	1" x 3/16" Aluminum, Swaged Grating	26.16	1.28
		For Bearing Bars At 15/16" On-Center, Add	*15.10*	
		For Crossbars At 2" On-Center, Add	*1.89*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.31*	
		For Powder Coating, Add	*3.54*	
05 53 13 00-0056	SF	1-1/4" x 1/8" Aluminum, Swaged Grating	22.91	1.28
		For Bearing Bars At 15/16" On-Center, Add	*13.02*	
		For Crossbars At 2" On-Center, Add	*1.63*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.23*	
		For Powder Coating, Add	*3.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0057	SF	1-1/4" x 3/16" Aluminum, Swaged Grating	30.14	1.28
		For Bearing Bars At 15/16" On-Center, Add	*17.64*	
		For Crossbars At 2" On-Center, Add	*2.21*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.41*	
		For Powder Coating, Add	*4.14*	
05 53 13 00-0058	SF	1-1/2" x 1/8" Aluminum, Swaged Grating	26.06	1.28
		For Bearing Bars At 15/16" On-Center, Add	*15.03*	
		For Crossbars At 2" On-Center, Add	*1.88*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.31*	
		For Powder Coating, Add	*3.52*	
05 53 13 00-0059	SF	1-1/2" x 3/16" Aluminum, Swaged Grating	34.41	1.28
		For Bearing Bars At 15/16" On-Center, Add	*20.38*	
		For Crossbars At 2" On-Center, Add	*2.55*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.52*	
		For Powder Coating, Add	*4.78*	
05 53 13 00-0060	SF	1-3/4" x 3/16" Aluminum, Swaged Grating	39.32	1.28
		For Bearing Bars At 15/16" On-Center, Add	*23.52*	
		For Crossbars At 2" On-Center, Add	*2.94*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.64*	
		For Powder Coating, Add	*5.51*	
05 53 13 00-0061	SF	2" x 3/16" Aluminum, Swaged Grating	44.20	1.28
		For Bearing Bars At 15/16" On-Center, Add	*26.64*	
		For Crossbars At 2" On-Center, Add	*3.33*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.76*	
		For Powder Coating, Add	*6.24*	
05 53 13 00-0062	SF	2-1/4" x 3/16" Aluminum, Swaged Grating	49.11	1.28
		For Bearing Bars At 15/16" On-Center, Add	*29.79*	
		For Crossbars At 2" On-Center, Add	*3.72*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-2.89*	
		For Powder Coating, Add	*6.98*	
05 53 13 00-0063	SF	2-1/2" x 3/16" Aluminum, Swaged Grating	54.00	1.28
		For Bearing Bars At 15/16" On-Center, Add	*32.92*	
		For Crossbars At 2" On-Center, Add	*4.11*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting, Deduct	*-3.01*	
		For Powder Coating, Add	*7.71*	

05 53 13 00-0064 Riveted Grating *(05 53 13)*

Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.

05 53 13 00-0065 Steel, Riveted Grating *(05 53 13 00-0064)*

Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.

05 53 13 00-0066	SF	3/4" x 1/8", 7.0 Lb./SF, Steel, Riveted Grating	84.77	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*3.95*	
		For 304 Stainless Steel, Add	*70.61*	
		For 5/8" Clear Opening, Add	*28.36*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.78*	
05 53 13 00-0067	SF	3/4" x 3/16", 8.5 Lb./SF, Steel, Riveted Grating	99.82	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.67*	
		For 304 Stainless Steel, Add	*83.54*	
		For 5/8" Clear Opening, Add	*33.55*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-4.15*	
05 53 13 00-0068	SF	1" x 1/8", 8.0 Lb./SF, Steel, Riveted Grating	91.70	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.28*	
		For 304 Stainless Steel, Add	*76.56*	
		For 5/8" Clear Opening, Add	*30.75*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-3.95*	
05 53 13 00-0069	SF	1" x 3/16", 9.5 Lb./SF, Steel, Riveted Grating	105.55	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.94*	
		For 304 Stainless Steel, Add	*88.46*	
		For 5/8" Clear Opening, Add	*35.53*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-4.30*	
05 53 13 00-0070	SF	1-1/4" x 1/8", 9.0 Lb./SF, Steel, Riveted Grating	97.44	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.55*	
		For 304 Stainless Steel, Add	*81.49*	
		For 5/8" Clear Opening, Add	*32.73*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-4.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0071	SF	1-1/4" x 3/16", 11.1 Lb./SF, Steel, Riveted Grating	116.23	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*5.46*	
		For 304 Stainless Steel, Add	*97.63*	
		For 5/8" Clear Opening, Add	*39.21*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-4.56*	
05 53 13 00-0072	SF	1-1/2" x 1/8", 10.1 Lb./SF, Steel, Riveted Grating	103.53	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*4.82*	
		For 304 Stainless Steel, Add	*86.24*	
		For 5/8" Clear Opening, Add	*34.63*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-4.61*	
05 53 13 00-0073	SF	1-1/2" x 3/16", 12.5 Lb./SF, Steel, Riveted Grating	123.62	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*5.78*	
		For 304 Stainless Steel, Add	*103.49*	
		For 5/8" Clear Opening, Add	*41.57*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-5.12*	
05 53 13 00-0074	SF	1-3/4" x 3/16", 14.0 Lb./SF, Steel, Riveted Grating	133.87	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*6.28*	
		For 304 Stainless Steel, Add	*112.30*	
		For 5/8" Clear Opening, Add	*45.10*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-5.37*	
05 53 13 00-0075	SF	2" x 3/16", 17.0 Lb./SF, Steel, Riveted Grating	156.76	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*7.37*	
		For 304 Stainless Steel, Add	*131.96*	
		For 5/8" Clear Opening, Add	*53.00*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-5.94*	
05 53 13 00-0076	SF	2-1/4" x 3/16", 18.5 Lb./SF, Steel, Riveted Grating	164.74	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*7.76*	
		For 304 Stainless Steel, Add	*138.81*	
		For 5/8" Clear Opening, Add	*55.75*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-6.14*	
05 53 13 00-0077	SF	2-1/2" x 3/16", 20.0 Lb./SF, Steel, Riveted Grating	171.84	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	*0.22*	
		For Galvanized Steel, Add	*8.10*	
		For 304 Stainless Steel, Add	*144.91*	
		For 5/8" Clear Opening, Add	*58.20*	
		For Serrated Wear Surface, Add	*0.16*	
		For Set In Place Without Bolting Or Tack Welding, Deduct	*-6.32*	

05 53 13 00-0078 Aluminum, Riveted Grating *(05 53 13 00-0064)*

Note: 1" clear opening, bolted in place and in all sizes.

05 53 13 00-0079	SF	3/4" x 1/8", 2.4 Lb./SF, Aluminum, Riveted Grating	42.94	1.28
		For 5/8" Clear Opening, Add	*13.93*	
		For Powder Coating, Add	*6.06*	
		For Set In Place Without Bolting, Deduct	*-2.73*	
05 53 13 00-0080	SF	3/4" x 3/16", 2.9 Lb./SF, Aluminum, Riveted Grating	50.92	1.28
		For 5/8" Clear Opening, Add	*16.68*	
		For Powder Coating, Add	*7.25*	
		For Set In Place Without Bolting, Deduct	*-2.93*	
05 53 13 00-0081	SF	1" x 1/8", 2.7 Lb./SF, Aluminum, Riveted Grating	47.20	1.28
		For 5/8" Clear Opening, Add	*15.40*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*6.69*	
		For Set In Place Without Bolting, Deduct	*-2.84*	
05 53 13 00-0082	SF	1" x 3/16", 3.2 Lb./SF, Aluminum, Riveted Grating	55.00	1.28
		For 5/8" Clear Opening, Add	*18.09*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*7.86*	
		For Set In Place Without Bolting, Deduct	*-3.03*	
05 53 13 00-0083	SF	1-1/4" x 1/8", 3.1 Lb./SF, Aluminum, Riveted Grating	52.91	1.28
		For 5/8" Clear Opening, Add	*17.37*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*7.55*	
		For Set In Place Without Bolting, Deduct	*-2.98*	
05 53 13 00-0084	SF	1-1/4" x 3/16", 3.8 Lb./SF, Aluminum, Riveted Grating	63.74	1.28
		For 5/8" Clear Opening, Add	*21.10*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*9.18*	
		For Set In Place Without Bolting, Deduct	*-3.25*	
05 53 13 00-0085	SF	1-1/2" x 1/8", 3.4 Lb./SF, Aluminum, Riveted Grating	56.81	1.28
		For 5/8" Clear Opening, Add	*18.71*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*8.14*	
		For Set In Place Without Bolting, Deduct	*-3.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0086	SF	1-1/2" x 3/16", 4.3 Lb./SF, Aluminum, Riveted Grating	70.56	1.28
		For 5/8" Clear Opening, Add	*23.46*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*10.20*	
		For Set In Place Without Bolting, Deduct	*-3.42*	
05 53 13 00-0087	SF	1-3/4" x 3/16", 4.8 Lb./SF, Aluminum, Riveted Grating	77.77	1.28
		For 5/8" Clear Opening, Add	*25.94*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*11.28*	
		For Set In Place Without Bolting, Deduct	*-3.60*	
05 53 13 00-0088	SF	2" x 3/16", 5.8 Lb./SF, Aluminum, Riveted Grating	92.58	1.28
		For 5/8" Clear Opening, Add	*31.05*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*13.50*	
		For Set In Place Without Bolting, Deduct	*-3.97*	
05 53 13 00-0089	SF	2-1/4" x 3/16", 6.4 Lb./SF, Aluminum, Riveted Grating	100.98	1.28
		For 5/8" Clear Opening, Add	*33.95*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*14.76*	
		For Set In Place Without Bolting, Deduct	*-4.18*	
05 53 13 00-0090	SF	2-1/2" x 3/16", 7.2 Lb./SF, Aluminum, Riveted Grating	112.25	1.28
		For 5/8" Clear Opening, Add	*37.84*	
		For Serrated Wear Surface, Add	*0.16*	
		For Powder Coating, Add	*16.45*	
		For Set In Place Without Bolting, Deduct	*-4.46*	

05 53 16 Plank Gratings *(05 53)*

05 53 16 00-0001 Grate-Lock Steel Plank Grating *(05 53 16)*

Note: Smooth or traction grip surface.

05 53 16 00-0002	SF	1-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating	18.75	0.99
		For Stair Tread Application, Add	*2.17*	
05 53 16 00-0003	SF	2-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating	20.03	1.23
		For Stair Tread Application, Add	*2.37*	
05 53 16 00-0004	SF	3" Height, 18 Gauge Steel Grate-Lock Plank Grating	21.12	1.34
		For Stair Tread Application, Add	*2.51*	
05 53 16 00-0005	SF	4" Height, 18 Gauge Steel Grate-Lock Plank Grating	23.07	1.45
		For Stair Tread Application, Add	*2.75*	
05 53 16 00-0006	SF	1-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating	22.83	1.10
		For Stair Tread Application, Add	*2.61*	
05 53 16 00-0007	SF	2-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating	24.30	1.34
		For Stair Tread Application, Add	*2.83*	
05 53 16 00-0008	SF	1-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating	28.04	1.28
		For Stair Tread Application, Add	*3.19*	
05 53 16 00-0009	SF	2-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating	29.84	1.58
		For Stair Tread Application, Add	*3.46*	
05 53 16 00-0010	SF	3" Height, 14 Gauge Steel Grate-Lock Plank Grating	31.96	1.98
		For Stair Tread Application, Add	*3.79*	
05 53 16 00-0011	SF	4" Height, 14 Gauge Steel Grate-Lock Plank Grating	35.27	2.21
		For Stair Tread Application, Add	*4.19*	

05 54 Metal Floor Plates *(05 50)*

05 54 00 00-0001 Steel Floor Plates *(05 54)*

05 54 00 00-0002	SF	16 Gauge Steel Raised Or Diamond Pattern Floor Plates	20.98	1.51
05 54 00 00-0003	SF	14 Gauge Steel Raised Or Diamond Pattern Floor Plates	24.03	1.51
05 54 00 00-0004	SF	12 Gauge Steel Raised Or Diamond Pattern Floor Plates	30.16	1.51
05 54 00 00-0005	SF	1/8" Steel Raised Or Diamond Pattern Floor Plates	40.37	1.63
05 54 00 00-0006	SF	1/4" Steel Raised Or Diamond Pattern Floor Plates	51.37	1.75

05 54 00 00-0007 Aluminum Alloy Floor Plates *(05 54)*

05 54 00 00-0008	SF	0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	31.90	1.28
		For Powder Coating, Add	*4.40*	
05 54 00 00-0009	SF	0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	36.61	1.51
		For Powder Coating, Add	*5.05*	
05 54 00 00-0010	SF	0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	41.33	1.63
		For Powder Coating, Add	*5.71*	

05 54 00 00-0011 Type 304 Stainless Steel Floor Plates *(05 54)*

05 54 00 00-0012	SF	1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate	39.36	1.75
05 54 00 00-0013	SF	3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate	47.05	1.98
05 54 00 00-0014	SF	1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate	60.94	2.33

05 55 Metal Stair Treads and Nosings *(05 50)*

05 55 13 Metal Stair Treads *(05 55)*

05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads *(05 55 13)*

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0002	LF	8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	77.99	7.85
		For 3/8" Thick, Add	*16.36*	
05 55 13 00-0003	LF	9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	85.79	7.85
		For 3/8" Thick, Add	*18.31*	
05 55 13 00-0004	LF	10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	93.56	7.85
		For 3/8" Thick, Add	*20.25*	
05 55 13 00-0005	LF	11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	101.39	7.85
		For 3/8" Thick, Add	*22.21*	
05 55 13 00-0006	LF	12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	109.14	7.85
		For 3/8" Thick, Add	*24.14*	

05 55 13 00-0007 Abrasive Cast Iron Stair Treads *(05 55 13)*

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0008	LF	8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	108.23	7.85
05 55 13 00-0009	LF	9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	119.78	7.85
05 55 13 00-0010	LF	10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	131.36	7.85
05 55 13 00-0011	LF	11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	142.91	7.85
05 55 13 00-0012	LF	12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	154.49	7.85

05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads *(05 55 13)*

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 55 13 00-0014	LF	6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread	41.51	7.85
05 55 13 00-0015	LF	9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread	48.58	7.85
05 55 13 00-0016	LF	11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread	51.69	7.85

05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads *(05 55 13)*

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 55 13 00-0018	LF	8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	61.01	7.85
		For Epoxy Sealed For Corrosive Environment, Add	*4.91*	
		For Two Color Tread, Add	*3.68*	
05 55 13 00-0019	LF	9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	61.60	7.85
		For Epoxy Sealed For Corrosive Environment, Add	*4.91*	
		For Two Color Tread, Add	*3.68*	
05 55 13 00-0020	LF	11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	74.31	7.85
		For Epoxy Sealed For Corrosive Environment, Add	*4.91*	
		For Two Color Tread, Add	*3.68*	
05 55 13 00-0021	LF	12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	85.44	7.85
		For Epoxy Sealed For Corrosive Environment, Add	*4.91*	
		For Two Color Tread, Add	*3.68*	
05 55 13 00-0022	LF	15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	99.96	7.85
		For Epoxy Sealed For Corrosive Environment, Add	*4.91*	
		For Two Color Tread, Add	*3.68*	

05 55 13 00-0023 Stair Landing Treads *(05 55 13)*

05 55 13 00-0024 Abrasive Cast Aluminum Stair Landing Treads *(05 55 13 00-0023)*

Note: Includes abrasive diamond pattern surface and anchors.

05 55 13 00-0025	SF	5/16" Thick, Abrasive Cast Aluminum Landing Treads	109.14	7.85
		For 3/8" Thick, Add	*24.14*	

05 55 13 00-0026 Abrasive Cast Iron Stair Landing Treads *(05 55 13 00-0023)*

Note: Includes abrasive diamond pattern surface and anchors.

05 55 13 00-0027	SF	3/8" Thick, Abrasive Cast Iron Landing Treads	154.49	7.85

05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads *(05 55 13 00-0023)*

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.

05 55 13 00-0029	SF	9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads	101.24	7.85
		For Epoxy Sealed For Corrosive Environment, Add	*4.91*	

05 55 13 00-0030 Open Cast Iron Stair Tread *(05 55 13)*

Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.

05 55 13 00-0031	RSR	3'-6" Wide, Open Cast Iron Stair Tread	733.97	46.62
		For Closed Riser, Add	*62.86*	
05 55 13 00-0032	RSR	4'-0" Wide, Open Cast Iron Stair Tread	823.42	53.61
		For Closed Riser, Add	*70.35*	
05 55 13 00-0033	RSR	5'-0" Wide, Open Cast Iron Stair Tread	907.17	62.93
		For Closed Riser, Add	*77.41*	

05 55 16 Metal Stair Nosings *(05 55)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 16 00-0001		**Abrasive Cast Aluminum Nosings** *(05 55 16)* Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002	LF	3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing	33.12	5.36
		For 3/8" Thick, Add	*6.14*	
05 55 16 00-0003	LF	4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing	40.65	5.36
		For 3/8" Thick, Add	*8.02*	
05 55 16 00-0004	LF	6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing	57.43	5.36
		For 3/8" Thick, Add	*12.22*	
05 55 16 00-0005		**Abrasive Cast Iron Nosings** *(05 55 16)* Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006	LF	3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing	38.61	5.36
		For 3/8" Thick, Add	*7.51*	
05 55 16 00-0007	LF	4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing	47.88	5.36
		For 3/8" Thick, Add	*9.83*	
05 55 16 00-0008	LF	6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing	66.21	5.36
		For 3/8" Thick, Add	*14.41*	
05 55 16 00-0009		**Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings** *(05 55 16)* Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010	LF	1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	28.02	5.36
05 55 16 00-0011	LF	3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	31.65	5.36
05 55 16 00-0012	LF	4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	34.42	5.36
05 55 16 00-0013	LF	6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	43.03	5.36
05 55 16 00-0014	LF	1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	29.00	5.36
05 55 16 00-0015	LF	3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	32.09	5.36
05 55 16 00-0016	LF	4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	35.15	5.36
05 55 16 00-0017	LF	3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	33.29	5.36

05 56 Metal Castings *(05 50)*

05 56 00 00-0001		**Castings** *(05 56)*		
05 56 00 00-0002	LB	Up To 150 Lb., Miscellaneous Castings, Light Section	5.78	0.59
05 56 00 00-0003	LB	>150 Lb., Miscellaneous Castings, Heavy Section	9.90	0.46

05 58 Formed Metal Fabrications *(05 50)*

05 58 13 Column Covers *(05 58)*

05 58 13 00-0001		**Architectural Column Cover, Aluminum** *(05 58 13)* Note: Includes snapform column joint, anodized finish, and column collars at top and bottom (Pittcon Series 1500).		
05 58 13 00-0002	LF	10" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	39.34	
05 58 13 00-0003	LF	12" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	46.62	
05 58 13 00-0004	LF	14" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	55.37	
05 58 13 00-0005	LF	16" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	62.65	
05 58 13 00-0006	LF	18" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	70.52	
05 58 13 00-0007	LF	20" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	78.32	
05 58 13 00-0008	LF	24" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	91.12	
05 58 13 00-0009	LF	30" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	109.04	
05 58 13 00-0010	LF	36" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	118.74	
05 58 13 00-0011	LF	42" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	128.44	
05 58 13 00-0012	LF	48" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	143.09	
05 58 13 00-0013	LF	54" Diameter Architectural Column Cover, Aluminum, Anodized Finish, Snapform Section Note: Includes column base and top collar.	163.63	
05 58 13 00-0014		**Monolithic Column Cover, Aluminum** *(05 58 13)* Note: Includes painted, and column collars at top and bottom (Pittcon Series 100).		
05 58 13 00-0015	LF	7" Diameter Monolithic Column Cover, Aluminum, Factory	18.68	
05 58 13 00-0016	LF	8" Diameter Monolithic Column Cover, Aluminum, Factory	20.83	
05 58 13 00-0017	LF	9" Diameter Monolithic Column Cover, Aluminum, Factory	22.81	
05 58 13 00-0018	LF	10" Diameter Monolithic Column Cover, Aluminum, Factory	25.27	
05 58 13 00-0019	LF	12" Diameter Monolithic Column Cover, Aluminum, Factory Primed Note: Including Column Base And Top Collar	29.32	

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 58 16		**Formed Metal Enclosures** *(05 58)*		
05 58 16 00-0001		Drip Pan *(05 58 16)*		
05 58 16 00-0002	SF	Stainless Steel Drip Pan	119.36	6.66
05 58 16 00-0003	SF	Galvanized Steel Drip Pan	117.89	6.66
05 58 16 00-0004	SF	Aluminum Drip Pan	82.63	5.33
05 58 16 00-0005	SF	Plastic Drip Pan	20.84	4.67
05 58 23		**Formed Metal Guards** *(05 58)*		
05 58 23 00-0001		Protective Guard Rails *(05 58 23)*		
		Note: Includes painted finish.		
05 58 23 00-0002		2-Rib, 11 Gauge Steel, Protective Guard Rails *(05 58 23 00-0001)*		
		Note: Steel King Armor Guard.		
05 58 23 00-0003		Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails *(05 58 23 00-0002)*		
		Note: Excludes posts. Includes fasteners.		
05 58 23 00-0004	EA	1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	224.66	25.71
05 58 23 00-0005	EA	2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	263.65	25.71
05 58 23 00-0006	EA	3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	300.44	25.71
05 58 23 00-0007	EA	4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	339.43	25.71
05 58 23 00-0008	EA	5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	376.43	25.71
05 58 23 00-0009	EA	6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	424.38	25.71
05 58 23 00-0010	EA	7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	457.06	25.71
05 58 23 00-0011	EA	8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	507.65	25.71
05 58 23 00-0012	EA	9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	540.84	25.71
05 58 23 00-0013	EA	10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	564.56	25.71
05 58 23 00-0014		Posts For 2-Rib Guard Rails *(05 58 23 00-0002)*		
		Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0015	EA	12" Height, Single Rail Post For 2-Rib Guard Rails	452.83	53.56
05 58 23 00-0016	EA	42" Height, Triple Rail Post For 2-Rib Guard Rails	588.26	53.56
05 58 23 00-0017		3-Rib, 11 Gauge Steel, Protective Guard Rails *(05 58 23 00-0001)*		
		Note: Steel King Steel Guard.		
05 58 23 00-0018		Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails *(05 58 23 00-0017)*		
		Note: Excludes posts. Includes fasteners.		
05 58 23 00-0019	EA	1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	248.16	25.71
05 58 23 00-0020	EA	2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	274.09	25.71
05 58 23 00-0021	EA	3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	306.44	25.71
05 58 23 00-0022	EA	4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	336.69	25.71
05 58 23 00-0023	EA	5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	371.68	25.71
05 58 23 00-0024	EA	6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	388.55	25.71
05 58 23 00-0025	EA	7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	429.13	25.71
05 58 23 00-0026	EA	8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	463.38	25.71
05 58 23 00-0027	EA	9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	499.74	25.71
05 58 23 00-0028	EA	10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	536.63	25.71
05 58 23 00-0029		Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails *(05 58 23 00-0017)*		
		Note: Excludes posts. Includes fasteners and lift-out mounting plate.		
05 58 23 00-0030	EA	1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	364.83	25.71
05 58 23 00-0031	EA	2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	393.29	25.71
05 58 23 00-0032	EA	3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	422.80	25.71
05 58 23 00-0033	EA	4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	457.06	25.71
05 58 23 00-0034	EA	5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	491.31	25.71
05 58 23 00-0035	EA	6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	519.24	25.71
05 58 23 00-0036	EA	7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	551.38	25.71
05 58 23 00-0037	EA	8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	587.75	25.71
05 58 23 00-0038	EA	9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	626.74	25.71
05 58 23 00-0039	EA	10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	661.00	25.71
05 58 23 00-0040		Posts For 3-Rib Guard Rails *(05 58 23 00-0017)*		
		Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0041	EA	18" Height, Single Rail Post For 3-Rib Guard Rails	398.87	53.56
05 58 23 00-0042	EA	42" Height, Double Rail Post For 3-Rib Guard Rails	508.69	53.56
05 58 23 00-0043		All-Welded, Protective Guards *(05 58 23)*		
		Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0044		All-Welded, Protective Guards *(05 58 23 00-0043)*		
05 58 23 00-0045	EA	36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	520.68	71.41
05 58 23 00-0046	EA	48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	547.03	71.41
05 58 23 00-0047	EA	36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	562.32	71.41
05 58 23 00-0048	EA	48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	584.98	71.41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 58 23 00-0049	EA	36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	579.71	71.41
05 58 23 00-0050	EA	48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	607.64	71.41
05 58 23 00-0051	EA	36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	615.54	71.41
05 58 23 00-0052	EA	48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	624.50	71.41
05 58 23 00-0053	EA	48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	667.18	71.41
05 58 23 00-0054		Corner Style, All-Welded, Protective Guards *(05 58 23 00-0043)*		
05 58 23 00-0055	EA	24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	684.05	71.41
05 58 23 00-0056	EA	30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	715.67	71.41
05 58 23 00-0057	EA	24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	728.84	71.41
05 58 23 00-0058	EA	30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	793.66	71.41
05 58 23 00-0059		Warehouse Safety Bollards *(05 58 23)*		
		Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060	EA	24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	319.43	53.56
05 58 23 00-0061	EA	36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	371.50	53.56
05 58 23 00-0062	EA	42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	426.62	53.56
05 58 23 00-0063	EA	36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	441.69	53.56
05 58 23 00-0064	EA	42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	476.47	53.56

05 59 Metal Specialties *(05 50)*

05 59 65 Metal Chain *(05 59)*

05 59 65 00-0001		Alloy Steel Chain, Self Colored, Cut Length *(05 59 65)*		
		Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002	LF	3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored	6.77	1.13
		For Plastic Dipped, Add	*0.68*	
05 59 65 00-0003	LF	1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	8.61	1.50
		For Plastic Dipped, Add	*0.84*	
05 59 65 00-0004	LF	3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored	13.56	2.99
		For Plastic Dipped, Add	*1.14*	
05 59 65 00-0005	LF	1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored	21.74	5.05
		For Plastic Dipped, Add	*1.74*	
05 59 65 00-0006	LF	5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored	36.69	8.54
		For Plastic Dipped, Add	*2.94*	
05 59 65 00-0007	LF	3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	51.50	11.98
		For Plastic Dipped, Add	*4.13*	
05 59 65 00-0008	LF	7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored	70.32	14.97
		For Plastic Dipped, Add	*6.06*	
05 59 65 00-0009	LF	1" Diameter Alloy Steel Chain, Cut Length, Self Colored	101.84	19.95
		For Plastic Dipped, Add	*9.29*	
05 59 65 00-0010	LF	1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	165.85	29.94
		For Plastic Dipped, Add	*15.90*	
05 59 65 00-0011		316L Stainless Steel Chain, Cut Length *(05 59 65)*		
05 59 65 00-0012	CLF	1/8" Diameter 316L Stainless Steel Chain, Cut Length	2,619.63	99.76
05 59 65 00-0013	CLF	3/16" Diameter 316L Stainless Steel Chain, Cut Length	3,223.17	119.76
05 59 65 00-0014	CLF	9/32" Diameter 316L Stainless Steel Chain, Cut Length	4,040.28	149.70
05 59 65 00-0015	CLF	5/16" Diameter 316L Stainless Steel Chain, Cut Length	5,457.82	199.65
05 59 65 00-0016	CLF	3/8" Diameter 316L Stainless Steel Chain, Cut Length	6,219.50	299.41
05 59 65 00-0017	CLF	1/2" Diameter 316L Stainless Steel Chain, Cut Length	9,393.14	499.05

05 59 69 Metal Panels *(05 59)*

05 59 69 00-0001		Woven And Welded Wire Cloth *(05 59 69)*		
		Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0002		Plain Steel Woven And Welded Wire Cloth Panels *(05 59 69 00-0001)*		
05 59 69 00-0003		2" Square Wire Spacing *(05 59 69 00-0002)*		
05 59 69 00-0004	SF	0.12" Thick Wire, 2" Spacing, 0.44 Lb./SF, Woven And Welded Wire Cloth Panels	8.94	3.20
		For Up To 2, Add	*2.64*	
		For >2 To 6, Add	*1.53*	
		For >15 To 40, Deduct	*-0.23*	
		For >40, Deduct	*-0.70*	
		For Galvanized, Add	*2.05*	
		For Aluminum, Add	*2.80*	
		For 304 Stainless Steel, Add	*11.21*	
		For 316 Stainless Steel, Add	*12.84*	
05 59 69 00-0005	SF	0.135" Thick Wire, 2" Spacing, 0.55 Lb./SF, Woven And Welded Wire Cloth Panels	9.57	3.33
		For Up To 2, Add	*2.80*	
		For >2 To 6, Add	*1.62*	
		For >15 To 40, Deduct	*-0.26*	
		For >40, Deduct	*-0.77*	
		For Galvanized, Add	*2.26*	
		For Aluminum, Add	*3.08*	
		For 304 Stainless Steel, Add	*12.31*	
		For 316 Stainless Steel, Add	*14.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0006	SF	0.148" Thick Wire, 2" Spacing, 0.65 Lb./SF, Woven And Welded Wire Cloth Panels	10.23	3.69
		For Up To 2, Add	*3.03*	
		For >2 To 6, Add	*1.76*	
		For >15 To 40, Deduct	*-0.27*	
		For >40, Deduct	*-0.80*	
		For Galvanized, Add	*2.34*	
		For Aluminum, Add	*3.19*	
		For 304 Stainless Steel, Add	*12.74*	
		For 316 Stainless Steel, Add	*14.60*	
05 59 69 00-0007	SF	0.162" Thick Wire, 2" Spacing, 0.78 Lb./SF, Woven And Welded Wire Cloth Panels	10.76	3.85
		For Up To 2, Add	*3.18*	
		For >2 To 6, Add	*1.84*	
		For >15 To 40, Deduct	*-0.28*	
		For >40, Deduct	*-0.85*	
		For Galvanized, Add	*2.48*	
		For Aluminum, Add	*3.38*	
		For 304 Stainless Steel, Add	*13.54*	
		For 316 Stainless Steel, Add	*15.51*	
05 59 69 00-0008	SF	0.177" Thick Wire, 2" Spacing, 0.92 Lb./SF, Woven And Welded Wire Cloth Panels	11.81	4.31
		For Up To 2, Add	*3.51*	
		For >2 To 6, Add	*2.04*	
		For >15 To 40, Deduct	*-0.30*	
		For >40, Deduct	*-0.91*	
		For Galvanized, Add	*2.67*	
		For Aluminum, Add	*3.64*	
		For 304 Stainless Steel, Add	*14.54*	
		For 316 Stainless Steel, Add	*16.67*	
05 59 69 00-0009	SF	0.192" Thick Wire, 2" Spacing, 1.08 Lb./SF, Woven And Welded Wire Cloth Panels	13.51	4.80
		For Up To 2, Add	*3.98*	
		For >2 To 6, Add	*2.31*	
		For >15 To 40, Deduct	*-0.36*	
		For >40, Deduct	*-1.07*	
		For Galvanized, Add	*3.13*	
		For Aluminum, Add	*4.27*	
		For 304 Stainless Steel, Add	*17.06*	
		For 316 Stainless Steel, Add	*19.55*	
05 59 69 00-0010	SF	0.207" Thick Wire, 2" Spacing, 1.25 Lb./SF, Woven And Welded Wire Cloth Panels	15.27	5.29
		For Up To 2, Add	*4.46*	
		For >2 To 6, Add	*2.58*	
		For >15 To 40, Deduct	*-0.41*	
		For >40, Deduct	*-1.23*	
		For Galvanized, Add	*3.62*	
		For Aluminum, Add	*4.94*	
		For 304 Stainless Steel, Add	*19.75*	
		For 316 Stainless Steel, Add	*22.63*	
05 59 69 00-0011	SF	0.225" Thick Wire, 2" Spacing, 1.46 Lb./SF, Woven And Welded Wire Cloth Panels	17.44	5.87
		For Up To 2, Add	*5.05*	
		For >2 To 6, Add	*2.92*	
		For >15 To 40, Deduct	*-0.48*	
		For >40, Deduct	*-1.44*	
		For Galvanized, Add	*4.23*	
		For Aluminum, Add	*5.77*	
		For 304 Stainless Steel, Add	*23.09*	
		For 316 Stainless Steel, Add	*26.46*	

05 59 69 00-0012 1-3/4" Square Wire Spacing *(05 59 69 00-0002)*

05 59 69 00-0013	SF	0.12" Thick Wire, 1-3/4" Spacing, 0.49 Lb./SF, Woven And Welded Wire Cloth Panels	9.37	3.39
		For Up To 2, Add	*2.78*	
		For >2 To 6, Add	*1.61*	
		For >15 To 40, Deduct	*-0.24*	
		For >40, Deduct	*-0.73*	
		For Galvanized, Add	*2.14*	
		For Aluminum, Add	*2.92*	
		For 304 Stainless Steel, Add	*11.66*	
		For 316 Stainless Steel, Add	*13.37*	
05 59 69 00-0014	SF	0.135" Thick Wire, 1-3/4" Spacing, 0.62 Lb./SF, Woven And Welded Wire Cloth Panels	10.27	3.56
		For Up To 2, Add	*3.01*	
		For >2 To 6, Add	*1.74*	
		For >15 To 40, Deduct	*-0.28*	
		For >40, Deduct	*-0.83*	
		For Galvanized, Add	*2.42*	
		For Aluminum, Add	*3.31*	
		For 304 Stainless Steel, Add	*13.22*	
		For 316 Stainless Steel, Add	*15.15*	
05 59 69 00-0015	SF	0.148" Thick Wire, 1-3/4" Spacing, 0.74 Lb./SF, Woven And Welded Wire Cloth Panels	11.10	4.00
		For Up To 2, Add	*3.29*	
		For >2 To 6, Add	*1.91*	
		For >15 To 40, Deduct	*-0.29*	
		For >40, Deduct	*-0.86*	
		For Galvanized, Add	*2.53*	
		For Aluminum, Add	*3.45*	
		For 304 Stainless Steel, Add	*13.80*	
		For 316 Stainless Steel, Add	*15.81*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0016	SF	0.162" Thick Wire, 1-3/4" Spacing, 0.88 Lb./SF, Woven And Welded Wire Cloth Panels	11.57	4.13
		For Up To 2, Add	*3.42*	
		For >2 To 6, Add	*1.98*	
		For >15 To 40, Deduct	*-0.30*	
		For >40, Deduct	*-0.91*	
		For Galvanized, Add	*2.67*	
		For Aluminum, Add	*3.64*	
		For 304 Stainless Steel, Add	*14.54*	
		For 316 Stainless Steel, Add	*16.67*	
05 59 69 00-0017	SF	0.177" Thick Wire, 1-3/4" Spacing, 1.04 Lb./SF, Woven And Welded Wire Cloth Panels	12.70	4.63
		For Up To 2, Add	*3.78*	
		For >2 To 6, Add	*2.20*	
		For >15 To 40, Deduct	*-0.33*	
		For >40, Deduct	*-0.98*	
		For Galvanized, Add	*2.87*	
		For Aluminum, Add	*3.91*	
		For 304 Stainless Steel, Add	*15.65*	
		For 316 Stainless Steel, Add	*17.93*	
05 59 69 00-0018	SF	0.192" Thick Wire, 1-3/4" Spacing, 1.22 Lb./SF, Woven And Welded Wire Cloth Panels	14.55	5.18
		For Up To 2, Add	*4.29*	
		For >2 To 6, Add	*2.49*	
		For >15 To 40, Deduct	*-0.38*	
		For >40, Deduct	*-1.15*	
		For Galvanized, Add	*3.37*	
		For Aluminum, Add	*4.59*	
		For 304 Stainless Steel, Add	*18.36*	
		For 316 Stainless Steel, Add	*21.04*	
05 59 69 00-0019	SF	0.207" Thick Wire, 1-3/4" Spacing, 1.41 Lb./SF, Woven And Welded Wire Cloth Panels	16.42	5.68
		For Up To 2, Add	*4.80*	
		For >2 To 6, Add	*2.78*	
		For >15 To 40, Deduct	*-0.44*	
		For >40, Deduct	*-1.33*	
		For Galvanized, Add	*3.89*	
		For Aluminum, Add	*5.31*	
		For 304 Stainless Steel, Add	*21.24*	
		For 316 Stainless Steel, Add	*24.34*	
05 59 69 00-0020	SF	0.225" Thick Wire, 1-3/4" Spacing, 1.65 Lb./SF, Woven And Welded Wire Cloth Panels	18.77	6.31
		For Up To 2, Add	*5.44*	
		For >2 To 6, Add	*3.14*	
		For >15 To 40, Deduct	*-0.52*	
		For >40, Deduct	*-1.55*	
		For Galvanized, Add	*4.55*	
		For Aluminum, Add	*6.21*	
		For 304 Stainless Steel, Add	*24.84*	
		For 316 Stainless Steel, Add	*28.46*	

05 59 69 00-0021 1-1/2" Square Wire Spacing *(05 59 69 00-0002)*

05 59 69 00-0022	SF	0.12" Thick Wire, 1-1/2" Spacing, 0.57 Lb./SF, Woven And Welded Wire Cloth Panels	10.39	3.77
		For Up To 2, Add	*3.08*	
		For >2 To 6, Add	*1.79*	
		For >15 To 40, Deduct	*-0.27*	
		For >40, Deduct	*-0.81*	
		For Galvanized, Add	*2.37*	
		For Aluminum, Add	*3.23*	
		For 304 Stainless Steel, Add	*12.94*	
		For 316 Stainless Steel, Add	*14.82*	
05 59 69 00-0023	SF	0.135" Thick Wire, 1-1/2" Spacing, 0.72 Lb./SF, Woven And Welded Wire Cloth Panels	11.36	3.96
		For Up To 2, Add	*3.33*	
		For >2 To 6, Add	*1.93*	
		For >15 To 40, Deduct	*-0.30*	
		For >40, Deduct	*-0.91*	
		For Galvanized, Add	*2.68*	
		For Aluminum, Add	*3.65*	
		For 304 Stainless Steel, Add	*14.62*	
		For 316 Stainless Steel, Add	*16.75*	
05 59 69 00-0024	SF	0.148" Thick Wire, 1-1/2" Spacing, 0.85 Lb./SF, Woven And Welded Wire Cloth Panels	12.14	4.38
		For Up To 2, Add	*3.60*	
		For >2 To 6, Add	*2.09*	
		For >15 To 40, Deduct	*-0.31*	
		For >40, Deduct	*-0.94*	
		For Galvanized, Add	*2.77*	
		For Aluminum, Add	*3.77*	
		For 304 Stainless Steel, Add	*15.10*	
		For 316 Stainless Steel, Add	*17.30*	
05 59 69 00-0025	SF	0.162" Thick Wire, 1-1/2" Spacing, 1.02 Lb./SF, Woven And Welded Wire Cloth Panels	12.77	4.56
		For Up To 2, Add	*3.77*	
		For >2 To 6, Add	*2.19*	
		For >15 To 40, Deduct	*-0.33*	
		For >40, Deduct	*-1.00*	
		For Galvanized, Add	*2.94*	
		For Aluminum, Add	*4.01*	
		For 304 Stainless Steel, Add	*16.06*	
		For 316 Stainless Steel, Add	*18.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0026	SF	0.177" Thick Wire, 1-1/2" Spacing, 1.2 Lb./SF, Woven And Welded Wire Cloth Panels	13.98	5.10
		For Up To 2, Add	*4.16*	
		For >2 To 6, Add	*2.42*	
		For >15 To 40, Deduct	*-0.36*	
		For >40, Deduct	*-1.08*	
		For Galvanized, Add	*3.15*	
		For Aluminum, Add	*4.30*	
		For 304 Stainless Steel, Add	*17.21*	
		For 316 Stainless Steel, Add	*19.72*	
05 59 69 00-0027	SF	0.192" Thick Wire, 1-1/2" Spacing, 1.4 Lb./SF, Woven And Welded Wire Cloth Panels	15.89	5.65
		For Up To 2, Add	*4.68*	
		For >2 To 6, Add	*2.72*	
		For >15 To 40, Deduct	*-0.42*	
		For >40, Deduct	*-1.25*	
		For Galvanized, Add	*3.68*	
		For Aluminum, Add	*5.02*	
		For 304 Stainless Steel, Add	*20.06*	
		For 316 Stainless Steel, Add	*22.99*	
05 59 69 00-0028	SF	0.207" Thick Wire, 1-1/2" Spacing, 1.62 Lb./SF, Woven And Welded Wire Cloth Panels	17.96	6.21
		For Up To 2, Add	*5.25*	
		For >2 To 6, Add	*3.04*	
		For >15 To 40, Deduct	*-0.48*	
		For >40, Deduct	*-1.45*	
		For Galvanized, Add	*4.26*	
		For Aluminum, Add	*5.81*	
		For 304 Stainless Steel, Add	*23.23*	
		For 316 Stainless Steel, Add	*26.62*	
05 59 69 00-0029	SF	0.225" Thick Wire, 1-1/2" Spacing, 1.89 Lb./SF, Woven And Welded Wire Cloth Panels	20.46	6.89
		For Up To 2, Add	*5.93*	
		For >2 To 6, Add	*3.42*	
		For >15 To 40, Deduct	*-0.56*	
		For >40, Deduct	*-1.69*	
		For Galvanized, Add	*4.97*	
		For Aluminum, Add	*6.77*	
		For 304 Stainless Steel, Add	*27.10*	
		For 316 Stainless Steel, Add	*31.05*	
05 59 69 00-0030		1-1/4" Square Wire Spacing *(05 59 69 00-0002)*		
05 59 69 00-0031	SF	0.105" Thick Wire, 1-1/4" Spacing, 0.52 Lb./SF, Woven And Welded Wire Cloth Panels	10.71	4.06
		For Up To 2, Add	*3.23*	
		For >2 To 6, Add	*1.89*	
		For >15 To 40, Deduct	*-0.26*	
		For >40, Deduct	*-0.79*	
		For Galvanized, Add	*2.32*	
		For Aluminum, Add	*3.17*	
		For 304 Stainless Steel, Add	*12.67*	
		For 316 Stainless Steel, Add	*14.52*	
05 59 69 00-0032	SF	0.12" Thick Wire, 1-1/4" Spacing, 0.68 Lb./SF, Woven And Welded Wire Cloth Panels	11.54	4.27
		For Up To 2, Add	*3.45*	
		For >2 To 6, Add	*2.01*	
		For >15 To 40, Deduct	*-0.29*	
		For >40, Deduct	*-0.88*	
		For Galvanized, Add	*2.57*	
		For Aluminum, Add	*3.51*	
		For 304 Stainless Steel, Add	*14.04*	
		For 316 Stainless Steel, Add	*16.09*	
05 59 69 00-0033	SF	0.135" Thick Wire, 1-1/4" Spacing, 0.85 Lb./SF, Woven And Welded Wire Cloth Panels	12.47	4.44
		For Up To 2, Add	*3.68*	
		For >2 To 6, Add	*2.14*	
		For >15 To 40, Deduct	*-0.33*	
		For >40, Deduct	*-0.98*	
		For Galvanized, Add	*2.88*	
		For Aluminum, Add	*3.92*	
		For 304 Stainless Steel, Add	*15.70*	
		For 316 Stainless Steel, Add	*17.99*	
05 59 69 00-0034	SF	0.148" Thick Wire, 1-1/4" Spacing, 1.01 Lb./SF, Woven And Welded Wire Cloth Panels	12.84	4.53
		For Up To 2, Add	*3.78*	
		For >2 To 6, Add	*2.19*	
		For >15 To 40, Deduct	*-0.34*	
		For >40, Deduct	*-1.02*	
		For Galvanized, Add	*2.99*	
		For Aluminum, Add	*4.08*	
		For 304 Stainless Steel, Add	*16.32*	
		For 316 Stainless Steel, Add	*18.70*	
05 59 69 00-0035	SF	0.162" Thick Wire, 1-1/4" Spacing, 1.2 Lb./SF, Woven And Welded Wire Cloth Panels	13.98	5.11
		For Up To 2, Add	*4.16*	
		For >2 To 6, Add	*2.42*	
		For >15 To 40, Deduct	*-0.36*	
		For >40, Deduct	*-1.07*	
		For Galvanized, Add	*3.15*	
		For Aluminum, Add	*4.30*	
		For 304 Stainless Steel, Add	*17.18*	
		For 316 Stainless Steel, Add	*19.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0036	SF	0.177" Thick Wire, 1-1/4" Spacing, 1.42 Lb./SF, Woven And Welded Wire Cloth Panels	15.74	5.75
		For Up To 2, Add	*4.68*	
		For >2 To 6, Add	*2.72*	
		For >15 To 40, Deduct	*-0.40*	
		For >40, Deduct	*-1.21*	
		For Galvanized, Add	*3.56*	
		For Aluminum, Add	*4.85*	
		For 304 Stainless Steel, Add	*19.39*	
		For 316 Stainless Steel, Add	*22.22*	
05 59 69 00-0037	SF	0.192" Thick Wire, 1-1/4" Spacing, 1.65 Lb./SF, Woven And Welded Wire Cloth Panels	17.85	6.34
		For Up To 2, Add	*5.26*	
		For >2 To 6, Add	*3.05*	
		For >15 To 40, Deduct	*-0.47*	
		For >40, Deduct	*-1.41*	
		For Galvanized, Add	*4.13*	
		For Aluminum, Add	*5.63*	
		For 304 Stainless Steel, Add	*22.54*	
		For 316 Stainless Steel, Add	*25.82*	
05 59 69 00-0038	SF	0.207" Thick Wire, 1-1/4" Spacing, 1.9 Lb./SF, Woven And Welded Wire Cloth Panels	20.05	6.94
		For Up To 2, Add	*5.86*	
		For >2 To 6, Add	*3.39*	
		For >15 To 40, Deduct	*-0.54*	
		For >40, Deduct	*-1.62*	
		For Galvanized, Add	*4.76*	
		For Aluminum, Add	*6.49*	
		For 304 Stainless Steel, Add	*25.94*	
		For 316 Stainless Steel, Add	*29.73*	
05 59 69 00-0039	SF	0.225" Thick Wire, 1-1/4" Spacing, 2.22 Lb./SF, Woven And Welded Wire Cloth Panels	22.89	7.70
		For Up To 2, Add	*6.63*	
		For >2 To 6, Add	*3.83*	
		For >15 To 40, Deduct	*-0.63*	
		For >40, Deduct	*-1.89*	
		For Galvanized, Add	*5.56*	
		For Aluminum, Add	*7.58*	
		For 304 Stainless Steel, Add	*30.31*	
		For 316 Stainless Steel, Add	*34.73*	

05 59 69 00-0040 1" Square Wire Spacing *(05 59 69 00-0002)*

05 59 69 00-0041	SF	0.105" Thick Wire, 1" Spacing, 0.64 Lb./SF, Woven And Welded Wire Cloth Panels	12.25	4.76
		For Up To 2, Add	*3.72*	
		For >2 To 6, Add	*2.18*	
		For >15 To 40, Deduct	*-0.30*	
		For >40, Deduct	*-0.89*	
		For Galvanized, Add	*2.60*	
		For Aluminum, Add	*3.55*	
		For 304 Stainless Steel, Add	*14.18*	
		For 316 Stainless Steel, Add	*16.25*	
05 59 69 00-0042	SF	0.12" Thick Wire, 1" Spacing, 0.83 Lb./SF, Woven And Welded Wire Cloth Panels	13.10	4.95
		For Up To 2, Add	*3.94*	
		For >2 To 6, Add	*2.30*	
		For >15 To 40, Deduct	*-0.32*	
		For >40, Deduct	*-0.97*	
		For Galvanized, Add	*2.86*	
		For Aluminum, Add	*3.89*	
		For 304 Stainless Steel, Add	*15.58*	
		For 316 Stainless Steel, Add	*17.85*	
05 59 69 00-0043	SF	0.135" Thick Wire, 1" Spacing, 1.04 Lb./SF, Woven And Welded Wire Cloth Panels	13.64	5.18
		For Up To 2, Add	*4.11*	
		For >2 To 6, Add	*2.40*	
		For >15 To 40, Deduct	*-0.34*	
		For >40, Deduct	*-1.01*	
		For Galvanized, Add	*2.96*	
		For Aluminum, Add	*4.04*	
		For 304 Stainless Steel, Add	*16.15*	
		For 316 Stainless Steel, Add	*18.51*	
05 59 69 00-0044	SF	0.148" Thick Wire, 1" Spacing, 1.23 Lb./SF, Woven And Welded Wire Cloth Panels	14.54	5.25
		For Up To 2, Add	*4.31*	
		For >2 To 6, Add	*2.51*	
		For >15 To 40, Deduct	*-0.38*	
		For >40, Deduct	*-1.13*	
		For Galvanized, Add	*3.31*	
		For Aluminum, Add	*4.52*	
		For 304 Stainless Steel, Add	*18.07*	
		For 316 Stainless Steel, Add	*20.71*	
05 59 69 00-0045	SF	0.162" Thick Wire, 1" Spacing, 1.46 Lb./SF, Woven And Welded Wire Cloth Panels	16.19	5.92
		For Up To 2, Add	*4.82*	
		For >2 To 6, Add	*2.80*	
		For >15 To 40, Deduct	*-0.42*	
		For >40, Deduct	*-1.25*	
		For Galvanized, Add	*3.65*	
		For Aluminum, Add	*4.98*	
		For 304 Stainless Steel, Add	*19.92*	
		For 316 Stainless Steel, Add	*22.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0046	SF	0.177" Thick Wire, 1" Spacing, 1.72 Lb./SF, Woven And Welded Wire Cloth Panels	18.16	6.63
		For Up To 2, Add	*5.40*	
		For >2 To 6, Add	*3.14*	
		For >15 To 40, Deduct	*-0.47*	
		For >40, Deduct	*-1.40*	
		For Galvanized, Add	*4.10*	
		For Aluminum, Add	*5.59*	
		For 304 Stainless Steel, Add	*22.37*	
		For 316 Stainless Steel, Add	*25.63*	
05 59 69 00-0047	SF	0.192" Thick Wire, 1" Spacing, 2.01 Lb./SF, Woven And Welded Wire Cloth Panels	20.70	7.35
		For Up To 2, Add	*6.10*	
		For >2 To 6, Add	*3.54*	
		For >15 To 40, Deduct	*-0.54*	
		For >40, Deduct	*-1.63*	
		For Galvanized, Add	*4.79*	
		For Aluminum, Add	*6.53*	
		For 304 Stainless Steel, Add	*26.14*	
		For 316 Stainless Steel, Add	*29.95*	
05 59 69 00-0048	SF	0.207" Thick Wire, 1" Spacing, 2.31 Lb./SF, Woven And Welded Wire Cloth Panels	23.23	8.03
		For Up To 2, Add	*6.79*	
		For >2 To 6, Add	*3.93*	
		For >15 To 40, Deduct	*-0.63*	
		For >40, Deduct	*-1.88*	
		For Galvanized, Add	*5.51*	
		For Aluminum, Add	*7.51*	
		For 304 Stainless Steel, Add	*30.05*	
		For 316 Stainless Steel, Add	*34.43*	
05 59 69 00-0049	SF	0.225" Thick Wire, 1" Spacing, 2.69 Lb./SF, Woven And Welded Wire Cloth Panels	26.43	8.89
		For Up To 2, Add	*7.66*	
		For >2 To 6, Add	*4.42*	
		For >15 To 40, Deduct	*-0.73*	
		For >40, Deduct	*-2.19*	
		For Galvanized, Add	*6.42*	
		For Aluminum, Add	*8.75*	
		For 304 Stainless Steel, Add	*34.99*	
		For 316 Stainless Steel, Add	*40.10*	
05 59 69 00-0050		3/4" Square Wire Spacing *(05 59 69 00-0002)*		
05 59 69 00-0051	SF	0.105" Thick Wire, 3/4" Spacing, 0.83 Lb./SF, Woven And Welded Wire Cloth Panels	12.38	4.75
		For Up To 2, Add	*3.74*	
		For >2 To 6, Add	*2.19*	
		For >15 To 40, Deduct	*-0.30*	
		For >40, Deduct	*-0.91*	
		For Galvanized, Add	*2.66*	
		For Aluminum, Add	*3.63*	
		For 304 Stainless Steel, Add	*14.52*	
		For 316 Stainless Steel, Add	*16.64*	
05 59 69 00-0052	SF	0.12" Thick Wire, 3/4" Spacing, 1.07 Lb./SF, Woven And Welded Wire Cloth Panels	13.83	5.33
		For Up To 2, Add	*4.19*	
		For >2 To 6, Add	*2.45*	
		For >15 To 40, Deduct	*-0.34*	
		For >40, Deduct	*-1.01*	
		For Galvanized, Add	*2.96*	
		For Aluminum, Add	*4.04*	
		For 304 Stainless Steel, Add	*16.15*	
		For 316 Stainless Steel, Add	*18.51*	
05 59 69 00-0053	SF	0.135" Thick Wire, 3/4" Spacing, 1.33 Lb./SF, Woven And Welded Wire Cloth Panels	15.34	6.02
		For Up To 2, Add	*4.67*	
		For >2 To 6, Add	*2.74*	
		For >15 To 40, Deduct	*-0.37*	
		For >40, Deduct	*-1.10*	
		For Galvanized, Add	*3.22*	
		For Aluminum, Add	*4.39*	
		For 304 Stainless Steel, Add	*17.57*	
		For 316 Stainless Steel, Add	*20.13*	
05 59 69 00-0054	SF	0.148" Thick Wire, 3/4" Spacing, 1.58 Lb./SF, Woven And Welded Wire Cloth Panels	16.58	6.42
		For Up To 2, Add	*5.03*	
		For >2 To 6, Add	*2.94*	
		For >15 To 40, Deduct	*-0.40*	
		For >40, Deduct	*-1.20*	
		For Galvanized, Add	*3.52*	
		For Aluminum, Add	*4.81*	
		For 304 Stainless Steel, Add	*19.22*	
		For 316 Stainless Steel, Add	*22.03*	
05 59 69 00-0055	SF	0.162" Thick Wire, 3/4" Spacing, 1.87 Lb./SF, Woven And Welded Wire Cloth Panels	19.11	7.22
		For Up To 2, Add	*5.75*	
		For >2 To 6, Add	*3.36*	
		For >15 To 40, Deduct	*-0.47*	
		For >40, Deduct	*-1.42*	
		For Galvanized, Add	*4.17*	
		For Aluminum, Add	*5.69*	
		For 304 Stainless Steel, Add	*22.75*	
		For 316 Stainless Steel, Add	*26.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0056	SF	0.177" Thick Wire, 3/4" Spacing, 2.2 Lb./SF, Woven And Welded Wire Cloth Panels	21.91	8.08
		For Up To 2, Add	*6.53*	
		For >2 To 6, Add	*3.81*	
		For >15 To 40, Deduct	*-0.56*	
		For >40, Deduct	*-1.67*	
		For Galvanized, Add	*4.91*	
		For Aluminum, Add	*6.69*	
		For 304 Stainless Steel, Add	*26.76*	
		For 316 Stainless Steel, Add	*30.66*	
05 59 69 00-0057	SF	0.192" Thick Wire, 3/4" Spacing, 2.56 Lb./SF, Woven And Welded Wire Cloth Panels	24.88	8.92
		For Up To 2, Add	*7.36*	
		For >2 To 6, Add	*4.27*	
		For >15 To 40, Deduct	*-0.65*	
		For >40, Deduct	*-1.95*	
		For Galvanized, Add	*5.71*	
		For Aluminum, Add	*7.79*	
		For 304 Stainless Steel, Add	*31.15*	
		For 316 Stainless Steel, Add	*35.70*	
05 59 69 00-0058	SF	0.207" Thick Wire, 3/4" Spacing, 2.93 Lb./SF, Woven And Welded Wire Cloth Panels	27.79	9.71
		For Up To 2, Add	*8.15*	
		For >2 To 6, Add	*4.72*	
		For >15 To 40, Deduct	*-0.74*	
		For >40, Deduct	*-2.23*	
		For Galvanized, Add	*6.53*	
		For Aluminum, Add	*8.91*	
		For 304 Stainless Steel, Add	*35.64*	
		For 316 Stainless Steel, Add	*40.84*	
05 59 69 00-0059	SF	0.225" Thick Wire, 3/4" Spacing, 3.41 Lb./SF, Woven And Welded Wire Cloth Panels	31.59	10.73
		For Up To 2, Add	*9.18*	
		For >2 To 6, Add	*5.30*	
		For >15 To 40, Deduct	*-0.86*	
		For >40, Deduct	*-2.59*	
		For Galvanized, Add	*7.61*	
		For Aluminum, Add	*10.37*	
		For 304 Stainless Steel, Add	*41.50*	
		For 316 Stainless Steel, Add	*47.55*	

05 59 69 00-0060 1/2" Square Wire Spacing *(05 59 69 00-0002)*

05 59 69 00-0061	SF	0.105" Thick Wire, 1/2" Spacing, 1.18 Lb./SF, Woven And Welded Wire Cloth Panels	12.97	5.09
		For Up To 2, Add	*3.95*	
		For >2 To 6, Add	*2.31*	
		For >15 To 40, Deduct	*-0.31*	
		For >40, Deduct	*-0.93*	
		For Galvanized, Add	*2.72*	
		For Aluminum, Add	*3.71*	
		For 304 Stainless Steel, Add	*14.86*	
		For 316 Stainless Steel, Add	*17.02*	
05 59 69 00-0062	SF	0.12" Thick Wire, 1/2" Spacing, 1.51 Lb./SF, Woven And Welded Wire Cloth Panels	15.26	6.18
		For Up To 2, Add	*4.70*	
		For >2 To 6, Add	*2.77*	
		For >15 To 40, Deduct	*-0.35*	
		For >40, Deduct	*-1.05*	
		For Galvanized, Add	*3.08*	
		For Aluminum, Add	*4.20*	
		For 304 Stainless Steel, Add	*16.80*	
		For 316 Stainless Steel, Add	*19.25*	
05 59 69 00-0063	SF	0.135" Thick Wire, 1/2" Spacing, 1.88 Lb./SF, Woven And Welded Wire Cloth Panels	18.38	7.32
		For Up To 2, Add	*5.63*	
		For >2 To 6, Add	*3.30*	
		For >15 To 40, Deduct	*-0.43*	
		For >40, Deduct	*-1.29*	
		For Galvanized, Add	*3.80*	
		For Aluminum, Add	*5.18*	
		For 304 Stainless Steel, Add	*20.71*	
		For 316 Stainless Steel, Add	*23.73*	
05 59 69 00-0064	SF	0.148" Thick Wire, 1/2" Spacing, 2.22 Lb./SF, Woven And Welded Wire Cloth Panels	21.13	8.21
		For Up To 2, Add	*6.41*	
		For >2 To 6, Add	*3.75*	
		For >15 To 40, Deduct	*-0.51*	
		For >40, Deduct	*-1.53*	
		For Galvanized, Add	*4.48*	
		For Aluminum, Add	*6.11*	
		For 304 Stainless Steel, Add	*24.46*	
		For 316 Stainless Steel, Add	*28.02*	
05 59 69 00-0065	SF	0.162" Thick Wire, 1/2" Spacing, 2.61 Lb./SF, Woven And Welded Wire Cloth Panels	24.19	9.16
		For Up To 2, Add	*7.28*	
		For >2 To 6, Add	*4.25*	
		For >15 To 40, Deduct	*-0.60*	
		For >40, Deduct	*-1.80*	
		For Galvanized, Add	*5.27*	
		For Aluminum, Add	*7.19*	
		For 304 Stainless Steel, Add	*28.75*	
		For 316 Stainless Steel, Add	*32.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0066	SF	0.177" Thick Wire, 1/2" Spacing, 3.06 Lb./SF, Woven And Welded Wire Cloth Panels	27.66	10.21
		For Up To 2, Add	*8.26*	
		For >2 To 6, Add	*4.81*	
		For >15 To 40, Deduct	*-0.70*	
		For >40, Deduct	*-2.11*	
		For Galvanized, Add	*6.18*	
		For Aluminum, Add	*8.42*	
		For 304 Stainless Steel, Add	*33.70*	
		For 316 Stainless Steel, Add	*38.61*	
05 59 69 00-0067	SF	0.192" Thick Wire, 1/2" Spacing, 3.54 Lb./SF, Woven And Welded Wire Cloth Panels	31.21	11.23
		For Up To 2, Add	*9.23*	
		For >2 To 6, Add	*5.37*	
		For >15 To 40, Deduct	*-0.81*	
		For >40, Deduct	*-2.44*	
		For Galvanized, Add	*7.15*	
		For Aluminum, Add	*9.75*	
		For 304 Stainless Steel, Add	*39.00*	
		For 316 Stainless Steel, Add	*44.69*	
05 59 69 00-0068	SF	0.207" Thick Wire, 1/2" Spacing, 4.04 Lb./SF, Woven And Welded Wire Cloth Panels	34.76	12.17
		For Up To 2, Add	*10.20*	
		For >2 To 6, Add	*5.91*	
		For >15 To 40, Deduct	*-0.93*	
		For >40, Deduct	*-2.78*	
		For Galvanized, Add	*8.16*	
		For Aluminum, Add	*11.12*	
		For 304 Stainless Steel, Add	*44.50*	
		For 316 Stainless Steel, Add	*50.99*	
05 59 69 00-0069	SF	0.225" Thick Wire, 1/2" Spacing, 4.68 Lb./SF, Woven And Welded Wire Cloth Panels	36.38	13.39
		For Up To 2, Add	*10.84*	
		For >2 To 6, Add	*6.31*	
		For >15 To 40, Deduct	*-0.93*	
		For >40, Deduct	*-2.78*	
		For Galvanized, Add	*8.16*	
		For Aluminum, Add	*11.12*	
		For 304 Stainless Steel, Add	*44.50*	
		For 316 Stainless Steel, Add	*50.99*	

05 59 69 00-0070 Expanded Metal Panels *(05 59 69)*

Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.

05 59 69 00-0071 Plain Flattened Expanded Metal Diamond Shape Panels *(05 59 69 00-0070)*

Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.

05 59 69 00-0072	SF	1/4" #20-F Plain Expanded Metal Panel, 0.82 Lb./SF	11.01	4.38
		For Galvanized, Add	*2.27*	
		For Aluminum, Add	*3.10*	
		For 304 Stainless Steel, Add	*12.38*	
		For 316 Stainless Steel, Add	*14.19*	
05 59 69 00-0073	SF	1/4" #18-F Plain Expanded Metal Panel, 1.08 Lb./SF	13.69	4.80
		For Galvanized, Add	*3.21*	
		For Aluminum, Add	*4.37*	
		For 304 Stainless Steel, Add	*17.50*	
		For 316 Stainless Steel, Add	*20.05*	
05 59 69 00-0074	SF	1/2" #20-F Plain Expanded Metal Panel, 0.40 Lb./SF	7.97	3.39
		For Galvanized, Add	*1.52*	
		For Aluminum, Add	*2.08*	
		For 304 Stainless Steel, Add	*8.30*	
		For 316 Stainless Steel, Add	*9.52*	
05 59 69 00-0075	SF	1/2" #18-F Plain Expanded Metal Panel, 0.66 Lb./SF	8.71	3.69
		For Galvanized, Add	*1.67*	
		For Aluminum, Add	*2.27*	
		For 304 Stainless Steel, Add	*9.10*	
		For 316 Stainless Steel, Add	*10.42*	
05 59 69 00-0076	SF	1/2" #16-F Plain Expanded Metal Panel, 0.82 Lb./SF	9.90	4.38
		For Galvanized, Add	*1.78*	
		For Aluminum, Add	*2.43*	
		For 304 Stainless Steel, Add	*9.72*	
		For 316 Stainless Steel, Add	*11.14*	
05 59 69 00-0077	SF	1/2" #13-F Plain Expanded Metal Panel, 1.4 Lb./SF	12.68	5.65
		For Galvanized, Add	*2.27*	
		For Aluminum, Add	*3.09*	
		For 304 Stainless Steel, Add	*12.36*	
		For 316 Stainless Steel, Add	*14.16*	
05 59 69 00-0078	SF	3/4" #16-F Plain Expanded Metal Panel, 0.51 Lb./SF	7.03	3.33
		For Galvanized, Add	*1.14*	
		For Aluminum, Add	*1.55*	
		For 304 Stainless Steel, Add	*6.22*	
		For 316 Stainless Steel, Add	*7.12*	
05 59 69 00-0079	SF	3/4" #14-F Plain Expanded Metal Panel, 0.63 Lb./SF	7.84	3.56
		For Galvanized, Add	*1.36*	
		For Aluminum, Add	*1.85*	
		For 304 Stainless Steel, Add	*7.39*	
		For 316 Stainless Steel, Add	*8.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0080	SF	3/4" #13-F Plain Expanded Metal Panel, 0.75 Lb./SF	8.95	4.00
		For Galvanized, Add	*1.58*	
		For Aluminum, Add	*2.16*	
		For 304 Stainless Steel, Add	*8.64*	
		For 316 Stainless Steel, Add	*9.90*	
05 59 69 00-0081	SF	3/4" #9-F Plain Expanded Metal Panel, 1.50 Lb./SF	14.16	6.63
		For Galvanized, Add	*2.34*	
		For Aluminum, Add	*3.19*	
		For 304 Stainless Steel, Add	*12.77*	
		For 316 Stainless Steel, Add	*14.63*	
05 59 69 00-0082	SF	1" #16-F Plain Expanded Metal Panel, 0.41 Lb./SF	7.93	4.06
		For Galvanized, Add	*1.10*	
		For Aluminum, Add	*1.50*	
		For 304 Stainless Steel, Add	*6.00*	
		For 316 Stainless Steel, Add	*6.88*	
05 59 69 00-0083	SF	1-1/2" #16-F Plain Expanded Metal Panel, 0.38 Lb./SF	6.79	3.20
		For Galvanized, Add	*1.11*	
		For Aluminum, Add	*1.51*	
		For 304 Stainless Steel, Add	*6.05*	
		For 316 Stainless Steel, Add	*6.93*	
05 59 69 00-0084	SF	1-1/2" #13-F Plain Expanded Metal Panel, 0.57 Lb./SF	7.83	3.77
		For Galvanized, Add	*1.25*	
		For Aluminum, Add	*1.70*	
		For 304 Stainless Steel, Add	*6.79*	
		For 316 Stainless Steel, Add	*7.78*	
05 59 69 00-0085	SF	1-1/2" #9-F Plain Expanded Metal Panel, 1.14 Lb./SF	12.01	5.09
		For Galvanized, Add	*2.30*	
		For Aluminum, Add	*3.14*	
		For 304 Stainless Steel, Add	*12.55*	
		For 316 Stainless Steel, Add	*14.38*	

END OF SECTION 05

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CSI	UOM	MINOR DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

06 Wood, Plastics, and Composites

06 01 Maintenance of Wood, Plastics, and Composites *(06)*

06 01 10 Maintenance of Rough Carpentry *(06 01)*

06 01 10 91 Rough Carpenty Restoration *(06 01 10)*

06 01 10 91-0001 Roof Beam Restoration *(06 01 10 91)*

06 01 10 91-0002	EA	Up To 5, Roof Beam Restoration And Fill Note: Includes cutting out damaged/rotten wood, filling with wood fiber restore material, and then with two-part epoxy, or polyester bondo, and sanding.	82.61
06 01 10 91-0003	EA	>5 To 25, Roof Beam Restoration And Fill Note: Includes cutting out damaged/rotten wood, filling with wood fiber restore material, and then with two-part epoxy, or polyester bondo, and sanding.	71.09
06 01 10 91-0004	EA	>25, Roof Beam Restoration And Fill Note: Includes cutting out damaged/rotten wood, filling with wood fiber restore material, and then with two-part epoxy, or polyester bondo, and sanding.	59.57

06 01 10 91-0005 Roof Beam Replacement *(06 01 10 91)*
Note: Includes cutting back the rafter beam back 18" and in a zig- zag Z splice cut for purpose of splicing on new end piece. Attached with glue and screwed on with lag screws counter sunk.

06 01 10 91-0006	EA	Up To 5, Roof Beam Replacement, 6" x 12" Beams Note: Includes cutting off damaged/rotten wood, new beams with screws.	183.49
06 01 10 91-0007	EA	>5 To 25, Roof Beam Replacement, 6" x 12" Beams Note: Includes cutting off damaged/rotten wood, new beams with screws.	171.97
06 01 10 91-0008	EA	>25, Roof Beam Replacement, 6" x 12" Beams Note: Includes cutting off damaged/rotten wood, new beams with screws.	160.43
06 01 10 91-0009	EA	Up To 5, Roof Beam Replacement, 4" x 8" Beams Note: Includes cutting off damaged/rotten wood, new beams with screws.	164.52
06 01 10 91-0010	EA	>5 To 25, Roof Beam Replacement, 4" x 8" Beams Note: Includes cutting off damaged/rotten wood, new beams with screws.	152.99
06 01 10 91-0011	EA	>25, Roof Beam Replacement, 4" x 8" Beams Note: Includes cutting off damaged/rotten wood, new beams with screws.	141.46

06 01 10 91-0012 Roof Beam Caps *(06 01 10 91)*

06 01 10 91-0013	EA	4" x 4" Stainless Steel Beam End Cap	36.26
		For Galvanized Steel, Deduct	*-2.74*
06 01 10 91-0014	EA	4" x 6" Stainless Steel Beam End Cap	52.81
		For Galvanized Steel, Deduct	*-4.81*
06 01 10 91-0015	EA	4" x 8" Stainless Steel Beam End Cap	67.96
		For Galvanized Steel, Deduct	*-6.25*
06 01 10 91-0016	EA	6" x 6" Stainless Steel Beam End Cap	61.94
		For Galvanized Steel, Deduct	*-5.50*
06 01 10 91-0017	EA	6" x 12" Stainless Steel Beam End Cap	77.57
		For Galvanized Steel, Deduct	*-7.00*

06 01 10 91-0018 Field Formed Beam Top/End Caps *(06 01 10 91)*

06 01 10 91-0019	SF	24 Gauge, Stainless Steel Field Formed Beam Top/End Cap Note: Includes forming and bending at edges and around end of exposed beam	16.96
06 01 10 91-0020	SF	24 Gauge, Galvanized Steel Field Formed Beam Top/End Cap Note: Includes forming and bending at edges and around end of exposed beam	13.79

06 01 10 91-0021 Historic Restoration For Retexturing Wood Beams *(06 01 10 91)*

06 01 10 91-0022	SF	Retexture Wood Beams To Match Original Historic Appearance Note: Includes: Retexturing wood surface of beams on (3) sides	48.84
06 01 10 91-0023	LF	Retexture 3" X 6" Wood Beams On (3) Sides To Match Original Historic Appearance	61.07

06 01 20 Maintenance of Finish Carpentry *(06 01)*

06 01 20 91 Finish Carpentry Restoration *(06 01 20)*

06 01 20 91-0001 Wood Trim Repair *(06 01 20 91)*

06 01 20 91-0002	SF	Restoration Of Existing Decorative Woodwork Note: Includes stripping to bare wood, filling or patching, stain or paint to match existing.	10.64

06 05 Common Work Results for Wood, Plastics, and Composites *(06)*

06 05 23 Wood, Plastic, and Composite Fastenings *(06 05)*

Note: For additional fasteners above normal conditions, for replacing existing fasteners, for relocating existing materials or fixtures, or for different fasteners required due to load limits on standard fasteners.

06 05 23 00-0001 Threaded Anchor Bolts *(06 05 23)*
Note: Threaded on two ends with two nuts and flat washers.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0002	EA	1/2" Diameter x 4" Long, Threaded Anchor Bolt	14.97	
		For >10 To 50, Deduct	*-0.51*	
		For >50 To 100, Deduct	*-1.14*	
		For >100 To 250, Deduct	*-2.28*	
		For >250 To 500, Deduct	*-3.93*	
		For >500, Deduct	*-5.58*	
06 05 23 00-0003	EA	1/2" Diameter x 7-1/2" Long, Threaded Anchor Bolt	19.10	
		For >10 To 50, Deduct	*-0.55*	
		For >50 To 100, Deduct	*-1.30*	
		For >100 To 250, Deduct	*-2.60*	
		For >250 To 500, Deduct	*-4.45*	
		For >500, Deduct	*-6.31*	
06 05 23 00-0004	EA	3/4" Diameter x 7-1/2" Long, Threaded Anchor Bolt	20.87	
		For >10 To 50, Deduct	*-0.55*	
		For >50 To 100, Deduct	*-1.35*	
		For >100 To 250, Deduct	*-2.69*	
		For >250 To 500, Deduct	*-4.59*	
		For >500, Deduct	*-6.48*	
06 05 23 00-0005	EA	3/4" Diameter x 12" Long, Threaded Anchor Bolt	38.89	
		For >10 To 50, Deduct	*-0.75*	
		For >50 To 100, Deduct	*-2.10*	
		For >100 To 250, Deduct	*-4.20*	
		For >250 To 500, Deduct	*-7.05*	
		For >500, Deduct	*-9.90*	
06 05 23 00-0006		**Framing Anchors** *(06 05 23)*		
		Note: Including nails.		
06 05 23 00-0007	EA	1-7/16" x 2-1/2", 18 Gauge, Galvanized Framing Angle Anchor (Simpson Strong Tie® A34)	9.02	4.28
		For >10 To 50, Deduct	*-0.41*	
		For >50 To 100, Deduct	*-0.84*	
		For >100 To 250, Deduct	*-1.68*	
		For >250 To 500, Deduct	*-2.92*	
		For >500, Deduct	*-4.17*	
06 05 23 00-0008	EA	1-7/16" x 4-1/2", 18 Gauge, Galvanized Framing Angle Anchor (Simpson Strong Tie® A35)	10.07	4.71
		For >10 To 50, Deduct	*-0.46*	
		For >50 To 100, Deduct	*-0.94*	
		For >100 To 250, Deduct	*-1.88*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-4.68*	
06 05 23 00-0009		**Angle Anchors** *(06 05 23)*		
		Note: Including nails.		
06 05 23 00-0010	EA	2" x 1-1/2" x 1-3/8" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A21)	9.13	4.28
		For >10 To 50, Deduct	*-0.41*	
		For >50 To 100, Deduct	*-0.84*	
		For >100 To 250, Deduct	*-1.68*	
		For >250 To 500, Deduct	*-2.93*	
		For >500, Deduct	*-4.18*	
06 05 23 00-0011	EA	2" x 1-1/2" x 2-3/4" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A23)	10.00	4.57
		For >10 To 50, Deduct	*-0.44*	
		For >50 To 100, Deduct	*-0.90*	
		For >100 To 250, Deduct	*-1.81*	
		For >250 To 500, Deduct	*-3.15*	
		For >500, Deduct	*-4.48*	
06 05 23 00-0012	EA	3-7/8" x 2" x 2-1/2" Wide, 12 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A24)	17.00	4.71
		For >10 To 50, Deduct	*-0.46*	
		For >50 To 100, Deduct	*-1.11*	
		For >100 To 250, Deduct	*-2.23*	
		For >250 To 500, Deduct	*-3.80*	
		For >500, Deduct	*-5.37*	
06 05 23 00-0013	EA	3" x 3" x 1-1/2" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A33)	15.35	4.71
		For >10 To 50, Deduct	*-0.46*	
		For >50 To 100, Deduct	*-1.07*	
		For >100 To 250, Deduct	*-2.14*	
		For >250 To 500, Deduct	*-3.68*	
		For >500, Deduct	*-5.21*	
06 05 23 00-0014	EA	4-9/16" x 4-9/16" x 1-1/2" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A44)	16.78	5.29
		For >10 To 50, Deduct	*-0.51*	
		For >50 To 100, Deduct	*-1.18*	
		For >100 To 250, Deduct	*-2.36*	
		For >250 To 500, Deduct	*-4.04*	
		For >500, Deduct	*-5.72*	
06 05 23 00-0015	EA	5-7/8" x 5-7/8" x 1-1/2" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A66)	19.00	5.57
		For >10 To 50, Deduct	*-0.54*	
		For >50 To 100, Deduct	*-1.29*	
		For >100 To 250, Deduct	*-2.58*	
		For >250 To 500, Deduct	*-4.41*	
		For >500, Deduct	*-6.25*	
06 05 23 00-0016		**Reinforcing Angle Wood Construction Connectors** *(06 05 23)*		
		Note: Including nails.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0017	EA	3" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L30)	10.00	4.00
		For >10 To 50, Deduct	*-0.41*	
		For >50 To 100, Deduct	*-0.86*	
		For >100 To 250, Deduct	*-1.72*	
		For >250 To 500, Deduct	*-2.99*	
		For >500, Deduct	*-4.26*	
06 05 23 00-0018	EA	5" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L50)	12.30	4.28
		For >10 To 50, Deduct	*-0.43*	
		For >50 To 100, Deduct	*-0.96*	
		For >100 To 250, Deduct	*-1.91*	
		For >250 To 500, Deduct	*-3.30*	
		For >500, Deduct	*-4.69*	
06 05 23 00-0019	EA	7" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L70)	13.96	4.42
		For >10 To 50, Deduct	*-0.45*	
		For >50 To 100, Deduct	*-1.02*	
		For >100 To 250, Deduct	*-2.04*	
		For >250 To 500, Deduct	*-3.50*	
		For >500, Deduct	*-4.97*	
06 05 23 00-0020	EA	9" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L90)	15.47	4.57
		For >10 To 50, Deduct	*-0.47*	
		For >50 To 100, Deduct	*-1.09*	
		For >100 To 250, Deduct	*-2.18*	
		For >250 To 500, Deduct	*-3.74*	
		For >500, Deduct	*-5.30*	
06 05 23 00-0021	EA	3-3/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS30)	10.89	4.00
		For >10 To 50, Deduct	*-0.41*	
		For >50 To 100, Deduct	*-0.88*	
		For >100 To 250, Deduct	*-1.77*	
		For >250 To 500, Deduct	*-3.06*	
		For >500, Deduct	*-4.35*	
06 05 23 00-0022	EA	4-7/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS50)	11.99	4.28
		For >10 To 50, Deduct	*-0.43*	
		For >50 To 100, Deduct	*-0.95*	
		For >100 To 250, Deduct	*-1.90*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-4.66*	
06 05 23 00-0023	EA	6-3/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS70)	13.88	4.42
		For >10 To 50, Deduct	*-0.45*	
		For >50 To 100, Deduct	*-1.02*	
		For >100 To 250, Deduct	*-2.03*	
		For >250 To 500, Deduct	*-3.50*	
		For >500, Deduct	*-4.96*	
06 05 23 00-0024	EA	7-7/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS90)	16.42	4.57
		For >10 To 50, Deduct	*-0.47*	
		For >50 To 100, Deduct	*-1.11*	
		For >100 To 250, Deduct	*-2.23*	
		For >250 To 500, Deduct	*-3.81*	
		For >500, Deduct	*-5.39*	

06 05 23 00-0025 Hold Down Anchors *(06 05 23)*

Note: Including nails.

06 05 23 00-0026	EA	8-5/8" High x 2-1/2" Wide x 2-1/4" Deep, 12 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD3B)	71.67	
		For >10 To 50, Deduct	*-2.21*	
		For >50 To 100, Deduct	*-5.11*	
		For >100 To 250, Deduct	*-10.22*	
		For >250 To 500, Deduct	*-17.55*	
		For >500, Deduct	*-24.87*	
06 05 23 00-0027	EA	9-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD5B)	99.57	
		For >10 To 50, Deduct	*-2.28*	
		For >50 To 100, Deduct	*-5.92*	
		For >100 To 250, Deduct	*-11.83*	
		For >250 To 500, Deduct	*-20.03*	
		For >500, Deduct	*-28.23*	
06 05 23 00-0028	EA	12-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD7B)	122.43	
		For >10 To 50, Deduct	*-2.43*	
		For >50 To 100, Deduct	*-6.70*	
		For >100 To 250, Deduct	*-13.40*	
		For >250 To 500, Deduct	*-22.53*	
		For >500, Deduct	*-31.66*	
06 05 23 00-0029	EA	14" High x 2-1/2" Wide x 2-1/2" Deep, 7 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD9B)	144.33	
		For >10 To 50, Deduct	*-2.71*	
		For >50 To 100, Deduct	*-7.68*	
		For >100 To 250, Deduct	*-15.35*	
		For >250 To 500, Deduct	*-25.74*	
		For >500, Deduct	*-36.13*	
06 05 23 00-0030	EA	20-5/16" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD12)	232.87	
		For >10 To 50, Deduct	*-3.43*	
		For >50 To 100, Deduct	*-10.96*	
		For >100 To 250, Deduct	*-21.92*	
		For >250 To 500, Deduct	*-36.31*	
		For >500, Deduct	*-50.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0031	EA	24-1/2" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD19)	312.60	
		For >10 To 50, Deduct	*-3.57*	
		For >50 To 100, Deduct	*-13.17*	
		For >100 To 250, Deduct	*-26.34*	
		For >250 To 500, Deduct	*-43.08*	
		For >500, Deduct	*-59.82*	
06 05 23 00-0032	EA	8-11/16" Height x 3" Wide x 3-1/4" Deep, 14 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU2-SDS2.5)	83.99	
		For >10 To 50, Deduct	*-2.21*	
		For >50 To 100, Deduct	*-5.42*	
		For >100 To 250, Deduct	*-10.84*	
		For >250 To 500, Deduct	*-18.47*	
		For >500, Deduct	*-26.10*	
06 05 23 00-0033	EA	10-15/16" Height x 3" Wide x 3-1/4" Deep, 14 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU4-SDS2.5)	92.77	
		For >10 To 50, Deduct	*-2.28*	
		For >50 To 100, Deduct	*-5.75*	
		For >100 To 250, Deduct	*-11.49*	
		For >250 To 500, Deduct	*-19.52*	
		For >500, Deduct	*-27.55*	
06 05 23 00-0034	EA	13-3/16" Height x 3" Wide x 3-1/4" Deep, 14 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU5-SDS2.5)	103.78	
		For >10 To 50, Deduct	*-2.43*	
		For >50 To 100, Deduct	*-6.24*	
		For >100 To 250, Deduct	*-12.47*	
		For >250 To 500, Deduct	*-21.13*	
		For >500, Deduct	*-29.80*	
06 05 23 00-0035	EA	16-5/8" Height x 3" Wide x 3-1/2" Deep, 10 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU8-SDS2.5)	127.85	
		For >10 To 50, Deduct	*-2.71*	
		For >50 To 100, Deduct	*-7.27*	
		For >100 To 250, Deduct	*-14.53*	
		For >250 To 500, Deduct	*-24.51*	
		For >500, Deduct	*-34.49*	
06 05 23 00-0036	EA	22-1/4" Height x 3" Wide x 3-1/2" Deep, 10 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU11-SDS2.5)	164.58	
		For >10 To 50, Deduct	*-3.43*	
		For >50 To 100, Deduct	*-9.26*	
		For >100 To 250, Deduct	*-18.51*	
		For >250 To 500, Deduct	*-31.19*	
		For >500, Deduct	*-43.87*	
06 05 23 00-0037	EA	25-11/16" Height x 3" Wide x 3-1/2" Deep, 7 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU14-SDS2.5)	183.60	
		For >10 To 50, Deduct	*-3.57*	
		For >50 To 100, Deduct	*-9.94*	
		For >100 To 250, Deduct	*-19.89*	
		For >250 To 500, Deduct	*-33.40*	
		For >500, Deduct	*-46.92*	

06 05 23 00-0038 Joist And Beam Hangers *(06 05 23)*

Note: Including nails.

06 05 23 00-0039	EA	18 Gauge, Galvanized Joist Hanger, For 2" x 4" Joist Also Acceptable For Beam Hangers (Simpson Strong Tie® LU24)	9.57	4.00
		For >10 To 50, Deduct	*-0.41*	
		For >50 To 100, Deduct	*-0.85*	
		For >100 To 250, Deduct	*-1.70*	
		For >250 To 500, Deduct	*-2.96*	
		For >500, Deduct	*-4.22*	
06 05 23 00-0040	EA	18 Gauge, Galvanized Joist Hanger, For 2" x 6" To 2" x 10" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® LU28)	10.64	4.28
		For >10 To 50, Deduct	*-0.43*	
		For >50 To 100, Deduct	*-0.91*	
		For >100 To 250, Deduct	*-1.83*	
		For >250 To 500, Deduct	*-3.18*	
		For >500, Deduct	*-4.52*	
06 05 23 00-0041	EA	16 Gauge, Galvanized Joist Hanger, For 3" x 6" To 3" x 9" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® LUS36)	14.77	4.42
		For >10 To 50, Deduct	*-0.45*	
		For >50 To 100, Deduct	*-1.04*	
		For >100 To 250, Deduct	*-2.08*	
		For >250 To 500, Deduct	*-3.56*	
		For >500, Deduct	*-5.05*	
06 05 23 00-0042	EA	16 Gauge, Galvanized Joist Hanger, For 3" x 10" To 3" x 14" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® LUS310)	16.05	4.57
		For >10 To 50, Deduct	*-0.47*	
		For >50 To 100, Deduct	*-1.10*	
		For >100 To 250, Deduct	*-2.21*	
		For >250 To 500, Deduct	*-3.78*	
		For >500, Deduct	*-5.35*	
06 05 23 00-0043	EA	14 Gauge, Galvanized Joist Hanger, For 4" x 6" To 4" x 8" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® HUS46)	24.32	4.85
		For >10 To 50, Deduct	*-0.48*	
		For >50 To 100, Deduct	*-1.33*	
		For >100 To 250, Deduct	*-2.66*	
		For >250 To 500, Deduct	*-4.48*	
		For >500, Deduct	*-6.29*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0044	EA	14 Gauge, Galvanized Joist Hanger, For 4" x 10" To 4" x 14" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® HUS412)	28.89	5.00
		For >10 To 50, Deduct	*-0.49*	
		For >50 To 100, Deduct	*-1.46*	
		For >100 To 250, Deduct	*-2.93*	
		For >250 To 500, Deduct	*-4.88*	
		For >500, Deduct	*-6.84*	

06 05 23 00-0045 Anchor And Ties *(06 05 23)*

Note: Including nails.

06 05 23 00-0046	EA	12-3/8" Long, 11 Gauge, Galvanized Heavy Tension Tie (Simpson Strong Tie® HTT4) Note: Includes nails. Excludes anchor bolt.	43.69	
06 05 23 00-0047	EA	16" Long, 11 Gauge, Galvanized Heavy Tension Tie (Simpson Strong Tie® HTT5) Note: Includes nails. Excludes anchor bolt.	54.12	
06 05 23 00-0048	EA	16 Gauge, Zinc Galvanized Finish Mudsill Anchor (Simpson Strong Tie® MASAZ)	5.88	
06 05 23 00-0049	EA	16 Gauge, Zinc Galvanized Finish Mudsill Anchor (Simpson Strong Tie® MASBZ)	6.60	

06 05 23 00-0050 Hurricane Ties *(06 05 23)*

06 05 23 00-0051	EA	6" x 1-3/8" Wide, 18 Gauge, Galvanized Finish Hurricane Ties (Simpson Strong Tie® H2.5A)	10.52	4.42
		For >10 To 50, Deduct	*-0.49*	
		For >50 To 100, Deduct	*-1.00*	
		For >100 To 250, Deduct	*-2.00*	
		For >250 To 500, Deduct	*-3.50*	
		For >500, Deduct	*-4.99*	
06 05 23 00-0052	EA	6" x 1-3/8" Wide, 18 Gauge, Zinc Galvanized Finish Hurricane Ties (Simpson Strong Tie® H2.5AZ)	3.78	
06 05 23 00-0053	EA	6" x 1-3/8" Wide, 18 Gauge, Stainless Steel Hurricane Ties (Simpson Strong Tie® H2.5ASS)	10.02	
06 05 23 00-0054	EA	10-7/16" x 1-1/2" Wide, 18 Gauge, Galvanized Finish Hurricane Ties (Simpson Strong Tie® H2A)	12.84	4.42
		For >10 To 50, Deduct	*-0.49*	
		For >50 To 100, Deduct	*-1.06*	
		For >100 To 250, Deduct	*-2.12*	
		For >250 To 500, Deduct	*-3.67*	
		For >500, Deduct	*-5.22*	
06 05 23 00-0055	EA	19-3/16" x 2-1/4" Wide, 18 Gauge, Galvanized Finish Hurricane Ties (Simpson Strong Tie® H6)	21.02	

06 05 23 00-0056 Post Column Bases *(06 05 23)*

Note: Including nails.

06 05 23 00-0057	EA	Adjustable And Standoff 4" x 4" Post Base, With Bolts (Simpson Strong Tie® ABA44)	38.83	
06 05 23 00-0058	EA	Adjustable And Standoff 4" x 6" Post Base, With Bolts (Simpson Strong Tie® ABA46)	59.87	
06 05 23 00-0059	EA	Adjustable And Standoff 6" x 6" Post Base, With Bolts (Simpson Strong Tie® ABA66)	61.70	

06 05 23 00-0060 Post Column Caps *(06 05 23)*

Note: Including nails.

06 05 23 00-0061	EA	4" Beam, 4" Post Flange, 18 Gauge, Galvanized Post Cap (Simpson Strong Tie® BC4)	21.73	5.00
		For >10 To 50, Deduct	*-0.55*	
		For >50 To 100, Deduct	*-1.37*	
		For >100 To 250, Deduct	*-2.74*	
		For >250 To 500, Deduct	*-4.65*	
		For >500, Deduct	*-6.57*	
06 05 23 00-0062	EA	6" Beam, 6" Post Flange, 18 Gauge, Galvanized Post Cap (Simpson Strong Tie® BC6)	47.17	5.00
		For >10 To 50, Deduct	*-0.58*	
		For >50 To 100, Deduct	*-2.05*	
		For >100 To 250, Deduct	*-4.10*	
		For >250 To 500, Deduct	*-6.73*	
		For >500, Deduct	*-9.36*	
06 05 23 00-0063	EA	3-1/8" Beam, 4" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC3 1/4-4) Note: Excludes field welding	231.30	
		For >10 To 50, Deduct	*-1.43*	
		For >50 To 100, Deduct	*-7.92*	
		For >100 To 250, Deduct	*-15.85*	
		For >250 To 500, Deduct	*-25.20*	
		For >500, Deduct	*-34.55*	
		For Hot Dipped Galvanized, Add	*91.24*	
06 05 23 00-0064	EA	3-1/8" Beam, 6" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC3 1/4-6)	241.00	
		For >10 To 50, Deduct	*-1.61*	
		For >50 To 100, Deduct	*-8.43*	
		For >100 To 250, Deduct	*-16.87*	
		For >250 To 500, Deduct	*-26.91*	
		For >500, Deduct	*-36.95*	
		For Hot Dipped Galvanized, Add	*94.00*	
06 05 23 00-0065	EA	4" Beam, 4" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC44) Note: Excludes field welding	149.17	
		For >10 To 50, Deduct	*-1.43*	
		For >50 To 100, Deduct	*-5.87*	
		For >100 To 250, Deduct	*-11.74*	
		For >250 To 500, Deduct	*-19.04*	
		For >500, Deduct	*-26.34*	
		For Hot Dipped Galvanized, Add	*54.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0066	EA	4" Beam, 6" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC46)	236.01	
		For >10 To 50, Deduct	*-1.61*	
		For >50 To 100, Deduct	*-8.31*	
		For >100 To 250, Deduct	*-16.62*	
		For >250 To 500, Deduct	*-26.53*	
		For >500, Deduct	*-36.45*	
		For Hot Dipped Galvanized, Add	*91.75*	
06 05 23 00-0067	EA	4" Beam, 8" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC48) Note: Excludes field welding	246.79	
		For >10 To 50, Deduct	*-1.61*	
		For >50 To 100, Deduct	*-8.58*	
		For >100 To 250, Deduct	*-17.16*	
		For >250 To 500, Deduct	*-27.34*	
		For >500, Deduct	*-37.53*	
		For Hot Dipped Galvanized, Add	*96.60*	
06 05 23 00-0068	EA	6" Beam, 4" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC64)	252.11	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-8.61*	
		For >100 To 250, Deduct	*-17.21*	
		For >250 To 500, Deduct	*-27.35*	
		For >500, Deduct	*-37.49*	
		For Hot Dipped Galvanized, Add	*99.63*	
06 05 23 00-0069	EA	6" Beam, 6" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC66)	254.97	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-8.89*	
		For >100 To 250, Deduct	*-17.78*	
		For >250 To 500, Deduct	*-28.35*	
		For >500, Deduct	*-38.92*	
		For Hot Dipped Galvanized, Add	*99.63*	
06 05 23 00-0070	EA	6" Beam, 8" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC68)	254.97	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-8.89*	
		For >100 To 250, Deduct	*-17.78*	
		For >250 To 500, Deduct	*-28.35*	
		For >500, Deduct	*-38.92*	
		For Hot Dipped Galvanized, Add	*99.63*	
06 05 23 00-0071	EA	5-1/8" Beam, 4" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC5 1/4-4)	294.43	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-9.66*	
		For >100 To 250, Deduct	*-19.33*	
		For >250 To 500, Deduct	*-30.52*	
		For >500, Deduct	*-41.72*	
		For Hot Dipped Galvanized, Add	*118.68*	
06 05 23 00-0072	EA	5-1/8" Beam, 6" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC5 1/4-6)	297.29	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-9.95*	
		For >100 To 250, Deduct	*-19.90*	
		For >250 To 500, Deduct	*-31.53*	
		For >500, Deduct	*-43.15*	
		For Hot Dipped Galvanized, Add	*118.68*	
06 05 23 00-0073	EA	5-1/8" Beam, 8" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC5 1/4-8)	297.29	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-9.95*	
		For >100 To 250, Deduct	*-19.90*	
		For >250 To 500, Deduct	*-31.53*	
		For >500, Deduct	*-43.15*	
		For Hot Dipped Galvanized, Add	*118.68*	
06 05 23 00-0074	EA	8" Beam, 4" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC84)	359.95	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-11.30*	
		For >100 To 250, Deduct	*-22.60*	
		For >250 To 500, Deduct	*-35.44*	
		For >500, Deduct	*-48.28*	
		For Hot Dipped Galvanized, Add	*148.16*	
06 05 23 00-0075	EA	8" Beam, 6" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC86)	362.81	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-11.59*	
		For >100 To 250, Deduct	*-23.17*	
		For >250 To 500, Deduct	*-36.44*	
		For >500, Deduct	*-49.71*	
		For Hot Dipped Galvanized, Add	*148.16*	
06 05 23 00-0076	EA	8" Beam, 8" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC88)	362.81	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-11.59*	
		For >100 To 250, Deduct	*-23.17*	
		For >250 To 500, Deduct	*-36.44*	
		For >500, Deduct	*-49.71*	
		For Hot Dipped Galvanized, Add	*148.16*	
06 05 23 00-0077	EA	3-1/8" Beam, 4" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC3 1/4-4) Note: Excludes field welding	231.30	
		For >10 To 50, Deduct	*-1.43*	
		For >50 To 100, Deduct	*-7.92*	
		For >100 To 250, Deduct	*-15.85*	
		For >250 To 500, Deduct	*-25.20*	
		For >500, Deduct	*-34.55*	
		For Hot Dipped Galvanized, Add	*91.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0078	EA	3-1/8" Beam, 6" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC3 1/4-6)	241.00	
		For >10 To 50, Deduct	*-1.61*	
		For >50 To 100, Deduct	*-8.43*	
		For >100 To 250, Deduct	*-16.87*	
		For >250 To 500, Deduct	*-26.91*	
		For >500, Deduct	*-36.95*	
		For Hot Dipped Galvanized, Add	*94.00*	
06 05 23 00-0079	EA	4" Beam, 4" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC44) Note: Excludes field welding	149.17	
		For >10 To 50, Deduct	*-1.43*	
		For >50 To 100, Deduct	*-5.87*	
		For >100 To 250, Deduct	*-11.74*	
		For >250 To 500, Deduct	*-19.04*	
		For >500, Deduct	*-26.34*	
		For Hot Dipped Galvanized, Add	*54.28*	
06 05 23 00-0080	EA	4" Beam, 6" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC46)	236.01	
		For >10 To 50, Deduct	*-1.61*	
		For >50 To 100, Deduct	*-8.31*	
		For >100 To 250, Deduct	*-16.62*	
		For >250 To 500, Deduct	*-26.53*	
		For >500, Deduct	*-36.45*	
		For Hot Dipped Galvanized, Add	*91.75*	
06 05 23 00-0081	EA	4" Beam, 8" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC48) Note: Excludes field welding	246.79	
		For >10 To 50, Deduct	*-1.61*	
		For >50 To 100, Deduct	*-8.58*	
		For >100 To 250, Deduct	*-17.16*	
		For >250 To 500, Deduct	*-27.34*	
		For >500, Deduct	*-37.53*	
		For Hot Dipped Galvanized, Add	*96.60*	
06 05 23 00-0082	EA	6" Beam, 4" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC64)	252.11	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-8.61*	
		For >100 To 250, Deduct	*-17.21*	
		For >250 To 500, Deduct	*-27.35*	
		For >500, Deduct	*-37.49*	
		For Hot Dipped Galvanized, Add	*99.63*	
06 05 23 00-0083	EA	6" Beam, 6" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC66)	254.97	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-8.89*	
		For >100 To 250, Deduct	*-17.78*	
		For >250 To 500, Deduct	*-28.35*	
		For >500, Deduct	*-38.92*	
		For Hot Dipped Galvanized, Add	*99.63*	
06 05 23 00-0084	EA	6" Beam, 8" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC68)	254.97	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-8.89*	
		For >100 To 250, Deduct	*-17.78*	
		For >250 To 500, Deduct	*-28.35*	
		For >500, Deduct	*-38.92*	
		For Hot Dipped Galvanized, Add	*99.63*	
06 05 23 00-0085	EA	5-1/8" Beam, 4" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC5 1/4-4)	294.43	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-9.66*	
		For >100 To 250, Deduct	*-19.33*	
		For >250 To 500, Deduct	*-30.52*	
		For >500, Deduct	*-41.72*	
		For Hot Dipped Galvanized, Add	*118.68*	
06 05 23 00-0086	EA	5-1/8" Beam, 6" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC5 1/4-6)	297.29	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-9.95*	
		For >100 To 250, Deduct	*-19.90*	
		For >250 To 500, Deduct	*-31.53*	
		For >500, Deduct	*-43.15*	
		For Hot Dipped Galvanized, Add	*118.68*	
06 05 23 00-0087	EA	5-1/8" Beam, 8" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC5 1/4-8)	297.29	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-9.95*	
		For >100 To 250, Deduct	*-19.90*	
		For >250 To 500, Deduct	*-31.53*	
		For >500, Deduct	*-43.15*	
		For Hot Dipped Galvanized, Add	*118.68*	
06 05 23 00-0088	EA	8" Beam, 4" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC84)	359.95	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-11.30*	
		For >100 To 250, Deduct	*-22.60*	
		For >250 To 500, Deduct	*-35.44*	
		For >500, Deduct	*-48.28*	
		For Hot Dipped Galvanized, Add	*148.16*	
06 05 23 00-0089	EA	8" Beam, 6" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC86)	362.81	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-11.59*	
		For >100 To 250, Deduct	*-23.17*	
		For >250 To 500, Deduct	*-36.44*	
		For >500, Deduct	*-49.71*	
		For Hot Dipped Galvanized, Add	*148.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0090	EA	8" Beam, 8" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC88)	362.81	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-11.59*	
		For >100 To 250, Deduct	*-23.17*	
		For >250 To 500, Deduct	*-36.44*	
		For >500, Deduct	*-49.71*	
		For Hot Dipped Galvanized, Add	*148.16*	
06 05 23 00-0091		**Rafter Connectors** *(06 05 23)*		
06 05 23 00-0092	EA	Galvanized Rigid Rafter Connector, For 2" x 6" (Simpson Strong Tie® RR)	12.49	4.42
		For >10 To 50, Deduct	*-0.49*	
		For >50 To 100, Deduct	*-1.05*	
		For >100 To 250, Deduct	*-2.10*	
		For >250 To 500, Deduct	*-3.65*	
		For >500, Deduct	*-5.19*	
06 05 23 00-0093		**Bolts And Fasteners** *(06 05 23)*		
06 05 23 00-0094		**Carriage Bolts** *(06 05 23 00-0093)*		
		Note: Includes drilling of holes in any material. Includes nut and washer.		
06 05 23 00-0095		**Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolts** *(06 05 23 00-0094)*		
06 05 23 00-0096	EA	1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	19.02	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-1.87*	
		For >100 To 250, Deduct	*-3.74*	
		For >250 To 500, Deduct	*-6.53*	
		For >500, Deduct	*-9.33*	
06 05 23 00-0097	EA	1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	19.22	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-1.87*	
		For >100 To 250, Deduct	*-3.75*	
		For >250 To 500, Deduct	*-6.55*	
		For >500, Deduct	*-9.35*	
06 05 23 00-0098	EA	1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	19.34	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-1.88*	
		For >100 To 250, Deduct	*-3.75*	
		For >250 To 500, Deduct	*-6.55*	
		For >500, Deduct	*-9.36*	
06 05 23 00-0099	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	22.56	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.17*	
		For >100 To 250, Deduct	*-4.34*	
		For >250 To 500, Deduct	*-7.58*	
		For >500, Deduct	*-10.82*	
06 05 23 00-0100	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	20.98	
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-2.02*	
		For >100 To 250, Deduct	*-4.05*	
		For >250 To 500, Deduct	*-7.07*	
		For >500, Deduct	*-10.09*	
06 05 23 00-0101	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	22.74	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.18*	
		For >100 To 250, Deduct	*-4.35*	
		For >250 To 500, Deduct	*-7.60*	
		For >500, Deduct	*-10.84*	
06 05 23 00-0102	EA	3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	23.06	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.18*	
		For >100 To 250, Deduct	*-4.37*	
		For >250 To 500, Deduct	*-7.62*	
		For >500, Deduct	*-10.87*	
06 05 23 00-0103	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	27.57	
		For >10 To 50, Deduct	*-1.29*	
		For >50 To 100, Deduct	*-2.62*	
		For >100 To 250, Deduct	*-5.23*	
		For >250 To 500, Deduct	*-9.14*	
		For >500, Deduct	*-13.04*	
06 05 23 00-0104	EA	3/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	29.97	
		For >10 To 50, Deduct	*-1.36*	
		For >50 To 100, Deduct	*-2.78*	
		For >100 To 250, Deduct	*-5.57*	
		For >250 To 500, Deduct	*-9.71*	
		For >500, Deduct	*-13.85*	
06 05 23 00-0105	EA	3/8" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	33.77	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.09*	
		For >100 To 250, Deduct	*-6.19*	
		For >250 To 500, Deduct	*-10.78*	
		For >500, Deduct	*-15.37*	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0106	EA	1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	23.42	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.19*	
		For >100 To 250, Deduct	*-4.38*	
		For >250 To 500, Deduct	*-7.65*	
		For >500, Deduct	*-10.91*	
06 05 23 00-0107	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	25.68	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-2.36*	
		For >100 To 250, Deduct	*-4.71*	
		For >250 To 500, Deduct	*-8.21*	
		For >500, Deduct	*-11.71*	
06 05 23 00-0108	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	27.37	
		For >10 To 50, Deduct	*-1.21*	
		For >50 To 100, Deduct	*-2.50*	
		For >100 To 250, Deduct	*-5.01*	
		For >250 To 500, Deduct	*-8.73*	
		For >500, Deduct	*-12.45*	
06 05 23 00-0109	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	30.69	
		For >10 To 50, Deduct	*-1.36*	
		For >50 To 100, Deduct	*-2.80*	
		For >100 To 250, Deduct	*-5.60*	
		For >250 To 500, Deduct	*-9.76*	
		For >500, Deduct	*-13.92*	
06 05 23 00-0110	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	36.08	
		For >10 To 50, Deduct	*-1.57*	
		For >50 To 100, Deduct	*-3.26*	
		For >100 To 250, Deduct	*-6.52*	
		For >250 To 500, Deduct	*-11.34*	
		For >500, Deduct	*-16.17*	
06 05 23 00-0111	EA	1/2" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	40.45	
		For >10 To 50, Deduct	*-1.71*	
		For >50 To 100, Deduct	*-3.58*	
		For >100 To 250, Deduct	*-7.16*	
		For >250 To 500, Deduct	*-12.46*	
		For >500, Deduct	*-17.75*	
06 05 23 00-0112	EA	3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	32.07	
		For >10 To 50, Deduct	*-1.29*	
		For >50 To 100, Deduct	*-2.73*	
		For >100 To 250, Deduct	*-5.46*	
		For >250 To 500, Deduct	*-9.47*	
		For >500, Deduct	*-13.49*	
06 05 23 00-0113	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	34.79	
		For >10 To 50, Deduct	*-1.36*	
		For >50 To 100, Deduct	*-2.90*	
		For >100 To 250, Deduct	*-5.81*	
		For >250 To 500, Deduct	*-10.07*	
		For >500, Deduct	*-14.33*	
06 05 23 00-0114	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	41.71	
		For >10 To 50, Deduct	*-1.57*	
		For >50 To 100, Deduct	*-3.40*	
		For >100 To 250, Deduct	*-6.80*	
		For >250 To 500, Deduct	*-11.77*	
		For >500, Deduct	*-16.74*	
06 05 23 00-0115	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	46.95	
		For >10 To 50, Deduct	*-1.64*	
		For >50 To 100, Deduct	*-3.64*	
		For >100 To 250, Deduct	*-7.28*	
		For >250 To 500, Deduct	*-12.56*	
		For >500, Deduct	*-17.84*	
06 05 23 00-0116	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	50.98	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-3.95*	
		For >100 To 250, Deduct	*-7.90*	
		For >250 To 500, Deduct	*-13.64*	
		For >500, Deduct	*-19.38*	
06 05 23 00-0117	EA	3/4" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	51.97	
		For >10 To 50, Deduct	*-1.86*	
		For >50 To 100, Deduct	*-4.08*	
		For >100 To 250, Deduct	*-8.17*	
		For >250 To 500, Deduct	*-14.11*	
		For >500, Deduct	*-20.05*	

06 05 23 00-0118 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolts *(06 05 23 00-0094)*

06 05 23 00-0119	EA	1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	19.38	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-1.88*	
		For >100 To 250, Deduct	*-3.75*	
		For >250 To 500, Deduct	*-6.56*	
		For >500, Deduct	*-9.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0120	EA	1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	19.75	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-1.89*	
		For >100 To 250, Deduct	*-3.77*	
		For >250 To 500, Deduct	*-6.59*	
		For >500, Deduct	*-9.40*	
06 05 23 00-0121	EA	1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	20.16	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-1.90*	
		For >100 To 250, Deduct	*-3.79*	
		For >250 To 500, Deduct	*-6.62*	
		For >500, Deduct	*-9.44*	
06 05 23 00-0122	EA	1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	23.95	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.21*	
		For >100 To 250, Deduct	*-4.41*	
		For >250 To 500, Deduct	*-7.69*	
		For >500, Deduct	*-10.96*	
06 05 23 00-0123	EA	3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	21.48	
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-2.04*	
		For >100 To 250, Deduct	*-4.07*	
		For >250 To 500, Deduct	*-7.11*	
		For >500, Deduct	*-10.14*	
06 05 23 00-0124	EA	3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	23.52	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.19*	
		For >100 To 250, Deduct	*-4.39*	
		For >250 To 500, Deduct	*-7.65*	
		For >500, Deduct	*-10.92*	
06 05 23 00-0125	EA	3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	23.98	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.21*	
		For >100 To 250, Deduct	*-4.41*	
		For >250 To 500, Deduct	*-7.69*	
		For >500, Deduct	*-10.97*	
06 05 23 00-0126	EA	3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	28.97	
		For >10 To 50, Deduct	*-1.29*	
		For >50 To 100, Deduct	*-2.65*	
		For >100 To 250, Deduct	*-5.30*	
		For >250 To 500, Deduct	*-9.24*	
		For >500, Deduct	*-13.18*	
06 05 23 00-0127	EA	3/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	31.53	
		For >10 To 50, Deduct	*-1.36*	
		For >50 To 100, Deduct	*-2.82*	
		For >100 To 250, Deduct	*-5.65*	
		For >250 To 500, Deduct	*-9.83*	
		For >500, Deduct	*-14.01*	
06 05 23 00-0128	EA	3/8" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	35.23	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-3.13*	
		For >100 To 250, Deduct	*-6.26*	
		For >250 To 500, Deduct	*-10.89*	
		For >500, Deduct	*-15.52*	
06 05 23 00-0129	EA	1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	24.59	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.22*	
		For >100 To 250, Deduct	*-4.44*	
		For >250 To 500, Deduct	*-7.73*	
		For >500, Deduct	*-11.03*	
06 05 23 00-0130	EA	1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	26.61	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-2.38*	
		For >100 To 250, Deduct	*-4.76*	
		For >250 To 500, Deduct	*-8.28*	
		For >500, Deduct	*-11.80*	
06 05 23 00-0131	EA	1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	28.47	
		For >10 To 50, Deduct	*-1.21*	
		For >50 To 100, Deduct	*-2.53*	
		For >100 To 250, Deduct	*-5.06*	
		For >250 To 500, Deduct	*-8.81*	
		For >500, Deduct	*-12.56*	
06 05 23 00-0132	EA	1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	32.27	
		For >10 To 50, Deduct	*-1.36*	
		For >50 To 100, Deduct	*-2.84*	
		For >100 To 250, Deduct	*-5.68*	
		For >250 To 500, Deduct	*-9.88*	
		For >500, Deduct	*-14.08*	
06 05 23 00-0133	EA	1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	37.63	
		For >10 To 50, Deduct	*-1.57*	
		For >50 To 100, Deduct	*-3.30*	
		For >100 To 250, Deduct	*-6.59*	
		For >250 To 500, Deduct	*-11.46*	
		For >500, Deduct	*-16.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0134	EA	1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	41.64	
		For >10 To 50, Deduct	*-1.71*	
		For >50 To 100, Deduct	*-3.61*	
		For >100 To 250, Deduct	*-7.22*	
		For >250 To 500, Deduct	*-12.55*	
		For >500, Deduct	*-17.87*	
06 05 23 00-0135	EA	3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	35.60	
		For >10 To 50, Deduct	*-1.29*	
		For >50 To 100, Deduct	*-2.82*	
		For >100 To 250, Deduct	*-5.64*	
		For >250 To 500, Deduct	*-9.74*	
		For >500, Deduct	*-13.84*	
06 05 23 00-0136	EA	3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	37.25	
		For >10 To 50, Deduct	*-1.36*	
		For >50 To 100, Deduct	*-2.97*	
		For >100 To 250, Deduct	*-5.93*	
		For >250 To 500, Deduct	*-10.25*	
		For >500, Deduct	*-14.58*	
06 05 23 00-0137	EA	3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	43.46	
		For >10 To 50, Deduct	*-1.57*	
		For >50 To 100, Deduct	*-3.44*	
		For >100 To 250, Deduct	*-6.88*	
		For >250 To 500, Deduct	*-11.90*	
		For >500, Deduct	*-16.91*	
06 05 23 00-0138	EA	3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	46.82	
		For >10 To 50, Deduct	*-1.64*	
		For >50 To 100, Deduct	*-3.63*	
		For >100 To 250, Deduct	*-7.27*	
		For >250 To 500, Deduct	*-12.55*	
		For >500, Deduct	*-17.82*	
06 05 23 00-0139	EA	3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	53.25	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-4.01*	
		For >100 To 250, Deduct	*-8.02*	
		For >250 To 500, Deduct	*-13.81*	
		For >500, Deduct	*-19.61*	
06 05 23 00-0140	EA	3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	56.71	
		For >10 To 50, Deduct	*-1.86*	
		For >50 To 100, Deduct	*-4.20*	
		For >100 To 250, Deduct	*-8.41*	
		For >250 To 500, Deduct	*-14.46*	
		For >500, Deduct	*-20.52*	

06 05 23 00-0141 304/18-8 Stainless Steel, Carriage Bolts *(06 05 23 00-0094)*

06 05 23 00-0142	EA	1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	20.47	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-1.90*	
		For >100 To 250, Deduct	*-3.81*	
		For >250 To 500, Deduct	*-6.64*	
		For >500, Deduct	*-9.47*	
06 05 23 00-0143	EA	1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	22.56	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-1.96*	
		For >100 To 250, Deduct	*-3.91*	
		For >250 To 500, Deduct	*-6.80*	
		For >500, Deduct	*-9.68*	
06 05 23 00-0144	EA	1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	23.93	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-1.99*	
		For >100 To 250, Deduct	*-3.98*	
		For >250 To 500, Deduct	*-6.90*	
		For >500, Deduct	*-9.82*	
06 05 23 00-0145	EA	1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	41.52	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.64*	
		For >100 To 250, Deduct	*-5.29*	
		For >250 To 500, Deduct	*-9.00*	
		For >500, Deduct	*-12.72*	
06 05 23 00-0146	EA	3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	23.84	
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-2.10*	
		For >100 To 250, Deduct	*-4.19*	
		For >250 To 500, Deduct	*-7.29*	
		For >500, Deduct	*-10.38*	
06 05 23 00-0147	EA	3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	28.30	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.31*	
		For >100 To 250, Deduct	*-4.63*	
		For >250 To 500, Deduct	*-8.01*	
		For >500, Deduct	*-11.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0148	EA	3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	28.96	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.33*	
		For >100 To 250, Deduct	*-4.66*	
		For >250 To 500, Deduct	*-8.06*	
		For >500, Deduct	*-11.46*	
06 05 23 00-0149	EA	3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	55.06	
		For >10 To 50, Deduct	*-1.29*	
		For >50 To 100, Deduct	*-3.30*	
		For >100 To 250, Deduct	*-6.61*	
		For >250 To 500, Deduct	*-11.20*	
		For >500, Deduct	*-15.79*	
06 05 23 00-0150	EA	3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt	67.38	
		For >10 To 50, Deduct	*-1.36*	
		For >50 To 100, Deduct	*-3.72*	
		For >100 To 250, Deduct	*-7.44*	
		For >250 To 500, Deduct	*-12.51*	
		For >500, Deduct	*-17.59*	
06 05 23 00-0151	EA	3/8" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt	75.52	
		For >10 To 50, Deduct	*-1.50*	
		For >50 To 100, Deduct	*-4.14*	
		For >100 To 250, Deduct	*-8.27*	
		For >250 To 500, Deduct	*-13.91*	
		For >500, Deduct	*-19.54*	
06 05 23 00-0152	EA	1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	30.74	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.38*	
		For >100 To 250, Deduct	*-4.75*	
		For >250 To 500, Deduct	*-8.20*	
		For >500, Deduct	*-11.64*	
06 05 23 00-0153	EA	1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	35.09	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-2.59*	
		For >100 To 250, Deduct	*-5.18*	
		For >250 To 500, Deduct	*-8.92*	
		For >500, Deduct	*-12.65*	
06 05 23 00-0154	EA	1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	42.86	
		For >10 To 50, Deduct	*-1.21*	
		For >50 To 100, Deduct	*-2.89*	
		For >100 To 250, Deduct	*-5.78*	
		For >250 To 500, Deduct	*-9.89*	
		For >500, Deduct	*-13.99*	
06 05 23 00-0155	EA	1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	69.30	
		For >10 To 50, Deduct	*-1.36*	
		For >50 To 100, Deduct	*-3.77*	
		For >100 To 250, Deduct	*-7.53*	
		For >250 To 500, Deduct	*-12.66*	
		For >500, Deduct	*-17.78*	
06 05 23 00-0156	EA	1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt	78.20	
		For >10 To 50, Deduct	*-1.57*	
		For >50 To 100, Deduct	*-4.31*	
		For >100 To 250, Deduct	*-8.62*	
		For >250 To 500, Deduct	*-14.50*	
		For >500, Deduct	*-20.38*	
06 05 23 00-0157	EA	1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt	124.30	
		For >10 To 50, Deduct	*-1.71*	
		For >50 To 100, Deduct	*-5.68*	
		For >100 To 250, Deduct	*-11.36*	
		For >250 To 500, Deduct	*-18.75*	
		For >500, Deduct	*-26.14*	
06 05 23 00-0158	EA	3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	96.48	
		For >10 To 50, Deduct	*-1.36*	
		For >50 To 100, Deduct	*-4.45*	
		For >100 To 250, Deduct	*-8.89*	
		For >250 To 500, Deduct	*-14.70*	
		For >500, Deduct	*-20.50*	
06 05 23 00-0159	EA	3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	137.31	
		For >10 To 50, Deduct	*-1.57*	
		For >50 To 100, Deduct	*-5.79*	
		For >100 To 250, Deduct	*-11.58*	
		For >250 To 500, Deduct	*-18.94*	
		For >500, Deduct	*-26.30*	
06 05 23 00-0160	EA	3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	152.37	
		For >10 To 50, Deduct	*-1.64*	
		For >50 To 100, Deduct	*-6.27*	
		For >100 To 250, Deduct	*-12.55*	
		For >250 To 500, Deduct	*-20.46*	
		For >500, Deduct	*-28.38*	
06 05 23 00-0161	EA	3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt	226.18	
		For >10 To 50, Deduct	*-1.79*	
		For >50 To 100, Deduct	*-8.33*	
		For >100 To 250, Deduct	*-16.66*	
		For >250 To 500, Deduct	*-26.78*	
		For >500, Deduct	*-36.90*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0162	EA	3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt	237.96	
		For >10 To 50, Deduct	*-1.86*	
		For >50 To 100, Deduct	*-8.73*	
		For >100 To 250, Deduct	*-17.47*	
		For >250 To 500, Deduct	*-28.06*	
		For >500, Deduct	*-38.65*	

06 05 23 00-0163 316 Stainless Steel, Carriage Bolts *(06 05 23 00-0094)*

06 05 23 00-0164	EA	1/4" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt	30.13	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-2.15*	
		For >100 To 250, Deduct	*-4.29*	
		For >250 To 500, Deduct	*-7.36*	
		For >500, Deduct	*-10.44*	
06 05 23 00-0165	EA	1/4" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt	33.80	
		For >10 To 50, Deduct	*-0.93*	
		For >50 To 100, Deduct	*-2.24*	
		For >100 To 250, Deduct	*-4.47*	
		For >250 To 500, Deduct	*-7.64*	
		For >500, Deduct	*-10.80*	
06 05 23 00-0166	EA	3/8" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt	36.48	
		For >10 To 50, Deduct	*-1.00*	
		For >50 To 100, Deduct	*-2.41*	
		For >100 To 250, Deduct	*-4.82*	
		For >250 To 500, Deduct	*-8.23*	
		For >500, Deduct	*-11.64*	
06 05 23 00-0167	EA	3/8" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt	43.01	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-2.68*	
		For >100 To 250, Deduct	*-5.36*	
		For >250 To 500, Deduct	*-9.12*	
		For >500, Deduct	*-12.87*	
06 05 23 00-0168	EA	1/2" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt	59.35	
		For >10 To 50, Deduct	*-1.07*	
		For >50 To 100, Deduct	*-3.09*	
		For >100 To 250, Deduct	*-6.18*	
		For >250 To 500, Deduct	*-10.34*	
		For >500, Deduct	*-14.50*	
06 05 23 00-0169	EA	1/2" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt	64.74	
		For >10 To 50, Deduct	*-1.14*	
		For >50 To 100, Deduct	*-3.33*	
		For >100 To 250, Deduct	*-6.66*	
		For >250 To 500, Deduct	*-11.14*	
		For >500, Deduct	*-15.61*	
06 05 23 00-0170	EA	1/2" Diameter x 6" Length, 316 Stainless Steel, Carriage Bolt	69.81	
		For >10 To 50, Deduct	*-1.21*	
		For >50 To 100, Deduct	*-3.57*	
		For >100 To 250, Deduct	*-7.13*	
		For >250 To 500, Deduct	*-11.91*	
		For >500, Deduct	*-16.69*	

06 05 23 00-0171 Hex Lag Bolts *(06 05 23 00-0093)*

Note: Includes drilling of holes in any material

06 05 23 00-0172 Zinc Plated Steel, Hex Lag Bolts *(06 05 23 00-0171)*

06 05 23 00-0173	EA	1/4" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt	18.13	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-1.79*	
		For >100 To 250, Deduct	*-3.58*	
		For >250 To 500, Deduct	*-6.27*	
		For >500, Deduct	*-8.95*	
06 05 23 00-0174	EA	1/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	18.30	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-1.80*	
		For >100 To 250, Deduct	*-3.59*	
		For >250 To 500, Deduct	*-6.28*	
		For >500, Deduct	*-8.97*	
06 05 23 00-0175	EA	1/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	18.66	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-1.81*	
		For >100 To 250, Deduct	*-3.61*	
		For >250 To 500, Deduct	*-6.31*	
		For >500, Deduct	*-9.01*	
06 05 23 00-0176	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt	19.98	
		For >10 To 50, Deduct	*-0.97*	
		For >50 To 100, Deduct	*-1.96*	
		For >100 To 250, Deduct	*-3.92*	
		For >250 To 500, Deduct	*-6.85*	
		For >500, Deduct	*-9.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0177	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	21.71	
		For >10 To 50, Deduct	*-1.04*	
		For >50 To 100, Deduct	*-2.11*	
		For >100 To 250, Deduct	*-4.21*	
		For >250 To 500, Deduct	*-7.36*	
		For >500, Deduct	*-10.51*	
06 05 23 00-0178	EA	3/8" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	22.10	
		For >10 To 50, Deduct	*-1.04*	
		For >50 To 100, Deduct	*-2.12*	
		For >100 To 250, Deduct	*-4.23*	
		For >250 To 500, Deduct	*-7.39*	
		For >500, Deduct	*-10.55*	
06 05 23 00-0179	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt	27.06	
		For >10 To 50, Deduct	*-1.25*	
		For >50 To 100, Deduct	*-2.55*	
		For >100 To 250, Deduct	*-5.10*	
		For >250 To 500, Deduct	*-8.91*	
		For >500, Deduct	*-12.71*	
06 05 23 00-0180	EA	3/8" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt	28.67	
		For >10 To 50, Deduct	*-1.32*	
		For >50 To 100, Deduct	*-2.70*	
		For >100 To 250, Deduct	*-5.39*	
		For >250 To 500, Deduct	*-9.41*	
		For >500, Deduct	*-13.42*	
06 05 23 00-0181	EA	1/2" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt	22.12	
		For >10 To 50, Deduct	*-1.05*	
		For >50 To 100, Deduct	*-2.13*	
		For >100 To 250, Deduct	*-4.26*	
		For >250 To 500, Deduct	*-7.43*	
		For >500, Deduct	*-10.61*	
06 05 23 00-0182	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	24.07	
		For >10 To 50, Deduct	*-1.12*	
		For >50 To 100, Deduct	*-2.28*	
		For >100 To 250, Deduct	*-4.56*	
		For >250 To 500, Deduct	*-7.96*	
		For >500, Deduct	*-11.36*	
06 05 23 00-0183	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	26.20	
		For >10 To 50, Deduct	*-1.19*	
		For >50 To 100, Deduct	*-2.44*	
		For >100 To 250, Deduct	*-4.88*	
		For >250 To 500, Deduct	*-8.51*	
		For >500, Deduct	*-12.14*	
06 05 23 00-0184	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt	29.83	
		For >10 To 50, Deduct	*-1.33*	
		For >50 To 100, Deduct	*-2.74*	
		For >100 To 250, Deduct	*-5.48*	
		For >250 To 500, Deduct	*-9.55*	
		For >500, Deduct	*-13.62*	
06 05 23 00-0185	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt	35.15	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-3.19*	
		For >100 To 250, Deduct	*-6.38*	
		For >250 To 500, Deduct	*-11.11*	
		For >500, Deduct	*-15.84*	
06 05 23 00-0186	EA	1/2" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt	38.36	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-3.48*	
		For >100 To 250, Deduct	*-6.96*	
		For >250 To 500, Deduct	*-12.12*	
		For >500, Deduct	*-17.28*	
06 05 23 00-0187	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	32.18	
		For >10 To 50, Deduct	*-1.33*	
		For >50 To 100, Deduct	*-2.80*	
		For >100 To 250, Deduct	*-5.60*	
		For >250 To 500, Deduct	*-9.73*	
		For >500, Deduct	*-13.85*	
06 05 23 00-0188	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	38.42	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-3.27*	
		For >100 To 250, Deduct	*-6.54*	
		For >250 To 500, Deduct	*-11.35*	
		For >500, Deduct	*-16.16*	
06 05 23 00-0189	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt	42.50	
		For >10 To 50, Deduct	*-1.61*	
		For >50 To 100, Deduct	*-3.48*	
		For >100 To 250, Deduct	*-6.95*	
		For >250 To 500, Deduct	*-12.04*	
		For >500, Deduct	*-17.13*	
06 05 23 00-0190	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt	47.76	
		For >10 To 50, Deduct	*-1.75*	
		For >50 To 100, Deduct	*-3.82*	
		For >100 To 250, Deduct	*-7.64*	
		For >250 To 500, Deduct	*-13.21*	
		For >500, Deduct	*-18.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0191	EA	3/4" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt	53.47	
		For >10 To 50, Deduct	*-1.82*	
		For >50 To 100, Deduct	*-4.07*	
		For >100 To 250, Deduct	*-8.13*	
		For >250 To 500, Deduct	*-14.02*	
		For >500, Deduct	*-19.90*	

06 05 23 00-0192 Hot Dipped Galvanized Steel, Hex Lag Bolts *(06 05 23 00-0171)*

06 05 23 00-0193	EA	1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	18.21	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-1.79*	
		For >100 To 250, Deduct	*-3.59*	
		For >250 To 500, Deduct	*-6.27*	
		For >500, Deduct	*-8.96*	
06 05 23 00-0194	EA	1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	18.48	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-1.80*	
		For >100 To 250, Deduct	*-3.60*	
		For >250 To 500, Deduct	*-6.29*	
		For >500, Deduct	*-8.99*	
06 05 23 00-0195	EA	1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	18.75	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-1.81*	
		For >100 To 250, Deduct	*-3.62*	
		For >250 To 500, Deduct	*-6.32*	
		For >500, Deduct	*-9.02*	
06 05 23 00-0196	EA	3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	20.13	
		For >10 To 50, Deduct	*-0.97*	
		For >50 To 100, Deduct	*-1.96*	
		For >100 To 250, Deduct	*-3.92*	
		For >250 To 500, Deduct	*-6.86*	
		For >500, Deduct	*-9.79*	
06 05 23 00-0197	EA	3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	21.94	
		For >10 To 50, Deduct	*-1.04*	
		For >50 To 100, Deduct	*-2.11*	
		For >100 To 250, Deduct	*-4.22*	
		For >250 To 500, Deduct	*-7.38*	
		For >500, Deduct	*-10.53*	
06 05 23 00-0198	EA	3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	22.38	
		For >10 To 50, Deduct	*-1.04*	
		For >50 To 100, Deduct	*-2.12*	
		For >100 To 250, Deduct	*-4.25*	
		For >250 To 500, Deduct	*-7.41*	
		For >500, Deduct	*-10.57*	
06 05 23 00-0199	EA	3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	27.59	
		For >10 To 50, Deduct	*-1.25*	
		For >50 To 100, Deduct	*-2.57*	
		For >100 To 250, Deduct	*-5.13*	
		For >250 To 500, Deduct	*-8.95*	
		For >500, Deduct	*-12.76*	
06 05 23 00-0200	EA	3/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	29.55	
		For >10 To 50, Deduct	*-1.32*	
		For >50 To 100, Deduct	*-2.72*	
		For >100 To 250, Deduct	*-5.44*	
		For >250 To 500, Deduct	*-9.47*	
		For >500, Deduct	*-13.51*	
06 05 23 00-0201	EA	1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	22.52	
		For >10 To 50, Deduct	*-1.05*	
		For >50 To 100, Deduct	*-2.14*	
		For >100 To 250, Deduct	*-4.28*	
		For >250 To 500, Deduct	*-7.46*	
		For >500, Deduct	*-10.65*	
06 05 23 00-0202	EA	1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	24.29	
		For >10 To 50, Deduct	*-1.12*	
		For >50 To 100, Deduct	*-2.29*	
		For >100 To 250, Deduct	*-4.57*	
		For >250 To 500, Deduct	*-7.98*	
		For >500, Deduct	*-11.39*	
06 05 23 00-0203	EA	1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	26.60	
		For >10 To 50, Deduct	*-1.19*	
		For >50 To 100, Deduct	*-2.45*	
		For >100 To 250, Deduct	*-4.90*	
		For >250 To 500, Deduct	*-8.54*	
		For >500, Deduct	*-12.18*	
06 05 23 00-0204	EA	1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	31.02	
		For >10 To 50, Deduct	*-1.33*	
		For >50 To 100, Deduct	*-2.77*	
		For >100 To 250, Deduct	*-5.54*	
		For >250 To 500, Deduct	*-9.64*	
		For >500, Deduct	*-13.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0205	EA	1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	35.73	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-3.20*	
		For >100 To 250, Deduct	*-6.41*	
		For >250 To 500, Deduct	*-11.15*	
		For >500, Deduct	*-15.89*	
06 05 23 00-0206	EA	1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	39.79	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-3.51*	
		For >100 To 250, Deduct	*-7.03*	
		For >250 To 500, Deduct	*-12.22*	
		For >500, Deduct	*-17.42*	
06 05 23 00-0207	EA	3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	33.06	
		For >10 To 50, Deduct	*-1.33*	
		For >50 To 100, Deduct	*-2.82*	
		For >100 To 250, Deduct	*-5.64*	
		For >250 To 500, Deduct	*-9.79*	
		For >500, Deduct	*-13.94*	
06 05 23 00-0208	EA	3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	39.22	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-3.29*	
		For >100 To 250, Deduct	*-6.58*	
		For >250 To 500, Deduct	*-11.41*	
		For >500, Deduct	*-16.24*	
06 05 23 00-0209	EA	3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	43.83	
		For >10 To 50, Deduct	*-1.61*	
		For >50 To 100, Deduct	*-3.51*	
		For >100 To 250, Deduct	*-7.02*	
		For >250 To 500, Deduct	*-12.14*	
		For >500, Deduct	*-17.26*	
06 05 23 00-0210	EA	3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	50.92	
		For >10 To 50, Deduct	*-1.75*	
		For >50 To 100, Deduct	*-3.90*	
		For >100 To 250, Deduct	*-7.80*	
		For >250 To 500, Deduct	*-13.44*	
		For >500, Deduct	*-19.09*	
06 05 23 00-0211	EA	3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt	56.85	
		For >10 To 50, Deduct	*-1.82*	
		For >50 To 100, Deduct	*-4.15*	
		For >100 To 250, Deduct	*-8.30*	
		For >250 To 500, Deduct	*-14.27*	
		For >500, Deduct	*-20.24*	

06 05 23 00-0212 304/18-8 Stainless Steel, Hex Lag Bolts *(06 05 23 00-0171)*

06 05 23 00-0213	EA	1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	19.16	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-1.82*	
		For >100 To 250, Deduct	*-3.64*	
		For >250 To 500, Deduct	*-6.35*	
		For >500, Deduct	*-9.06*	
06 05 23 00-0214	EA	1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	20.15	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-1.84*	
		For >100 To 250, Deduct	*-3.69*	
		For >250 To 500, Deduct	*-6.42*	
		For >500, Deduct	*-9.16*	
06 05 23 00-0215	EA	1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	22.81	
		For >10 To 50, Deduct	*-0.89*	
		For >50 To 100, Deduct	*-1.91*	
		For >100 To 250, Deduct	*-3.82*	
		For >250 To 500, Deduct	*-6.62*	
		For >500, Deduct	*-9.42*	
06 05 23 00-0216	EA	3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	22.81	
		For >10 To 50, Deduct	*-0.97*	
		For >50 To 100, Deduct	*-2.03*	
		For >100 To 250, Deduct	*-4.06*	
		For >250 To 500, Deduct	*-7.06*	
		For >500, Deduct	*-10.06*	
06 05 23 00-0217	EA	3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	25.69	
		For >10 To 50, Deduct	*-1.04*	
		For >50 To 100, Deduct	*-2.21*	
		For >100 To 250, Deduct	*-4.41*	
		For >250 To 500, Deduct	*-7.66*	
		For >500, Deduct	*-10.91*	
06 05 23 00-0218	EA	3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	27.39	
		For >10 To 50, Deduct	*-1.04*	
		For >50 To 100, Deduct	*-2.25*	
		For >100 To 250, Deduct	*-4.50*	
		For >250 To 500, Deduct	*-7.79*	
		For >500, Deduct	*-11.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0219	EA	3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	55.27	
		For >10 To 50, Deduct	*-1.25*	
		For >50 To 100, Deduct	*-3.26*	
		For >100 To 250, Deduct	*-6.52*	
		For >250 To 500, Deduct	*-11.02*	
		For >500, Deduct	*-15.53*	
06 05 23 00-0220	EA	3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	77.41	
		For >10 To 50, Deduct	*-1.32*	
		For >50 To 100, Deduct	*-3.91*	
		For >100 To 250, Deduct	*-7.83*	
		For >250 To 500, Deduct	*-13.06*	
		For >500, Deduct	*-18.30*	
06 05 23 00-0221	EA	1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	27.60	
		For >10 To 50, Deduct	*-1.05*	
		For >50 To 100, Deduct	*-2.27*	
		For >100 To 250, Deduct	*-4.53*	
		For >250 To 500, Deduct	*-7.85*	
		For >500, Deduct	*-11.16*	
06 05 23 00-0222	EA	1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	32.55	
		For >10 To 50, Deduct	*-1.12*	
		For >50 To 100, Deduct	*-2.49*	
		For >100 To 250, Deduct	*-4.99*	
		For >250 To 500, Deduct	*-8.60*	
		For >500, Deduct	*-12.21*	
06 05 23 00-0223	EA	1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	40.10	
		For >10 To 50, Deduct	*-1.19*	
		For >50 To 100, Deduct	*-2.79*	
		For >100 To 250, Deduct	*-5.58*	
		For >250 To 500, Deduct	*-9.55*	
		For >500, Deduct	*-13.53*	
06 05 23 00-0224	EA	1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	82.42	
		For >10 To 50, Deduct	*-1.33*	
		For >50 To 100, Deduct	*-4.05*	
		For >100 To 250, Deduct	*-8.11*	
		For >250 To 500, Deduct	*-13.49*	
		For >500, Deduct	*-18.88*	
06 05 23 00-0225	EA	1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	112.04	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-5.11*	
		For >100 To 250, Deduct	*-10.22*	
		For >250 To 500, Deduct	*-16.87*	
		For >500, Deduct	*-23.52*	
06 05 23 00-0226	EA	1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	130.81	
		For >10 To 50, Deduct	*-1.68*	
		For >50 To 100, Deduct	*-5.79*	
		For >100 To 250, Deduct	*-11.58*	
		For >250 To 500, Deduct	*-19.05*	
		For >500, Deduct	*-26.52*	
06 05 23 00-0227	EA	3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	121.21	
		For >10 To 50, Deduct	*-1.33*	
		For >50 To 100, Deduct	*-5.02*	
		For >100 To 250, Deduct	*-10.05*	
		For >250 To 500, Deduct	*-16.40*	
		For >500, Deduct	*-22.76*	
06 05 23 00-0228	EA	3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	138.57	
		For >10 To 50, Deduct	*-1.54*	
		For >50 To 100, Deduct	*-5.77*	
		For >100 To 250, Deduct	*-11.55*	
		For >250 To 500, Deduct	*-18.86*	
		For >500, Deduct	*-26.18*	
06 05 23 00-0229	EA	3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	144.19	
		For >10 To 50, Deduct	*-1.61*	
		For >50 To 100, Deduct	*-6.02*	
		For >100 To 250, Deduct	*-12.04*	
		For >250 To 500, Deduct	*-19.67*	
		For >500, Deduct	*-27.30*	
06 05 23 00-0230	EA	3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	199.53	
		For >10 To 50, Deduct	*-1.75*	
		For >50 To 100, Deduct	*-7.61*	
		For >100 To 250, Deduct	*-15.23*	
		For >250 To 500, Deduct	*-24.59*	
		For >500, Deduct	*-33.95*	
06 05 23 00-0231	EA	3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt	217.66	
		For >10 To 50, Deduct	*-1.82*	
		For >50 To 100, Deduct	*-8.17*	
		For >100 To 250, Deduct	*-16.34*	
		For >250 To 500, Deduct	*-26.33*	
		For >500, Deduct	*-36.32*	

06 05 23 00-0232 Stainless Steel Screws *(06 05 23 00-0093)*

06 05 23 00-0233	EA	#8 x 1-1/2" Stainless Steel Screw	2.83
06 05 23 00-0234	EA	#9 x 1-1/2" Stainless Steel Screw	2.88
06 05 23 00-0235	EA	#10 x 1-1/2" Stainless Steel Screw	2.96
06 05 23 00-0236	EA	#12 x 1-1/2" Stainless Steel Screw	3.18

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0237		**Galvanized Steel Screws** *(06 05 23 00-0093)*		
06 05 23 00-0238	EA	#8 x 1-1/2" Galvanized Steel Screw	2.61	
06 05 23 00-0239	EA	#9 x 1-1/2" Galvanized Steel Screw	2.66	
06 05 23 00-0240	EA	#10 x 1-1/2" Galvanized Steel Screw	2.73	
06 05 23 00-0241	EA	#12 x 1-1/2" Galvanized Steel Screw	2.92	
06 05 23 00-0242	EA	#8 x 2-1/2" Galvanized Steel Screw	2.66	
06 05 23 00-0243	EA	#9 x 2-1/2" Galvanized Steel Screw	2.70	
06 05 23 00-0244	EA	#10 x 2-1/2" Galvanized Steel Screw	2.78	
06 05 23 00-0245	EA	#12 x 2-1/2" Galvanized Steel Screw	3.02	
06 05 23 00-0246		**Timber Bolts** *(06 05 23 00-0093)*		
		Note: Includes drilling of holes in any material.		
06 05 23 00-0247	EA	5/8" - 11 x 4" Threaded x 8" OAL A153 Galvanized Timber Bolt (Fastenal #11103914)	44.26	
		For >10 To 50, Deduct	*-1.48*	
		For >50 To 100, Deduct	*-3.32*	
		For >100 To 250, Deduct	*-6.65*	
		For >250 To 500, Deduct	*-11.45*	
		For >500, Deduct	*-16.25*	
06 05 23 00-0248	EA	5/8" - 11 x 4" Threaded x 10" OAL A153 Galvanized Timber Bolt (Fastenal #11103915)	50.00	
		For >10 To 50, Deduct	*-1.65*	
		For >50 To 100, Deduct	*-3.73*	
		For >100 To 250, Deduct	*-7.46*	
		For >250 To 500, Deduct	*-12.85*	
		For >500, Deduct	*-18.23*	
06 05 23 00-0249	EA	5/8" - 11 x 6" Threaded x 12" OAL A153 Galvanized Timber Bolt (Fastenal #11103916)	54.00	
		For >10 To 50, Deduct	*-1.76*	
		For >50 To 100, Deduct	*-3.99*	
		For >100 To 250, Deduct	*-7.99*	
		For >250 To 500, Deduct	*-13.74*	
		For >500, Deduct	*-19.50*	
06 05 23 00-0250	EA	5/8" - 11 x 6" Threaded x 14" OAL A153 Galvanized Timber Bolt (Fastenal #11103917)	60.06	
		For >10 To 50, Deduct	*-1.86*	
		For >50 To 100, Deduct	*-4.29*	
		For >100 To 250, Deduct	*-8.59*	
		For >250 To 500, Deduct	*-14.75*	
		For >500, Deduct	*-20.90*	
06 05 23 00-0251	EA	5/8" - 11 x 6" Threaded x 16" OAL A153 Galvanized Timber Bolt (Fastenal #11103918)	63.90	
		For >10 To 50, Deduct	*-1.96*	
		For >50 To 100, Deduct	*-4.54*	
		For >100 To 250, Deduct	*-9.08*	
		For >250 To 500, Deduct	*-15.59*	
		For >500, Deduct	*-22.09*	
06 05 23 00-0252	EA	5/8" - 11 x 6" Threaded x 18" OAL A153 Galvanized Timber Bolt (Fastenal #11103919)	66.38	
		For >10 To 50, Deduct	*-2.05*	
		For >50 To 100, Deduct	*-4.73*	
		For >100 To 250, Deduct	*-9.47*	
		For >250 To 500, Deduct	*-16.25*	
		For >500, Deduct	*-23.03*	
06 05 23 00-0253	EA	3/4" - 11 x 4" Threaded x 10" OAL A153 Galvanized Timber Bolt (Fastenal #11103920)	59.47	
		For >10 To 50, Deduct	*-1.76*	
		For >50 To 100, Deduct	*-4.13*	
		For >100 To 250, Deduct	*-8.26*	
		For >250 To 500, Deduct	*-14.15*	
		For >500, Deduct	*-20.04*	
06 05 23 00-0254	EA	3/4" - 11 x 6" Threaded x 12" OAL A153 Galvanized Timber Bolt (Fastenal #11103921)	62.19	
		For >10 To 50, Deduct	*-1.83*	
		For >50 To 100, Deduct	*-4.31*	
		For >100 To 250, Deduct	*-8.61*	
		For >250 To 500, Deduct	*-14.75*	
		For >500, Deduct	*-20.89*	
06 05 23 00-0255	EA	3/4" - 11 x 6" Threaded x 14" OAL A153 Galvanized Timber Bolt (Fastenal #11103922)	68.79	
		For >10 To 50, Deduct	*-1.94*	
		For >50 To 100, Deduct	*-4.63*	
		For >100 To 250, Deduct	*-9.26*	
		For >250 To 500, Deduct	*-15.84*	
		For >500, Deduct	*-22.41*	
06 05 23 00-0256	EA	3/4" - 11 x 6" Threaded x 16" OAL A153 Galvanized Timber Bolt (Fastenal #11103923)	73.82	
		For >10 To 50, Deduct	*-2.04*	
		For >50 To 100, Deduct	*-4.91*	
		For >100 To 250, Deduct	*-9.82*	
		For >250 To 500, Deduct	*-16.77*	
		For >500, Deduct	*-23.72*	
06 05 23 00-0257	EA	3/4" - 11 x 6" Threaded x 18" OAL A153 Galvanized Timber Bolt (Fastenal #11103924)	79.28	
		For >10 To 50, Deduct	*-2.14*	
		For >50 To 100, Deduct	*-5.20*	
		For >100 To 250, Deduct	*-10.39*	
		For >250 To 500, Deduct	*-17.73*	
		For >500, Deduct	*-25.07*	
06 05 23 00-0258		**Supports** *(06 05 23)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0259		**Shear Plates** *(06 05 23 00-0258)*		
06 05 23 00-0260	EA	2-5/8" Diameter, Shear Plate	17.88	5.29
		For >10 To 50, Deduct	*-0.60*	
		For >50 To 100, Deduct	*-1.34*	
		For >100 To 250, Deduct	*-2.68*	
		For >250 To 500, Deduct	*-4.61*	
		For >500, Deduct	*-6.55*	
06 05 23 00-0261	EA	4" Diameter, Shear Plate	17.42	5.57
		For >10 To 50, Deduct	*-0.62*	
		For >50 To 100, Deduct	*-1.37*	
		For >100 To 250, Deduct	*-2.73*	
		For >250 To 500, Deduct	*-4.72*	
		For >500, Deduct	*-6.71*	
06 05 23 00-0262		**Sill Anchors** *(06 05 23 00-0258)*		
06 05 23 00-0263	EA	Sill Anchor Embedded In Concrete	15.80	5.57
		For >10 To 50, Deduct	*-0.62*	
		For >50 To 100, Deduct	*-1.33*	
		For >100 To 250, Deduct	*-2.65*	
		For >250 To 500, Deduct	*-4.60*	
		For >500, Deduct	*-6.54*	
06 05 23 00-0264		**Spike Grids** *(06 05 23 00-0258)*		
06 05 23 00-0265	EA	3" x 6" Flat Or Curved Spike Grid	14.28	5.29
		For >10 To 50, Deduct	*-0.60*	
		For >50 To 100, Deduct	*-1.25*	
		For >100 To 250, Deduct	*-2.50*	
		For >250 To 500, Deduct	*-4.34*	
		For >500, Deduct	*-6.19*	
06 05 23 00-0266		**Split Rings** *(06 05 23 00-0258)*		
06 05 23 00-0267	EA	2-1/2" Diameter Split Ring	18.08	5.29
		For >10 To 50, Deduct	*-0.60*	
		For >50 To 100, Deduct	*-1.34*	
		For >100 To 250, Deduct	*-2.69*	
		For >250 To 500, Deduct	*-4.63*	
		For >500, Deduct	*-6.57*	
06 05 23 00-0268	EA	4" Diameter Split Ring	19.50	5.85
		For >10 To 50, Deduct	*-0.65*	
		For >50 To 100, Deduct	*-1.46*	
		For >100 To 250, Deduct	*-2.92*	
		For >250 To 500, Deduct	*-5.03*	
		For >500, Deduct	*-7.15*	
06 05 23 00-0269		**Toothed Rings** *(06 05 23 00-0258)*		
06 05 23 00-0270	EA	2-5/8" Or 4" Toothed Ring	14.99	5.29
		For >10 To 50, Deduct	*-0.60*	
		For >50 To 100, Deduct	*-1.27*	
		For >100 To 250, Deduct	*-2.53*	
		For >250 To 500, Deduct	*-4.40*	
		For >500, Deduct	*-6.26*	
06 05 23 00-0271		**Straps And Shields** *(06 05 23)*		
06 05 23 00-0272		**Shield Plate** *(06 05 23 00-0271)*		
06 05 23 00-0273	EA	5" Wide x 8" Long, 16 Gauge, Galvanized Shield Plate (Simpson Strong Tie® PSPN58Z)	10.74	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.36*	
		For >100 To 250, Deduct	*-0.72*	
		For >250 To 500, Deduct	*-1.25*	
		For >500, Deduct	*-1.90*	
06 05 23 00-0274	EA	5" Wide x 16" Long, 16 Gauge, Galvanized Shield Plate (Simpson Strong Tie® PSPN516Z)	17.07	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.53*	
		For >100 To 250, Deduct	*-1.07*	
		For >250 To 500, Deduct	*-1.82*	
		For >500, Deduct	*-2.69*	
06 05 23 00-0275		**Strap Ties** *(06 05 23 00-0271)*		
06 05 23 00-0276	EA	1-1/4" Wide x 9" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA9)	4.17	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.18*	
		For >100 To 250, Deduct	*-0.35*	
		For >250 To 500, Deduct	*-0.67*	
		For >500, Deduct	*-1.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0277	EA	1-1/4" Wide x 12" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA12)	4.27	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.18*	
		For >100 To 250, Deduct	*-0.36*	
		For >250 To 500, Deduct	*-0.68*	
		For >500, Deduct	*-1.08*	
06 05 23 00-0278	EA	1-1/4" Wide x 15" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA15)	5.45	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.23*	
		For >100 To 250, Deduct	*-0.45*	
		For >250 To 500, Deduct	*-0.86*	
		For >500, Deduct	*-1.37*	
06 05 23 00-0279	EA	1-1/4" Wide x 18" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA18)	5.67	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.23*	
		For >100 To 250, Deduct	*-0.46*	
		For >250 To 500, Deduct	*-0.87*	
		For >500, Deduct	*-1.39*	
06 05 23 00-0280	EA	1-1/4" Wide x 21" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA21)	5.88	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.24*	
		For >100 To 250, Deduct	*-0.47*	
		For >250 To 500, Deduct	*-0.89*	
		For >500, Deduct	*-1.41*	
06 05 23 00-0281	EA	1-1/4" Wide x 24" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA24)	6.76	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.28*	
		For >100 To 250, Deduct	*-0.55*	
		For >250 To 500, Deduct	*-1.04*	
		For >500, Deduct	*-1.66*	
06 05 23 00-0282	EA	1-1/4" Wide x 30" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA30)	8.75	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.33*	
		For >100 To 250, Deduct	*-0.65*	
		For >250 To 500, Deduct	*-1.19*	
		For >500, Deduct	*-1.86*	
06 05 23 00-0283	EA	1-1/4" Wide x 36" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA36)	10.15	
		For >10 To 50, Deduct	*-0.13*	
		For >50 To 100, Deduct	*-0.38*	
		For >100 To 250, Deduct	*-0.76*	
		For >250 To 500, Deduct	*-1.39*	
		For >500, Deduct	*-2.17*	
06 05 23 00-0284	EA	1-1/4" Wide x 9" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA9)	4.61	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.19*	
		For >100 To 250, Deduct	*-0.37*	
		For >250 To 500, Deduct	*-0.70*	
		For >500, Deduct	*-1.12*	
06 05 23 00-0285	EA	1-1/4" Wide x 12" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA12)	4.78	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.19*	
		For >100 To 250, Deduct	*-0.38*	
		For >250 To 500, Deduct	*-0.71*	
		For >500, Deduct	*-1.13*	
06 05 23 00-0286	EA	1-1/4" Wide x 15" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA15)	6.08	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.24*	
		For >100 To 250, Deduct	*-0.48*	
		For >250 To 500, Deduct	*-0.90*	
		For >500, Deduct	*-1.43*	
06 05 23 00-0287	EA	1-1/4" Wide x 18" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA18)	6.34	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.25*	
		For >100 To 250, Deduct	*-0.50*	
		For >250 To 500, Deduct	*-0.92*	
		For >500, Deduct	*-1.46*	
06 05 23 00-0288	EA	1-1/4" Wide x 21" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA21)	6.47	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.25*	
		For >100 To 250, Deduct	*-0.50*	
		For >250 To 500, Deduct	*-0.93*	
		For >500, Deduct	*-1.47*	
06 05 23 00-0289	EA	1-1/4" Wide x 24" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA24)	7.39	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.29*	
		For >100 To 250, Deduct	*-0.58*	
		For >250 To 500, Deduct	*-1.09*	
		For >500, Deduct	*-1.72*	
06 05 23 00-0290	EA	1-1/4" Wide x 30" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA30)	9.17	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.34*	
		For >100 To 250, Deduct	*-0.67*	
		For >250 To 500, Deduct	*-1.22*	
		For >500, Deduct	*-1.90*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0291	EA	1-1/4" Wide x 36" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA36)	10.16	
		For >10 To 50, Deduct	*-0.13*	
		For >50 To 100, Deduct	*-0.38*	
		For >100 To 250, Deduct	*-0.76*	
		For >250 To 500, Deduct	*-1.39*	
		For >500, Deduct	*-2.17*	
06 05 23 00-0292	EA	1-1/4" Wide x 36" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA49)	16.01	
		For >10 To 50, Deduct	*-0.14*	
		For >50 To 100, Deduct	*-0.54*	
		For >100 To 250, Deduct	*-1.09*	
		For >250 To 500, Deduct	*-1.91*	
		For >500, Deduct	*-2.91*	
06 05 23 00-0293	EA	1-1/4" Wide x 9" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST9)	5.44	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.21*	
		For >100 To 250, Deduct	*-0.41*	
		For >250 To 500, Deduct	*-0.76*	
		For >500, Deduct	*-1.20*	
06 05 23 00-0294	EA	1-1/4" Wide x 12" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST12)	5.45	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.21*	
		For >100 To 250, Deduct	*-0.42*	
		For >250 To 500, Deduct	*-0.77*	
		For >500, Deduct	*-1.20*	
06 05 23 00-0295	EA	1-1/4" Wide x 18" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST18)	6.63	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.26*	
		For >100 To 250, Deduct	*-0.51*	
		For >250 To 500, Deduct	*-0.94*	
		For >500, Deduct	*-1.48*	
06 05 23 00-0296	EA	1-1/4" Wide x 22" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST22)	9.17	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.34*	
		For >100 To 250, Deduct	*-0.67*	
		For >250 To 500, Deduct	*-1.22*	
		For >500, Deduct	*-1.90*	
06 05 23 00-0297	EA	1-3/8" Wide x 6" Long, 12 Gauge, Galvanized Strap Tie (Simpson Strong Tie® HRS6)	7.81	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.27*	
		For >100 To 250, Deduct	*-0.53*	
		For >250 To 500, Deduct	*-0.94*	
		For >500, Deduct	*-1.44*	
06 05 23 00-0298	EA	1-3/8" Wide x 8" Long, 12 Gauge, Galvanized Strap Tie (Simpson Strong Tie® HRS8)	8.61	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.29*	
		For >100 To 250, Deduct	*-0.57*	
		For >250 To 500, Deduct	*-1.00*	
		For >500, Deduct	*-1.52*	
06 05 23 00-0299	EA	1-3/8" Wide x 12" Long, 12 Gauge, Galvanized Strap Tie (Simpson Strong Tie® HRS12)	11.29	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.37*	
		For >100 To 250, Deduct	*-0.74*	
		For >250 To 500, Deduct	*-1.29*	
		For >500, Deduct	*-1.95*	
06 05 23 00-0300	EA	2-1/16" Wide x 27" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST27)	16.78	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.53*	
		For >100 To 250, Deduct	*-1.05*	
		For >250 To 500, Deduct	*-1.79*	
		For >500, Deduct	*-2.66*	
06 05 23 00-0301	EA	2-1/16" Wide x 37" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST37)	20.90	
		For >10 To 50, Deduct	*-0.13*	
		For >50 To 100, Deduct	*-0.65*	
		For >100 To 250, Deduct	*-1.30*	
		For >250 To 500, Deduct	*-2.19*	
		For >500, Deduct	*-3.24*	
06 05 23 00-0302	EA	2-1/16" Wide x 48" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST48)	30.90	
		For >10 To 50, Deduct	*-0.14*	
		For >50 To 100, Deduct	*-0.92*	
		For >100 To 250, Deduct	*-1.83*	
		For >250 To 500, Deduct	*-3.03*	
		For >500, Deduct	*-4.40*	
06 05 23 00-0303	EA	2-1/16" Wide x 60" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST60)	53.73	
		For >10 To 50, Deduct	*-0.16*	
		For >50 To 100, Deduct	*-1.50*	
		For >100 To 250, Deduct	*-3.01*	
		For >250 To 500, Deduct	*-4.83*	
		For >500, Deduct	*-6.85*	
06 05 23 00-0304	EA	2-1/16" Wide x 72" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST72)	69.23	
		For >10 To 50, Deduct	*-0.18*	
		For >50 To 100, Deduct	*-1.91*	
		For >100 To 250, Deduct	*-3.82*	
		For >250 To 500, Deduct	*-6.08*	
		For >500, Deduct	*-8.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0305	EA	3" Wide x 28-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC28)	20.00	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.61*	
		For >100 To 250, Deduct	*-1.21*	
		For >250 To 500, Deduct	*-2.04*	
		For >500, Deduct	*-2.98*	
06 05 23 00-0306	EA	3" Wide x 40-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC40)	25.81	
		For >10 To 50, Deduct	*-0.13*	
		For >50 To 100, Deduct	*-0.77*	
		For >100 To 250, Deduct	*-1.54*	
		For >250 To 500, Deduct	*-2.56*	
		For >500, Deduct	*-3.73*	
06 05 23 00-0307	EA	3" Wide x 52-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC52)	30.13	
		For >10 To 50, Deduct	*-0.14*	
		For >50 To 100, Deduct	*-0.90*	
		For >100 To 250, Deduct	*-1.79*	
		For >250 To 500, Deduct	*-2.97*	
		For >500, Deduct	*-4.33*	
06 05 23 00-0308	EA	3" Wide x 66-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC66)	45.82	
		For >10 To 50, Deduct	*-0.16*	
		For >50 To 100, Deduct	*-1.31*	
		For >100 To 250, Deduct	*-2.61*	
		For >250 To 500, Deduct	*-4.24*	
		For >500, Deduct	*-6.06*	

06 05 23 00-0309 Twist Strap Ties *(06 05 23 00-0271)*

06 05 23 00-0310	EA	1-1/4" Wide x 12" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS12)	4.87	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.19*	
		For >100 To 250, Deduct	*-0.39*	
		For >250 To 500, Deduct	*-0.72*	
		For >500, Deduct	*-1.14*	
06 05 23 00-0311	EA	1-1/4" Wide x 16" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS16)	6.12	
		For >10 To 50, Deduct	*-0.08*	
		For >50 To 100, Deduct	*-0.23*	
		For >100 To 250, Deduct	*-0.47*	
		For >250 To 500, Deduct	*-0.86*	
		For >500, Deduct	*-1.35*	
06 05 23 00-0312	EA	1-1/4" Wide x 18" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS18)	7.05	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.27*	
		For >100 To 250, Deduct	*-0.53*	
		For >250 To 500, Deduct	*-0.98*	
		For >500, Deduct	*-1.53*	
06 05 23 00-0313	EA	1-1/4" Wide x 20" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS20)	7.64	
		For >10 To 50, Deduct	*-0.10*	
		For >50 To 100, Deduct	*-0.29*	
		For >100 To 250, Deduct	*-0.58*	
		For >250 To 500, Deduct	*-1.06*	
		For >500, Deduct	*-1.67*	
06 05 23 00-0314	EA	1-1/4" Wide x 12" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS12)	4.81	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.19*	
		For >100 To 250, Deduct	*-0.38*	
		For >250 To 500, Deduct	*-0.72*	
		For >500, Deduct	*-1.14*	
06 05 23 00-0315	EA	1-1/4" Wide x 16" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS16)	6.22	
		For >10 To 50, Deduct	*-0.08*	
		For >50 To 100, Deduct	*-0.24*	
		For >100 To 250, Deduct	*-0.47*	
		For >250 To 500, Deduct	*-0.87*	
		For >500, Deduct	*-1.36*	
06 05 23 00-0316	EA	1-1/4" Wide x 18" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS18)	7.22	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.27*	
		For >100 To 250, Deduct	*-0.54*	
		For >250 To 500, Deduct	*-0.99*	
		For >500, Deduct	*-1.54*	
06 05 23 00-0317	EA	1-1/4" Wide x 20" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS20)	7.70	
		For >10 To 50, Deduct	*-0.10*	
		For >50 To 100, Deduct	*-0.29*	
		For >100 To 250, Deduct	*-0.58*	
		For >250 To 500, Deduct	*-1.07*	
		For >500, Deduct	*-1.67*	
06 05 23 00-0318	EA	1-1/4" Wide x 24" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS24)	10.50	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.37*	
		For >100 To 250, Deduct	*-0.74*	
		For >250 To 500, Deduct	*-1.32*	
		For >500, Deduct	*-2.03*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0319	EA	1-1/4" Wide x 16" Long, 14 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® HTS16)	8.03	
		For >10 To 50, Deduct	*-0.08*	
		For >50 To 100, Deduct	*-0.28*	
		For >100 To 250, Deduct	*-0.56*	
		For >250 To 500, Deduct	*-1.00*	
		For >500, Deduct	*-1.54*	
06 05 23 00-0320	EA	1-1/4" Wide x 20" Long, 14 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® HTS20)	9.61	
		For >10 To 50, Deduct	*-0.10*	
		For >50 To 100, Deduct	*-0.34*	
		For >100 To 250, Deduct	*-0.68*	
		For >250 To 500, Deduct	*-1.21*	
		For >500, Deduct	*-1.86*	
06 05 23 00-0321	EA	1-1/4" Wide x 24" Long, 14 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® HTS24)	11.16	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.39*	
		For >100 To 250, Deduct	*-0.77*	
		For >250 To 500, Deduct	*-1.37*	
		For >500, Deduct	*-2.10*	

06 05 23 00-0322 Retrofit Plate Strap *(06 05 23 00-0271)*

06 05 23 00-0323	EA	1-3/8" Wide x 18-5/16" Long, 16 Gauge, Galvanized Retrofit Plate Strap (Simpson Strong Tie® RPS18)	8.04	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.29*	
		For >100 To 250, Deduct	*-0.58*	
		For >250 To 500, Deduct	*-1.05*	
		For >500, Deduct	*-1.63*	
06 05 23 00-0324	EA	1-3/8" Wide x 22-5/16" Long, 16 Gauge, Galvanized Retrofit Plate Strap (Simpson Strong Tie® RPS22)	9.19	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.32*	
		For >100 To 250, Deduct	*-0.64*	
		For >250 To 500, Deduct	*-1.14*	
		For >500, Deduct	*-1.74*	
06 05 23 00-0325	EA	1-3/8" Wide x 28-5/16" Long, 16 Gauge, Galvanized Retrofit Plate Strap (Simpson Strong Tie® RPS28)	11.02	
		For >10 To 50, Deduct	*-0.09*	
		For >50 To 100, Deduct	*-0.36*	
		For >100 To 250, Deduct	*-0.73*	
		For >250 To 500, Deduct	*-1.27*	
		For >500, Deduct	*-1.92*	

06 05 23 00-0326 Stud Shoe *(06 05 23 00-0271)*

06 05 23 00-0327	EA	6" High With 3-1/4" Wide Tabs For 2X Stud, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS1.5)	13.72	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.45*	
		For >100 To 250, Deduct	*-0.90*	
		For >250 To 500, Deduct	*-1.56*	
		For >500, Deduct	*-2.36*	
06 05 23 00-0328	EA	6" High With 3-1/4" Wide Tabs For 3X Stud, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS2.5)	27.14	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.79*	
		For >100 To 250, Deduct	*-1.57*	
		For >250 To 500, Deduct	*-2.57*	
		For >500, Deduct	*-3.70*	
06 05 23 00-0329	EA	6" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS3)	27.26	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.79*	
		For >100 To 250, Deduct	*-1.58*	
		For >250 To 500, Deduct	*-2.58*	
		For >500, Deduct	*-3.71*	
06 05 23 00-0330	EA	6" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS4.5)	36.59	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-1.02*	
		For >100 To 250, Deduct	*-2.04*	
		For >250 To 500, Deduct	*-3.28*	
		For >500, Deduct	*-4.64*	
06 05 23 00-0331	EA	7-1/8" High With 3-1/4" Wide Tabs For 2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® HSS2-SDS1.5)	34.37	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-0.97*	
		For >100 To 250, Deduct	*-1.93*	
		For >250 To 500, Deduct	*-3.11*	
		For >500, Deduct	*-4.42*	
06 05 23 00-0332	EA	7-1/8" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie HSS2-2-SDS3)	37.25	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-1.04*	
		For >100 To 250, Deduct	*-2.08*	
		For >250 To 500, Deduct	*-3.33*	
		For >500, Deduct	*-4.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0333	EA	7-1/8" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® HSS2-3-SDS3)	39.44	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-1.09*	
		For >100 To 250, Deduct	*-2.19*	
		For >250 To 500, Deduct	*-3.49*	
		For >500, Deduct	*-4.93*	
06 05 23 00-0334	EA	7-1/8" High With 3-1/4" Wide Tabs For 4X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® HSS4-SDS3)	59.68	
		For >10 To 50, Deduct	*-0.11*	
		For >50 To 100, Deduct	*-1.60*	
		For >100 To 250, Deduct	*-3.20*	
		For >250 To 500, Deduct	*-5.01*	
		For >500, Deduct	*-6.95*	

06 05 23 00-0335 Nail Stops *(06 05 23 00-0271)*

06 05 23 00-0336	EA	1-1/2" Wide x 3" Long, 16 Gauge, Galvanized Nail Stops (Simpson Strong Tie® NS1)	3.83	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.17*	
		For >100 To 250, Deduct	*-0.33*	
		For >250 To 500, Deduct	*-0.64*	
		For >500, Deduct	*-1.04*	
06 05 23 00-0337	EA	1-1/2" Wide x 6" Long, 16 Gauge, Galvanized Nail Stops (Simpson Strong Tie® NS2)	4.01	
		For >10 To 50, Deduct	*-0.07*	
		For >50 To 100, Deduct	*-0.17*	
		For >100 To 250, Deduct	*-0.34*	
		For >250 To 500, Deduct	*-0.66*	
		For >500, Deduct	*-1.06*	

06 05 73 Wood Treatment *(06 05)*

06 05 73 13 Fire-Retardant Wood Treatment *(06 05 73)*

06 05 73 13-0001 Preservative Treated Lumber *(06 05 73 13)*

06 05 73 13-0002 Fire Retardant Treatment (FRT) For Lumber *(06 05 73 13-0001)*

06 05 73 13-0003	MBF	Fire Retardant Treatment (FRT) For Lumber	814.90	

06 05 73 33 Preservative Wood Treatment *(06 05 73)*

06 05 73 33-0001 Preservative Treatment For Marine And Fresh Water Uses *(06 05 73 33)*

06 05 73 33-0002	MBF	Preservative Treatment For Marine And Fresh Water Lumber	145.92	

06 10 Rough Carpentry *(06)*

06 11 Wood Framing *(06 10)*

Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal. See CSI section 06 05 23 00-0000 for anchors and supports.

06 11 13 Engineered Wood Products *(06 11)*

Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal.

06 11 13 00-0001 Built-Up Members *(06 11 13)*

Note: A structural framing member made from fastening separate pieces of lumber together.

06 11 13 00-0002 Built-Up Beams Or Joists *(06 11 13 00-0001)*

06 11 13 00-0003	LF	Two 2" x 6" Built-up Wood Beam Or Joist	5.53	2.44
		For Each Additional 2" x_" In The Built Up Member, Add	*0.90*	
06 11 13 00-0004	LF	Two 2" x 8" Built-up Wood Beam Or Joist	6.85	2.88
		For Each Additional 2" x_" In The Built Up Member, Add	*1.27*	
06 11 13 00-0005	LF	Two 2" x 10" Built-up Wood Beam Or Joist	8.72	3.44
		For Each Additional 2" x_" In The Built Up Member, Add	*1.77*	

06 11 13 00-0006 Built-Up Posts *(06 11 13 00-0001)*

06 11 13 00-0007	LF	Two 2" x 6" Built-up Wood Post	5.53	2.44
		For Each Additional 2" x_" In The Built Up Member, Add	*0.90*	
06 11 13 00-0008	LF	Two 2" x 8" Built-up Wood Post	6.85	2.88
		For Each Additional 2" x_" In The Built Up Member, Add	*1.27*	
06 11 13 00-0009	LF	Two 2" x 10" Built-up Wood Post	8.72	3.44
		For Each Additional 2" x_" In The Built Up Member, Add	*1.77*	

06 11 16 Mechanically Graded Lumber *(06 11)*

06 11 16 00-0001 Rafters And Joists *(06 11 16)*

06 11 16 00-0002 Rafters *(06 11 16 00-0001)*

Note: An inclined roof framing member to which a roof covering is attached.

06 11 16 00-0003	LF	2" x 6" Wood Rafter	3.20	1.72
06 11 16 00-0004	LF	2" x 8" Wood Rafter	3.71	1.86

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0005	LF	2" x 10" Wood Rafter	5.37	2.73
06 11 16 00-0006	LF	2" x 12" Wood Rafter	6.16	3.02
06 11 16 00-0007	LF	2" x 14" Wood Rafter	6.69	3.30
06 11 16 00-0008	LF	2" x 6" Pressure Treated Wood Rafter	3.17	1.72
06 11 16 00-0009	LF	2" x 8" Pressure Treated Wood Rafter	3.66	1.86
06 11 16 00-0010	LF	2" x 10" Pressure Treated Wood Rafter	5.11	2.73
06 11 16 00-0011	LF	2" x 12" Pressure Treated Wood Rafter	5.99	3.02
06 11 16 00-0012		**Joists** *(06 11 16 00-0001)*		
		Note: A series of parallel beams to support floors or ceilings.		
06 11 16 00-0013	LF	2" x 6" Wood Floor Joist	2.76	1.44
06 11 16 00-0014	LF	2" x 8" Wood Floor Joist	3.43	1.58
06 11 16 00-0015	LF	2" x 10" Wood Floor Joist	4.35	2.02
06 11 16 00-0016	LF	2" x 12" Wood Floor Joist	5.16	2.30
06 11 16 00-0017	LF	2" x 14" Wood Floor Joist	5.68	2.44
06 11 16 00-0018	LF	2" x 6" Pressure Treated Wood Floor Joist	2.73	1.44
06 11 16 00-0019	LF	2" x 8" Pressure Treated Wood Floor Joist	3.38	1.58
06 11 16 00-0020	LF	2" x 10" Pressure Treated Wood Floor Joist	4.09	2.02
06 11 16 00-0021	LF	2" x 12" Pressure Treated Wood Floor Joist	4.99	2.30
06 11 16 00-0022		**Purlins** *(06 11 16 00-0001)*		
		Note: A horizontal structural member in a roof, supporting the loads from the roof deck or sheathing.		
06 11 16 00-0023	LF	2" x 4" Wood Purlin	2.26	0.86
06 11 16 00-0024	LF	2" x 6" Wood Purlin	2.79	0.95
06 11 16 00-0025	LF	2" x 8" Wood Purlin	3.36	1.05
06 11 16 00-0026	LF	2" x 10" Wood Purlin	4.07	1.14
06 11 16 00-0027	LF	2" x 4" Pressure Treated Wood Purlin	2.24	0.86
06 11 16 00-0028	LF	2" x 6" Pressure Treated Wood Purlin	2.76	0.95
06 11 16 00-0029	LF	2" x 8" Pressure Treated Wood Purlin	3.31	1.05
06 11 16 00-0030	LF	2" x 10" Pressure Treated Wood Purlin	3.81	1.14
06 11 16 00-0031		**Exposed Rafters Or Joists** *(06 11 16 00-0001)*		
06 11 16 00-0032		**Redwood Rafters Or Joists** *(06 11 16 00-0031)*		
06 11 16 00-0033	LF	2" x 6" Redwood Rafter Or Joist	4.07	1.44
06 11 16 00-0034	LF	2" x 8" Redwood Rafter Or Joist	4.96	1.58
06 11 16 00-0035	LF	2" x 10" Redwood Rafter Or Joist	6.16	2.02
06 11 16 00-0036	LF	2" x 12" Redwood Rafter Or Joist	7.46	2.30
06 11 16 00-0037		**Cedar Rafters Or Joists** *(06 11 16 00-0031)*		
06 11 16 00-0038	LF	2" x 6" Cedar Rafter Or Joist	2.77	1.44
06 11 16 00-0039	LF	2" x 8" Cedar Rafter Or Joist	3.13	1.58
06 11 16 00-0040	LF	2" x 10" Cedar Rafter Or Joist	3.60	2.02
06 11 16 00-0041	LF	2" x 12" Cedar Rafter Or Joist	4.10	2.30
06 11 16 00-0042		**Oak Rafters Or Joists** *(06 11 16 00-0031)*		
06 11 16 00-0043	LF	2" x 6" Oak Rafter Or Joist	3.30	1.44
06 11 16 00-0044	LF	2" x 8" Oak Rafter Or Joist	4.48	1.58
06 11 16 00-0045	LF	2" x 10" Oak Rafter Or Joist	5.78	2.02
06 11 16 00-0046	LF	2" x 12" Oak Rafter Or Joist	7.10	2.30
06 11 16 00-0047		**Framing** *(06 11 16)*		
06 11 16 00-0048		**Partition Framing** *(06 11 16 00-0047)*		
06 11 16 00-0049	LF	2" x 4" Wood Stud Framing, For Partition Walls	2.19	1.14
06 11 16 00-0050	LF	2" x 6" Wood Stud Framing, For Partition Walls	2.62	1.23
06 11 16 00-0051	LF	2" x 8" Wood Stud Framing, For Partition Walls	3.06	1.30
06 11 16 00-0052	LF	2" x 4" Pressure Treated Wood Stud Framing, For Partition Walls	2.17	1.14
06 11 16 00-0053	LF	2" x 6" Pressure Treated Wood Stud Framing, For Partition Walls	2.59	1.23
06 11 16 00-0054	LF	2" x 8" Pressure Treated Wood Stud Framing, For Partition Walls	3.01	1.30
06 11 16 00-0055		**Wall Framing Assemblies** *(06 11 16 00-0047)*		
		Note: Includes single bottom and double top plates, center support bracing, vertical studs and appropriate fastening devices. Excludes blocking for wall mounted fixtures or cabinets. Per SF of wall area measures one side. Do not deduct for openings of less than 25 SF when calculating total wall square footage.		
06 11 16 00-0056		**Wall Framing By The SF, 12" On Center** *(06 11 16 00-0055)*		
06 11 16 00-0057	SF	2" x 4" At 12" On Center, Wood Wall Framing Assembly	2.82	1.39
		For Up To 200, Add	*0.97*	
		For >200 To 500, Add	*0.49*	
06 11 16 00-0058	SF	2" x 6" At 12" On Center, Wood Wall Framing Assembly	3.78	1.78
		For Up To 200, Add	*1.28*	
		For >200 To 500, Add	*0.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0059	SF	2" x 8" At 12" On Center, Wood Wall Framing Assembly	5.04	2.37
		For Up To 200, Add	*1.71*	
		For >200 To 500, Add	*0.85*	
06 11 16 00-0060		**Wall Framing By The SF, 16" On Center** *(06 11 16 00-0055)*		
06 11 16 00-0061	SF	2" x 4" At 16" On Center, Wood Wall Framing Assembly	2.29	1.12
		For Up To 200, Add	*0.79*	
		For >200 To 500, Add	*0.39*	
06 11 16 00-0062	SF	2" x 6" At 16" On Center, Wood Wall Framing Assembly	3.14	1.49
		For Up To 200, Add	*1.06*	
		For >200 To 500, Add	*0.53*	
06 11 16 00-0063	SF	2" x 8" At 16" On Center, Wood Wall Framing Assembly	4.20	1.97
		For Up To 200, Add	*1.42*	
		For >200 To 500, Add	*0.71*	
06 11 16 00-0064		**Wall Framing By The SF, 24" On Center** *(06 11 16 00-0055)*		
06 11 16 00-0065	SF	2" x 4" At 24" On Center, Wood Wall Framing Assembly	1.81	0.88
		For Up To 200, Add	*0.62*	
		For >200 To 500, Add	*0.31*	
06 11 16 00-0066	SF	2" x 6" At 24" On Center, Wood Wall Framing Assembly	2.46	1.15
		For Up To 200, Add	*0.83*	
		For >200 To 500, Add	*0.42*	
06 11 16 00-0067	SF	2" x 8" At 24" On Center, Wood Wall Framing Assembly	3.29	1.54
		For Up To 200, Add	*1.11*	
		For >200 To 500, Add	*0.56*	
06 11 16 00-0068		**Sills And Plates** *(06 11 16)*		
06 11 16 00-0069		**Sills** *(06 11 16 00-0068)*		
		Note: A horizontal member which rests on and is attached to the foundation.		
06 11 16 00-0070	LF	2" x 4" Wood Sill	3.77	2.16
06 11 16 00-0071	LF	2" x 6" Wood Sill	4.50	2.44
06 11 16 00-0072	LF	2" x 8" Wood Sill	5.32	2.73
06 11 16 00-0073	LF	2" x 4" Pressure Treated Wood Sill	3.75	2.16
06 11 16 00-0074	LF	2" x 6" Pressure Treated Wood Sill	4.47	2.44
06 11 16 00-0075	LF	2" x 8" Pressure Treated Wood Sill	5.27	2.73
06 11 16 00-0076		**Plates** *(06 11 16 00-0068)*		
		Note: A horizontal member connecting and terminating studs, posts, joists, rafters, etc. such as the top and bottom plate on a stud framed partition wall.		
06 11 16 00-0077	LF	2" x 4" Wood Plate	3.77	2.16
06 11 16 00-0078	LF	2" x 6" Wood Plate	4.50	2.44
06 11 16 00-0079	LF	2" x 8" Wood Plate	5.29	2.73
06 11 16 00-0080	LF	2" x 4" Pressure Treated Wood Plate	3.75	2.16
06 11 16 00-0081	LF	2" x 6" Pressure Treated Wood Plate	4.47	2.44
06 11 16 00-0082	LF	2" x 8" Pressure Treated Wood Plate	5.24	2.73
06 11 16 00-0083		**Sills And Plates From Redwood** *(06 11 16 00-0068)*		
06 11 16 00-0084		**Construction Grade/Rough** *(06 11 16 00-0083)*		
06 11 16 00-0085	LF	2" x 6" Redwood, Construction Grade/Rough	7.03	2.44
06 11 16 00-0086	LF	2" x 8" Redwood, Construction Grade/Rough	9.29	2.73
06 11 16 00-0087	LF	2" x 10" Redwood, Construction Grade/Rough	11.29	3.02
06 11 16 00-0088	LF	2" x 12" Redwood, Construction Grade/Rough	13.63	3.30
06 11 16 00-0089		**Con Heart/Smooth** *(06 11 16 00-0083)*		
06 11 16 00-0090	LF	2" x 6" Redwood, Con Heart/Smooth	8.50	2.44
06 11 16 00-0091	LF	2" x 8" Redwood, Con Heart/Smooth	11.49	2.73
06 11 16 00-0092	LF	2" x 10" Redwood, Con Heart/Smooth	15.01	3.02
06 11 16 00-0093	LF	2" x 12" Redwood, Con Heart/Smooth	18.05	3.30
06 11 16 00-0094		**Suspended Ceiling Framing** *(06 11 16)*		
06 11 16 00-0095	LF	1" x 2" Wood Suspended Ceiling Framing	3.12	1.86
06 11 16 00-0096	LF	1" x 3" Wood Suspended Ceiling Framing	3.39	2.02
06 11 16 00-0097	LF	1" x 4" Wood Suspended Ceiling Framing	3.55	2.16
06 11 16 00-0098	LF	2" x 2" Wood Suspended Ceiling Framing	3.65	2.16
06 11 16 00-0099	LF	2" x 4" Wood Suspended Ceiling Framing	4.33	2.44
06 11 16 00-0100	LF	1" x 2" Pressure Treated Wood Suspended Ceiling Framing	3.31	1.86
06 11 16 00-0101	LF	1" x 3" Pressure Treated Wood Suspended Ceiling Framing	3.40	2.02
06 11 16 00-0102	LF	1" x 4" Pressure Treated Wood Suspended Ceiling Framing	3.59	2.16
06 11 16 00-0103	LF	2" x 2" Pressure Treated Wood Suspended Ceiling Framing	3.63	2.16
06 11 16 00-0104	LF	2" x 4" Pressure Treated Wood Suspended Ceiling Framing	4.26	2.44
06 11 16 00-0105		**Posts And Girts** *(06 11 16)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0106		**Posts** *(06 11 16 00-0105)*		
		Note: A vertical, upright framing member.		
06 11 16 00-0107	LF	4" x 4" Wood Post	5.42	2.73
06 11 16 00-0108	LF	4" x 5" Wood Post	6.18	3.16
06 11 16 00-0109	LF	4" x 6" Wood Post	6.83	3.44
06 11 16 00-0110	LF	6" x 6" Wood Post	7.57	3.74
06 11 16 00-0111	LF	8" x 8" Wood Post	8.34	3.88
06 11 16 00-0112	LF	10" x 10" Wood Post	9.10	4.46
06 11 16 00-0113	LF	4" x 4" Pressure Treated Wood Post	6.06	2.73
06 11 16 00-0114	LF	3" x 6" Pressure Treated Wood Post	6.91	3.44
06 11 16 00-0115	LF	4" x 6" Pressure Treated Wood Post	8.26	3.44
06 11 16 00-0116	LF	6" x 6" Pressure Treated Wood Post	10.89	3.74
06 11 16 00-0117		**Girts** *(06 11 16 00-0105)*		
		Note: A horizontal member at intermediate level between columns, studs, or posts.		
06 11 16 00-0118	LF	2" x 4" Wood Girt	2.61	1.03
06 11 16 00-0119	LF	2" x 6" Wood Girt	3.17	1.13
06 11 16 00-0120	LF	2" x 8" Wood Girt	3.77	1.25
06 11 16 00-0121	LF	2" x 10" Wood Girt	4.52	1.38
06 11 16 00-0122	LF	4" x 4" Wood Girt	5.27	2.07
06 11 16 00-0123	LF	4" x 5" Wood Girt	6.04	2.33
06 11 16 00-0124	LF	4" x 6" Wood Girt	6.80	2.58
06 11 16 00-0125	LF	6" x 6" Wood Girt	7.55	2.85
06 11 16 00-0126	LF	8" x 8" Wood Girt	8.32	3.10
06 11 16 00-0127	LF	10" x 10" Wood Girt	9.08	3.37
06 11 16 00-0128	LF	2" x 4" Pressure Treated Wood Girt	2.59	1.03
06 11 16 00-0129	LF	2" x 6" Pressure Treated Wood Girt	3.14	1.13
06 11 16 00-0130	LF	2" x 8" Pressure Treated Wood Girt	3.72	1.25
06 11 16 00-0131	LF	2" x 10" Pressure Treated Wood Girt	4.26	1.38
06 11 16 00-0132	LF	4" x 4" Pressure Treated Wood Girt	6.06	2.07
06 11 16 00-0133	LF	3" x 6" Pressure Treated Wood Girt	6.91	2.58
06 11 16 00-0134	LF	4" x 6" Pressure Treated Wood Girt	8.26	2.58
06 11 16 00-0135	LF	6" x 6" Pressure Treated Wood Girt	10.89	2.85
06 11 16 00-0136		**Construction Grade/Rough Redwood Posts** *(06 11 16 00-0105)*		
06 11 16 00-0137	LF	4" x 4" Redwood, Construction Grade/Rough Post	10.76	2.73
		For Smooth "Clear", Add	*1.33*	
06 11 16 00-0138	LF	4" x 5" Redwood, Construction Grade/Rough Post	12.93	3.16
		For Smooth "Clear", Add	*1.66*	
06 11 16 00-0139	LF	4" x 6" Redwood, Construction Grade/Rough Post	15.14	3.44
		For Smooth "Clear", Add	*1.99*	
06 11 16 00-0140	LF	4" x 8" Redwood, Construction Grade/Rough Post	18.68	3.54
		For Smooth "Clear", Add	*2.66*	
06 11 16 00-0141	LF	4" x 10" Redwood, Construction Grade/Rough Post	22.32	3.78
		For Smooth "Clear", Add	*3.32*	
06 11 16 00-0142	LF	6" x 6" Redwood, Construction Grade/Rough Post	20.63	3.74
		For Smooth "Clear", Add	*2.99*	
06 11 16 00-0143	LF	6" x 8" Redwood, Construction Grade/Rough Post	25.83	3.88
		For Smooth "Clear", Add	*3.98*	
06 11 16 00-0144	LF	6" x 10" Redwood, Construction Grade/Rough Post	30.97	3.64
		For Smooth "Clear", Add	*4.98*	
06 11 16 00-0145	LF	8" x 8" Redwood, Construction Grade/Rough Post	32.78	3.88
		For Smooth "Clear", Add	*5.31*	
06 11 16 00-0146		**Stair Stringers** *(06 11 16)*		
06 11 16 00-0147	LF	2" x 10" Wood Stair Stringer	10.35	5.74
06 11 16 00-0148	LF	2" x 12" Wood Stair Stringer	12.23	6.76
06 11 16 00-0149	LF	2" x 10" Pressure Treated Wood Stair Stringer	10.13	5.74
06 11 16 00-0150	LF	2" x 12" Pressure Treated Wood Stair Stringer	12.03	6.76
06 11 16 00-0151		**Blocking And Sleepers** *(06 11 16)*		
06 11 16 00-0152		**Blocking** *(06 11 16 00-0151)*		
06 11 16 00-0153		**Blocking To Wood** *(06 11 16 00-0152)*		
06 11 16 00-0154	LF	2" x 4" Pressure Treated Wood Blocking To Wood	7.65	3.45
06 11 16 00-0155	LF	2" x 6" Pressure Treated Wood Blocking To Wood	8.85	3.80
06 11 16 00-0156	LF	2" x 8" Pressure Treated Wood Blocking To Wood	9.97	4.17
06 11 16 00-0157	LF	4" x 4" Pressure Treated Wood Blocking To Wood	11.37	4.59
06 11 16 00-0158	LF	4" x 6" Pressure Treated Wood Blocking To Wood	13.34	5.05
06 11 16 00-0159	LF	2" x 4" Wood Blocking To Wood	7.44	3.45
06 11 16 00-0160	LF	2" x 6" Wood Blocking To Wood	8.49	3.80
06 11 16 00-0161	LF	2" x 8" Wood Blocking To Wood	9.62	4.17
06 11 16 00-0162	LF	4" x 4" Wood Blocking To Wood	10.49	4.59
06 11 16 00-0163	LF	4" x 6" Wood Blocking To Wood	11.76	5.05

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0164		**Blocking To Steel** *(06 11 16 00-0152)*		
06 11 16 00-0165	LF	2" x 4" Pressure Treated Wood Blocking To Steel	8.77	3.97
06 11 16 00-0166	LF	2" x 6" Pressure Treated Wood Blocking To Steel	10.11	4.37
06 11 16 00-0167	LF	2" x 8" Pressure Treated Wood Blocking To Steel	11.39	4.80
06 11 16 00-0168	LF	2" x 4" Wood Blocking To Steel	8.53	3.97
06 11 16 00-0169	LF	2" x 6" Wood Blocking To Steel	9.72	4.37
06 11 16 00-0170	LF	2" x 8" Wood Blocking To Steel	11.01	4.80
06 11 16 00-0171		**Blocking To Concrete** *(06 11 16 00-0152)*		
06 11 16 00-0172	LF	2" x 4" Pressure Treated Wood Blocking To Concrete	8.77	3.97
06 11 16 00-0173	LF	2" x 6" Pressure Treated Wood Blocking To Concrete	10.11	4.37
06 11 16 00-0174	LF	2" x 8" Pressure Treated Wood Blocking To Concrete	11.39	4.80
06 11 16 00-0175	LF	2" x 4" Wood Blocking To Concrete	8.53	3.97
06 11 16 00-0176	LF	2" x 6" Wood Blocking To Concrete	9.72	4.37
06 11 16 00-0177	LF	2" x 8" Wood Blocking To Concrete	11.01	4.80
06 11 16 00-0178		**Pressure Treated Lattice** *(06 11 16 00-0151)*		
06 11 16 00-0179	SF	3/4" Thick Pressure Treated Wood Lattice	8.04	3.02
06 11 16 00-0180		**Sleepers** *(06 11 16 00-0151)*		
06 11 16 00-0181		**Sleepers To Wood** *(06 11 16 00-0180)*		
06 11 16 00-0182	LF	1" x 2" Pressure Treated Wood Sleeper On Wood	1.43	0.51
06 11 16 00-0183	LF	1" x 3" Pressure Treated Wood Sleeper On Wood	1.52	0.58
06 11 16 00-0184	LF	1" x 4" Pressure Treated Wood Sleeper On Wood	1.81	0.65
06 11 16 00-0185	LF	2" x 4" Pressure Treated Wood Sleeper On Wood	2.33	0.79
06 11 16 00-0186	LF	2" x 6" Pressure Treated Wood Sleeper On Wood	2.98	0.86
06 11 16 00-0187		**Sleepers To Concrete** *(06 11 16 00-0180)*		
06 11 16 00-0188	LF	1" x 2" Pressure Treated Wood Sleeper On Concrete	1.48	0.51
06 11 16 00-0189	LF	1" x 3" Pressure Treated Wood Sleeper On Concrete	1.56	0.58
06 11 16 00-0190	LF	1" x 4" Pressure Treated Wood Sleeper On Concrete	1.86	0.65
06 11 16 00-0191	LF	2" x 4" Pressure Treated Wood Sleeper On Concrete	2.41	0.79
06 11 16 00-0192	LF	2" x 6" Pressure Treated Wood Sleeper On Concrete	3.10	0.86
06 11 16 00-0193		**Roofing Nailers** *(06 11 16)*		
06 11 16 00-0194	LF	2" x 4" Pressure Treated Lumber, For Roofing Nailers	3.82	1.14
06 11 16 00-0195	LF	2" x 6" Pressure Treated Lumber, For Roofing Nailers	4.31	1.23
06 11 16 00-0196	LF	2" x 8" Pressure Treated Lumber, For Roofing Nailers	4.82	1.30
06 11 16 00-0197		**Roofing Sleepers** *(06 11 16)*		
06 11 16 00-0198	LF	2" x 4" Pressure Treated Lumber, For Roofing Sleepers	1.59	
06 11 16 00-0199	LF	4" x 4" Pressure Treated Lumber, For Roofing Sleepers	4.03	
06 11 16 00-0200	LF	4" x 6" Pressure Treated Lumber, For Roofing Sleepers	5.66	
06 11 16 00-0201	LF	6" x 6" Pressure Treated Lumber, For Roofing Sleepers	8.08	
06 11 16 00-0202		**Canopy Framing, Bridging, And Furring** *(06 11 16)*		
06 11 16 00-0203		**Wood And Steel Bridging** *(06 11 16 00-0202)*		
06 11 16 00-0204		**Wood Bridging** *(06 11 16 00-0203)*		
06 11 16 00-0205	EA	1 Pair Wood Bridging, 1" x 3" Cross Type Note: For joists spaced at 16" on center.	11.53	5.03
06 11 16 00-0206	EA	1 Pair Wood Bridging, 2" x 3" Cross Type Note: For joists spaced at 16" on center.	11.82	5.03
06 11 16 00-0207		**Steel Bridging** *(06 11 16 00-0203)*		
06 11 16 00-0208	EA	1 Pair Steel Bridging, Wood Joists At 16" On Center	13.76	5.03
06 11 16 00-0209	EA	1 Pair Steel Bridging, Wood Joists At 24" On Center	13.72	5.03
06 11 16 00-0210		**Light Framing, Trim And Furring** *(06 11 16 00-0202)*		
06 11 16 00-0211		**Pine/Spruce/Fir Light Framing, Trim And Furring** *(06 11 16 00-0210)* Note: S4S board, select grade 1		
06 11 16 00-0212	LF	1" x 1" Pine/Spruce/Fir Light Framing, Trim And Furring	2.53	1.17
06 11 16 00-0213	LF	1" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring	2.82	1.30
06 11 16 00-0214	LF	1" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring	3.24	1.42
06 11 16 00-0215	LF	1" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring	3.60	1.57
06 11 16 00-0216	LF	1" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring	3.99	1.72
06 11 16 00-0217	LF	1" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring	4.41	1.89
06 11 16 00-0218	LF	2" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring	3.62	1.57

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0219	LF	2" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring	4.03	1.72
06 11 16 00-0220	LF	2" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring	4.69	1.89
06 11 16 00-0221	LF	2" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring	5.43	2.09
06 11 16 00-0222	LF	2" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring	6.35	2.30
06 11 16 00-0223		Cedar Light Framing, Trim And Furring *(06 11 16 00-0210)*		
		Note: S4S board, select grade 1		
06 11 16 00-0224	LF	1" x 1" Cedar Light Framing, Trim And Furring	2.56	1.17
06 11 16 00-0225	LF	1" x 2" Cedar Light Framing, Trim And Furring	2.97	1.30
06 11 16 00-0226	LF	1" x 4" Cedar Light Framing, Trim And Furring	3.82	1.42
06 11 16 00-0227	LF	1" x 6" Cedar Light Framing, Trim And Furring	4.58	1.57
06 11 16 00-0228	LF	1" x 8" Cedar Light Framing, Trim And Furring	6.56	1.72
06 11 16 00-0229	LF	1" x 10" Cedar Light Framing, Trim And Furring	7.69	1.89
06 11 16 00-0230	LF	2" x 2" Cedar Light Framing, Trim And Furring	3.99	1.57
06 11 16 00-0231	LF	2" x 4" Cedar Light Framing, Trim And Furring	4.58	1.72
06 11 16 00-0232		Oak Light Framing, Trim And Furring *(06 11 16 00-0210)*		
		Note: S4S board, select grade 1		
06 11 16 00-0233	LF	1" x 1" Oak Light Framing, Trim And Furring	2.57	1.17
06 11 16 00-0234	LF	1" x 2" Oak Light Framing, Trim And Furring	2.99	1.30
06 11 16 00-0235	LF	1" x 4" Oak Light Framing, Trim And Furring	3.67	1.42
06 11 16 00-0236	LF	1" x 6" Oak Light Framing, Trim And Furring	4.36	1.57
06 11 16 00-0237	LF	1" x 8" Oak Light Framing, Trim And Furring	5.08	1.72
06 11 16 00-0238	LF	1" x 10" Oak Light Framing, Trim And Furring	5.85	1.89
06 11 16 00-0239	LF	2" x 2" Oak Light Framing, Trim And Furring	3.95	1.57
06 11 16 00-0240	LF	2" x 4" Oak Light Framing, Trim And Furring	5.09	1.72
06 11 16 00-0241		Redwood Light Framing, Trim And Furring *(06 11 16 00-0210)*		
		Note: S4S board, select grade 1		
06 11 16 00-0242	LF	1" x 1" Redwood Light Framing, Trim And Furring	2.50	1.17
06 11 16 00-0243	LF	1" x 2" Redwood Light Framing, Trim And Furring	2.88	1.30
06 11 16 00-0244	LF	1" x 4" Redwood Light Framing, Trim And Furring	3.47	1.42
06 11 16 00-0245	LF	1" x 6" Redwood Light Framing, Trim And Furring	4.12	1.57
06 11 16 00-0246	LF	1" x 8" Redwood Light Framing, Trim And Furring	4.83	1.72
06 11 16 00-0247	LF	1" x 10" Redwood Light Framing, Trim And Furring	5.61	1.89
06 11 16 00-0248	LF	2" x 2" Redwood Light Framing, Trim And Furring	4.14	1.57
06 11 16 00-0249	LF	2" x 4" Redwood Light Framing, Trim And Furring	4.85	1.72
06 11 16 00-0250		Poplar Light Framing, Trim And Furring *(06 11 16 00-0210)*		
		Note: S4S board, select grade 1		
06 11 16 00-0251	LF	1" x 1" Poplar Light Framing, Trim And Furring	2.85	1.17
06 11 16 00-0252	LF	1" x 2" Poplar Light Framing, Trim And Furring	3.42	1.30
06 11 16 00-0253	LF	1" x 4" Poplar Light Framing, Trim And Furring	4.24	1.42
06 11 16 00-0254	LF	1" x 6" Poplar Light Framing, Trim And Furring	5.31	1.57
06 11 16 00-0255	LF	1" x 8" Poplar Light Framing, Trim And Furring	6.13	1.72
06 11 16 00-0256	LF	1" x 10" Poplar Light Framing, Trim And Furring	7.95	1.89
06 11 16 00-0257	LF	1" x 12" Poplar Light Framing, Trim And Furring	8.54	1.89
06 11 16 00-0258	LF	2" x 2" Poplar Light Framing, Trim And Furring	6.79	1.57
06 11 16 00-0259	LF	2" x 4" Poplar Light Framing, Trim And Furring	7.59	1.72
06 11 16 00-0260	LF	2" x 6" Poplar Light Framing, Trim And Furring	10.01	1.89
06 11 16 00-0261		Maple Light Framing, Trim And Furring *(06 11 16 00-0210)*		
		Note: S4S board, select grade 1		
06 11 16 00-0262	LF	1" x 4" Maple Light Framing, Trim And Furring	5.17	1.42
06 11 16 00-0263	LF	1" x 6" Maple Light Framing, Trim And Furring	6.74	1.57
06 11 16 00-0264	LF	1" x 8" Maple Light Framing, Trim And Furring	8.36	1.72

06 13 Heavy Timber Construction *(06 10)*

06 13 23 Heavy Timber Framing *(06 13)*

06 13 23 00-0001 Heavy Timber Framing *(06 13 23)*

Note: Excludes fasteners. See CSI section 06 05 23 00-0093 for bolts and fasteners.

06 13 23 00-0002 Heavy Timber Beams *(06 13 23 00-0001)*

06 13 23 00-0003 Pine, Heavy Timber Beams *(06 13 23 00-0002)*

06 13 23 00-0004	LF	4" x 4", Pine, Heavy Timber Beam	7.13	2.55
06 13 23 00-0005	LF	4" x 6", Pine, Heavy Timber Beam	8.37	2.65
06 13 23 00-0006	LF	4" x 8", Pine, Heavy Timber Beam	9.59	2.76
06 13 23 00-0007	LF	4" x 10", Pine, Heavy Timber Beam	12.05	2.95
06 13 23 00-0008	LF	4" x 12", Pine, Heavy Timber Beam	14.09	3.13
06 13 23 00-0009	LF	6" x 6", Pine, Heavy Timber Beam	10.26	2.88
06 13 23 00-0010	LF	6" x 8", Pine, Heavy Timber Beam	12.04	3.02
06 13 23 00-0011	LF	6" x 10", Pine, Heavy Timber Beam	15.71	3.23
06 13 23 00-0012	LF	6" x 12", Pine, Heavy Timber Beam	18.35	3.30

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 13 23 00-0013	LF	8" x 8", Pine, Heavy Timber Beam	14.37	3.13
06 13 23 00-0014	LF	8" x 10", Pine, Heavy Timber Beam	18.79	3.23
06 13 23 00-0015	LF	8" x 12", Pine, Heavy Timber Beam	22.39	3.30
06 13 23 00-0016	LF	10" x 10", Pine, Heavy Timber Beam	22.16	3.30
06 13 23 00-0017	LF	10" x 12", Pine, Heavy Timber Beam	26.77	3.60
06 13 23 00-0018	LF	12" x 12", Pine, Heavy Timber Beam	31.40	3.95
06 13 23 00-0019		Douglas Fir, Heavy Timber Beams *(06 13 23 00-0002)*		
06 13 23 00-0020	LF	4" x 4", Douglas Fir, Heavy Timber Beam	7.34	2.55
06 13 23 00-0021	LF	4" x 6", Douglas Fir, Heavy Timber Beam	8.67	2.65
06 13 23 00-0022	LF	4" x 8", Douglas Fir, Heavy Timber Beam	10.00	2.76
06 13 23 00-0023	LF	4" x 10", Douglas Fir, Heavy Timber Beam	12.67	2.95
06 13 23 00-0024	LF	4" x 12", Douglas Fir, Heavy Timber Beam	14.86	3.13
06 13 23 00-0025	LF	6" x 6", Douglas Fir, Heavy Timber Beam	10.71	2.88
06 13 23 00-0026	LF	6" x 8", Douglas Fir, Heavy Timber Beam	12.64	3.02
06 13 23 00-0027	LF	6" x 10", Douglas Fir, Heavy Timber Beam	16.62	3.23
06 13 23 00-0028	LF	6" x 12", Douglas Fir, Heavy Timber Beam	19.53	3.30
06 13 23 00-0029	LF	8" x 8", Douglas Fir, Heavy Timber Beam	15.18	3.13
06 13 23 00-0030	LF	8" x 10", Douglas Fir, Heavy Timber Beam	20.02	3.23
06 13 23 00-0031	LF	8" x 12", Douglas Fir, Heavy Timber Beam	23.96	3.30
06 13 23 00-0032	LF	10" x 10", Douglas Fir, Heavy Timber Beam	23.69	3.30
06 13 23 00-0033	LF	10" x 12", Douglas Fir, Heavy Timber Beam	28.70	3.60
06 13 23 00-0034	LF	12" x 12", Douglas Fir, Heavy Timber Beam	33.74	3.95
06 13 23 00-0035		Pressure Treated, Heavy Timber Beams *(06 13 23 00-0002)*		
06 13 23 00-0036	LF	4" x 4", Pressure Treated, Heavy Timber Beam	7.04	2.55
06 13 23 00-0037	LF	4" x 6", Pressure Treated, Heavy Timber Beam	8.40	2.65
06 13 23 00-0038	LF	4" x 8", Pressure Treated, Heavy Timber Beam	9.60	2.76
06 13 23 00-0039	LF	4" x 10", Pressure Treated, Heavy Timber Beam	12.05	2.95
06 13 23 00-0040	LF	4" x 12", Pressure Treated, Heavy Timber Beam	14.08	3.13
06 13 23 00-0041	LF	6" x 6", Pressure Treated, Heavy Timber Beam	10.89	2.88
06 13 23 00-0042	LF	6" x 8", Pressure Treated, Heavy Timber Beam	12.91	3.02
06 13 23 00-0043	LF	6" x 10", Pressure Treated, Heavy Timber Beam	15.18	3.23
06 13 23 00-0044	LF	6" x 12", Pressure Treated, Heavy Timber Beam	18.05	3.30
06 13 23 00-0045	LF	8" x 8", Pressure Treated, Heavy Timber Beam	18.05	3.13
06 13 23 00-0046	LF	8" x 10", Pressure Treated, Heavy Timber Beam	20.62	3.23
06 13 23 00-0047	LF	8" x 12", Pressure Treated, Heavy Timber Beam	23.90	3.30
06 13 23 00-0048	LF	10" x 10", Pressure Treated, Heavy Timber Beam	24.01	3.30
06 13 23 00-0049	LF	10" x 12", Pressure Treated, Heavy Timber Beam	31.01	3.60
06 13 23 00-0050	LF	12" x 12", Pressure Treated, Heavy Timber Beam	36.50	3.95
06 13 23 00-0051		Heavy Timber Columns *(06 13 23 00-0001)*		
06 13 23 00-0052		Pine, Heavy Timber Columns *(06 13 23 00-0051)*		
06 13 23 00-0053	LF	4" x 4", Pine, Heavy Timber Column	4.71	1.34
06 13 23 00-0054	LF	4" x 6", Pine, Heavy Timber Column	5.89	1.42
06 13 23 00-0055	LF	4" x 8", Pine, Heavy Timber Column	6.97	1.46
06 13 23 00-0056	LF	4" x 10", Pine, Heavy Timber Column	9.26	1.55
06 13 23 00-0057	LF	4" x 12", Pine, Heavy Timber Column	11.13	1.64
06 13 23 00-0058	LF	6" x 6", Pine, Heavy Timber Column	7.57	1.50
06 13 23 00-0059	LF	6" x 8", Pine, Heavy Timber Column	9.22	1.57
06 13 23 00-0060	LF	6" x 10", Pine, Heavy Timber Column	12.65	1.70
06 13 23 00-0061	LF	6" x 12", Pine, Heavy Timber Column	15.22	1.74
06 13 23 00-0062	LF	8" x 8", Pine, Heavy Timber Column	11.41	1.64
06 13 23 00-0063	LF	8" x 10", Pine, Heavy Timber Column	15.73	1.70
06 13 23 00-0064	LF	8" x 12", Pine, Heavy Timber Column	19.20	1.77
06 13 23 00-0065	LF	10" x 10", Pine, Heavy Timber Column	18.95	1.77
06 13 23 00-0066	LF	10" x 12", Pine, Heavy Timber Column	23.37	1.89
06 13 23 00-0067	LF	12" x 12", Pine, Heavy Timber Column	27.66	2.08
06 13 23 00-0068		Douglas Fir, Heavy Timber Columns *(06 13 23 00-0051)*		
06 13 23 00-0069	LF	4" x 4", Douglas Fir, Heavy Timber Column	4.92	1.34
06 13 23 00-0070	LF	4" x 6", Douglas Fir, Heavy Timber Column	6.19	1.42
06 13 23 00-0071	LF	4" x 8", Douglas Fir, Heavy Timber Column	7.38	1.46
06 13 23 00-0072	LF	4" x 10", Douglas Fir, Heavy Timber Column	9.88	1.55
06 13 23 00-0073	LF	4" x 12", Douglas Fir, Heavy Timber Column	11.90	1.64
06 13 23 00-0074	LF	6" x 6", Douglas Fir, Heavy Timber Column	8.02	1.50
06 13 23 00-0075	LF	6" x 8", Douglas Fir, Heavy Timber Column	9.82	1.57
06 13 23 00-0076	LF	6" x 10", Douglas Fir, Heavy Timber Column	13.56	1.70
06 13 23 00-0077	LF	6" x 12", Douglas Fir, Heavy Timber Column	16.40	1.74
06 13 23 00-0078	LF	8" x 8", Douglas Fir, Heavy Timber Column	12.22	1.64
06 13 23 00-0079	LF	8" x 10", Douglas Fir, Heavy Timber Column	16.96	1.70
06 13 23 00-0080	LF	8" x 12", Douglas Fir, Heavy Timber Column	20.77	1.77
06 13 23 00-0081	LF	10" x 10", Douglas Fir, Heavy Timber Column	20.48	1.77
06 13 23 00-0082	LF	10" x 12", Douglas Fir, Heavy Timber Column	25.30	1.89
06 13 23 00-0083	LF	12" x 12", Douglas Fir, Heavy Timber Column	30.00	2.08

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 13 23 00-0084		Pressure Treated, Heavy Timber Columns *(06 13 23 00-0051)*		
06 13 23 00-0085	LF	4" x 4", Pressure Treated, Heavy Timber Column	4.62	1.34
06 13 23 00-0086	LF	4" x 6", Pressure Treated, Heavy Timber Column	5.92	1.42
06 13 23 00-0087	LF	4" x 8", Pressure Treated, Heavy Timber Column	6.98	1.46
06 13 23 00-0088	LF	4" x 10", Pressure Treated, Heavy Timber Column	9.26	1.55
06 13 23 00-0089	LF	4" x 12", Pressure Treated, Heavy Timber Column	11.12	1.64
06 13 23 00-0090	LF	6" x 6", Pressure Treated, Heavy Timber Column	8.20	1.50
06 13 23 00-0091	LF	6" x 8", Pressure Treated, Heavy Timber Column	10.09	1.57
06 13 23 00-0092	LF	6" x 10", Pressure Treated, Heavy Timber Column	12.12	1.70
06 13 23 00-0093	LF	6" x 12", Pressure Treated, Heavy Timber Column	14.92	1.74
06 13 23 00-0094	LF	8" x 8", Pressure Treated, Heavy Timber Column	15.09	1.64
06 13 23 00-0095	LF	8" x 10", Pressure Treated, Heavy Timber Column	17.56	1.70
06 13 23 00-0096	LF	8" x 12", Pressure Treated, Heavy Timber Column	20.71	1.77
06 13 23 00-0097	LF	10" x 10", Pressure Treated, Heavy Timber Column	20.80	1.77
06 13 23 00-0098	LF	10" x 12", Pressure Treated, Heavy Timber Column	27.61	1.89
06 13 23 00-0099	LF	12" x 12", Pressure Treated, Heavy Timber Column	32.76	2.08

06 15 Wood Decking *(06 10)*

06 15 13 Wood Floor Decking *(06 15)*

06 15 13 00-0001 Wood Deck System Assemblies *(06 15 13)*
Note: Includes the deck, joists, girders, railing posts 8' on-center, pickets and railing. Excludes ground posts.

06 15 13 00-0002 Pressure Treated Wood Deck System Assemblies *(06 15 13 00-0001)*

06 15 13 00-0003 2" x 8" Joists At 16" On Center, Pressure Treated Wood Deck System Assemblies *(06 15 13 00-0002)*

06 15 13 00-0004	SF	5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	42.98	8.57
06 15 13 00-0005	SF	5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	41.48	8.15
06 15 13 00-0006	SF	2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	44.50	8.80
06 15 13 00-0007	SF	2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	43.01	8.36

06 15 13 00-0008 2" x 10" Joists At 16" On Center, Pressure Treated Wood Deck System Assemblies *(06 15 13 00-0002)*

06 15 13 00-0009	SF	5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	44.37	8.80
06 15 13 00-0010	SF	5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	42.81	8.35
06 15 13 00-0011	SF	2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	45.92	9.01
06 15 13 00-0012	SF	2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	44.39	8.56

06 15 13 00-0013 2" x 10" Joists At 24" On Center, Pressure Treated Wood Deck System Assemblies *(06 15 13 00-0002)*

06 15 13 00-0014	SF	5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	42.98	8.57
06 15 13 00-0015	SF	5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	41.48	8.15
06 15 13 00-0016	SF	2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	44.50	8.80
06 15 13 00-0017	SF	2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	43.01	8.36

06 15 13 00-0018 Redwood With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0001)*

06 15 13 00-0019 2" x 8" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0018)*

06 15 13 00-0020	SF	5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	45.41	8.57
06 15 13 00-0021	SF	5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	44.03	8.54
06 15 13 00-0022	SF	2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	47.55	8.80
06 15 13 00-0023	SF	2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	45.88	8.36

06 15 13 00-0024 2" x 10" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0018)*

06 15 13 00-0025	SF	5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly Assembly	48.19	8.80
06 15 13 00-0026	SF	5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	46.74	8.35
06 15 13 00-0027	SF	2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	50.49	9.01
06 15 13 00-0028	SF	2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	48.80	8.56

06 15 13 00-0029 2" x 10" Joists At 24" On Center, Redwood With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0018)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0030	SF	5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	46.39	8.57
06 15 13 00-0031	SF	5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	45.01	8.15
06 15 13 00-0032	SF	2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	48.59	8.80
06 15 13 00-0033	SF	2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	47.69	8.36
06 15 13 00-0034		Cypress With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0001)*		
06 15 13 00-0035		2" x 8" Joists At 16" On Center, Cypress With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0034)*		
06 15 13 00-0036	SF	5/4" x 4" Cypress Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	44.31	8.57
06 15 13 00-0037	SF	5/4" x 6" Cypress Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	42.88	8.15
06 15 13 00-0038	SF	2" x 4" Cypress Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	46.31	8.80
06 15 13 00-0039	SF	2" x 6" Cypress Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	44.61	8.36
06 15 13 00-0040		2" x 10" Joists At 16" On Center, Cypress With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0034)*		
06 15 13 00-0041	SF	5/4" x 4" Cypress Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	46.87	8.80
06 15 13 00-0042	SF	5/4" x 6" Cypress Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	45.38	8.35
06 15 13 00-0043	SF	2" x 4" Cypress Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	49.02	9.01
06 15 13 00-0044	SF	2" x 6" Cypress Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	47.74	8.56
06 15 13 00-0045		2" x 10" Joists At 24" On Center, Cypress With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0034)*		
06 15 13 00-0046	SF	5/4" x 4" Cypress Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	45.92	8.57
06 15 13 00-0047	SF	5/4" x 6" Cypress Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	43.74	8.15
06 15 13 00-0048	SF	2" x 4" Cypress Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	47.24	8.80
06 15 13 00-0049	SF	2" x 6" Cypress Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	45.97	8.36
06 15 13 00-0050		Cedar With Pressure Treated Joists Wood Deck System Assemblies *(06 15 13 00-0001)*		
06 15 13 00-0051		2" x 8" Joists At 16" On Center, Cedar With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0050)*		
06 15 13 00-0052	SF	5/4" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	43.86	8.57
06 15 13 00-0053	SF	5/4" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	42.40	8.15
06 15 13 00-0054	SF	2" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	45.46	8.80
06 15 13 00-0055	SF	2" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	44.00	8.36
06 15 13 00-0056		2" x 10" Joists At 16" On Center, Cedar With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0050)*		
06 15 13 00-0057	SF	5/4" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	45.32	8.80
06 15 13 00-0058	SF	5/4" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	44.19	8.35
06 15 13 00-0059	SF	2" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	46.94	9.01
06 15 13 00-0060	SF	2" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System Assembly	45.51	8.56
06 15 13 00-0061		2" x 10" Joists At 24" On Center, Cedar With Pressure Treated Joists, Wood Deck System Assemblies *(06 15 13 00-0050)*		
06 15 13 00-0062	SF	5/4" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	44.41	8.57
06 15 13 00-0063	SF	5/4" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	42.95	8.15
06 15 13 00-0064	SF	2" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	46.03	8.80
06 15 13 00-0065	SF	2" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System Assembly	44.57	8.36
06 15 13 00-0066		Wood Ramp System Assemblies *(06 15 13)* Note: Includes the decking, joists, girders, railing posts at corners and along ramp, pickets and railing. Excludes ground posts.		
06 15 13 00-0067		Pressure Treated Wood Ramp System Assemblies *(06 15 13 00-0066)*		
06 15 13 00-0068		2" x 6" Joists, Pressure Treated Wood Ramp System Assemblies *(06 15 13 00-0067)*		
06 15 13 00-0069	SF	5/4" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	50.43	8.36
06 15 13 00-0070	SF	5/4" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	48.52	7.94
06 15 13 00-0071	SF	2" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	52.12	8.57
06 15 13 00-0072	SF	2" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	50.20	8.15
06 15 13 00-0073		2" x 8" Joists, Pressure Treated Wood Ramp System Assemblies *(06 15 13 00-0067)*		
06 15 13 00-0074	SF	5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	51.97	8.57
06 15 13 00-0075	SF	5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	50.02	8.15
06 15 13 00-0076	SF	2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	53.72	8.80
06 15 13 00-0077	SF	2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	51.77	8.36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0078		**2" x 10" Joists, Pressure Treated Wood Ramp System Assemblies** *(06 15 13 00-0067)*		
06 15 13 00-0079	SF	5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	53.56	8.79
06 15 13 00-0080	SF	5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	51.58	8.35
06 15 13 00-0081	SF	2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	55.36	9.01
06 15 13 00-0082	SF	2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	53.37	8.56
06 15 13 00-0083		**Redwood With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0066)*		
06 15 13 00-0084		**2" x 6" Joists, Redwood With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0083)*		
06 15 13 00-0085	SF	5/4" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	52.71	8.36
06 15 13 00-0086	SF	5/4" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	50.91	7.94
06 15 13 00-0087	SF	2" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	54.98	8.57
06 15 13 00-0088	SF	2" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	52.90	8.15
06 15 13 00-0089		**2" x 8" Joists, Redwood With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0083)*		
06 15 13 00-0090	SF	5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	54.40	8.57
06 15 13 00-0091	SF	5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	52.57	8.15
06 15 13 00-0092	SF	2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	56.77	8.80
06 15 13 00-0093	SF	2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	54.64	8.36
06 15 13 00-0094		**2" x 10" Joists, Redwood With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0083)*		
06 15 13 00-0095	SF	5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	57.40	8.79
06 15 13 00-0096	SF	5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	55.51	8.35
06 15 13 00-0097	SF	2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	59.94	9.01
06 15 13 00-0098	SF	2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	58.28	8.56
06 15 13 00-0099		**Cypress With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0066)*		
06 15 13 00-0100		**2" x 6" Joists, Cypress With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0099)*		
06 15 13 00-0101	SF	5/4" x 4" Cypress Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	51.68	8.36
06 15 13 00-0102	SF	5/4" x 6" Cypress Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	49.83	7.94
06 15 13 00-0103	SF	2" x 4" Cypress Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	53.81	8.57
06 15 13 00-0104	SF	2" x 6" Cypress Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	51.71	8.15
06 15 13 00-0105		**2" x 8" Joists, Cypress With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0099)*		
06 15 13 00-0106	SF	5/4" x 4" Cypress Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	53.30	8.57
06 15 13 00-0107	SF	5/4" x 6" Cypress Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	51.42	8.15
06 15 13 00-0108	SF	2" x 4" Cypress Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	55.53	8.80
06 15 13 00-0109	SF	2" x 6" Cypress Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	53.37	8.36
06 15 13 00-0110		**2" x 10" Joists, Cypress With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0099)*		
06 15 13 00-0111	SF	5/4" x 4" Cypress Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	56.00	8.79
06 15 13 00-0112	SF	5/4" x 6" Cypress Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	54.15	8.35
06 15 13 00-0113	SF	2" x 4" Cypress Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	58.46	9.01
06 15 13 00-0114	SF	2" x 6" Cypress Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	56.72	8.56
06 15 13 00-0115		**Cedar With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0066)*		
06 15 13 00-0116		**2" x 6" Joists, Cedar With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0115)*		
06 15 13 00-0117	SF	5/4" x 4" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	51.24	8.36
06 15 13 00-0118	SF	5/4" x 6" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	49.36	7.94
06 15 13 00-0119	SF	2" x 4" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	52.99	8.57
06 15 13 00-0120	SF	2" x 6" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System Assembly	51.12	8.15
06 15 13 00-0121		**2" x 8" Joists, Cedar With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0115)*		
06 15 13 00-0122	SF	5/4" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	52.83	8.57
06 15 13 00-0123	SF	5/4" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	50.92	8.15
06 15 13 00-0124	SF	2" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	54.66	8.80
06 15 13 00-0125	SF	2" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System Assembly	52.74	8.36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0126		**2" x 10" Joists, Cedar With Pressure Treated Joists, Wood Ramp System Assemblies** *(06 15 13 00-0115)*		
06 15 13 00-0127	SF	5/4" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	54.50	8.79
06 15 13 00-0128	SF	5/4" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	52.54	8.35
06 15 13 00-0129	SF	2" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	56.36	9.01
06 15 13 00-0130	SF	2" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System Assembly	54.41	8.56
06 15 13 00-0131		**Wood Stair System Assemblies** *(06 15 13)* Note: Includes the decking, joists, girders, railing posts at corners and along stairs, pickets and railing. Excludes ground posts.		
06 15 13 00-0132		**Pressure Treated Wood Stair System Assemblies** *(06 15 13 00-0131)*		
06 15 13 00-0133		**2" x 10" Joists, Pressure Treated Wood Stair System Assemblies** *(06 15 13 00-0132)*		
06 15 13 00-0134	RSR	3' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	134.86	20.57
06 15 13 00-0135	RSR	3' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	131.04	19.54
06 15 13 00-0136	RSR	3' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	138.91	21.10
06 15 13 00-0137	RSR	3' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	134.50	20.05
06 15 13 00-0138	RSR	3'-6" Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	141.60	21.60
06 15 13 00-0139	RSR	3'-6" Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	137.60	20.53
06 15 13 00-0140	RSR	3'-6" Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	145.87	22.16
06 15 13 00-0141	RSR	3'-6" Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	141.22	21.06
06 15 13 00-0142	RSR	4' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	148.55	22.69
06 15 13 00-0143	RSR	4' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	144.32	21.55
06 15 13 00-0144	RSR	4' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	153.02	23.27
06 15 13 00-0145	RSR	4' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	148.13	22.10
06 15 13 00-0146	RSR	5' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	157.46	23.82
06 15 13 00-0147	RSR	5' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	153.12	22.63
06 15 13 00-0148	RSR	5' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	162.22	24.44
06 15 13 00-0149	RSR	5' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	157.15	23.22
06 15 13 00-0150		**2" x 12" Joists, Pressure Treated Wood Stair System Assemblies** *(06 15 13 00-0132)*		
06 15 13 00-0151	RSR	3' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	137.82	21.09
06 15 13 00-0152	RSR	3' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	133.44	20.04
06 15 13 00-0153	RSR	3' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	142.10	21.64
06 15 13 00-0154	RSR	3' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	137.62	20.55
06 15 13 00-0155	RSR	3'-6" Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	144.71	22.15
06 15 13 00-0156	RSR	3'-6" Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	140.12	21.04
06 15 13 00-0157	RSR	3'-6" Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	149.20	22.71
06 15 13 00-0158	RSR	3'-6" Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	144.51	21.57
06 15 13 00-0159	RSR	4' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	151.82	23.25
06 15 13 00-0160	RSR	4' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	146.98	22.09
06 15 13 00-0161	RSR	4' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	156.52	23.85
06 15 13 00-0162	RSR	4' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	151.59	22.67
06 15 13 00-0163	RSR	5' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	160.90	24.42
06 15 13 00-0164	RSR	5' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	155.90	23.20
06 15 13 00-0165	RSR	5' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	165.91	25.04
06 15 13 00-0166	RSR	5' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	160.79	23.79
06 15 13 00-0167		**Redwood With Pressure Treated Joists, Wood Stair System Assemblies** *(06 15 13 00-0131)*		
06 15 13 00-0168		**2" x 10" Joists, Redwood With Pressure Treated Joists, Wood Stair System Assemblies** *(06 15 13 00-0167)*		
06 15 13 00-0169	RSR	3' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	148.38	20.57
06 15 13 00-0170	RSR	3' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	144.44	19.54
06 15 13 00-0171	RSR	3' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	153.28	21.10
06 15 13 00-0172	RSR	3' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	149.29	20.05
06 15 13 00-0173	RSR	3'-6" Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	155.79	21.60
06 15 13 00-0174	RSR	3'-6" Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	151.67	20.53
06 15 13 00-0175	RSR	3'-6" Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	160.95	22.16
06 15 13 00-0176	RSR	3'-6" Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	156.75	21.06
06 15 13 00-0177	RSR	4' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	163.38	22.69
06 15 13 00-0178	RSR	4' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	159.02	21.55
06 15 13 00-0179	RSR	4' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	168.77	23.27
06 15 13 00-0180	RSR	4' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	164.35	22.10
06 15 13 00-0181	RSR	5' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	173.77	23.82
06 15 13 00-0182	RSR	5' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	169.28	22.63
06 15 13 00-0183	RSR	5' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	179.55	24.44
06 15 13 00-0184	RSR	5' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	174.99	23.22

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0185		2" x 12" Joists, Redwood With Pressure Treated Joists, Wood Stair System Assemblies *(06 15 13 00-0167)*			
06 15 13 00-0186	RSR	3' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		147.35	21.09
06 15 13 00-0187	RSR	3' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		143.32	20.04
06 15 13 00-0188	RSR	3' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		152.02	21.64
06 15 13 00-0189	RSR	3' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		148.01	20.55
06 15 13 00-0190	RSR	3'-6" Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		154.72	22.15
06 15 13 00-0191	RSR	3'-6" Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		150.48	21.04
06 15 13 00-0192	RSR	3'-6" Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		159.62	22.71
06 15 13 00-0193	RSR	3'-6" Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		155.41	21.57
06 15 13 00-0194	RSR	4' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		162.28	23.25
06 15 13 00-0195	RSR	4' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		157.81	22.09
06 15 13 00-0196	RSR	4' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		167.41	23.85
06 15 13 00-0197	RSR	4' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		162.99	22.67
06 15 13 00-0198	RSR	5' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		172.41	24.42
06 15 13 00-0199	RSR	5' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		167.81	23.20
06 15 13 00-0200	RSR	5' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		177.88	25.04
06 15 13 00-0201	RSR	5' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		173.33	23.79
06 15 13 00-0202		Cypress With Pressure Treated Joists, Wood Stair System Assemblies *(06 15 13 00-0131)*			
06 15 13 00-0203		2" x 10" Joists, Cypress With Pressure Treated Joists, Wood Stair System Assemblies *(06 15 13 00-0202)*			
06 15 13 00-0204	RSR	3' Wide, 5/4" x 4" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		143.65	20.57
06 15 13 00-0205	RSR	3' Wide, 5/4" x 6" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		139.56	19.54
06 15 13 00-0206	RSR	3' Wide, 2" x 4" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		148.31	21.10
06 15 13 00-0207	RSR	3' Wide, 2" x 6" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		144.14	20.05
06 15 13 00-0208	RSR	3'-6" Wide, 5/4" x 4" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		150.83	21.60
06 15 13 00-0209	RSR	3'-6" Wide, 5/4" x 6" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		146.55	20.53
06 15 13 00-0210	RSR	3'-6" Wide, 2" x 4" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		155.73	22.16
06 15 13 00-0211	RSR	3'-6" Wide, 2" x 6" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		151.34	21.06
06 15 13 00-0212	RSR	4' Wide, 5/4" x 4" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		158.19	22.69
06 15 13 00-0213	RSR	4' Wide, 5/4" x 6" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		153.67	21.55
06 15 13 00-0214	RSR	4' Wide, 2" x 4" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		163.32	23.27
06 15 13 00-0215	RSR	4' Wide, 2" x 6" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		158.71	22.10
06 15 13 00-0216	RSR	5' Wide, 5/4" x 4" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		168.06	23.82
06 15 13 00-0217	RSR	5' Wide, 5/4" x 6" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		163.40	22.63
06 15 13 00-0218	RSR	5' Wide, 2" x 4" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		173.56	24.44
06 15 13 00-0219	RSR	5' Wide, 2" x 6" Cypress Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		168.78	23.22
06 15 13 00-0220		2" x 12" Joists, Cypress With Pressure Treated Joists, Wood Stair System Assemblies *(06 15 13 00-0202)*			
06 15 13 00-0221	RSR	3' Wide, 5/4" x 4" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		143.06	21.09
06 15 13 00-0222	RSR	3' Wide, 5/4" x 6" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		138.89	20.04
06 15 13 00-0223	RSR	3' Wide, 2" x 4" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		147.52	21.64
06 15 13 00-0224	RSR	3' Wide, 2" x 6" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		143.32	20.55
06 15 13 00-0225	RSR	3'-6" Wide, 5/4" x 4" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		150.22	22.15
06 15 13 00-0226	RSR	3'-6" Wide, 5/4" x 6" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		145.83	21.04
06 15 13 00-0227	RSR	3'-6" Wide, 2" x 4" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		154.89	22.71
06 15 13 00-0228	RSR	3'-6" Wide, 2" x 6" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		150.49	21.57
06 15 13 00-0229	RSR	4' Wide, 5/4" x 4" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		157.58	23.25
06 15 13 00-0230	RSR	4' Wide, 5/4" x 6" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		152.95	22.09
06 15 13 00-0231	RSR	4' Wide, 2" x 4" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		162.46	23.85
06 15 13 00-0232	RSR	4' Wide, 2" x 6" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		157.84	22.67
06 15 13 00-0233	RSR	5' Wide, 5/4" x 4" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		167.23	24.42
06 15 13 00-0234	RSR	5' Wide, 5/4" x 6" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		162.46	23.20
06 15 13 00-0235	RSR	5' Wide, 2" x 4" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		172.45	25.04
06 15 13 00-0236	RSR	5' Wide, 2" x 6" Cypress Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly		167.66	23.79
06 15 13 00-0237		Cedar With Pressure Treated Joists, Wood Stair System Assemblies *(06 15 13 00-0131)*			
06 15 13 00-0238		2" x 10" Joists, Cedar With Pressure Treated Joists, Wood Stair System Assemblies *(06 15 13 00-0237)*			
06 15 13 00-0239	RSR	3' Wide, 5/4" x 4" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		138.23	20.57
06 15 13 00-0240	RSR	3' Wide, 5/4" x 6" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		134.62	19.54
06 15 13 00-0241	RSR	3' Wide, 2" x 4" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		142.45	21.10
06 15 13 00-0242	RSR	3' Wide, 2" x 6" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		138.18	20.05
06 15 13 00-0243	RSR	3'-6" Wide, 5/4" x 4" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		145.14	21.60
06 15 13 00-0244	RSR	3'-6" Wide, 5/4" x 6" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		141.35	20.53
06 15 13 00-0245	RSR	3'-6" Wide, 2" x 4" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		149.58	22.16
06 15 13 00-0246	RSR	3'-6" Wide, 2" x 6" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		145.08	21.06
06 15 13 00-0247	RSR	4' Wide, 5/4" x 4" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		152.25	22.69
06 15 13 00-0248	RSR	4' Wide, 5/4" x 6" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		148.24	21.55
06 15 13 00-0249	RSR	4' Wide, 2" x 4" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly		156.90	23.27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0250	RSR	4' Wide, 2" x 6" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	152.17	22.10
06 15 13 00-0251	RSR	5' Wide, 5/4" x 4" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	161.53	23.82
06 15 13 00-0252	RSR	5' Wide, 5/4" x 6" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	157.43	22.63
06 15 13 00-0253	RSR	5' Wide, 2" x 4" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	166.49	24.44
06 15 13 00-0254	RSR	5' Wide, 2" x 6" Cedar Decking With 2" x 10" Pressure Treated Joists, Wood Stair System Assembly	161.59	23.22
06 15 13 00-0255		2" x 12" Joists, Cedar With Pressure Treated Joists, Wood Stair System Assemblies *(06 15 13 00-0237)*		
06 15 13 00-0256	RSR	3' Wide, 5/4" x 4" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	141.22	21.09
06 15 13 00-0257	RSR	3' Wide, 5/4" x 6" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	137.00	20.04
06 15 13 00-0258	RSR	3' Wide, 2" x 4" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	145.68	21.64
06 15 13 00-0259	RSR	3' Wide, 2" x 6" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	141.36	20.55
06 15 13 00-0260	RSR	3'-6" Wide, 5/4" x 4" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	148.29	22.15
06 15 13 00-0261	RSR	3'-6" Wide, 5/4" x 6" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	143.84	21.04
06 15 13 00-0262	RSR	3'-6" Wide, 2" x 4" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	152.97	22.71
06 15 13 00-0263	RSR	3'-6" Wide, 2" x 6" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	148.43	21.57
06 15 13 00-0264	RSR	4' Wide, 5/4" x 4" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	155.56	23.25
06 15 13 00-0265	RSR	4' Wide, 5/4" x 6" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	150.87	22.09
06 15 13 00-0266	RSR	4' Wide, 2" x 4" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	160.45	23.85
06 15 13 00-0267	RSR	4' Wide, 2" x 6" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	155.69	22.67
06 15 13 00-0268	RSR	5' Wide, 5/4" x 4" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	165.01	24.42
06 15 13 00-0269	RSR	5' Wide, 5/4" x 6" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	160.18	23.20
06 15 13 00-0270	RSR	5' Wide, 2" x 4" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	170.24	25.04
06 15 13 00-0271	RSR	5' Wide, 2" x 6" Cedar Decking With 2" x 12" Pressure Treated Joists, Wood Stair System Assembly	165.30	23.79
06 15 13 00-0272		Wood Deck And Ramp Systems Repairs *(06 15 13)*		
		Note: Includes removal of material and screws. Excludes anchors and bolts.		
06 15 13 00-0273		Deck Joist Or Girt *(06 15 13 00-0272)*		
		See CSI section 06 11 16 00-0012 for treated wood joist replacement.		
06 15 13 00-0274		Deck Boards *(06 15 13 00-0272)*		
06 15 13 00-0275	LF	5/4" x 4" Round Edge Pressure Treated Deck Boards	2.48	1.10
06 15 13 00-0276	LF	5/4" x 6" Round Edge Pressure Treated Deck Boards	2.76	1.31
06 15 13 00-0277	LF	2" x 4" Round Edge Pressure Treated Deck Boards	2.46	1.31
06 15 13 00-0278	LF	2" x 6" Round Edge Pressure Treated Deck Boards	3.11	1.51
06 15 13 00-0279	LF	2" x 8" Round Edge Pressure Treated Deck Boards	3.88	1.81
06 15 13 00-0280	LF	2" x 10" Round Edge Pressure Treated Deck Boards	4.75	2.21
06 15 13 00-0281	LF	2" x 12" Round Edge Pressure Treated Deck Boards	5.79	2.61
06 15 13 00-0282	LF	2" x 4" Round Edge Cedar Deck Boards	3.08	1.31
06 15 13 00-0283	LF	2" x 6" Round Edge Cedar Deck Boards	3.95	1.51
06 15 13 00-0284	LF	2" x 4" Round Edge Redwood Deck Boards	3.35	1.31
06 15 13 00-0285	LF	2" x 6" Round Edge Redwood Deck Boards	4.35	1.51
06 15 13 00-0286		Deck Posts *(06 15 13 00-0272)*		
		See CSI section 06 11 16 00-0105 for treated wood post replacement.		
06 15 13 00-0287		Deck Railing And Pickets *(06 15 13 00-0272)*		
06 15 13 00-0288	LF	2" x 4" Pressure Treated Deck Railing	2.46	1.31
06 15 13 00-0289	LF	2" x 2" Pressure Treated Deck Railing Picket	1.97	1.00
06 15 13 00-0290	LF	2" x 4" Cedar Deck Railing	3.08	1.31
06 15 13 00-0291	LF	2" x 2" Cedar Deck Railing Picket	2.34	1.00
06 15 13 00-0292	LF	2" x 4" Redwood Deck Railing	3.35	1.31
06 15 13 00-0293	LF	2" x 2" Redwood Deck Railing Picket	2.54	1.00

06 16 Sheathing *(06 10)*

06 16 23 Subflooring *(06 16)*

06 16 23 00-0001		Board Type Subflooring *(06 16 23)*		
06 16 23 00-0002	SF	1" x 8" Regular Surface Board Type Subfloor	3.92	1.14
		Note: 4 Sides Laid In A Regular Pattern.		
		For Water Resistant Coating Or Treatment, Add	*0.08*	
		For Foil Backing, Add	*0.13*	
		For Tongue And Groove, Add	*0.09*	
06 16 23 00-0003	SF	1" x 8" Diagonal Surface Board Type Subfloor	4.39	1.44
		Note: 4 Sides Laid In A Diagonal Pattern.		
		For Water Resistant Coating Or Treatment, Add	*0.08*	
		For Foil Backing, Add	*0.14*	
		For Tongue And Groove, Add	*0.09*	
06 16 23 00-0004	SF	1" x 10" Regular Surface Board Type Subfloor	3.76	1.00
		Note: 4 sides laid in a regular pattern.		
		For Water Resistant Coating Or Treatment, Add	*0.08*	
		For Foil Backing, Add	*0.14*	
		For Tongue And Groove, Add	*0.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 23 00-0005	SF	1" x 10" Diagonal Surface Board Type Subfloor	4.09	1.14
		Note: 4 sides laid in a diagonal pattern.		
		For Water Resistant Coating Or Treatment, Add	*0.08*	
		For Foil Backing, Add	*0.14*	
		For Tongue And Groove, Add	*0.10*	

06 16 33 Wood Board Sheathing *(06 16)*

06 16 33 00-0001 Plywood *(06 16 33)*

06 16 33 00-0002 Roof Decking *(06 16 33 00-0001)*

06 16 33 00-0003	SF	3/8" Thick CDX Plywood Roof Decking	2.37	0.72
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	*0.34*	
		For Exterior CC Grade Plywood, Add	*0.10*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.34*	
		For ACQ Preservative Treatment, Add	*0.33*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*2.54*	
		For Fire Retardant Treatment, Add	*0.54*	
		For >1,696 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.06*	
		For >6,400 To 12,800, Deduct	*-0.12*	
		For >12,800, Deduct	*-0.17*	
06 16 33 00-0004	SF	1/2" Thick CDX Plywood Roof Decking	2.66	0.86
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	*0.37*	
		For Exterior CC Grade Plywood, Add	*0.12*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.37*	
		For ACQ Preservative Treatment, Add	*0.39*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*2.76*	
		For Fire Retardant Treatment, Add	*0.65*	
		For >1,696 To 3,200, Deduct	*-0.05*	
		For >3,200 To 6,400, Deduct	*-0.07*	
		For >6,400 To 12,800, Deduct	*-0.14*	
		For >12,800, Deduct	*-0.19*	
06 16 33 00-0005	SF	5/8" Thick CDX Plywood Roof Decking	3.03	0.86
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	*0.40*	
		For Exterior CC Grade Plywood, Add	*0.16*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.40*	
		For ACQ Preservative Treatment, Add	*0.50*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*2.99*	
		For Fire Retardant Treatment, Add	*0.82*	
		For >1,696 To 3,200, Deduct	*-0.06*	
		For >3,200 To 6,400, Deduct	*-0.09*	
		For >6,400 To 12,800, Deduct	*-0.16*	
		For >12,800, Deduct	*-0.22*	
		For Tongue And Groove, Add	*0.07*	
06 16 33 00-0006	SF	3/4" Thick CDX Plywood Roof Decking	3.36	1.00
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	*0.43*	
		For Exterior CC Grade Plywood, Add	*0.18*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.43*	
		For ACQ Preservative Treatment, Add	*0.58*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.23*	
		For Fire Retardant Treatment, Add	*0.96*	
		For >1,696 To 3,200, Deduct	*-0.07*	
		For >3,200 To 6,400, Deduct	*-0.11*	
		For >6,400 To 12,800, Deduct	*-0.19*	
		For >12,800, Deduct	*-0.25*	
		For Tongue And Groove, Add	*0.08*	
06 16 33 00-0007	SF	1" Thick CDX Plywood Roof Decking	3.97	1.14
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	*0.47*	
		For Exterior CC Grade Plywood, Add	*0.24*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.47*	
		For ACQ Preservative Treatment, Add	*0.78*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.51*	
		For Fire Retardant Treatment, Add	*1.29*	
		For >1,696 To 3,200, Deduct	*-0.10*	
		For >3,200 To 6,400, Deduct	*-0.15*	
		For >6,400 To 12,800, Deduct	*-0.24*	
		For >12,800, Deduct	*-0.31*	
		For Tongue And Groove, Add	*0.11*	

06 16 33 00-0008 Wall Sheathing *(06 16 33 00-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0009	SF	1/4" Interior BC Plywood Wall Sheathing Note: Applied to wall studs.	2.82	1.00
		For Shear Wall Construction, Add	*0.43*	
		For Exterior CC Grade Plywood, Add	*0.10*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.43*	
		For Ceiling Installation, Add	*0.22*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.23*	
		For Fire Retardant Treatment, Add	*0.53*	
		For >1,696 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.06*	
		For >6,400 To 12,800, Deduct	*-0.13*	
		For >12,800, Deduct	*-0.19*	
06 16 33 00-0010	SF	5/16" Interior BC Plywood Wall Sheathing Note: Applied to wall studs.	2.85	1.00
		For Shear Wall Construction, Add	*0.43*	
		For Exterior CC Grade Plywood, Add	*0.11*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.43*	
		For Ceiling Installation, Add	*0.22*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.23*	
		For Fire Retardant Treatment, Add	*0.55*	
		For >1,696 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.06*	
		For >6,400 To 12,800, Deduct	*-0.13*	
		For >12,800, Deduct	*-0.19*	
06 16 33 00-0011	SF	3/8" Interior BC Plywood Wall Sheathing Note: Applied to wall studs.	2.91	1.14
		For Shear Wall Construction, Add	*0.43*	
		For Exterior CC Grade Plywood, Add	*0.11*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.43*	
		For Ceiling Installation, Add	*0.22*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.23*	
		For Fire Retardant Treatment, Add	*0.60*	
		For >1,696 To 3,200, Deduct	*-0.05*	
		For >3,200 To 6,400, Deduct	*-0.07*	
		For >6,400 To 12,800, Deduct	*-0.14*	
		For >12,800, Deduct	*-0.20*	
06 16 33 00-0012	SF	1/2" Interior BC Plywood Wall Sheathing Note: Applied to wall studs.	3.25	1.14
		For Shear Wall Construction, Add	*0.46*	
		For Exterior CC Grade Plywood, Add	*0.14*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.46*	
		For Ceiling Installation, Add	*0.23*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.44*	
		For Fire Retardant Treatment, Add	*0.76*	
		For >1,696 To 3,200, Deduct	*-0.06*	
		For >3,200 To 6,400, Deduct	*-0.09*	
		For >6,400 To 12,800, Deduct	*-0.16*	
		For >12,800, Deduct	*-0.23*	
06 16 33 00-0013	SF	5/8" Interior BC Plywood Wall Sheathing Note: Applied to wall studs.	3.65	1.30
		For Shear Wall Construction, Add	*0.49*	
		For Exterior CC Grade Plywood, Add	*0.18*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.49*	
		For Ceiling Installation, Add	*0.25*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.69*	
		For Fire Retardant Treatment, Add	*0.94*	
		For >1,696 To 3,200, Deduct	*-0.07*	
		For >3,200 To 6,400, Deduct	*-0.11*	
		For >6,400 To 12,800, Deduct	*-0.19*	
		For >12,800, Deduct	*-0.27*	
06 16 33 00-0014	SF	3/4" Interior BC Plywood Wall Sheathing Note: Applied to wall studs.	4.00	1.44
		For Shear Wall Construction, Add	*0.53*	
		For Exterior CC Grade Plywood, Add	*0.20*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.53*	
		For Ceiling Installation, Add	*0.27*	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.98*	
		For Fire Retardant Treatment, Add	*1.07*	
		For >1,696 To 3,200, Deduct	*-0.08*	
		For >3,200 To 6,400, Deduct	*-0.12*	
		For >6,400 To 12,800, Deduct	*-0.21*	
		For >12,800, Deduct	*-0.29*	

06 16 33 00-0015 Floor Decking *(06 16 33 00-0001)*
Note: Includes patching of seams and all fastener holes where necessary.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0016	SF	5/16" CD Grade Plywood Floor Decking	2.14	0.86
		Note: Applied to floor or joists.		
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*2.43*	
		For Fire Retardant Treatment, Add	*0.41*	
		For >1,696 To 3,200, Deduct	*-0.03*	
		For >3,200 To 6,400, Deduct	*-0.05*	
		For >6,400 To 12,800, Deduct	*-0.10*	
		For >12,800, Deduct	*-0.14*	
		For ACQ Preservative Treatment, Add	*0.25*	
		For Fir Plywood, Add	*0.10*	
		For BC Grade Plywood, Add	*0.08*	
		For Exterior Glue, Add	*0.05*	
		For Marine Grade, Add	*0.41*	
06 16 33 00-0017	SF	3/8" CD Grade Plywood Floor Decking	2.25	0.86
		Note: Applied to floor or joists.		
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*2.55*	
		For Fire Retardant Treatment, Add	*0.43*	
		For >1,696 To 3,200, Deduct	*-0.03*	
		For >3,200 To 6,400, Deduct	*-0.05*	
		For >6,400 To 12,800, Deduct	*-0.10*	
		For >12,800, Deduct	*-0.15*	
		For ACQ Preservative Treatment, Add	*0.26*	
		For Fir Plywood, Add	*0.10*	
		For BC Grade Plywood, Add	*0.08*	
		For Exterior Glue, Add	*0.05*	
		For Marine Grade, Add	*0.43*	
06 16 33 00-0018	SF	1/2" CD Grade Plywood Floor Decking	2.52	0.86
		Note: Applied to floor or joists.		
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*2.69*	
		For Fire Retardant Treatment, Add	*0.58*	
		For >1,696 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.07*	
		For >6,400 To 12,800, Deduct	*-0.13*	
		For >12,800, Deduct	*-0.18*	
		For ACQ Preservative Treatment, Add	*0.35*	
		For Fir Plywood, Add	*0.14*	
		For BC Grade Plywood, Add	*0.11*	
		For Exterior Glue, Add	*0.07*	
		For Marine Grade, Add	*0.57*	
06 16 33 00-0019	SF	5/8" CD Grade Plywood Floor Decking	2.85	0.86
		Note: Applied to floor or joists.		
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*2.93*	
		For Fire Retardant Treatment, Add	*0.71*	
		For >1,696 To 3,200, Deduct	*-0.05*	
		For >3,200 To 6,400, Deduct	*-0.08*	
		For >6,400 To 12,800, Deduct	*-0.15*	
		For >12,800, Deduct	*-0.21*	
		For ACQ Preservative Treatment, Add	*0.43*	
		For Fir Plywood, Add	*0.17*	
		For BC Grade Plywood, Add	*0.13*	
		For Exterior Glue, Add	*0.08*	
		For Marine Grade, Add	*0.70*	
06 16 33 00-0020	SF	3/4" CD Grade Plywood Floor Decking	3.23	0.86
		Note: Applied to floor or joists.		
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.11*	
		For Fire Retardant Treatment, Add	*0.92*	
		For >1,696 To 3,200, Deduct	*-0.07*	
		For >3,200 To 6,400, Deduct	*-0.10*	
		For >6,400 To 12,800, Deduct	*-0.18*	
		For >12,800, Deduct	*-0.24*	
		For ACQ Preservative Treatment, Add	*0.56*	
		For Fir Plywood, Add	*0.21*	
		For BC Grade Plywood, Add	*0.17*	
		For Exterior Glue, Add	*0.11*	
		For Marine Grade, Add	*0.91*	
06 16 33 00-0021	SF	1-1/8" CD Grade Plywood Floor Decking	4.66	1.30
		Note: Applied to floor or joists.		
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.71*	
		For Fire Retardant Treatment, Add	*1.73*	
		For >1,696 To 3,200, Deduct	*-0.13*	
		For >3,200 To 6,400, Deduct	*-0.20*	
		For >6,400 To 12,800, Deduct	*-0.30*	
		For >12,800, Deduct	*-0.39*	
		For ACQ Preservative Treatment, Add	*1.05*	
		For Fir Plywood, Add	*0.41*	
		For BC Grade Plywood, Add	*0.32*	
		For Exterior Glue, Add	*0.20*	
		For Marine Grade, Add	*1.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0022	SF	1/2" AC Fir Plywood Floor Decking Note: Applied to floor or joists.	2.96	0.86
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*2.69*	
		For Fire Retardant Treatment, Add	*0.92*	
		For >1,696 To 3,200, Deduct	*-0.07*	
		For >3,200 To 6,400, Deduct	*-0.11*	
		For >6,400 To 12,800, Deduct	*-0.17*	
		For >12,800, Deduct	*-0.23*	
		For ACQ Preservative Treatment, Add	*0.56*	
		For Exterior Glue, Add	*0.11*	
		For Marine Grade, Add	*0.92*	
		For Tongue And Groove, Add	*0.08*	
06 16 33 00-0023	SF	5/8" AC Fir Plywood Floor Decking Note: Applied to floor or joists.	3.35	0.86
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*2.93*	
		For Fire Retardant Treatment, Add	*1.11*	
		For >1,696 To 3,200, Deduct	*-0.08*	
		For >3,200 To 6,400, Deduct	*-0.13*	
		For >6,400 To 12,800, Deduct	*-0.20*	
		For >12,800, Deduct	*-0.27*	
		For ACQ Preservative Treatment, Add	*0.67*	
		For Exterior Glue, Add	*0.13*	
		For Marine Grade, Add	*1.10*	
		For Tongue And Groove, Add	*0.10*	
06 16 33 00-0024	SF	3/4" AC Fir Plywood Floor Decking Note: Applied to floor or joists.	3.60	0.86
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	*3.12*	
		For Fire Retardant Treatment, Add	*1.20*	
		For >1,696 To 3,200, Deduct	*-0.09*	
		For >3,200 To 6,400, Deduct	*-0.14*	
		For >6,400 To 12,800, Deduct	*-0.22*	
		For >12,800, Deduct	*-0.29*	
		For ACQ Preservative Treatment, Add	*0.73*	
		For Exterior Glue, Add	*0.14*	
		For Marine Grade, Add	*1.19*	
		For Tongue And Groove, Add	*0.11*	
06 16 33 00-0025		Underlayment Grade *(06 16 33 00-0001)* Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0026	SF	1/4" Thick Plywood Underlayment BC Grade	2.27	0.86
		For Fire Retardant Treatment, Add	*0.48*	
		For >1,696 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.05*	
		For >6,400 To 12,800, Deduct	*-0.10*	
		For >12,800, Deduct	*-0.16*	
06 16 33 00-0027	SF	3/8" Thick Plywood Underlayment BC Grade	2.42	0.86
		For Fire Retardant Treatment, Add	*0.53*	
		For >1,696 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.06*	
		For >6,400 To 12,800, Deduct	*-0.10*	
		For >12,800, Deduct	*-0.17*	
06 16 33 00-0028	SF	1/2" Thick Plywood Underlayment BC Grade	2.51	1.00
		For Fire Retardant Treatment, Add	*0.58*	
		For >1,696 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.07*	
		For >6,400 To 12,800, Deduct	*-0.11*	
		For >12,800, Deduct	*-0.18*	
06 16 33 00-0029	SF	5/8" Thick Plywood Underlayment BC Grade	2.85	1.00
		For Fire Retardant Treatment, Add	*0.68*	
		For >1,696 To 3,200, Deduct	*-0.05*	
		For >3,200 To 6,400, Deduct	*-0.08*	
		For >6,400 To 12,800, Deduct	*-0.13*	
		For >12,800, Deduct	*-0.20*	
		For Tongue And Groove, Add	*0.06*	
06 16 33 00-0030	SF	3/4" Thick Plywood Underlayment BC Grade	3.03	1.00
		For Fire Retardant Treatment, Add	*0.82*	
		For >1,696 To 3,200, Deduct	*-0.06*	
		For >3,200 To 6,400, Deduct	*-0.09*	
		For >6,400 To 12,800, Deduct	*-0.14*	
		For >12,800, Deduct	*-0.22*	
		For Tongue And Groove, Add	*0.07*	
06 16 33 00-0031	SF	1-1/8" Thick Plywood Underlayment BC Grade	3.82	1.14
		For Fire Retardant Treatment, Add	*1.26*	
		For >1,696 To 3,200, Deduct	*-0.10*	
		For >3,200 To 6,400, Deduct	*-0.14*	
		For >6,400 To 12,800, Deduct	*-0.20*	
		For >12,800, Deduct	*-0.30*	
		For Tongue And Groove, Add	*0.11*	
06 16 33 00-0032	SF	3/8" Thick CDX Plywood Underlayment Grade	2.57	0.86
		For Fire Retardant Treatment, Add	*0.65*	
		For >1,696 To 3,200, Deduct	*-0.05*	
		For >3,200 To 6,400, Deduct	*-0.07*	
		For >6,400 To 12,800, Deduct	*-0.12*	
		For >12,800, Deduct	*-0.19*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0033	SF	5/8" Thick CDX Plywood Underlayment Grade	3.19	1.00
		For Fire Retardant Treatment, Add	*0.98*	
		For >1,696 To 3,200, Deduct	*-0.07*	
		For >3,200 To 6,400, Deduct	*-0.11*	
		For >6,400 To 12,800, Deduct	*-0.16*	
		For >12,800, Deduct	*-0.25*	
06 16 33 00-0034		Oriented Strand Board *(06 16 33)*		
06 16 33 00-0035		On Roof *(06 16 33 00-0034)*		
06 16 33 00-0036	SF	3/8" Thick Structural Oriented Strand Board (OSB) On Roof	2.04	0.86
		For >1,408 To 3,200, Deduct	*-0.02*	
		For >3,200 To 6,400, Deduct	*-0.03*	
		For >6,400 To 12,800, Deduct	*-0.08*	
		For >12,800, Deduct	*-0.13*	
		For Fire Retardant Treatment, Add	*0.28*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*2.54*	
06 16 33 00-0037	SF	1/2" Thick Structural Oriented Strand Board (OSB) On Roof	2.25	0.86
		For >1,408 To 3,200, Deduct	*-0.02*	
		For >3,200 To 6,400, Deduct	*-0.04*	
		For >6,400 To 12,800, Deduct	*-0.09*	
		For >12,800, Deduct	*-0.14*	
		For Fire Retardant Treatment, Add	*0.32*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*2.76*	
06 16 33 00-0038	SF	5/8" Thick Structural Oriented Strand Board (OSB) On Roof	2.59	1.00
		For >1,408 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.05*	
		For >6,400 To 12,800, Deduct	*-0.12*	
		For >12,800, Deduct	*-0.17*	
		For Fire Retardant Treatment, Add	*0.47*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*2.99*	
06 16 33 00-0039	SF	3/4" Thick Structural Oriented Strand Board (OSB) On Roof	2.95	1.00
		For >1,408 To 3,200, Deduct	*-0.05*	
		For >3,200 To 6,400, Deduct	*-0.07*	
		For >6,400 To 12,800, Deduct	*-0.14*	
		For >12,800, Deduct	*-0.20*	
		For Fire Retardant Treatment, Add	*0.63*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*3.23*	
06 16 33 00-0040		On Walls *(06 16 33 00-0034)*		
06 16 33 00-0041	SF	3/8" Thick Structural Oriented Strand Board (OSB) On Walls	2.50	1.00
		For >1,408 To 3,200, Deduct	*-0.02*	
		For >3,200 To 6,400, Deduct	*-0.03*	
		For >6,400 To 12,800, Deduct	*-0.09*	
		For >12,800, Deduct	*-0.15*	
		For Fire Retardant Treatment, Add	*0.28*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*3.23*	
06 16 33 00-0042	SF	1/2" Thick Structural Oriented Strand Board (OSB) On Walls	2.70	1.14
		For >1,408 To 3,200, Deduct	*-0.02*	
		For >3,200 To 6,400, Deduct	*-0.04*	
		For >6,400 To 12,800, Deduct	*-0.10*	
		For >12,800, Deduct	*-0.16*	
		For Fire Retardant Treatment, Add	*0.32*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*3.44*	
06 16 33 00-0043	SF	5/8" Thick Structural Oriented Strand Board (OSB) On Walls	3.06	1.30
		For >1,408 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.05*	
		For >6,400 To 12,800, Deduct	*-0.13*	
		For >12,800, Deduct	*-0.20*	
		For Fire Retardant Treatment, Add	*0.47*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*3.69*	
06 16 33 00-0044	SF	3/4" Thick Structural Oriented Strand Board (OSB) On Walls	3.45	1.30
		For >1,408 To 3,200, Deduct	*-0.05*	
		For >3,200 To 6,400, Deduct	*-0.07*	
		For >6,400 To 12,800, Deduct	*-0.15*	
		For >12,800, Deduct	*-0.23*	
		For Fire Retardant Treatment, Add	*0.63*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*3.98*	
06 16 33 00-0045		On Floors *(06 16 33 00-0034)*		
		Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0046	SF	3/8" Thick Structural Oriented Strand Board (OSB) On Floors	2.08	0.86
		For >1,408 To 3,200, Deduct	*-0.02*	
		For >3,200 To 6,400, Deduct	*-0.03*	
		For >6,400 To 12,800, Deduct	*-0.08*	
		For >12,800, Deduct	*-0.13*	
		For Fire Retardant Treatment, Add	*0.28*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*2.60*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0047	SF	1/2" Thick Structural Oriented Strand Board (OSB) On Floors	2.48	1.00
		For >1,408 To 3,200, Deduct	*-0.02*	
		For >3,200 To 6,400, Deduct	*-0.04*	
		For >6,400 To 12,800, Deduct	*-0.10*	
		For >12,800, Deduct	*-0.15*	
		For Fire Retardant Treatment, Add	*0.32*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*3.11*	
06 16 33 00-0048	SF	5/8" Thick Structural Oriented Strand Board (OSB) On Floors	2.85	1.14
		For >1,408 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.05*	
		For >6,400 To 12,800, Deduct	*-0.12*	
		For >12,800, Deduct	*-0.18*	
		For Fire Retardant Treatment, Add	*0.47*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*3.38*	
06 16 33 00-0049	SF	3/4" Thick Structural Oriented Strand Board (OSB) On Floors	3.26	1.30
		For >1,408 To 3,200, Deduct	*-0.05*	
		For >3,200 To 6,400, Deduct	*-0.07*	
		For >6,400 To 12,800, Deduct	*-0.15*	
		For >12,800, Deduct	*-0.22*	
		For Fire Retardant Treatment, Add	*0.63*	
		For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	*3.69*	

06 16 33 00-0050 Particle Board *(06 16 33)*

06 16 33 00-0051 Particle Board Floor Decking *(06 16 33 00-0050)*

Note: Includes patching of seams and all fastener holes where necessary.

06 16 33 00-0052	SF	3/8" Particle Board Floor Decking	2.34	0.72
		Note: Applied to plywood subfloor.		
		For Fire Retardant Treatment Add	*0.51*	
		For >1,536 To 3,200, Deduct	*-0.04*	
		For >3,200 To 6,400, Deduct	*-0.06*	
		For >6,400 To 12,800, Deduct	*-0.11*	
		For >12,800, Deduct	*-0.16*	
		For Tongue And Groove, Add	*0.05*	
06 16 33 00-0053	SF	1/2" Particle Board Floor Decking	2.67	0.72
		Note: Applied to plywood subfloor.		
		For Fire Retardant Treatment Add	*0.70*	
		For >1,536 To 3,200, Deduct	*-0.05*	
		For >3,200 To 6,400, Deduct	*-0.08*	
		For >6,400 To 12,800, Deduct	*-0.14*	
		For >12,800, Deduct	*-0.20*	
		For Tongue And Groove, Add	*0.06*	
06 16 33 00-0054	SF	5/8" Particle Board Floor Decking	3.00	0.86
		Note: Applied to plywood subfloor.		
		For Fire Retardant Treatment Add	*0.88*	
		For >1,536 To 3,200, Deduct	*-0.07*	
		For >3,200 To 6,400, Deduct	*-0.10*	
		For >6,400 To 12,800, Deduct	*-0.17*	
		For >12,800, Deduct	*-0.23*	
		For Tongue And Groove, Add	*0.08*	
06 16 33 00-0055	SF	3/4" Particle Board Floor Decking	3.31	0.86
		Note: Applied to plywood subfloor.		
		For Fire Retardant Treatment Add	*1.03*	
		For >1,536 To 3,200, Deduct	*-0.08*	
		For >3,200 To 6,400, Deduct	*-0.12*	
		For >6,400 To 12,800, Deduct	*-0.19*	
		For >12,800, Deduct	*-0.26*	
		For Tongue And Groove, Add	*0.09*	

06 16 43 Gypsum Sheathing *(06 16)*

06 16 43 00-0001 Exterior Gypsum Sheathing *(06 16 43)*

Note: Includes moisture resistant core and fiberglass mats on both sides and long edges.

06 16 43 00-0002	SF	1/2" Exterior Gypsum Sheathing (GP Dens-Glass Gold)	3.73	1.14
		For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add	*3.44*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.46*	
		For Ceiling Installation, Add	*0.23*	
		For >1,696 To 3,200, Deduct	*-0.09*	
		For >3,200 To 6,400, Deduct	*-0.13*	
		For >6,400 To 12,800, Deduct	*-0.22*	
		For >12,800, Deduct	*-0.29*	
06 16 43 00-0003	SF	5/8" Exterior Gypsum Sheathing (GP Dens-Glass Gold)	4.02	1.44
		For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add	*3.69*	
		For Application To Metal Studs, Joists, Or Rafters, Add	*0.49*	
		For Ceiling Installation, Add	*0.25*	
		For >1,696 To 3,200, Deduct	*-0.09*	
		For >3,200 To 6,400, Deduct	*-0.14*	
		For >6,400 To 12,800, Deduct	*-0.23*	
		For >12,800, Deduct	*-0.31*	

06 17 Shop-Fabricated Structural Wood *(06 10)*

06 17 13 Laminated Veneer Lumber *(06 17)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 17 13 00-0001		**Laminated Veneer Lumber (LVL)** *(06 17 13)*		
06 17 13 00-0002	LF	1-3/4" Wide x 5-1/2" Deep (LVL) Laminated Veneer Lumber	8.87	2.49
06 17 13 00-0003	LF	1-3/4" Wide x 7-1/4" Deep (LVL) Laminated Veneer Lumber	9.65	2.52
06 17 13 00-0004	LF	1-3/4" Wide x 9-1/2" Deep (LVL) Laminated Veneer Lumber	10.54	2.56
06 17 13 00-0005	LF	1-3/4" Wide x 11-7/8" Deep (LVL) Laminated Veneer Lumber	11.67	2.60
06 17 13 00-0006	LF	1-3/4" Wide x 14" Deep (LVL) Laminated Veneer Lumber	12.52	2.65
06 17 13 00-0007	LF	1-3/4" Wide x 16" Deep (LVL) Laminated Veneer Lumber	13.72	2.73
06 17 13 00-0008	LF	1-3/4" Wide x 18" Deep (LVL) Laminated Veneer Lumber	15.41	2.79
06 17 13 00-0009	LF	1-3/4" Wide x 24" Deep (LVL) Laminated Veneer Lumber	20.82	3.16
06 17 23		**Parallel Strand Lumber** *(06 17)*		
06 17 23 00-0001		**Laminated Strand Lumber (LSL)** *(06 17 23)*		
06 17 23 00-0002	LF	2" x 4" (LSL) Laminated Strand Lumber	3.05	1.14
06 17 23 00-0003	LF	2" x 6" (LSL) Laminated Strand Lumber	4.01	1.23
06 17 33		**Wood I-Joists** *(06 17)*		
06 17 33 00-0001		**Prefabricated Wood I-Joists** *(06 17 33)*		
06 17 33 00-0002	LF	9-1/2" Deep, 3/8" Web With 1-1/2" x 1-3/4" Flanges Prefabricated Wood I-Joist, Up To 30' Length	5.42	1.56
		For I-Joists 30' To 40' In Length, Add	*0.69*	
		For I-Joists >40' In Length, Add	*1.68*	
06 17 33 00-0003	LF	11-7/8" Deep, 3/8" Web With 1-1/2" x 1-3/4" Flanges Prefabricated Wood I-Joist, Up To 30' Length	5.86	1.74
		For I-Joists 30' To 40' In Length, Add	*0.77*	
		For I-Joists >40' In Length, Add	*1.88*	
06 17 33 00-0004	LF	14" Deep, 3/8" Web With 1-1/2" x 1-3/4" Flanges Prefabricated Wood I-Joist, Up To 30' Length	6.83	1.96
		For I-Joists 30' To 40' In Length, Add	*0.86*	
		For I-Joists >40' In Length, Add	*2.11*	
06 17 33 00-0005	LF	16" Deep, 3/8" Web With 1-1/2" x 1-3/4" Flanges Prefabricated Wood I-Joist, Up To 30' Length	7.69	2.18
		For I-Joists 30' To 40' In Length, Add	*0.96*	
		For I-Joists >40' In Length, Add	*2.35*	
06 17 43		**Rim Boards** *(06 17)*		
06 17 43 00-0001		**Oriented Strand Board (OSB) Rim Board** *(06 17 43)*		
06 17 43 00-0002	LF	1-1/8" Wide x 9-1/2" Deep, Oriented Strand Board (OSB) Rim Board	7.44	2.56
06 17 43 00-0003	LF	1-1/8" Wide x 11-7/8" Deep, Oriented Strand Board (OSB) Rim Board	8.06	2.60
06 17 43 00-0004	LF	1-1/8" Wide x 14" Deep, Oriented Strand Board (OSB) Rim Board	8.77	2.65
06 17 53		**Shop-Fabricated Wood Trusses** *(06 17)*		
		Note: Includes temporary and permanent bracing, and fastening with truss tie-downs.		
06 17 53 00-0001		**Pre-Assembled Wood Roof Trusses** *(06 17 53)*		
		Note: For King Post, Queen Post, Fink or Howe types. Includes 2" x 4" top and bottom chords up to 42' and with 2" x 6" top and bottom chords >42'.		
06 17 53 00-0002	EA	10' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	225.23	91.42
		For Up To 15, Add	*3.18*	
		For >35, Deduct	*-2.12*	
		For 3 In 12 Slope, Add	*1.27*	
		For 5 In 12 Slope, Add	*3.39*	
		For 6 In 12 Slope, Add	*6.36*	
		For 7 In 12 Slope, Add	*8.48*	
		For 8 In 12 Slope, Add	*10.17*	
06 17 53 00-0003	EA	12' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	249.76	100.13
		For Up To 15, Add	*3.71*	
		For >35, Deduct	*-2.48*	
		For 3 In 12 Slope, Add	*1.49*	
		For 5 In 12 Slope, Add	*3.96*	
		For 6 In 12 Slope, Add	*7.43*	
		For 7 In 12 Slope, Add	*9.90*	
		For 8 In 12 Slope, Add	*11.88*	
06 17 53 00-0004	EA	14' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	277.23	108.84
		For Up To 15, Add	*4.47*	
		For >35, Deduct	*-2.98*	
		For 3 In 12 Slope, Add	*1.79*	
		For 5 In 12 Slope, Add	*4.76*	
		For 6 In 12 Slope, Add	*8.93*	
		For 7 In 12 Slope, Add	*11.91*	
		For 8 In 12 Slope, Add	*14.29*	
06 17 53 00-0005	EA	16' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	312.48	117.54
		For Up To 15, Add	*5.81*	
		For >35, Deduct	*-3.87*	
		For 3 In 12 Slope, Add	*2.32*	
		For 5 In 12 Slope, Add	*6.19*	
		For 6 In 12 Slope, Add	*11.61*	
		For 7 In 12 Slope, Add	*15.48*	
		For 8 In 12 Slope, Add	*18.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 17 53 00-0006	EA	18' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	343.27	126.25
		For Up To 15, Add	*6.81*	
		For >35, Deduct	*-4.54*	
		For 3 In 12 Slope, Add	*2.72*	
		For 5 In 12 Slope, Add	*7.26*	
		For 6 In 12 Slope, Add	*13.62*	
		For 7 In 12 Slope, Add	*18.15*	
		For 8 In 12 Slope, Add	*21.78*	
06 17 53 00-0007	EA	20' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	363.38	139.31
		For Up To 15, Add	*6.36*	
		For >35, Deduct	*-4.24*	
		For 3 In 12 Slope, Add	*2.54*	
		For 5 In 12 Slope, Add	*6.78*	
		For 6 In 12 Slope, Add	*12.71*	
		For 7 In 12 Slope, Add	*16.95*	
		For 8 In 12 Slope, Add	*20.34*	
06 17 53 00-0008	EA	22' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	383.27	222.02
		For Up To 15, Add	*6.54*	
		For >35, Deduct	*-4.36*	
		For 3 In 12 Slope, Add	*2.62*	
		For 5 In 12 Slope, Add	*6.98*	
		For 6 In 12 Slope, Add	*13.08*	
		For 7 In 12 Slope, Add	*17.45*	
		For 8 In 12 Slope, Add	*20.94*	
06 17 53 00-0009	EA	24' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	408.07	156.72
		For Up To 15, Add	*7.10*	
		For >35, Deduct	*-4.73*	
		For 3 In 12 Slope, Add	*2.84*	
		For 5 In 12 Slope, Add	*7.57*	
		For 6 In 12 Slope, Add	*14.19*	
		For 7 In 12 Slope, Add	*18.92*	
		For 8 In 12 Slope, Add	*22.71*	
06 17 53 00-0010	EA	26' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	433.68	248.14
		For Up To 15, Add	*7.71*	
		For >35, Deduct	*-5.14*	
		For 3 In 12 Slope, Add	*3.08*	
		For 5 In 12 Slope, Add	*8.23*	
		For 6 In 12 Slope, Add	*15.42*	
		For 7 In 12 Slope, Add	*20.56*	
		For 8 In 12 Slope, Add	*24.68*	
06 17 53 00-0011	EA	28' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	460.35	174.14
		For Up To 15, Add	*8.41*	
		For >35, Deduct	*-5.60*	
		For 3 In 12 Slope, Add	*3.36*	
		For 5 In 12 Slope, Add	*8.97*	
		For 6 In 12 Slope, Add	*16.81*	
		For 7 In 12 Slope, Add	*22.42*	
		For 8 In 12 Slope, Add	*26.90*	
06 17 53 00-0012	EA	30' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	481.32	274.27
		For Up To 15, Add	*8.67*	
		For >35, Deduct	*-5.78*	
		For 3 In 12 Slope, Add	*3.47*	
		For 5 In 12 Slope, Add	*9.25*	
		For 6 In 12 Slope, Add	*17.35*	
		For 7 In 12 Slope, Add	*23.13*	
		For 8 In 12 Slope, Add	*27.75*	
06 17 53 00-0013	EA	32' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	501.59	187.20
		For Up To 15, Add	*9.54*	
		For >35, Deduct	*-6.36*	
		For 3 In 12 Slope, Add	*3.82*	
		For 5 In 12 Slope, Add	*10.18*	
		For 6 In 12 Slope, Add	*19.08*	
		For 7 In 12 Slope, Add	*25.44*	
		For 8 In 12 Slope, Add	*30.53*	
06 17 53 00-0014	EA	34' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	544.33	293.94
		For Up To 15, Add	*11.44*	
		For >35, Deduct	*-7.63*	
		For 3 In 12 Slope, Add	*4.58*	
		For 5 In 12 Slope, Add	*12.20*	
		For 6 In 12 Slope, Add	*22.88*	
		For 7 In 12 Slope, Add	*30.50*	
		For 8 In 12 Slope, Add	*36.60*	
06 17 53 00-0015	EA	36' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	565.04	200.26
		For Up To 15, Add	*12.34*	
		For >35, Deduct	*-8.23*	
		For 3 In 12 Slope, Add	*4.94*	
		For 5 In 12 Slope, Add	*13.16*	
		For 6 In 12 Slope, Add	*24.68*	
		For 7 In 12 Slope, Add	*32.90*	
		For 8 In 12 Slope, Add	*39.48*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 17 53 00-0016	EA	38' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	593.68	313.45
		For Up To 15, Add	*13.18*	
		For >35, Deduct	*-8.79*	
		For 3 In 12 Slope, Add	*5.27*	
		For 5 In 12 Slope, Add	*14.06*	
		For 6 In 12 Slope, Add	*26.36*	
		For 7 In 12 Slope, Add	*35.15*	
		For 8 In 12 Slope, Add	*42.18*	
06 17 53 00-0017	EA	40' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	614.86	217.67
		For Up To 15, Add	*13.46*	
		For >35, Deduct	*-8.98*	
		For 3 In 12 Slope, Add	*5.39*	
		For 5 In 12 Slope, Add	*14.36*	
		For 6 In 12 Slope, Add	*26.93*	
		For 7 In 12 Slope, Add	*35.90*	
		For 8 In 12 Slope, Add	*43.08*	
06 17 53 00-0018	EA	42' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	670.23	339.57
		For Up To 15, Add	*16.31*	
		For >35, Deduct	*-10.87*	
		For 3 In 12 Slope, Add	*6.52*	
		For 5 In 12 Slope, Add	*17.40*	
		For 6 In 12 Slope, Add	*32.62*	
		For 7 In 12 Slope, Add	*43.50*	
		For 8 In 12 Slope, Add	*52.20*	
06 17 53 00-0019	EA	44' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	724.58	235.08
		For Up To 15, Add	*19.08*	
		For >35, Deduct	*-12.72*	
		For 3 In 12 Slope, Add	*7.63*	
		For 5 In 12 Slope, Add	*20.35*	
		For 6 In 12 Slope, Add	*38.16*	
		For 7 In 12 Slope, Add	*50.88*	
		For 8 In 12 Slope, Add	*61.06*	
06 17 53 00-0020	EA	46' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	750.18	243.79
		For Up To 15, Add	*19.70*	
		For >35, Deduct	*-13.13*	
		For 3 In 12 Slope, Add	*7.88*	
		For 5 In 12 Slope, Add	*21.01*	
		For 6 In 12 Slope, Add	*39.39*	
		For 7 In 12 Slope, Add	*52.52*	
		For 8 In 12 Slope, Add	*63.02*	
06 17 53 00-0021	EA	48' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	785.71	252.50
		For Up To 15, Add	*21.05*	
		For >35, Deduct	*-14.04*	
		For 3 In 12 Slope, Add	*8.42*	
		For 5 In 12 Slope, Add	*22.46*	
		For 6 In 12 Slope, Add	*42.11*	
		For 7 In 12 Slope, Add	*56.14*	
		For 8 In 12 Slope, Add	*67.37*	
06 17 53 00-0022	EA	50' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	881.73	261.20
		For Up To 15, Add	*26.95*	
		For >35, Deduct	*-17.97*	
		For 3 In 12 Slope, Add	*10.78*	
		For 5 In 12 Slope, Add	*28.75*	
		For 6 In 12 Slope, Add	*53.90*	
		For 7 In 12 Slope, Add	*71.86*	
		For 8 In 12 Slope, Add	*86.24*	
06 17 53 00-0023	EA	52' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	843.79	234.91
		For Up To 15, Add	*24.10*	
		For >35, Deduct	*-16.07*	
		For 3 In 12 Slope, Add	*9.64*	
		For 5 In 12 Slope, Add	*25.71*	
		For 6 In 12 Slope, Add	*48.21*	
		For 7 In 12 Slope, Add	*64.28*	
		For 8 In 12 Slope, Add	*77.13*	
06 17 53 00-0024	EA	54' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	885.43	274.27
		For Up To 15, Add	*25.27*	
		For >35, Deduct	*-16.85*	
		For 3 In 12 Slope, Add	*10.11*	
		For 5 In 12 Slope, Add	*26.95*	
		For 6 In 12 Slope, Add	*50.54*	
		For 7 In 12 Slope, Add	*67.38*	
		For 8 In 12 Slope, Add	*80.86*	
06 17 53 00-0025	EA	56' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	919.40	254.24
		For Up To 15, Add	*26.51*	
		For >35, Deduct	*-17.67*	
		For 3 In 12 Slope, Add	*10.60*	
		For 5 In 12 Slope, Add	*28.28*	
		For 6 In 12 Slope, Add	*53.02*	
		For 7 In 12 Slope, Add	*70.69*	
		For 8 In 12 Slope, Add	*84.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 17 53 00-0026	EA	58' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	947.74	287.33
		For Up To 15, Add	*27.98*	
		For >35, Deduct	*-18.65*	
		For 3 In 12 Slope, Add	*11.19*	
		For 5 In 12 Slope, Add	*29.85*	
		For 6 In 12 Slope, Add	*55.96*	
		For 7 In 12 Slope, Add	*74.62*	
		For 8 In 12 Slope, Add	*89.54*	
06 17 53 00-0027	EA	60' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	966.54	291.68
		For Up To 15, Add	*28.74*	
		For >35, Deduct	*-19.16*	
		For 3 In 12 Slope, Add	*11.50*	
		For 5 In 12 Slope, Add	*30.66*	
		For 6 In 12 Slope, Add	*57.48*	
		For 7 In 12 Slope, Add	*76.64*	
		For 8 In 12 Slope, Add	*91.97*	

06 17 53 00-0028 Pre-Assembled Wood Gable End Roof Trusses *(06 17 53)*

Note: 24" on center gable studs. Includes 2" x 4" top and bottom chords up to 42' and with 2" x 6" top and bottom chords >42'.

06 17 53 00-0029	EA	10' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	230.62	91.42
		For 3 In 12 Slope, Add	*1.43*	
		For 5 In 12 Slope, Add	*3.82*	
		For 6 In 12 Slope, Add	*7.17*	
		For 7 In 12 Slope, Add	*9.55*	
		For 8 In 12 Slope, Add	*11.46*	
		For 16" On Center Gable Studs, Add	*9.55*	
06 17 53 00-0030	EA	12' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	256.06	100.13
		For 3 In 12 Slope, Add	*1.67*	
		For 5 In 12 Slope, Add	*4.46*	
		For 6 In 12 Slope, Add	*8.37*	
		For 7 In 12 Slope, Add	*11.16*	
		For 8 In 12 Slope, Add	*13.39*	
		For 16" On Center Gable Studs, Add	*11.16*	
06 17 53 00-0031	EA	14' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	284.81	108.84
		For 3 In 12 Slope, Add	*2.01*	
		For 5 In 12 Slope, Add	*5.37*	
		For 6 In 12 Slope, Add	*10.07*	
		For 7 In 12 Slope, Add	*13.43*	
		For 8 In 12 Slope, Add	*16.11*	
		For 16" On Center Gable Studs, Add	*13.43*	
06 17 53 00-0032	EA	16' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	322.32	117.54
		For 3 In 12 Slope, Add	*2.62*	
		For 5 In 12 Slope, Add	*6.98*	
		For 6 In 12 Slope, Add	*13.09*	
		For 7 In 12 Slope, Add	*17.45*	
		For 8 In 12 Slope, Add	*20.94*	
		For 16" On Center Gable Studs, Add	*17.45*	
06 17 53 00-0033	EA	18' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	354.81	126.25
		For 3 In 12 Slope, Add	*3.07*	
		For 5 In 12 Slope, Add	*8.18*	
		For 6 In 12 Slope, Add	*15.35*	
		For 7 In 12 Slope, Add	*20.46*	
		For 8 In 12 Slope, Add	*24.55*	
		For 16" On Center Gable Studs, Add	*20.46*	
06 17 53 00-0034	EA	20' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	386.28	139.31
		For 3 In 12 Slope, Add	*3.23*	
		For 5 In 12 Slope, Add	*8.61*	
		For 6 In 12 Slope, Add	*16.15*	
		For 7 In 12 Slope, Add	*21.53*	
		For 8 In 12 Slope, Add	*25.84*	
		For 16" On Center Gable Studs, Add	*21.53*	
06 17 53 00-0035	EA	22' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	406.83	148.01
		For 3 In 12 Slope, Add	*3.32*	
		For 5 In 12 Slope, Add	*8.86*	
		For 6 In 12 Slope, Add	*16.62*	
		For 7 In 12 Slope, Add	*22.16*	
		For 8 In 12 Slope, Add	*26.59*	
		For 16" On Center Gable Studs, Add	*22.16*	
06 17 53 00-0036	EA	24' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	433.63	156.72
		For 3 In 12 Slope, Add	*3.61*	
		For 5 In 12 Slope, Add	*9.61*	
		For 6 In 12 Slope, Add	*18.03*	
		For 7 In 12 Slope, Add	*24.04*	
		For 8 In 12 Slope, Add	*28.84*	
		For 16" On Center Gable Studs, Add	*24.04*	
06 17 53 00-0037	EA	26' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	461.44	165.43
		For 3 In 12 Slope, Add	*3.92*	
		For 5 In 12 Slope, Add	*10.45*	
		For 6 In 12 Slope, Add	*19.59*	
		For 7 In 12 Slope, Add	*26.12*	
		For 8 In 12 Slope, Add	*31.34*	
		For 16" On Center Gable Studs, Add	*26.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 17 53 00-0038	EA	28' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	490.64	174.14
		For 3 In 12 Slope, Add	*4.27*	
		For 5 In 12 Slope, Add	*11.39*	
		For 6 In 12 Slope, Add	*21.36*	
		For 7 In 12 Slope, Add	*28.47*	
		For 8 In 12 Slope, Add	*34.17*	
		For 16" On Center Gable Studs, Add	*28.47*	
06 17 53 00-0039	EA	30' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	513.81	182.85
		For 3 In 12 Slope, Add	*4.44*	
		For 5 In 12 Slope, Add	*11.85*	
		For 6 In 12 Slope, Add	*22.22*	
		For 7 In 12 Slope, Add	*29.63*	
		For 8 In 12 Slope, Add	*35.55*	
		For 16" On Center Gable Studs, Add	*29.63*	
06 17 53 00-0040	EA	32' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	537.34	187.20
		For 3 In 12 Slope, Add	*4.89*	
		For 5 In 12 Slope, Add	*13.04*	
		For 6 In 12 Slope, Add	*24.44*	
		For 7 In 12 Slope, Add	*32.59*	
		For 8 In 12 Slope, Add	*39.11*	
		For 16" On Center Gable Studs, Add	*32.59*	
06 17 53 00-0041	EA	34' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	587.17	195.91
		For 3 In 12 Slope, Add	*5.86*	
		For 5 In 12 Slope, Add	*15.63*	
		For 6 In 12 Slope, Add	*29.30*	
		For 7 In 12 Slope, Add	*39.07*	
		For 8 In 12 Slope, Add	*46.89*	
		For 16" On Center Gable Studs, Add	*39.07*	
06 17 53 00-0042	EA	36' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	611.28	200.26
		For 3 In 12 Slope, Add	*6.32*	
		For 5 In 12 Slope, Add	*16.86*	
		For 6 In 12 Slope, Add	*31.61*	
		For 7 In 12 Slope, Add	*42.15*	
		For 8 In 12 Slope, Add	*50.58*	
		For 16" On Center Gable Studs, Add	*42.15*	
06 17 53 00-0043	EA	38' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	643.07	208.96
		For 3 In 12 Slope, Add	*6.75*	
		For 5 In 12 Slope, Add	*18.01*	
		For 6 In 12 Slope, Add	*33.77*	
		For 7 In 12 Slope, Add	*45.03*	
		For 8 In 12 Slope, Add	*54.03*	
		For 16" On Center Gable Studs, Add	*45.03*	
06 17 53 00-0044	EA	40' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	679.79	217.67
		For 3 In 12 Slope, Add	*7.33*	
		For 5 In 12 Slope, Add	*19.56*	
		For 6 In 12 Slope, Add	*36.67*	
		For 7 In 12 Slope, Add	*48.89*	
		For 8 In 12 Slope, Add	*58.67*	
		For 16" On Center Gable Studs, Add	*48.89*	
06 17 53 00-0045	EA	42' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	748.90	226.38
		For 3 In 12 Slope, Add	*8.88*	
		For 5 In 12 Slope, Add	*23.69*	
		For 6 In 12 Slope, Add	*44.42*	
		For 7 In 12 Slope, Add	*59.23*	
		For 8 In 12 Slope, Add	*71.08*	
		For 16" On Center Gable Studs, Add	*59.23*	
06 17 53 00-0046	EA	44' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	816.60	235.08
		For 3 In 12 Slope, Add	*10.39*	
		For 5 In 12 Slope, Add	*27.71*	
		For 6 In 12 Slope, Add	*51.96*	
		For 7 In 12 Slope, Add	*69.29*	
		For 8 In 12 Slope, Add	*83.14*	
		For 16" On Center Gable Studs, Add	*69.29*	
06 17 53 00-0047	EA	46' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	845.17	243.79
		For 3 In 12 Slope, Add	*10.73*	
		For 5 In 12 Slope, Add	*28.61*	
		For 6 In 12 Slope, Add	*53.64*	
		For 7 In 12 Slope, Add	*71.52*	
		For 8 In 12 Slope, Add	*85.82*	
		For 16" On Center Gable Studs, Add	*71.52*	
06 17 53 00-0048	EA	48' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	887.24	252.50
		For 3 In 12 Slope, Add	*11.47*	
		For 5 In 12 Slope, Add	*30.58*	
		For 6 In 12 Slope, Add	*57.34*	
		For 7 In 12 Slope, Add	*76.45*	
		For 8 In 12 Slope, Add	*91.74*	
		For 16" On Center Gable Studs, Add	*76.45*	
06 17 53 00-0049	EA	50' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	961.02	261.20
		For 3 In 12 Slope, Add	*13.16*	
		For 5 In 12 Slope, Add	*35.09*	
		For 6 In 12 Slope, Add	*65.79*	
		For 7 In 12 Slope, Add	*87.72*	
		For 8 In 12 Slope, Add	*105.27*	
		For 16" On Center Gable Studs, Add	*87.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 17 53 00-0050	EA	52' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	984.28	269.91
		For 3 In 12 Slope, Add	*13.33*	
		For 5 In 12 Slope, Add	*35.56*	
		For 6 In 12 Slope, Add	*66.67*	
		For 7 In 12 Slope, Add	*88.89*	
		For 8 In 12 Slope, Add	*106.67*	
		For 16" On Center Gable Studs, Add	*88.89*	
06 17 53 00-0051	EA	54' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	1,014.47	274.27
		For 3 In 12 Slope, Add	*13.98*	
		For 5 In 12 Slope, Add	*37.28*	
		For 6 In 12 Slope, Add	*69.89*	
		For 7 In 12 Slope, Add	*93.19*	
		For 8 In 12 Slope, Add	*111.83*	
		For 16" On Center Gable Studs, Add	*93.19*	
06 17 53 00-0052	EA	56' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	1,054.76	282.98
		For 3 In 12 Slope, Add	*14.66*	
		For 5 In 12 Slope, Add	*39.11*	
		For 6 In 12 Slope, Add	*73.32*	
		For 7 In 12 Slope, Add	*97.76*	
		For 8 In 12 Slope, Add	*117.32*	
		For 16" On Center Gable Studs, Add	*97.76*	
06 17 53 00-0053	EA	58' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	1,090.61	287.33
		For 3 In 12 Slope, Add	*15.48*	
		For 5 In 12 Slope, Add	*41.28*	
		For 6 In 12 Slope, Add	*77.39*	
		For 7 In 12 Slope, Add	*103.19*	
		For 8 In 12 Slope, Add	*123.83*	
		For 16" On Center Gable Studs, Add	*103.19*	
06 17 53 00-0054	EA	60' Pre-Assembled Wood Gable End Roof Truss, 4 In 12 Slope	1,113.29	291.68
		For 3 In 12 Slope, Add	*15.90*	
		For 5 In 12 Slope, Add	*42.40*	
		For 6 In 12 Slope, Add	*79.49*	
		For 7 In 12 Slope, Add	*105.99*	
		For 8 In 12 Slope, Add	*127.19*	
		For 16" On Center Gable Studs, Add	*105.99*	

06 18 Glued-Laminated Construction *(06 10)*

06 18 13 Glued-Laminated Beams *(06 18)*

06 18 13 00-0001 Glue Laminated Straight Beams *(06 18 13)*

Note: Based on southern yellow pine or hemlock lumber with waterproof glue and factor applied sealer.

06 18 13 00-0002	LF	3-1/2" x 6" Glue Laminated Straight Beam	11.11	3.77
06 18 13 00-0003	LF	3-1/2" x 7-1/2" Glue Laminated Straight Beam	13.88	4.71
06 18 13 00-0004	LF	3-1/2" x 9" Glue Laminated Straight Beam	16.66	5.66
06 18 13 00-0005	LF	3-1/2" x 9-1/2" Glue Laminated Straight Beam	17.58	5.98
06 18 13 00-0006	LF	3-1/2" x 10-1/2" Glue Laminated Straight Beam	19.41	6.60
06 18 13 00-0007	LF	3-1/2" x 12" Glue Laminated Straight Beam	22.20	7.54
06 18 13 00-0008	LF	3-1/2" x 13-1/2" Glue Laminated Straight Beam	24.98	8.48
06 18 13 00-0009	LF	3-1/2" x 14" Glue Laminated Straight Beam	25.91	8.81
06 18 13 00-0010	LF	3-1/2" x 15" Glue Laminated Straight Beam	27.76	9.43
06 18 13 00-0011	LF	3-1/2" x 16" Glue Laminated Straight Beam	29.58	10.06
06 18 13 00-0012	LF	3-1/2" x 16-1/2" Glue Laminated Straight Beam	30.52	10.38
06 18 13 00-0013	LF	3-1/2" x 18" Glue Laminated Straight Beam	33.30	11.33
06 18 13 00-0014	LF	3-1/2" x 19-1/2" Glue Laminated Straight Beam	36.08	12.27
06 18 13 00-0015	LF	3-1/2" x 21" Glue Laminated Straight Beam	38.84	13.21
06 18 13 00-0016	LF	3-1/2" x 22.5" Glue Laminated Straight Beam	41.63	14.15
06 18 13 00-0017	LF	5-1/2" x 6" Glue Laminated Straight Beam	17.44	5.93
06 18 13 00-0018	LF	5-1/2" x 7-1/2" Glue Laminated Straight Beam	21.80	7.41
06 18 13 00-0019	LF	5-1/2" x 9" Glue Laminated Straight Beam	26.16	8.90
06 18 13 00-0020	LF	5-1/2" x 9-1/2" Glue Laminated Straight Beam	27.61	9.40
06 18 13 00-0021	LF	5-1/2" x 10-1/2" Glue Laminated Straight Beam	30.52	10.38
06 18 13 00-0022	LF	5-1/2" x 12" Glue Laminated Straight Beam	34.89	11.86
06 18 13 00-0023	LF	5-1/2" x 13-1/2" Glue Laminated Straight Beam	39.25	13.35
06 18 13 00-0024	LF	5-1/2" x 14" Glue Laminated Straight Beam	40.69	13.83
06 18 13 00-0025	LF	5-1/2" x 15" Glue Laminated Straight Beam	43.62	14.83
06 18 13 00-0026	LF	5-1/2" x 16" Glue Laminated Straight Beam	46.51	15.81
06 18 13 00-0027	LF	5-1/2" x 16-1/2" Glue Laminated Straight Beam	47.97	16.31
06 18 13 00-0028	LF	5-1/2" x 18" Glue Laminated Straight Beam	52.34	17.78
06 18 13 00-0029	LF	5-1/2" x 19-1/2" Glue Laminated Straight Beam	56.70	19.28
06 18 13 00-0030	LF	5-1/2" x 21" Glue Laminated Straight Beam	61.06	20.75
06 18 13 00-0031	LF	5-1/2" x 22.5" Glue Laminated Straight Beam	65.42	22.24
06 18 13 00-0032	LF	5-1/2" x 24" Glue Laminated Straight Beam	69.78	23.71
06 18 13 00-0033	LF	6-3/4" x 9" Glue Laminated Straight Beam	32.12	10.91
06 18 13 00-0034	LF	6-3/4" x 9-1/2" Glue Laminated Straight Beam	33.90	11.52
06 18 13 00-0035	LF	6-3/4" x 10-1/2" Glue Laminated Straight Beam	37.46	12.74
06 18 13 00-0036	LF	6-3/4" x 12" Glue Laminated Straight Beam	42.82	14.55
06 18 13 00-0037	LF	6-3/4" x 13-1/2" Glue Laminated Straight Beam	48.18	16.38
06 18 13 00-0038	LF	6-3/4" x 14" Glue Laminated Straight Beam	49.95	16.98
06 18 13 00-0039	LF	6-3/4" x 15" Glue Laminated Straight Beam	53.52	18.20
06 18 13 00-0040	LF	6-3/4" x 16" Glue Laminated Straight Beam	57.09	19.40
06 18 13 00-0041	LF	6-3/4" x 16-1/2" Glue Laminated Straight Beam	58.88	20.01
06 18 13 00-0042	LF	6-3/4" x 18" Glue Laminated Straight Beam	64.21	21.83

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 18 13 00-0043	LF	6-3/4" x 19-1/2" Glue Laminated Straight Beam	69.57	23.66
06 18 13 00-0044	LF	6-3/4" x 21" Glue Laminated Straight Beam	74.93	25.47
06 18 13 00-0045	LF	6-3/4" x 22.5" Glue Laminated Straight Beam	80.26	27.29
06 18 13 00-0046	LF	6-3/4" x 24" Glue Laminated Straight Beam	85.63	29.11
06 18 13 00-0047	LF	8-3/4" x 9" Glue Laminated Straight Beam	41.63	14.15
06 18 13 00-0048	LF	8-3/4" x 9-1/2" Glue Laminated Straight Beam	43.93	14.93
06 18 13 00-0049	LF	8-3/4" x 10-1/2" Glue Laminated Straight Beam	48.56	16.51
06 18 13 00-0050	LF	8-3/4" x 12" Glue Laminated Straight Beam	55.49	18.87
06 18 13 00-0051	LF	8-3/4" x 13-1/2" Glue Laminated Straight Beam	62.45	21.22
06 18 13 00-0052	LF	8-3/4" x 14" Glue Laminated Straight Beam	64.75	22.02
06 18 13 00-0053	LF	8-3/4" x 15" Glue Laminated Straight Beam	69.37	23.58
06 18 13 00-0054	LF	8-3/4" x 16" Glue Laminated Straight Beam	73.99	25.16
06 18 13 00-0055	LF	8-3/4" x 16-1/2" Glue Laminated Straight Beam	76.32	25.93
06 18 13 00-0056	LF	8-3/4" x 18" Glue Laminated Straight Beam	83.26	28.30
06 18 13 00-0057	LF	8-3/4" x 19-1/2" Glue Laminated Straight Beam	90.19	30.65
06 18 13 00-0058	LF	8-3/4" x 21" Glue Laminated Straight Beam	97.13	33.02
06 18 13 00-0059	LF	8-3/4" x 22.5" Glue Laminated Straight Beam	104.06	35.37
06 18 13 00-0060	LF	8-3/4" x 24" Glue Laminated Straight Beam	111.01	37.74
06 18 13 00-0061		Glue Laminated Decking *(06 18 13)*		
06 18 13 00-0062	LF	2" - 4" Thick x 4" Wide Glue Laminated Decking	5.79	2.46
06 18 13 00-0063	LF	2" - 4" Thick x 6" Wide Glue Laminated Decking	6.00	2.46
06 18 13 00-0064	LF	2" - 4" Thick x 8" Wide Glue Laminated Decking	6.17	2.32

06 18 16 Glued-Laminated Columns *(06 18)*

06 18 16 00-0001		Glue Laminated Structural Units *(06 18 16)* Note: Based on southern yellow pine or hemlock lumber in 2" laminations with waterproof glue and factor applied sealer.		
06 18 16 00-0002	LF	3-1/4" x 7-1/2" Glue Laminated Purlin Or Column	16.61	5.02
06 18 16 00-0003	LF	3-1/4" x 9-1/4" Glue Laminated Purlin Or Column	18.70	5.58
06 18 16 00-0004	LF	5-1/4" x 9-1/4" Glue Laminated Purlin Or Column	35.52	11.92
06 18 16 00-0005	LF	5-1/4" x 13" Glue Laminated Purlin Or Column	38.87	12.50

END OF SECTION 06

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

07 Thermal And Moisture Protection

07 05 Common Work Results for Thermal and Moisture Protection *(07)*

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work *(07 05)*

07 05 13 00-0001 Mobilization Of Crew For Small Quantity Of Roof Work *(07 05 13)*

Note: For use with all roofing tasks where the total quantity of roof work is 4 squares or less.

07 05 13 00-0002	EA	Up To 1 SQ, Mobilization Of Crew For Small Quantity Of Roof Work		1,654.94	
07 05 13 00-0003	EA	>1 To 2 SQ, Mobilization Of Crew For Small Quantity Of Roof Work		1,238.23	
07 05 13 00-0004	EA	>2 To 3 SQ, Mobilization Of Crew For Small Quantity Of Roof Work		827.47	
07 05 13 00-0005	EA	>3 To 4 SQ, Mobilization Of Crew For Small Quantity Of Roof Work		412.75	

07 10 Dampproofing and Waterproofing *(07)*

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

07 11 Dampproofing *(07 10)*

07 11 13 Bituminous Dampproofing *(07 11)*

07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray *(07 11 13)*

07 11 13 00-0002	CSF	1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray		204.69	
07 11 13 00-0003	CSF	2 Coats, Brush, Roller Or Spray, Fibrous Asphalt Dampproofing		314.85	

07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On *(07 11 13)*

07 11 13 00-0005	CSF	Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On		352.05	
07 11 13 00-0006	CSF	Primer And 2 Coats, Troweled On, Fibrous Asphalt Dampproofing		546.34	

07 11 13 00-0007 Asphaltic Paint Dampproofing *(07 11 13)*

07 11 13 00-0008	CSF	1 Coat, Asphaltic Paint Dampproofing, Brushed On		164.43	
07 11 13 00-0009	CSF	2 Coats, Brushed On, Asphaltic Paint Dampproofing		304.07	

07 11 19 Sheet Dampproofing *(07 11)*

07 11 19 00-0001 Neoprene *(07 11 19)*

07 11 19 00-0002	SF	5 To 20 SF, 1/16" Patch Neoprene Roof		44.03	

07 13 Sheet Waterproofing *(07 10)*

07 13 13 Bituminous Sheet Waterproofing *(07 13)*

07 13 13 00-0001 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped *(07 13 13)*

07 13 13 00-0002	CSF	1 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped		383.37	132.39
		For 30 Lb. Felt, Add		*88.94*	
		For Application To Horizontal Surfaces, Deduct		*-39.72*	
07 13 13 00-0003	CSF	2 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped		484.48	148.93
		For 30 Lb. Felt, Add		*139.96*	
		For Application To Horizontal Surfaces, Deduct		*-44.68*	
07 13 13 00-0004	CSF	3 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped		585.60	165.48
		For 30 Lb. Felt, Add		*190.97*	
		For Application To Horizontal Surfaces, Deduct		*-49.65*	
07 13 13 00-0005	CSF	4 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped		686.72	182.03
		For 30 Lb. Felt, Add		*241.99*	
		For Application To Horizontal Surfaces, Deduct		*-54.61*	
07 13 13 00-0006	CSF	5 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped		787.83	198.59
		For 30 Lb. Felt, Add		*293.00*	
		For Application To Horizontal Surfaces, Deduct		*-59.57*	

07 13 13 00-0007 Asphalt Coated Protective Board *(07 13 13)*

07 13 13 00-0008	CSF	1/8" Asphalt Coated Protective Board		317.76	132.60
		For Application To Horizontal Surfaces, Deduct		*-44.22*	
07 13 13 00-0009	CSF	1/4" Asphalt Coated Protective Board		392.74	137.69
		For Application To Horizontal Surfaces, Deduct		*-45.90*	
07 13 13 00-0010	CSF	3/8" Asphalt Coated Protective Board		482.86	143.48
		For Application To Horizontal Surfaces, Deduct		*-47.81*	
07 13 13 00-0011	CSF	1/2" Asphalt Coated Protective Board		531.05	149.26
		For Application To Horizontal Surfaces, Deduct		*-49.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53		**Elastomeric Sheet Waterproofing** *(07 13)*		
07 13 53 00-0001		Rubberized Membrane Sheet *(07 13 53)*		
07 13 53 00-0002	SF	215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	8.15	1.37
		For Floor Surfaces, Deduct	*-1.32*	
07 13 53 00-0003		Ethylene Propylene Diene Monomer (EPDM) *(07 13 53)*		
07 13 53 00-0004	CSF	45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	527.23	193.69
		For Application To Horizontal Surfaces, Deduct	*-58.10*	
07 13 53 00-0005	CSF	60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	591.81	193.69
		For Application To Horizontal Surfaces, Deduct	*-58.10*	
07 13 53 00-0006		Butyl Sheet Waterproofing *(07 13 53)*		
07 13 53 00-0007	CSF	1/32" Butyl Sheet Waterproofing	111.46	48.42
		For Joint Taping, Add	*16.73*	
		For Each Additional Ply, Add	*82.87*	
		For Application To Horizontal Surfaces, Deduct	*-7.28*	
07 13 53 00-0008	CSF	1/16" Butyl Sheet Waterproofing	131.48	48.42
		For Joint Taping, Add	*17.73*	
		For Each Additional Ply, Add	*96.89*	
		For Application To Horizontal Surfaces, Deduct	*-7.28*	
07 13 53 00-0009		Butyl With Nylon *(07 13 53)*		
07 13 53 00-0010	CSF	1/32" Butyl Elastomeric Waterproofing With Nylon	122.90	48.42
		For Joint Taping, Add	*17.30*	
		For Each Additional Ply, Add	*90.88*	
		For Application To Horizontal Surfaces, Deduct	*-7.28*	
07 13 53 00-0011	CSF	1/16" Butyl Elastomeric Waterproofing With Nylon	135.78	48.42
		For Joint Taping, Add	*17.95*	
		For Each Additional Ply, Add	*99.90*	
		For Application To Horizontal Surfaces, Deduct	*-7.28*	
07 13 53 00-0012		Neoprene Sheet Waterproofing *(07 13 53)*		
07 13 53 00-0013	CSF	1/32" Neoprene Sheet Waterproofing	188.77	48.42
		For Joint Taping, Add	*20.60*	
		For Each Additional Ply, Add	*136.99*	
		For Application To Horizontal Surfaces, Deduct	*-7.28*	
07 13 53 00-0014	CSF	1/16" Neoprene Sheet Waterproofing	274.01	48.42
		For Joint Taping, Add	*24.86*	
		For Each Additional Ply, Add	*196.66*	
		For Application To Horizontal Surfaces, Deduct	*-7.28*	
07 13 53 00-0015		Neoprene With Nylon *(07 13 53)*		
07 13 53 00-0016	CSF	1/32" Neoprene Elastomeric Waterproofing With Nylon	197.67	48.42
		For Joint Taping, Add	*21.04*	
		For Each Additional Ply, Add	*143.22*	
		For Application To Horizontal Surfaces, Deduct	*-7.28*	
07 13 53 00-0017	CSF	1/16" Neoprene Elastomeric Waterproofing With Nylon	288.22	48.42
		For Joint Taping, Add	*25.57*	
		For Each Additional Ply, Add	*206.61*	
		For Application To Horizontal Surfaces, Deduct	*-7.28*	
07 13 53 00-0018		Plastic Vapor Barrier (Polyethylene) *(07 13 53)*		
07 13 53 00-0019	CSF	4 Mil Polyethylene Vapor Barrier	46.26	17.42
		For Joint Taping, Add	*11.18*	
		For Each Additional Ply, Add	*36.24*	
		For Application To Horizontal Surfaces, Deduct	*-5.78*	
07 13 53 00-0020	CSF	6 Mil Polyethylene Vapor Barrier	47.37	17.42
		For Joint Taping, Add	*11.24*	
		For Each Additional Ply, Add	*37.01*	
		For Application To Horizontal Surfaces, Deduct	*-5.78*	
07 13 53 00-0021	CSF	10 Mil Polyethylene Vapor Barrier	75.67	17.42
		For Joint Taping, Add	*12.65*	
		For Each Additional Ply, Add	*56.82*	
		For Application To Horizontal Surfaces, Deduct	*-5.78*	
07 13 53 00-0022	CSF	60 Mil Polyethylene Vapor Barrier With Bentonite	218.45	17.42
		Note: Includes seam tape, liquid mastic, anchors and termination bar.		
		For Each Additional Ply, Add	*157.20*	
		For Application To Horizontal Surfaces, Deduct	*-6.43*	
07 13 53 00-0023		Polyvinyl Chloride (PVC) Vapor Barrier *(07 13 53)*		
07 13 53 00-0024	CSF	10 Mil Polyvinyl Chloride (PVC) Vapor Barrier	75.68	19.28
		For Joint Taping, Add	*12.65*	
		For Each Additional Ply, Add	*56.83*	
		For Application To Horizontal Surfaces, Deduct	*-5.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0025	CSF	20 Mil Polyvinyl Chloride (PVC) Vapor Barrier	104.15	19.99
		For Joint Taping, Add	*14.41*	
		For Each Additional Ply, Add	*76.91*	
		For Application To Horizontal Surfaces, Deduct	*-6.00*	
07 13 53 00-0026	CSF	30 Mil Polyvinyl Chloride (PVC) Vapor Barrier	142.67	20.70
		For Joint Taping, Add	*16.66*	
		For Each Additional Ply, Add	*104.01*	
		For Application To Horizontal Surfaces, Deduct	*-6.21*	
07 13 53 00-0027		Vinyl Plastic Vapor Barrier *(07 13 53)*		
07 13 53 00-0028	CSF	4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4)	55.00	17.85

07 14 Fluid-Applied Waterproofing *(07 10)*

07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing *(07 14)*

07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating *(07 14 13)*

07 14 13 00-0002	SF	90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface Note: Includes primer.	2.77	
		For Application To Horizontal Surfaces, Deduct	*-0.26*	
		For Reinforcing Fabric, Add	*0.61*	
07 14 13 00-0003	SF	125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface Note: Includes primer.	3.24	
		For Application To Horizontal Surfaces, Deduct	*-0.27*	
		For Reinforcing Fabric, Add	*0.61*	

07 14 16 Cold Fluid-Applied Waterproofing *(07 14)*

07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane *(07 14 16)*

07 14 16 00-0002	SF	60 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing	4.80	
		For Application To Horizontal Surfaces, Deduct	*-0.59*	
07 14 16 00-0003	SF	90 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing	5.44	
		For Application To Horizontal Surfaces, Deduct	*-0.61*	
07 14 16 00-0004	SF	120 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing	6.15	
		For Application To Horizontal Surfaces, Deduct	*-0.65*	

07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene (CSPE) Polymer *(07 14 16)*

07 14 16 00-0006	SF	15 Mil Finish Coat, 1 Part Solution, Chlorosulfonated Polyethylene (CSM) Polymer	3.57	

07 14 16 00-0007 Copolymer Compound *(07 14 16)*

07 14 16 00-0008	SF	32 Mil, Fluid Elastomeric Copolymer Compound For Slabs	5.52	

07 14 16 00-0009 Fluid Applied Neoprene *(07 14 16)*

07 14 16 00-0010	CSF	1/8" Fiberglass Reinforced, Fluid Applied Neoprene	640.27	
		For Application To Horizontal Surfaces, Deduct	*-70.56*	
07 14 16 00-0011	CSF	50 Mil, 4 Coats, Fluid Applied Neoprene	1,212.72	
		For Application To Horizontal Surfaces, Deduct	*-138.41*	
07 14 16 00-0012	CSF	90 Mil, 4 Coats, Fluid Applied Neoprene	1,963.36	
		For Application To Horizontal Surfaces, Deduct	*-207.51*	

07 16 Cementitious and Reactive Waterproofing *(07 10)*

07 16 13 Polymer Modified Cement Waterproofing *(07 16)*

07 16 13 00-0001	SF	Polymer Modified Cementitious Waterproofing Assembly, 2 Coats Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.	5.19	

07 16 16 Crystalline Waterproofing *(07 16)*

07 16 16 00-0001	SF	Crystalline Cementitious Waterproofing. 2 Coats (Xypex Concentrate)	6.33	

07 16 19 Metal Oxide Waterproofing *(07 16)*

07 16 19 00-0001 Metallic Oxide Waterproofing *(07 16 19)*
Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat. See CSI section 03 54 16 00-0001 for self-leveling underlayment for concrete floors.

07 16 19 00-0002	CSF	Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller)	565.06	
		For Application To Horizontal Surfaces, Deduct	*-71.52*	

07 17 Bentonite Waterproofing *(07 10)*

07 17 13 Bentonite Panel Waterproofing *(07 17)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 17 13 00-0001	CSF	3/16" Bentonite Waterproofing Panels	470.04	158.21
		For Application To Horizontal Surfaces, Deduct	*-47.48*	
07 17 13 00-0002	CSF	1/4" Bentonite Waterproofing Panels	449.83	167.16
		For Application To Horizontal Surfaces, Deduct	*-51.38*	
07 17 13 00-0003	CSF	5/8" Bentonite Waterproofing Panels	572.80	174.32
		For Application To Horizontal Surfaces, Deduct	*-52.28*	
07 17 13 00-0004	CSF	3/8" Granular Bentonite, Troweled	465.33	144.99
		For Application To Horizontal Surfaces, Deduct	*-43.48*	

07 18 Traffic Coatings *(07 10)*

07 18 13 Pedestrian Traffic Coatings *(07 18)*

07 18 13 00-0001 Elastomeric Plaza Deck System (Garland Dura-Walk®) *(07 18 13)*

Note: For pedestrian and vehicular traffic. Includes 10 year warranty. Excludes surface preparation, deck crack repair, joint sealants or markings.

07 18 13 00-0002	SQ	Porous Concrete Primer (Garland Dura-Walk® FC Primer Kit)	186.22
07 18 13 00-0003	SQ	32 mils, Base Coat, One-Component, Polyurethane, Elastomeric Plaza Deck System (Garland Dura-Walk®)	525.47
07 18 13 00-0004	SQ	16 mils, Wear Coat, One-Component, Polyurethane, Elastomeric Plaza Deck System (Garland Dura-Walk®)	304.44
07 18 13 00-0005	SQ	16 mils, Top Coat, One-Component, Polyurethane, Elastomeric Plaza Deck System (Garland Dura-Walk®)	363.47
07 18 13 00-0006	LF	6" Wide, Poly Joint Tape (Garland Dura-Walk®)	1.88

07 18 13 00-0007 Pedestrian Traffic Coating *(07 18 13)*

Note: Gaco Western

07 18 13 00-0008	SF	GACOCRETE A-17, Acrylic Elastomeric Coating	3.35
07 18 13 00-0009	SF	Silicone Enhanced A-30, Acrylic Elastomeric Coating	2.87
		For >2,000, Deduct	*-0.34*
07 18 13 00-0010	SF	Quick Set A-31, Acrylic Elastomeric Coating	2.68
07 18 13 00-0011	SF	A-32, Acrylic Elastomeric Coating	2.99
		For >2,000, Deduct	*-0.38*
07 18 13 00-0012	SF	Liquid Seam Tape A-3611, Acrylic Elastomeric Coating	3.11
		For >2,000, Deduct	*-0.42*
07 18 13 00-0013	SF	A-38, Acrylic Elastomeric Coating	3.07
07 18 13 00-0014	SF	Acrylic Primer A-4121	2.13
07 18 13 00-0015	SF	Two Component Epoxy Emulsion Primer Filler E-5320	3.52
07 18 13 00-0016	SF	Two Component Epoxy Rust Inhibiting Primer E-5388	4.07
07 18 13 00-0017	SF	Two Component 100% Solids Primer E-5481	4.42
07 18 13 00-0018	SF	Hypalon Roof Coating H-25	4.03
07 18 13 00-0019	SF	Neoprene Adhesive N-1207	3.16
07 18 13 00-0020	SF	GACOSIL S-10 Silicone	3.47
		For >2,000, Deduct	*-0.55*
07 18 13 00-0021	SF	GACOSIL S-20 Silicone	3.57
		For >2,000, Deduct	*-0.58*
07 18 13 00-0022	SF	Urethane Primer/Sealer U-5677	2.30
07 18 13 00-0023	SF	Single Component Polyurethane Coating, Ure-Shield Aluminum U-6006	3.23
		For >2,000, Deduct	*-0.46*
07 18 13 00-0024	SF	Two Component Polyurethane Coating U-62	4.87
		For >2,000, Deduct	*-0.81*
07 18 13 00-0025	SF	Two Component Polyurethane Coating, Liquid Applied Polyurethane Rubber U-64	4.29
07 18 13 00-0026	SF	Two Component Polyurethane Coating U-66	4.81
07 18 13 00-0027	SF	Two Component Polyurethane Coating U-8730	4.49
07 18 13 00-0028	SF	Two Component Polyurethane Coating U-8782	4.42
07 18 13 00-0029	SF	Two Component Polyurethane Aliphatic Coating UA-60	5.45
07 18 13 00-0030	SF	Two Component Polyurethane Aliphatic Coating UA-7090	6.73
07 18 13 00-0031	SF	Two Component Polyurethane Base Coating UB-64	4.23
07 18 13 00-0032	SF	Two Component Polyurethane Base Coating UB-8380	4.16
07 18 13 00-0033	SF	Etching Detergent D-09	2.33
07 18 13 00-0034	LB	GacoShell Granules Additive To Coating	2.45
07 18 13 00-0035	LB	Quartz Granules Additive To Coating	2.21
07 18 13 00-0036	LF	4" Polyester Reinforcing Tape, 66-B	0.23
07 18 13 00-0037	LF	6" Polyester Reinforcing Tape, 66-B	0.29
07 18 13 00-0038	LF	4" Sontara Polyester Reinforcing Tape, 66-S	0.37
07 18 13 00-0039	LF	6" Sontara Polyester Reinforcing Tape, 66-S	0.51
07 18 13 00-0040	LF	2" Metal Roof Seam Sealing Tape, 66-MR	1.04
07 18 13 00-0041	LF	3" Metal Roof Seam Sealing Tape, 66-MR	1.62
07 18 13 00-0042	LF	4" Metal Roof Seam Sealing Tape, 66-MR	2.01
07 18 13 00-0043	LF	6" Metal Roof Seam Sealing Tape, 66-MR	2.87
07 18 13 00-0044	GAL	Polyurethane Coating Thinner T-5106	57.78
07 18 13 00-0045	GAL	Compliant Thinner T-5110	120.38
07 18 13 00-0046	GAL	Regular Thinner T-5112	33.70
07 18 13 00-0047	GAL	Polyurethane Coating Thinner T-5116	43.34
07 18 13 00-0048	GAL	Polyurethane Troweling Thinner T-5118	52.96
07 18 13 00-0049	GAL	Compliant Thinner T-5125	57.78
07 18 13 00-0050	GAL	Fast Polyurethane Coating Thinner T-5130	43.34
07 18 13 00-0051	GAL	Silicone And U-62 Polyurethane Coating Thinner T-5135	43.34

07 18 16 Vehicular Traffic Coatings *(07 18)*

07 18 16 00-0001 Preparation For Vehicular Traffic Coating *(07 18 16)*

See CSI section 03 01 30 71-0051 for crack repairs, 32 17 23 00-0000 for pavement markings.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 18 16 00-0002	SF	Grinding Of Existing Concrete Floor Prior To Installation Of Deck Coating	1.29	
07 18 16 00-0003	SF	Shot Blasting Concrete Surface For Vehicular Traffic Coating	2.76	
07 18 16 00-0004		Vehicular Traffic Coating (Sika) *(07 18 16)*		
		Note: Excludes surface preparation, deck crack repair, joint sealants or pavement markings. See CSI section 03 01 30 71-0051 for crack repairs, 07 18 16 00-0001 for surface preparaion, 32 17 23 00-0000 for pavement markings.		
07 18 16 00-0005	SF	23 Mil Thick, Traffic Coating, Two-Component, Elastomeric Polyurethane Waterproofing, Concrete Coating With Primer (Sika Sikalastic® 720)	4.23	
		Note: Excludes crack repair or caulking.		
07 18 16 00-0006	SF	12 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL)	2.60	
		Note: Excludes crack repair or caulking.		
07 18 16 00-0007	SF	14 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL)	2.76	
		Note: Excludes crack repair or caulking.		
07 18 16 00-0008	SF	16 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL)	2.93	
		Note: Excludes crack repair or caulking.		
07 18 16 00-0009	SF	18 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL)	3.07	
		Note: Excludes crack repair or caulking.		
07 18 16 00-0010	SF	14 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Wear And Top Concrete Coating (Sika Sikalastic®-745 Textured)	2.95	
		Note: Excludes crack repair or caulking.		
07 18 16 00-0011	SF	16 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Wear And Top Concrete Coating (Sika Sikalastic®-745 Textured)	3.20	
		Note: Excludes crack repair or caulking.		
07 18 16 00-0012	SF	18 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Wear And Top Concrete Coating (Sika Sikalastic®-745 Textured)	3.46	
		Note: Excludes crack repair or caulking.		

07 19 Water Repellents *(07 10)*

07 19 13 Acrylic Sealer *(07 19)*

Note: Per coat.

07 19 13 00-0001	SF	Spray On Concrete, Acrylic Sealer	2.99	
07 19 13 00-0002	SF	Spray On Concrete Block/Brick, Acrylic Sealer	3.57	
07 19 13 00-0003	SF	Spray On Stone, Acrylic Sealer	3.92	

07 19 16 Silane Water Repellents *(07 19)*

07 19 16 00-0001		Silane Concrete Sealer *(07 19 16)*		
07 19 16 00-0002	SF	Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	0.80	
07 19 16 00-0003	SF	Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	1.19	
07 19 16 00-0004		Silane/Siloxane Concrete Sealer *(07 19 16)*		
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	1.40	
		Note: 40% silane, alcohol based.		
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	2.05	
		Note: 40% silane, alcohol based.		
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.54	
		Note: 200 SF/GAL		
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.79	

07 25 Weather Barriers *(07)*

07 26 Vapor Retarders *(07 25)*

07 26 13 Above-Grade Vapor Retarders *(07 26)*

07 26 13 00-0001	CSF	Two Layer Kraft Paper Laminated With Asphalt, Grade "B" Building Paper (Aquabar B)	37.55	
07 26 13 00-0002	CSF	Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Jumbo Tex)	35.15	
07 26 13 00-0003	CSF	60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Super Jumbo Tex 60 Minute)	42.82	
07 26 13 00-0004	CSF	Two Ply 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Two Ply Super Jumbo Tex 60 Minute)	54.06	
07 26 13 00-0005	CSF	Regular Weight Red Rosin Sized Sheathing	32.69	
07 26 13 00-0006	CLF	6" Wide Two Layer Kraft Paper Laminated With Asphalt, Building Flashing Paper (Bond Beam Paper)	110.55	
07 26 13 00-0007	CLF	4" Wide Self-Adhering Butyl Sealing Tape	162.15	
07 26 13 00-0008	CLF	6" Wide Self Adhesive Butyl Sealing Tape	230.61	
07 26 13 00-0009	CLF	9" Wide Self Adhesive Butyl Sealing Tape	316.08	
07 26 13 00-0010	CSF	Building Wrap (Tyvek)	79.52	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

07 27 Air Barriers *(07 25)*

07 27 23 Board Product Air Barriers *(07 27)*

07 27 23 00-0001 Barriers For Plenums *(07 27 23)*

07 27 23 00-0002	SF	0.5" Thick Leaded Vinyl Acoustic Plenum Barrier 0.48 Lb./SF	15.13	4.28
		For Up To 50, Add	*5.63*	
		For >50 To 200, Add	*3.19*	
		For >200 To 500, Add	*1.18*	
		For >2,500, Deduct	*-0.76*	
07 27 23 00-0003	SF	0.625" Thick Leaded Vinyl Acoustic Plenum Barrier 0.87 Lb./SF	16.39	4.28
		For Up To 50, Add	*6.15*	
		For >50 To 200, Add	*3.48*	
		For >200 To 500, Add	*1.28*	
		For >2,500, Deduct	*-0.82*	
07 27 23 00-0004	SF	Aluminum Foil Fiberglass Reinforced Plenum Bar Parallel With Joists 1" Thick	6.18	2.85
		For Up To 50, Add	*3.01*	
		For >50 To 200, Add	*1.66*	
		For >200 To 500, Add	*0.57*	
		For >2,500, Deduct	*-0.31*	
07 27 23 00-0005	SF	Aluminum Foil Fiberglass Reinforced Plenum Bar Perpendicular With Joists 1" Thick	11.29	4.28
		For Up To 50, Add	*5.38*	
		For >50 To 200, Add	*2.97*	
		For >200 To 500, Add	*1.03*	
		For >2,500, Deduct	*-0.56*	
07 27 23 00-0006	SF	Aluminum Mesh Barrier For Plenum Kraft Paper Backed	7.44	2.85
		For Up To 50, Add	*3.20*	
		For >50 To 200, Add	*1.78*	
		For >200 To 500, Add	*0.63*	
		For >2,500, Deduct	*-0.37*	
07 27 23 00-0007	SF	1/64" Thick Sheet Lead Barrier For Plenum 1 Lb./SF	11.44	2.85
		For Up To 50, Add	*3.62*	
		For >50 To 200, Add	*2.10*	
		For >200 To 500, Add	*0.81*	
		For >2,500, Deduct	*-0.57*	

07 27 23 00-0008 Under Slab Insulation, Extruded Polystyrene (XPS) Sheets *(07 27 23)*

07 27 23 00-0009	SF	1" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation	2.48
07 27 23 00-0010	SF	2" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation	3.70
07 27 23 00-0011	SF	3" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation	4.77
07 27 23 00-0012	SF	4" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation	5.84

07 60 Flashing and Sheet Metal *(07)*

07 61 Sheet Metal Roofing *(07 60)*

07 61 13 Standing Seam Sheet Metal Roofing *(07 61)*

07 61 13 00-0001 Standing Seam Concealed Fastener Roofing *(07 61 13)*

07 61 13 00-0002 Copper Standing Seam Concealed Fastener Roofing *(07 61 13 00-0001)*

07 61 13 00-0003	SF	Architectural 16 Ounce Copper Standing Seam Concealed Fastener Roofing	33.10	3.63
		For Steep Roof, Over 6 To 12, Add	*2.18*	
		For 140 MPH Wind Load, Add	*1.24*	
		For Panels <16" Wide, Add	*3.00*	
		For Up To 1,500, Add	*8.28*	
		For >1,500 To 5,000, Add	*4.97*	
		For >5,000 To 10,000, Add	*0.83*	
07 61 13 00-0004	SF	Architectural 18 Ounce Copper Standing Seam Concealed Fastener Roofing	36.23	3.93
		For Steep Roof, Over 6 To 12, Add	*2.36*	
		For 140 MPH Wind Load, Add	*1.35*	
		For Panels <16" Wide, Add	*3.27*	
		For Up To 1,500, Add	*9.06*	
		For >1,500 To 5,000, Add	*5.43*	
		For >5,000 To 10,000, Add	*0.91*	
07 61 13 00-0005	SF	Architectural 20 Ounce Copper Standing Seam Concealed Fastener Roofing	42.62	4.29
		For Steep Roof, Over 6 To 12, Add	*2.57*	
		For 140 MPH Wind Load, Add	*1.54*	
		For Panels <16" Wide, Add	*3.72*	
		For Up To 1,500, Add	*10.66*	
		For >1,500 To 5,000, Add	*6.39*	
		For >5,000 To 10,000, Add	*1.07*	

07 61 13 00-0006 Zinc/Copper Standing Seam Concealed Fastener Roofing *(07 61 13 00-0001)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 13 00-0007	SF	0.020" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing	38.63	3.93
		For Steep Roof, Over 6 To 12, Add	*2.36*	
		For 140 MPH Wind Load, Add	*1.40*	
		For Panels <16" Wide, Add	*3.39*	
		For Up To 1,500, Add	*9.66*	
		For >1,500 To 5,000, Add	*5.79*	
		For >5,000 To 10,000, Add	*0.97*	
		For Tin/Copper, Deduct	*-0.62*	
07 61 13 00-0008	SF	0.027" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing	46.65	4.10
		For Steep Roof, Over 6 To 12, Add	*2.46*	
		For 140 MPH Wind Load, Add	*1.59*	
		For Panels <16" Wide, Add	*3.85*	
		For Up To 1,500, Add	*11.66*	
		For >1,500 To 5,000, Add	*7.00*	
		For >5,000 To 10,000, Add	*1.17*	
		For Tin/Copper, Deduct	*-0.77*	
07 61 13 00-0009	SF	0.032" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing	52.96	4.29
		For Steep Roof, Over 6 To 12, Add	*2.57*	
		For 140 MPH Wind Load, Add	*1.74*	
		For Panels <16" Wide, Add	*4.23*	
		For Up To 1,500, Add	*13.24*	
		For >1,500 To 5,000, Add	*7.94*	
		For >5,000 To 10,000, Add	*1.32*	
		For Tin/Copper, Deduct	*-0.89*	
07 61 13 00-0010	SF	0.040" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing	66.23	4.49
		For Steep Roof, Over 6 To 12, Add	*2.69*	
		For 140 MPH Wind Load, Add	*2.04*	
		For Panels <16" Wide, Add	*4.97*	
		For Up To 1,500, Add	*16.56*	
		For >1,500 To 5,000, Add	*9.93*	
		For >5,000 To 10,000, Add	*1.66*	
		For Tin/Copper, Deduct	*-1.15*	

07 61 13 00-0011 Accessories For Copper Standing Seam Concealed Fastener Roofing *(07 61 13 00-0001)*

07 61 13 00-0012	LF	Ridge Flashing For Copper Standing Seam Concealed Fastener Roofing	137.78	7.49
		For Steep Roof, Over 6 To 12, Add	*5.62*	
		For 140 MPH Wind Load, Add	*4.25*	
07 61 13 00-0013	LF	Eave Flashing For Copper Standing Seam Concealed Fastener Roofing	80.13	7.49
		For Steep Roof, Over 6 To 12, Add	*5.62*	
		For 140 MPH Wind Load, Add	*3.10*	
07 61 13 00-0014	LF	Valley Flashing For Copper Standing Seam Concealed Fastener Roofing	192.30	7.49
		For Steep Roof, Over 6 To 12, Add	*5.62*	
		For 140 MPH Wind Load, Add	*5.34*	
07 61 13 00-0015	LF	Hip Flashing For Copper Standing Seam Concealed Fastener Roofing	142.09	7.49
		For Steep Roof, Over 6 To 12, Add	*5.62*	
		For 140 MPH Wind Load, Add	*4.34*	

07 61 16 Batten Seam Sheet Metal Roofing *(07 61)*

07 61 16 00-0001 Copper Batten Seam Concealed Fastener Roofing *(07 61 16)*

07 61 16 00-0002 Copper Batten Seam Concealed Fastener Roofing *(07 61 16 00-0001)*

07 61 16 00-0003	SF	16 Ounce Copper Batten Seam Concealed Fastener Roofing	40.72	4.29
		For Steep Roof, Over 6 To 12, Add	*2.57*	
		For 140 MPH Wind Load, Add	*1.50*	
		For Panels <16" Wide, Add	*3.62*	
		For Up To 1,500, Add	*10.18*	
		For >1,500 To 5,000, Add	*6.11*	
		For >5,000 To 10,000, Add	*1.02*	
07 61 16 00-0004	SF	18 Ounce Copper Batten Seam Concealed Fastener Roofing	44.94	4.50
		For Steep Roof, Over 6 To 12, Add	*2.70*	
		For 140 MPH Wind Load, Add	*1.62*	
		For Panels <16" Wide, Add	*3.91*	
		For Up To 1,500, Add	*11.24*	
		For >1,500 To 5,000, Add	*6.74*	
		For >5,000 To 10,000, Add	*1.12*	
07 61 16 00-0005	SF	20 Ounce Copper Batten Seam Concealed Fastener Roofing	52.30	4.72
		For Steep Roof, Over 6 To 12, Add	*2.83*	
		For 140 MPH Wind Load, Add	*1.80*	
		For Panels <16" Wide, Add	*4.36*	
		For Up To 1,500, Add	*13.08*	
		For >1,500 To 5,000, Add	*7.85*	
		For >5,000 To 10,000, Add	*1.31*	

07 61 16 00-0006 Zinc/Copper Batten Seam Concealed Fastener Roofing *(07 61 16 00-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 16 00-0007	SF	0.020" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	41.28	3.93
		For Steep Roof, Over 6 To 12, Add	*2.36*	
		For 140 MPH Wind Load, Add	*1.45*	
		For Panels <16" Wide, Add	*3.52*	
		For Up To 1,500, Add	*10.32*	
		For >1,500 To 5,000, Add	*6.19*	
		For >5,000 To 10,000, Add	*1.03*	
		For Tin/Copper, Deduct	*-0.67*	
07 61 16 00-0008	SF	0.027" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	50.44	4.10
		For Steep Roof, Over 6 To 12, Add	*2.46*	
		For 140 MPH Wind Load, Add	*1.66*	
		For Panels <16" Wide, Add	*4.04*	
		For Up To 1,500, Add	*12.61*	
		For >1,500 To 5,000, Add	*7.57*	
		For >5,000 To 10,000, Add	*1.26*	
		For Tin/Copper, Deduct	*-0.84*	
07 61 16 00-0009	SF	0.032" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	56.49	4.29
		For Steep Roof, Over 6 To 12, Add	*2.57*	
		For 140 MPH Wind Load, Add	*1.82*	
		For Panels <16" Wide, Add	*4.41*	
		For Up To 1,500, Add	*14.12*	
		For >1,500 To 5,000, Add	*8.47*	
		For >5,000 To 10,000, Add	*1.41*	
		For Tin/Copper, Deduct	*-0.96*	
07 61 16 00-0010	SF	0.040" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	70.77	4.49
		For Steep Roof, Over 6 To 12, Add	*2.69*	
		For 140 MPH Wind Load, Add	*2.13*	
		For Panels <16" Wide, Add	*5.20*	
		For Up To 1,500, Add	*17.69*	
		For >1,500 To 5,000, Add	*10.62*	
		For >5,000 To 10,000, Add	*1.77*	
		For Tin/Copper, Deduct	*-1.24*	

07 61 19 Flat Seam Sheet Metal Roofing *(07 61)*

07 61 19 00-0001 Copper Flat Seam Concealed Fastener Roofing *(07 61 19)*

07 61 19 00-0002 Copper Flat Seam Concealed Fastener Roofing *(07 61 19 00-0001)*

07 61 19 00-0003	SF	16 Ounce Copper Flat Seam Concealed Fastener Roofing	31.57	3.93
		For Steep Roof, Over 6 To 12, Add	*2.36*	
		For 140 MPH Wind Load, Add	*1.26*	
		For Panels <16" Wide, Add	*3.03*	
		For Up To 1,500, Add	*7.89*	
		For >1,500 To 5,000, Add	*4.74*	
		For >5,000 To 10,000, Add	*0.79*	
07 61 19 00-0004	SF	18 Ounce Copper Flat Seam Concealed Fastener Roofing	34.68	4.10
		For Steep Roof, Over 6 To 12, Add	*2.46*	
		For 140 MPH Wind Load, Add	*1.35*	
		For Panels <16" Wide, Add	*3.25*	
		For Up To 1,500, Add	*8.67*	
		For >1,500 To 5,000, Add	*5.20*	
		For >5,000 To 10,000, Add	*0.87*	
07 61 19 00-0005	SF	20 Ounce Copper Flat Seam Concealed Fastener Roofing	40.09	4.29
		For Steep Roof, Over 6 To 12, Add	*2.57*	
		For 140 MPH Wind Load, Add	*1.49*	
		For Panels <16" Wide, Add	*3.59*	
		For Up To 1,500, Add	*10.02*	
		For >1,500 To 5,000, Add	*6.01*	
		For >5,000 To 10,000, Add	*1.00*	

07 61 19 00-0006 Zinc/Copper Flat Seam Concealed Fastener Roofing *(07 61 19 00-0001)*

07 61 19 00-0007	SF	0.020" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing	36.23	3.93
		For Steep Roof, Over 6 To 12, Add	*2.36*	
		For 140 MPH Wind Load, Add	*1.35*	
		For Panels <16" Wide, Add	*3.27*	
		For Up To 1,500, Add	*9.06*	
		For >1,500 To 5,000, Add	*5.43*	
		For >5,000 To 10,000, Add	*0.91*	
		For Tin/Copper, Deduct	*-0.57*	
07 61 19 00-0008	SF	0.027" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing	44.14	4.10
		For Steep Roof, Over 6 To 12, Add	*2.46*	
		For 140 MPH Wind Load, Add	*1.54*	
		For Panels <16" Wide, Add	*3.72*	
		For Up To 1,500, Add	*11.04*	
		For >1,500 To 5,000, Add	*6.62*	
		For >5,000 To 10,000, Add	*1.10*	
		For Tin/Copper, Deduct	*-0.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 19 00-0009	SF	0.032" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing	49.55	4.29
		For Steep Roof, Over 6 To 12, Add	*2.57*	
		For 140 MPH Wind Load, Add	*1.68*	
		For Panels <16" Wide, Add	*4.06*	
		For Up To 1,500, Add	*12.39*	
		For >1,500 To 5,000, Add	*7.43*	
		For >5,000 To 10,000, Add	*1.24*	
		For Tin/Copper, Deduct	*-0.82*	
07 61 19 00-0010	SF	0.040" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing	61.94	4.49
		For Steep Roof, Over 6 To 12, Add	*2.69*	
		For 140 MPH Wind Load, Add	*1.96*	
		For Panels <16" Wide, Add	*4.76*	
		For Up To 1,500, Add	*15.49*	
		For >1,500 To 5,000, Add	*9.29*	
		For >5,000 To 10,000, Add	*1.55*	
		For Tin/Copper, Deduct	*-1.06*	

07 62 Sheet Metal Flashing and Trim *(07 60)*

07 62 13 Fabricated Copings *(07 62)*

07 62 13 00-0001 Lead Flashing And Trim *(07 62 13)*

07 62 13 00-0002	SF	2.5 Lb./SF, Sheet Lead Flashing	25.01	6.00
		For Up To 100, Add	*6.25*	
07 62 13 00-0003	SF	4 Lb./SF, Sheet Lead Flashing	32.72	6.00
		For Up To 100, Add	*8.18*	

07 62 13 00-0004 Copper Flashing And Trim *(07 62 13)*

07 62 13 00-0005 Copper Flashing And Trim *(07 62 13 00-0004)*

07 62 13 00-0006	SF	16 Ounce, 0.021" Thick, Copper Flashing And Trim	29.29	5.86
		For Up To 100, Add	*7.32*	
		For >500 To 2,000, Deduct	*-4.04*	
		For >2,000, Deduct	*-4.92*	
		For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	*2.32*	
		For Wrap Around Window Panning, Add	*11.59*	
07 62 13 00-0007	SF	20 Ounce, 0.027" Thick, Copper Flashing And Trim	30.25	6.00
		For Up To 100, Add	*7.56*	
		For >500 To 2,000, Deduct	*-4.17*	
		For >2,000, Deduct	*-5.08*	
		For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	*2.42*	
		For Wrap Around Window Panning, Add	*12.11*	
07 62 13 00-0008	SF	24 Ounce, 0.032" Thick, Copper Flashing And Trim	34.47	6.40
		For Up To 100, Add	*8.62*	
		For >500 To 2,000, Deduct	*-4.74*	
		For >2,000, Deduct	*-5.82*	
		For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	*2.54*	
		For Wrap Around Window Panning, Add	*12.70*	
07 62 13 00-0009	SF	32 Ounce, 0.043" Thick, Copper Flashing And Trim	42.35	6.66
		For Up To 100, Add	*10.59*	
		For >500 To 2,000, Deduct	*-5.77*	
		For >2,000, Deduct	*-7.22*	
		For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	*2.67*	
		For Wrap Around Window Panning, Add	*13.33*	

07 62 13 00-0010 Stainless Steel Flashing And Trim *(07 62 13)*

07 62 13 00-0011 Stainless Steel Flashing And Trim *(07 62 13 00-0010)*

07 62 13 00-0012	SF	32 Gauge, 0.010" Thick, Stainless Steel Flashing And Trim	11.81	3.20
		For Up To 100, Add	*2.95*	
		For Wrap Around Window Panning, Add	*8.23*	
		For Mechanically Keyed Flashing, Add	*1.43*	
07 62 13 00-0013	SF	30 Gauge, 0.0125" Thick, Stainless Steel Flashing And Trim	12.83	3.60
		For Up To 100, Add	*3.21*	
		For Wrap Around Window Panning, Add	*8.36*	
		For Mechanically Keyed Flashing, Add	*1.79*	
07 62 13 00-0014	SF	28 Gauge, 0.0156" Thick, Stainless Steel Flashing And Trim	13.85	3.99
		For Up To 100, Add	*3.46*	
		For Wrap Around Window Panning, Add	*8.49*	
		For Mechanically Keyed Flashing, Add	*2.14*	
07 62 13 00-0015	SF	26 Gauge, 0.0187" Thick, Stainless Steel Flashing And Trim	15.47	4.40
		For Up To 100, Add	*3.87*	
		For Wrap Around Window Panning, Add	*8.77*	
		For Mechanically Keyed Flashing, Add	*2.68*	
07 62 13 00-0016	SF	24 Gauge, 0.025" Thick, Stainless Steel Flashing And Trim	18.19	4.67
		For Up To 100, Add	*4.55*	
		For Wrap Around Window Panning, Add	*9.26*	
		For Mechanically Keyed Flashing, Add	*3.57*	
07 62 13 00-0017	SF	22 Gauge, 0.031" Thick, Stainless Steel Flashing And Trim	19.88	4.90
		For Up To 100, Add	*4.97*	
		For Wrap Around Window Panning, Add	*9.80*	
		For Mechanically Keyed Flashing, Add	*4.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 13 00-0018	SF	20 Gauge, 0.0375" Thick, Stainless Steel Flashing And Trim	21.29	5.20
		For Up To 100, Add	*5.32*	
		For Wrap Around Window Panning, Add	*10.37*	
		For Mechanically Keyed Flashing, Add	*4.37*	
07 62 13 00-0019		Aluminum Flashing And Trim *(07 62 13)*		
07 62 13 00-0020		Aluminum Flashing And Trim *(07 62 13 00-0019)*		
07 62 13 00-0021	SF	0.013" Thick, Mill Finish, Aluminum Flashing And Trim	13.51	4.13
		For Up To 100, Add	*3.38*	
		For Baked Aluminum Colors, Add	*0.43*	
		For Wrap Around Window Panning, Add	*9.19*	
07 62 13 00-0022	SF	0.016" Thick, Mill Finish, Aluminum Flashing And Trim	14.45	4.13
		For Up To 100, Add	*3.61*	
		For Baked Aluminum Colors, Add	*0.53*	
		For Wrap Around Window Panning, Add	*9.19*	
07 62 13 00-0023	SF	0.019" Thick, Mill Finish, Aluminum Flashing And Trim	15.20	4.13
		For Up To 100, Add	*3.80*	
		For Baked Aluminum Colors, Add	*0.60*	
		For Wrap Around Window Panning, Add	*9.19*	
07 62 13 00-0024	SF	0.024" Thick, Mill Finish, Aluminum Flashing And Trim	16.28	4.13
		For Up To 100, Add	*4.07*	
		For Baked Aluminum Colors, Add	*0.71*	
		For Wrap Around Window Panning, Add	*9.19*	
07 62 13 00-0025	SF	0.032" Thick, Mill Finish, Aluminum Flashing And Trim	17.79	4.13
		For Up To 100, Add	*4.45*	
		For Baked Aluminum Colors, Add	*0.86*	
		For Wrap Around Window Panning, Add	*9.19*	
07 62 13 00-0026	SF	0.040" Thick, Mill Finish, Aluminum Flashing And Trim	18.72	4.13
		For Up To 100, Add	*4.68*	
		For Baked Aluminum Colors, Add	*0.95*	
		For Wrap Around Window Panning, Add	*9.19*	
07 62 13 00-0027	SF	0.050" Thick, Mill Finish, Aluminum Flashing And Trim	19.47	4.13
		For Up To 100, Add	*4.87*	
		For Baked Aluminum Colors, Add	*1.03*	
		For Wrap Around Window Panning, Add	*9.19*	
07 62 13 00-0028		Steel Flashing And Trim *(07 62 13)*		
07 62 13 00-0029		Galvanized Steel Flashing And Trim *(07 62 13 00-0028)*		
07 62 13 00-0030	SF	28 Gauge, 0.019" Thick, Galvanized Steel Flashing	13.14	3.99
		For Up To 100, Add	*3.29*	
		For Wrap Around Window Panning, Add	*8.49*	
07 62 13 00-0031	SF	26 Gauge, 0.022" Thick, Galvanized Steel Flashing	13.67	4.40
		For Up To 100, Add	*3.42*	
		For Wrap Around Window Panning, Add	*8.77*	
07 62 13 00-0032	SF	24 Gauge, 0.028" Thick, Galvanized Steel Flashing	14.55	4.67
		For Up To 100, Add	*3.64*	
		For Wrap Around Window Panning, Add	*9.26*	
07 62 13 00-0033	SF	22 Gauge, 0.034" Thick, Galvanized Steel Flashing	15.47	4.90
		For Up To 100, Add	*3.87*	
		For Wrap Around Window Panning, Add	*9.80*	
07 62 13 00-0034	SF	20 Gauge, 0.04" Thick, Galvanized Steel Flashing	16.72	5.20
		For Up To 100, Add	*4.18*	
		For Wrap Around Window Panning, Add	*10.37*	

07 62 19 Fabricated Gravel Stops and Fasciae *(07 62)*

07 62 19 00-0001		Drip Edge *(07 62 19)*		
07 62 19 00-0002		Aluminum Drip Edge *(07 62 19 00-0001)*		
		Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0003		KYNAR 500® Finish, Aluminum Drip Edge *(07 62 19 00-0002)*		
07 62 19 00-0004		0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge *(07 62 19 00-0003)*		
07 62 19 00-0005	LF	Up To 5" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	14.45	2.08
07 62 19 00-0006	LF	>5" To 7" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.95	2.22
07 62 19 00-0007	LF	>7" To 9" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.27	2.49
07 62 19 00-0008	LF	>9" To 12" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	24.33	2.63
07 62 19 00-0009	LF	>12" To 15" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	31.00	2.76
07 62 19 00-0010		0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge *(07 62 19 00-0003)*		
07 62 19 00-0011	LF	Up To 5" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	15.44	2.08
07 62 19 00-0012	LF	>5" To 7" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.05	2.22
07 62 19 00-0013	LF	>7" To 9" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	21.91	2.49
07 62 19 00-0014	LF	>9" To 12" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	26.30	2.63
07 62 19 00-0015	LF	>12" To 15" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	32.86	2.76
07 62 19 00-0016		0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge *(07 62 19 00-0003)*		

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0017	LF	Up To 5" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	16.43	2.08
07 62 19 00-0018	LF	>5" To 7" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.37	2.22
07 62 19 00-0019	LF	>7" To 9" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.50	2.49
07 62 19 00-0020	LF	>9" To 12" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	28.28	2.63
07 62 19 00-0021	LF	>12" To 15" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	35.49	2.76
07 62 19 00-0022		0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge *(07 62 19 00-0003)*		
07 62 19 00-0023	LF	Up To 5" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	18.40	2.08
07 62 19 00-0024	LF	>5" To 7" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.00	2.22
07 62 19 00-0025	LF	>7" To 9" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	26.63	2.49
07 62 19 00-0026	LF	>9" To 12" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	32.22	2.63
07 62 19 00-0027	LF	>12" To 15" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	40.76	2.76
07 62 19 00-0028		0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge *(07 62 19 00-0003)*		
07 62 19 00-0029	LF	Up To 5" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.06	2.08
07 62 19 00-0030	LF	>5" To 7" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.99	2.22
07 62 19 00-0031	LF	>7" To 9" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	27.67	2.49
07 62 19 00-0032	LF	>9" To 12" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	33.54	2.63
07 62 19 00-0033	LF	>12" To 15" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	42.51	2.76
07 62 19 00-0034		0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge *(07 62 19 00-0003)*		
07 62 19 00-0035	LF	Up To 5" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	21.36	2.08
07 62 19 00-0036	LF	>5" To 7" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	26.95	2.22
07 62 19 00-0037	LF	>7" To 9" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	31.29	2.49
07 62 19 00-0038	LF	>9" To 12" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	38.14	2.63
07 62 19 00-0039	LF	>12" To 15" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	48.65	2.76
07 62 19 00-0040		0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge *(07 62 19 00-0003)*		
07 62 19 00-0041	LF	Up To 5" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	24.65	2.08
07 62 19 00-0042	LF	>5" To 7" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	31.33	2.22
07 62 19 00-0043	LF	>7" To 9" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	36.50	2.49
07 62 19 00-0044	LF	>9" To 12" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	44.72	2.63
07 62 19 00-0045	LF	>12" To 15" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	57.43	2.76
07 62 19 00-0046		0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge *(07 62 19 00-0003)*		
07 62 19 00-0047	LF	Up To 5" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	28.60	2.08
07 62 19 00-0048	LF	>5" To 7" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	36.60	2.22
07 62 19 00-0049	LF	>7" To 9" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	42.75	2.49
07 62 19 00-0050	LF	>9" To 12" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	52.62	2.63
07 62 19 00-0051	LF	>12" To 15" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	67.95	2.76
07 62 19 00-0052		Mill Finish, Aluminum Drip Edge *(07 62 19 00-0002)*		
07 62 19 00-0053		0.016" Thick, Mill Finish, Aluminum Drip Edge *(07 62 19 00-0052)*		
07 62 19 00-0054	LF	Up To 5" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	11.90	2.08
07 62 19 00-0055	LF	>5" To 7" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	14.48	2.22
07 62 19 00-0056	LF	>7" To 9" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	16.25	2.49
07 62 19 00-0057	LF	>9" To 12" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	19.22	2.63
07 62 19 00-0058	LF	>12" To 15" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	23.95	2.76
07 62 19 00-0059		0.019" Thick, Mill Finish, Aluminum Drip Edge *(07 62 19 00-0052)*		
07 62 19 00-0060	LF	Up To 5" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	12.58	2.08
07 62 19 00-0061	LF	>5" To 7" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	15.24	2.22
07 62 19 00-0062	LF	>7" To 9" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	17.39	2.49
07 62 19 00-0063	LF	>9" To 12" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	20.58	2.63
07 62 19 00-0064	LF	>12" To 15" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	25.24	2.76
07 62 19 00-0065		0.025" Thick, Mill Finish, Aluminum Drip Edge *(07 62 19 00-0052)*		
07 62 19 00-0066	LF	Up To 5" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	13.26	2.08
07 62 19 00-0067	LF	>5" To 7" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	16.15	2.22
07 62 19 00-0068	LF	>7" To 9" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	18.48	2.49
07 62 19 00-0069	LF	>9" To 12" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	21.95	2.63
07 62 19 00-0070	LF	>12" To 15" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	27.05	2.76
07 62 19 00-0071		0.032" Thick, Mill Finish, Aluminum Drip Edge *(07 62 19 00-0052)*		
07 62 19 00-0072	LF	Up To 5" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge	14.62	2.08
07 62 19 00-0073	LF	>5" To 7" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge	17.96	2.22
07 62 19 00-0074	LF	>7" To 9" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge	20.64	2.49
07 62 19 00-0075	LF	>9" To 12" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge	24.67	2.63
07 62 19 00-0076	LF	>12" To 15" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge	30.68	2.76

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0077		**0.040" Thick, Mill Finish, Aluminum Drip Edge** *(07 62 19 00-0052)*		
07 62 19 00-0078	LF	Up To 5" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge	15.08	2.08
07 62 19 00-0079	LF	>5" To 7" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge	18.64	2.22
07 62 19 00-0080	LF	>7" To 9" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge	21.36	2.49
07 62 19 00-0081	LF	>9" To 12" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge	25.58	2.63
07 62 19 00-0082	LF	>12" To 15" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge	31.89	2.76
07 62 19 00-0083		**0.050" Thick, Mill Finish, Aluminum Drip Edge** *(07 62 19 00-0052)*		
07 62 19 00-0084	LF	Up To 5" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge	16.67	2.08
07 62 19 00-0085	LF	>5" To 7" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge	20.68	2.22
07 62 19 00-0086	LF	>7" To 9" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge	23.85	2.49
07 62 19 00-0087	LF	>9" To 12" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge	28.75	2.63
07 62 19 00-0088	LF	>12" To 15" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge	36.13	2.76
07 62 19 00-0089		**0.063" Thick, Mill Finish, Aluminum Drip Edge** *(07 62 19 00-0052)*		
07 62 19 00-0090	LF	Up To 5" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge	18.93	2.08
07 62 19 00-0091	LF	>5" To 7" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge	23.71	2.22
07 62 19 00-0092	LF	>7" To 9" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge	27.45	2.49
07 62 19 00-0093	LF	>9" To 12" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge	33.29	2.63
07 62 19 00-0094	LF	>12" To 15" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge	42.18	2.76
07 62 19 00-0095		**0.080" Thick, Mill Finish, Aluminum Drip Edge** *(07 62 19 00-0052)*		
07 62 19 00-0096	LF	Up To 5" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge	21.66	2.08
07 62 19 00-0097	LF	>5" To 7" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge	27.34	2.22
07 62 19 00-0098	LF	>7" To 9" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge	31.76	2.49
07 62 19 00-0099	LF	>9" To 12" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge	38.73	2.63
07 62 19 00-0100	LF	>12" To 15" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge	49.44	2.76
07 62 19 00-0101		**Clear Anodized Finish, Aluminum Drip Edge** *(07 62 19 00-0002)*		
07 62 19 00-0102		**0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge** *(07 62 19 00-0101)*		
07 62 19 00-0103	LF	Up To 5" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge	14.95	2.08
07 62 19 00-0104	LF	>5" To 7" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge	18.63	2.22
07 62 19 00-0105	LF	>7" To 9" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge	21.05	2.49
07 62 19 00-0106	LF	>9" To 12" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge	25.32	2.63
07 62 19 00-0107	LF	>12" To 15" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge	32.36	2.76
07 62 19 00-0108		**0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge** *(07 62 19 00-0101)*		
07 62 19 00-0109	LF	Up To 5" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge	15.99	2.08
07 62 19 00-0110	LF	>5" To 7" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge	19.79	2.22
07 62 19 00-0111	LF	>7" To 9" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge	22.79	2.49
07 62 19 00-0112	LF	>9" To 12" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge	27.41	2.63
07 62 19 00-0113	LF	>12" To 15" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge	34.34	2.76
07 62 19 00-0114		**0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge** *(07 62 19 00-0101)*		
07 62 19 00-0115	LF	Up To 5" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge	17.04	2.08
07 62 19 00-0116	LF	>5" To 7" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge	21.18	2.22
07 62 19 00-0117	LF	>7" To 9" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge	24.47	2.49
07 62 19 00-0118	LF	>9" To 12" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge	29.50	2.63
07 62 19 00-0119	LF	>12" To 15" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge	37.13	2.76
07 62 19 00-0120		**0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge** *(07 62 19 00-0101)*		
07 62 19 00-0121	LF	Up To 5" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge	19.13	2.08
07 62 19 00-0122	LF	>5" To 7" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge	23.97	2.22
07 62 19 00-0123	LF	>7" To 9" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge	27.79	2.49
07 62 19 00-0124	LF	>9" To 12" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge	33.68	2.63
07 62 19 00-0125	LF	>12" To 15" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge	42.71	2.76
07 62 19 00-0126		**0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge** *(07 62 19 00-0101)*		
07 62 19 00-0127	LF	Up To 5" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge	19.83	2.08
07 62 19 00-0128	LF	>5" To 7" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge	25.02	2.22
07 62 19 00-0129	LF	>7" To 9" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge	28.89	2.49
07 62 19 00-0130	LF	>9" To 12" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge	35.08	2.63
07 62 19 00-0131	LF	>12" To 15" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge	44.56	2.76
07 62 19 00-0132		**0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge** *(07 62 19 00-0101)*		
07 62 19 00-0133	LF	Up To 5" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge	22.27	2.08
07 62 19 00-0134	LF	>5" To 7" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge	28.16	2.22

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0135	LF	>7" To 9" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge	32.73	2.49
07 62 19 00-0136	LF	>9" To 12" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge	39.96	2.63
07 62 19 00-0137	LF	>12" To 15" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge	51.07	2.76
07 62 19 00-0138		0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge *(07 62 19 00-0101)*		
07 62 19 00-0139	LF	Up To 5" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge	25.76	2.08
07 62 19 00-0140	LF	>5" To 7" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge	32.81	2.22
07 62 19 00-0141	LF	>7" To 9" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge	38.25	2.49
07 62 19 00-0142	LF	>9" To 12" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge	46.93	2.63
07 62 19 00-0143	LF	>12" To 15" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge	60.37	2.76
07 62 19 00-0144		0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge *(07 62 19 00-0101)*		
07 62 19 00-0145	LF	Up To 5" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge	29.94	2.08
07 62 19 00-0146	LF	>5" To 7" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge	38.39	2.22
07 62 19 00-0147	LF	>7" To 9" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge	44.87	2.49
07 62 19 00-0148	LF	>9" To 12" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge	55.30	2.63
07 62 19 00-0149	LF	>12" To 15" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge	71.53	2.76
07 62 19 00-0150		Galvanized Steel Drip Edge *(07 62 19 00-0001)* Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0151		Galvanized Steel Drip Edge *(07 62 19 00-0150)*		
07 62 19 00-0152		26 Gauge, Galvanized Steel Drip Edge *(07 62 19 00-0151)*		
07 62 19 00-0153	LF	Up To 5" Girth, 26 Gauge, Galvanized Steel Drip Edge	13.79	2.08
07 62 19 00-0154	LF	>5" To 7" Girth, 26 Gauge, Galvanized Steel Drip Edge	16.92	2.22
07 62 19 00-0155	LF	>7" To 9" Girth, 26 Gauge, Galvanized Steel Drip Edge	19.32	2.49
07 62 19 00-0156	LF	>9" To 12" Girth, 26 Gauge, Galvanized Steel Drip Edge	23.01	2.63
07 62 19 00-0157	LF	>12" To 15" Girth, 26 Gauge, Galvanized Steel Drip Edge	28.47	2.76
07 62 19 00-0158		24 Gauge, Galvanized Steel Drip Edge *(07 62 19 00-0151)*		
07 62 19 00-0159	LF	Up To 5" Girth, 24 Gauge, Galvanized Steel Drip Edge	14.93	2.08
07 62 19 00-0160	LF	>5" To 7" Girth, 24 Gauge, Galvanized Steel Drip Edge	18.44	2.22
07 62 19 00-0161	LF	>7" To 9" Girth, 24 Gauge, Galvanized Steel Drip Edge	21.12	2.49
07 62 19 00-0162	LF	>9" To 12" Girth, 24 Gauge, Galvanized Steel Drip Edge	25.29	2.63
07 62 19 00-0163	LF	>12" To 15" Girth, 24 Gauge, Galvanized Steel Drip Edge	31.48	2.76
07 62 19 00-0164		KYNAR 500® Finish, Galvanized Steel Drip Edge *(07 62 19 00-0150)*		
07 62 19 00-0165		26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge *(07 62 19 00-0164)*		
07 62 19 00-0166	LF	Up To 5" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	17.20	2.08
07 62 19 00-0167	LF	>5" To 7" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	21.49	2.22
07 62 19 00-0168	LF	>7" To 9" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	24.72	2.49
07 62 19 00-0169	LF	>9" To 12" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	29.81	2.63
07 62 19 00-0170	LF	>12" To 15" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	37.54	2.76
07 62 19 00-0171		24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge *(07 62 19 00-0164)*		
07 62 19 00-0172	LF	Up To 5" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	18.84	2.08
07 62 19 00-0173	LF	>5" To 7" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	23.69	2.22
07 62 19 00-0174	LF	>7" To 9" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	27.32	2.49
07 62 19 00-0175	LF	>9" To 12" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	33.10	2.63
07 62 19 00-0176	LF	>12" To 15" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	41.93	2.76
07 62 19 00-0177		Stainless Steel Drip Edge *(07 62 19 00-0001)* Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0178		26 Gauge, Stainless Steel Drip Edge *(07 62 19 00-0177)*		
07 62 19 00-0179	LF	Up To 5" Girth, 26 Gauge, Stainless Steel Drip Edge	23.47	2.08
07 62 19 00-0180	LF	>5" To 7" Girth, 26 Gauge, Stainless Steel Drip Edge	29.76	2.22
07 62 19 00-0181	LF	>7" To 9" Girth, 26 Gauge, Stainless Steel Drip Edge	34.63	2.49
07 62 19 00-0182	LF	>9" To 12" Girth, 26 Gauge, Stainless Steel Drip Edge	42.37	2.63
07 62 19 00-0183	LF	>12" To 15" Girth, 26 Gauge, Stainless Steel Drip Edge	54.28	2.76
07 62 19 00-0184		24 Gauge, Stainless Steel Drip Edge *(07 62 19 00-0177)*		
07 62 19 00-0185	LF	Up To 5" Girth, 24 Gauge, Stainless Steel Drip Edge	28.90	2.08
07 62 19 00-0186	LF	>5" To 7" Girth, 24 Gauge, Stainless Steel Drip Edge	37.00	2.22
07 62 19 00-0187	LF	>7" To 9" Girth, 24 Gauge, Stainless Steel Drip Edge	43.25	2.49
07 62 19 00-0188	LF	>9" To 12" Girth, 24 Gauge, Stainless Steel Drip Edge	53.22	2.63
07 62 19 00-0189	LF	>12" To 15" Girth, 24 Gauge, Stainless Steel Drip Edge	68.76	2.76
07 62 19 00-0190		22 Gauge, Stainless Steel Drip Edge *(07 62 19 00-0177)*		
07 62 19 00-0191	LF	Up To 5" Girth, 22 Gauge, Stainless Steel Drip Edge	35.29	2.08

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0192	LF	>5" To 7" Girth, 22 Gauge, Stainless Steel Drip Edge	45.51	2.22
07 62 19 00-0193	LF	>7" To 9" Girth, 22 Gauge, Stainless Steel Drip Edge	53.36	2.49
07 62 19 00-0194	LF	>9" To 12" Girth, 22 Gauge, Stainless Steel Drip Edge	65.99	2.63
07 62 19 00-0195	LF	>12" To 15" Girth, 22 Gauge, Stainless Steel Drip Edge	85.79	2.76

07 63 Sheet Metal Roofing Specialties *(07 60)*

07 63 00 00-0001 Pitch Pockets *(07 63)*

Note: Cut into deck, filled with non-shrink grout, includes blocking.

07 63 00 00-0002 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pockets *(07 63 00 00-0001)*

07 63 00 00-0003	EA	4" x 4" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	102.60
		For Pourable Sealer Filled, Add	*41.63*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*20.82*
07 63 00 00-0004	EA	6" x 6" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	123.94
		For Pourable Sealer Filled, Add	*93.71*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*46.98*
07 63 00 00-0005	EA	8" x 8" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	150.94
		For Pourable Sealer Filled, Add	*166.50*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*83.06*
07 63 00 00-0006	EA	8" x 10" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	165.44
		For Pourable Sealer Filled, Add	*208.13*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*104.40*
07 63 00 00-0007	EA	8" x 12" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	179.24
		For Pourable Sealer Filled, Add	*249.76*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*124.90*
07 63 00 00-0008	SF	24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	210.26
		For Pourable Sealer Filled, Add	*374.63*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*186.16*

07 63 00 00-0009 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pockets *(07 63 00 00-0001)*

07 63 00 00-0010	EA	4" x 4" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	100.14
		For Pourable Sealer Filled, Add	*41.63*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*20.82*
07 63 00 00-0011	EA	6" x 6" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	120.72
		For Pourable Sealer Filled, Add	*93.71*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*46.98*
07 63 00 00-0012	EA	8" x 8" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	147.73
		For Pourable Sealer Filled, Add	*166.50*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*83.06*
07 63 00 00-0013	EA	8" x 10" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	164.99
		For Pourable Sealer Filled, Add	*208.13*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*104.40*
07 63 00 00-0014	EA	8" x 12" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	178.25
		For Pourable Sealer Filled, Add	*249.76*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*124.90*
07 63 00 00-0015	SF	16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	209.42
		For Pourable Sealer Filled, Add	*374.63*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*186.16*

07 63 00 00-0016 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pockets *(07 63 00 00-0001)*

07 63 00 00-0017	EA	4" x 4" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	129.44
		For Pourable Sealer Filled, Add	*41.63*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*20.82*
07 63 00 00-0018	EA	6" x 6" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	154.09
		For Pourable Sealer Filled, Add	*93.71*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*46.98*
07 63 00 00-0019	EA	8" x 8" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	177.52
		For Pourable Sealer Filled, Add	*166.50*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*83.06*
07 63 00 00-0020	EA	8" x 10" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	191.35
		For Pourable Sealer Filled, Add	*208.13*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*104.40*
07 63 00 00-0021	EA	8" x 12" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	204.30
		For Pourable Sealer Filled, Add	*249.76*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*124.90*
07 63 00 00-0022	SF	24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	233.25
		For Pourable Sealer Filled, Add	*374.63*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*186.16*

07 63 00 00-0023 Clean, Repair And Refill Existing Pitch Pockets With Non-Shrink Grout *(07 63 00 00-0001)*

Note: Includes removing existing filler and refilling with non-shrink grout.

07 63 00 00-0024	EA	Clean, Repair And Refill Existing 4" x 4" Pitch Pocket With Non-Shrink Grout	90.52
		For Pourable Sealer Filled, Add	*41.63*
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*20.82*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 63 00 00-0025	EA	Clean, Repair And Refill Existing 6" x 6" Pitch Pocket With Non-Shrink Grout	103.10	
		For Pourable Sealer Filled, Add	*93.71*	
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*46.98*	
07 63 00 00-0026	EA	Clean, Repair And Refill Existing 8" x 8" Pitch Pocket With Non-Shrink Grout	119.74	
		For Pourable Sealer Filled, Add	*166.50*	
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*83.06*	
07 63 00 00-0027	EA	Clean, Repair And Refill Existing 8" x 10" Pitch Pocket With Non-Shrink Grout	130.40	
		For Pourable Sealer Filled, Add	*208.13*	
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*104.40*	
07 63 00 00-0028	EA	Clean, Repair And Refill Existing 8" x 12" Pitch Pocket With Non-Shrink Grout	141.06	
		For Pourable Sealer Filled, Add	*249.76*	
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*124.90*	
07 63 00 00-0029	SF	Clean, Repair And Refill Existing Pitch Pocket With Non-Shrink Grout	167.53	
		For Pourable Sealer Filled, Add	*374.63*	
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	*186.16*	

07 63 00 00-0030 Lead Pipe Flashing For Roofs *(07 63)*

Note: Includes 6" skirt base.

07 63 00 00-0031	EA	1-1/4" ID x 12" Riser Pipe, 4 Lb. Lead Pipe Flashing For Roofs, Fits 3/4" Diameter Pipe	101.98	34.18
07 63 00 00-0032	EA	1-1/2" ID x 12" Riser Pipe, 4 Lb. Lead Pipe Flashing For Roofs, Fits 1" Diameter Pipe	101.98	34.18
07 63 00 00-0033	EA	2-3/4" ID x 12" Riser Pipe, 4 Lb. Lead Pipe Flashing For Roofs, Fits 2" Diameter Pipe	120.83	34.18
07 63 00 00-0034	EA	3-3/4" ID x 12" Riser Pipe, 4 Lb. Lead Pipe Flashing For Roofs, Fits 3" Diameter Pipe	131.60	34.18
07 63 00 00-0035	EA	4-1/4" ID x 12" Riser Pipe, 4 Lb. Lead Pipe Flashing For Roofs, Fits 3-1/2" Diameter Pipe	136.98	34.18
07 63 00 00-0036	EA	4-3/4" ID x 12" Riser Pipe, 4 Lb. Lead Pipe Flashing For Roofs, Fits 4" Diameter Pipe	139.68	34.18
07 63 00 00-0037	EA	6-7/8" ID x 12" Riser Pipe, 4 Lb. Lead Pipe Flashing For Roofs, Fits 6" Diameter Pipe	166.60	34.18
07 63 00 00-0038	EA	8-7/8" ID x 12" Riser Pipe, 4 Lb. Lead Pipe Flashing For Roofs, Fits 8" Diameter Pipe	178.72	34.18

07 63 00 00-0039 Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing *(07 63)*

07 63 00 00-0040	EA	2" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing	87.13	22.09
07 63 00 00-0041	EA	3" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing	88.29	22.09
07 63 00 00-0042	EA	4" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing	92.49	22.09
07 63 00 00-0043	EA	6" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing	96.10	22.09

07 65 Flexible Flashing *(07 60)*

07 65 16 Modified Bituminous Sheet Flashing *(07 65)*

07 65 16 00-0001 Liquid Flashing System For Modified And BUR Systems *(07 65 16)*

07 65 16 00-0002	SF	60 Mil, Urethane Elastomer Liquid Applied Flashing Note: Includes applying a 30 mil base coat, rolling in a stichbonded polyester reinforcing scrim and applying a 30 mil second coat.	16.71	2.61

07 65 19 Plastic Sheet Flashing *(07 65)*

07 65 19 00-0001 Plastic Flashing And Trim *(07 65 19)*

07 65 19 00-0002 Neoprene Flashing *(07 65 19 00-0001)*

07 65 19 00-0003 60 Mil Thick *(07 65 19 00-0002)*

07 65 19 00-0004	LF	6" Wide Strip, 60 Mil, Neoprene Flashing	11.32	3.72
07 65 19 00-0005	LF	12" Wide Strip, 60 Mil, Neoprene Flashing	14.82	3.99
07 65 19 00-0006	LF	18" Wide Strip, 60 Mil, Neoprene Flashing	18.75	4.40
07 65 19 00-0007	LF	24" Wide Strip, 60 Mil, Neoprene Flashing	22.91	4.96

07 65 33 Flexible Roof Boot *(07 65)*

07 65 33 00-0001 Neoprene Roof Boot *(07 65 33)*

07 65 33 00-0002	EA	2" Diameter Pipe, Neoprene Roof Boot	49.09	11.43
07 65 33 00-0003	EA	3" Diameter Pipe, Neoprene Roof Boot	57.29	12.80
07 65 33 00-0004	EA	4" Diameter Pipe, Neoprene Roof Boot	63.30	13.77

07 70 Roof and Wall Specialties and Accessories *(07)*

07 71 Roof Specialties *(07 70)*

07 71 13 Manufactured Copings *(07 71)*

07 71 13 00-0001 Galvanized Steel Copings *(07 71 13)*

07 71 13 00-0002 KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats *(07 71 13 00-0001)*

Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0003	LF	10" To 14" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	36.85	2.98
		For Up To 25 LF, Add	*5.68*	
		For >25 To 100 LF, Add	*2.84*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0004	LF	>14" To 16" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	38.90	3.24
		For Up To 25 LF, Add	*6.05*	
		For >25 To 100 LF, Add	*3.02*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0005	LF	>16" To 22" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	44.29	3.41
		For Up To 25 LF, Add	*6.70*	
		For >25 To 100 LF, Add	*3.35*	
		For >1,000 LF, Deduct	*-0.57*	
07 71 13 00-0006	LF	>22" To 30" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	51.39	3.74
		For Up To 25 LF, Add	*7.63*	
		For >25 To 100 LF, Add	*3.82*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0007	LF	>30" To 42" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	61.94	3.90
		For Up To 25 LF, Add	*8.79*	
		For >25 To 100 LF, Add	*4.40*	
		For >1,000 LF, Deduct	*-0.65*	

07 71 13 00-0008 Aluminum Copings *(07 71 13)*

07 71 13 00-0009 Mill Finish, Aluminum Coping System With Galvanized Steel Cleats *(07 71 13 00-0008)*

Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.

07 71 13 00-0010 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats *(07 71 13 00-0009)*

07 71 13 00-0011	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	29.41	2.98
		For Up To 25 LF, Add	*4.93*	
		For >25 To 100 LF, Add	*2.47*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0012	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	31.41	3.24
		For Up To 25 LF, Add	*5.30*	
		For >25 To 100 LF, Add	*2.65*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0013	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	36.53	3.41
		For Up To 25 LF, Add	*5.93*	
		For >25 To 100 LF, Add	*2.96*	
		For >1,000 LF, Deduct	*-0.57*	
07 71 13 00-0014	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	43.52	3.74
		For Up To 25 LF, Add	*6.84*	
		For >25 To 100 LF, Add	*3.42*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0015	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	53.87	3.90
		For Up To 25 LF, Add	*7.99*	
		For >25 To 100 LF, Add	*3.99*	
		For >1,000 LF, Deduct	*-0.65*	

07 71 13 00-0016 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats *(07 71 13 00-0009)*

07 71 13 00-0017	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	31.86	2.98
		For Up To 25 LF, Add	*5.18*	
		For >25 To 100 LF, Add	*2.59*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0018	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	34.01	3.24
		For Up To 25 LF, Add	*5.56*	
		For >25 To 100 LF, Add	*2.78*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0019	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	39.61	3.41
		For Up To 25 LF, Add	*6.23*	
		For >25 To 100 LF, Add	*3.12*	
		For >1,000 LF, Deduct	*-0.57*	
07 71 13 00-0020	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	47.25	3.74
		For Up To 25 LF, Add	*7.22*	
		For >25 To 100 LF, Add	*3.61*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0021	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	58.61	3.90
		For Up To 25 LF, Add	*8.46*	
		For >25 To 100 LF, Add	*4.23*	
		For >1,000 LF, Deduct	*-0.65*	

07 71 13 00-0022 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats *(07 71 13 00-0009)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0023	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	33.87	2.98
		For Up To 25 LF, Add	*5.38*	
		For >25 To 100 LF, Add	*2.69*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0024	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	36.33	3.24
		For Up To 25 LF, Add	*5.79*	
		For >25 To 100 LF, Add	*2.89*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0025	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	43.45	3.41
		For Up To 25 LF, Add	*6.62*	
		For >25 To 100 LF, Add	*3.31*	
		For >1,000 LF, Deduct	*-0.57*	
07 71 13 00-0026	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	54.12	3.74
		For Up To 25 LF, Add	*7.90*	
		For >25 To 100 LF, Add	*3.95*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0027	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	69.73	3.90
		For Up To 25 LF, Add	*9.57*	
		For >25 To 100 LF, Add	*4.79*	
		For >1,000 LF, Deduct	*-0.65*	

07 71 13 00-0028 KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats *(07 71 13 00-0008)*

Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.

07 71 13 00-0029 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats *(07 71 13 00-0028)*

07 71 13 00-0030	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	40.41	2.98
		For Up To 25 LF, Add	*6.03*	
		For >25 To 100 LF, Add	*3.02*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0031	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	43.12	3.24
		For Up To 25 LF, Add	*6.47*	
		For >25 To 100 LF, Add	*3.23*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0032	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	50.41	3.41
		For Up To 25 LF, Add	*7.31*	
		For >25 To 100 LF, Add	*3.66*	
		For >1,000 LF, Deduct	*-0.57*	
07 71 13 00-0033	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	60.30	3.74
		For Up To 25 LF, Add	*8.52*	
		For >25 To 100 LF, Add	*4.26*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0034	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	75.19	3.90
		For Up To 25 LF, Add	*10.12*	
		For >25 To 100 LF, Add	*5.06*	
		For >1,000 LF, Deduct	*-0.65*	

07 71 13 00-0035 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats *(07 71 13 00-0028)*

07 71 13 00-0036	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	43.95	2.98
		For Up To 25 LF, Add	*6.39*	
		For >25 To 100 LF, Add	*3.19*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0037	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	46.89	3.24
		For Up To 25 LF, Add	*6.85*	
		For >25 To 100 LF, Add	*3.42*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0038	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	54.88	3.41
		For Up To 25 LF, Add	*7.76*	
		For >25 To 100 LF, Add	*3.88*	
		For >1,000 LF, Deduct	*-0.57*	
07 71 13 00-0039	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	65.71	3.74
		For Up To 25 LF, Add	*9.06*	
		For >25 To 100 LF, Add	*4.53*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0040	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	82.06	3.90
		For Up To 25 LF, Add	*10.81*	
		For >25 To 100 LF, Add	*5.40*	
		For >1,000 LF, Deduct	*-0.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0041		**0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats** *(07 71 13 00-0028)*		
07 71 13 00-0042	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	46.86	2.98
		For Up To 25 LF, Add	*6.68*	
		For >25 To 100 LF, Add	*3.34*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0043	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	50.26	3.24
		For Up To 25 LF, Add	*7.18*	
		For >25 To 100 LF, Add	*3.59*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0044	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	60.44	3.41
		For Up To 25 LF, Add	*8.32*	
		For >25 To 100 LF, Add	*4.16*	
		For >1,000 LF, Deduct	*-0.57*	
07 71 13 00-0045	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	75.68	3.74
		For Up To 25 LF, Add	*10.06*	
		For >25 To 100 LF, Add	*5.03*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0046	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	98.19	3.90
		For Up To 25 LF, Add	*12.42*	
		For >25 To 100 LF, Add	*6.21*	
		For >1,000 LF, Deduct	*-0.65*	
07 71 13 00-0047		**Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats** *(07 71 13 00-0008)*		
		Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0048		**0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats** *(07 71 13 00-0047)*		
07 71 13 00-0049	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	42.53	2.98
		For Up To 25 LF, Add	*6.25*	
		For >25 To 100 LF, Add	*3.12*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0050	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	45.38	3.24
		For Up To 25 LF, Add	*6.69*	
		For >25 To 100 LF, Add	*3.35*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0051	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	53.09	3.41
		For Up To 25 LF, Add	*7.58*	
		For >25 To 100 LF, Add	*3.79*	
		For >1,000 LF, Deduct	*-0.57*	
07 71 13 00-0052	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	63.55	3.74
		For Up To 25 LF, Add	*8.85*	
		For >25 To 100 LF, Add	*4.42*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0053	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	79.31	3.90
		For Up To 25 LF, Add	*10.53*	
		For >25 To 100 LF, Add	*5.27*	
		For >1,000 LF, Deduct	*-0.65*	
07 71 13 00-0054		**0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats** *(07 71 13 00-0047)*		
07 71 13 00-0055	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	46.29	2.98
		For Up To 25 LF, Add	*6.62*	
		For >25 To 100 LF, Add	*3.31*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0056	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	49.38	3.24
		For Up To 25 LF, Add	*7.09*	
		For >25 To 100 LF, Add	*3.55*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0057	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	57.83	3.41
		For Up To 25 LF, Add	*8.06*	
		For >25 To 100 LF, Add	*4.03*	
		For >1,000 LF, Deduct	*-0.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0058	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	69.28	3.74
		For Up To 25 LF, Add	*9.42*	
		For >25 To 100 LF, Add	*4.71*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0059	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	86.59	3.90
		For Up To 25 LF, Add	*11.26*	
		For >25 To 100 LF, Add	*5.63*	
		For >1,000 LF, Deduct	*-0.65*	

07 71 13 00-0060 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats *(07 71 13 00-0047)*

07 71 13 00-0061	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	49.38	2.98
		For Up To 25 LF, Add	*6.93*	
		For >25 To 100 LF, Add	*3.47*	
		For >1,000 LF, Deduct	*-0.50*	
07 71 13 00-0062	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	52.95	3.24
		For Up To 25 LF, Add	*7.45*	
		For >25 To 100 LF, Add	*3.73*	
		For >1,000 LF, Deduct	*-0.54*	
07 71 13 00-0063	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	63.73	3.41
		For Up To 25 LF, Add	*8.65*	
		For >25 To 100 LF, Add	*4.32*	
		For >1,000 LF, Deduct	*-0.57*	
07 71 13 00-0064	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	79.84	3.74
		For Up To 25 LF, Add	*10.48*	
		For >25 To 100 LF, Add	*5.24*	
		For >1,000 LF, Deduct	*-0.62*	
07 71 13 00-0065	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	103.69	3.90
		For Up To 25 LF, Add	*12.97*	
		For >25 To 100 LF, Add	*6.48*	
		For >1,000 LF, Deduct	*-0.65*	

07 71 19 Manufactured Gravel Stops and Fasciae *(07 71)*

07 71 19 00-0001 Gravel Stop *(07 71 19)*

07 71 19 00-0002 Aluminum Gravel Stop *(07 71 19 00-0001)*

07 71 19 00-0003 Aluminum Gravel Stop *(07 71 19 00-0002)*

07 71 19 00-0004 KYNAR 500® Finish, Aluminum Gravel Stop *(07 71 19 00-0003)*

07 71 19 00-0005 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop *(07 71 19 00-0004)*

07 71 19 00-0006	LF	4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	43.97	2.35
		For Up To 25 LF, Add	*7.17*	
		For >25 To 100 LF, Add	*3.58*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0007	LF	>6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	45.52	2.76
		For Up To 25 LF, Add	*7.82*	
		For >25 To 100 LF, Add	*3.91*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0008	LF	>10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	47.10	3.04
		For Up To 25 LF, Add	*8.41*	
		For >25 To 100 LF, Add	*4.21*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0009 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop *(07 71 19 00-0004)*

07 71 19 00-0010	LF	4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	46.70	2.35
		For Up To 25 LF, Add	*7.44*	
		For >25 To 100 LF, Add	*3.72*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0011	LF	>6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	48.36	2.76
		For Up To 25 LF, Add	*8.10*	
		For >25 To 100 LF, Add	*4.05*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0012	LF	>10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	50.10	3.04
		For Up To 25 LF, Add	*8.71*	
		For >25 To 100 LF, Add	*4.36*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0013 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop *(07 71 19 00-0004)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0014	LF	4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	50.25	2.35
		For Up To 25 LF, Add	*7.79*	
		For >25 To 100 LF, Add	*3.90*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0015	LF	>6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	51.77	2.76
		For Up To 25 LF, Add	*8.45*	
		For >25 To 100 LF, Add	*4.22*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0016	LF	>10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	53.88	3.04
		For Up To 25 LF, Add	*9.09*	
		For >25 To 100 LF, Add	*4.55*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0017 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop *(07 71 19 00-0004)*

07 71 19 00-0018	LF	4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	52.66	2.35
		For Up To 25 LF, Add	*8.03*	
		For >25 To 100 LF, Add	*4.02*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0019	LF	>6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	54.27	2.76
		For Up To 25 LF, Add	*8.70*	
		For >25 To 100 LF, Add	*4.35*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0020	LF	>10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	56.52	3.04
		For Up To 25 LF, Add	*9.36*	
		For >25 To 100 LF, Add	*4.68*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0021 Mill Finish, Aluminum Gravel Stop *(07 71 19 00-0003)*

07 71 19 00-0022 0.032" Thick, Mill Finish, Aluminum Gravel Stop *(07 71 19 00-0021)*

07 71 19 00-0023	LF	4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop	28.85	2.35
		For Up To 25 LF, Add	*5.65*	
		For >25 To 100 LF, Add	*2.83*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0024	LF	>6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop	31.16	2.76
		For Up To 25 LF, Add	*6.38*	
		For >25 To 100 LF, Add	*3.19*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0025	LF	>10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop	33.46	3.04
		For Up To 25 LF, Add	*7.05*	
		For >25 To 100 LF, Add	*3.53*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0026 0.040" Thick, Mill Finish, Aluminum Gravel Stop *(07 71 19 00-0021)*

07 71 19 00-0027	LF	4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop	31.12	2.35
		For Up To 25 LF, Add	*5.88*	
		For >25 To 100 LF, Add	*2.94*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0028	LF	>6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop	33.13	2.76
		For Up To 25 LF, Add	*6.58*	
		For >25 To 100 LF, Add	*3.29*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0029	LF	>10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop	34.97	3.04
		For Up To 25 LF, Add	*7.20*	
		For >25 To 100 LF, Add	*3.60*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0030 0.050" Thick, Mill Finish, Aluminum Gravel Stop *(07 71 19 00-0021)*

07 71 19 00-0031	LF	4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop	33.39	2.35
		For Up To 25 LF, Add	*6.11*	
		For >25 To 100 LF, Add	*3.05*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0032	LF	>6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop	35.39	2.76
		For Up To 25 LF, Add	*6.81*	
		For >25 To 100 LF, Add	*3.40*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0033	LF	>10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop	37.43	3.04
		For Up To 25 LF, Add	*7.45*	
		For >25 To 100 LF, Add	*3.72*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0034 0.063" Thick, Mill Finish, Aluminum Gravel Stop *(07 71 19 00-0021)*

07 71 19 00-0035	LF	4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	35.85	2.35
		For Up To 25 LF, Add	*6.35*	
		For >25 To 100 LF, Add	*3.18*	
		For >1,000 LF, Deduct	*-0.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0036	LF	>6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	37.66	2.76
		For Up To 25 LF, Add	*7.03*	
		For >25 To 100 LF, Add	*3.52*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0037	LF	>10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	39.25	3.04
		For Up To 25 LF, Add	*7.63*	
		For >25 To 100 LF, Add	*3.81*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0038 Clear Anodized Finish, Aluminum Gravel Stop *(07 71 19 00-0003)*

07 71 19 00-0039 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop *(07 71 19 00-0038)*

07 71 19 00-0040	LF	4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	52.36	2.35
		For Up To 25 LF, Add	*8.00*	
		For >25 To 100 LF, Add	*4.00*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0041	LF	>6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	54.27	2.76
		For Up To 25 LF, Add	*8.70*	
		For >25 To 100 LF, Add	*4.35*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0042	LF	>10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	55.97	3.04
		For Up To 25 LF, Add	*9.30*	
		For >25 To 100 LF, Add	*4.65*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0043 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop *(07 71 19 00-0038)*

07 71 19 00-0044	LF	4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	55.64	2.35
		For Up To 25 LF, Add	*8.33*	
		For >25 To 100 LF, Add	*4.17*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0045	LF	>6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	57.69	2.76
		For Up To 25 LF, Add	*9.04*	
		For >25 To 100 LF, Add	*4.52*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0046	LF	>10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	59.55	3.04
		For Up To 25 LF, Add	*9.66*	
		For >25 To 100 LF, Add	*4.83*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0047 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop *(07 71 19 00-0038)*

07 71 19 00-0048	LF	4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	59.90	2.35
		For Up To 25 LF, Add	*8.76*	
		For >25 To 100 LF, Add	*4.38*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0049	LF	>6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	61.77	2.76
		For Up To 25 LF, Add	*9.45*	
		For >25 To 100 LF, Add	*4.72*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0050	LF	>10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	63.33	3.04
		For Up To 25 LF, Add	*10.04*	
		For >25 To 100 LF, Add	*5.02*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0051 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop *(07 71 19 00-0038)*

07 71 19 00-0052	LF	4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	62.80	2.35
		For Up To 25 LF, Add	*9.05*	
		For >25 To 100 LF, Add	*4.52*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0053	LF	>6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	64.77	2.76
		For Up To 25 LF, Add	*9.75*	
		For >25 To 100 LF, Add	*4.87*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0054	LF	>10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	66.45	3.04
		For Up To 25 LF, Add	*10.35*	
		For >25 To 100 LF, Add	*5.17*	
		For >1,000 LF, Deduct	*-0.93*	

07 71 19 00-0055 Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0002)*

Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.

07 71 19 00-0056 KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0055)*

07 71 19 00-0057 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0056)*

07 71 19 00-0058	LF	4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	49.58	2.49
		For Up To 25 LF, Add	*8.00*	
		For >25 To 100 LF, Add	*4.00*	
		For >1,000 LF, Deduct	*-0.76*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0059	LF	>6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	52.77	2.97
		For Up To 25 LF, Add	*8.87*	
		For >25 To 100 LF, Add	*4.44*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0060	LF	>10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	56.39	3.39
		For Up To 25 LF, Add	*9.73*	
		For >25 To 100 LF, Add	*4.87*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0061		0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0056)*		
07 71 19 00-0062	LF	4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	52.30	2.49
		For Up To 25 LF, Add	*8.27*	
		For >25 To 100 LF, Add	*4.14*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0063	LF	>6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	55.61	2.97
		For Up To 25 LF, Add	*9.16*	
		For >25 To 100 LF, Add	*4.58*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0064	LF	>10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	59.39	3.39
		For Up To 25 LF, Add	*10.03*	
		For >25 To 100 LF, Add	*5.02*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0065		0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0056)*		
07 71 19 00-0066	LF	4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	55.86	2.49
		For Up To 25 LF, Add	*8.63*	
		For >25 To 100 LF, Add	*4.32*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0067	LF	>6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	59.02	2.97
		For Up To 25 LF, Add	*9.50*	
		For >25 To 100 LF, Add	*4.75*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0068	LF	>10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	63.17	3.39
		For Up To 25 LF, Add	*10.41*	
		For >25 To 100 LF, Add	*5.20*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0069		0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0056)*		
07 71 19 00-0070	LF	4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	58.27	2.49
		For Up To 25 LF, Add	*8.87*	
		For >25 To 100 LF, Add	*4.44*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0071	LF	>6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	61.52	2.97
		For Up To 25 LF, Add	*9.75*	
		For >25 To 100 LF, Add	*4.87*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0072	LF	>10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	65.81	3.39
		For Up To 25 LF, Add	*10.67*	
		For >25 To 100 LF, Add	*5.34*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0073		Mill Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0055)*		
07 71 19 00-0074		0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0073)*		
07 71 19 00-0075	LF	4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	36.55	2.49
		For Up To 25 LF, Add	*6.70*	
		For >25 To 100 LF, Add	*3.35*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0076	LF	>6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	39.18	2.97
		For Up To 25 LF, Add	*7.51*	
		For >25 To 100 LF, Add	*3.76*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0077	LF	>10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	42.18	3.39
		For Up To 25 LF, Add	*8.31*	
		For >25 To 100 LF, Add	*4.16*	
		For >1,000 LF, Deduct	*-1.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0078		0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0073)*		
07 71 19 00-0079	LF	4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	38.43	2.49
		For Up To 25 LF, Add	*6.89*	
		For >25 To 100 LF, Add	*3.44*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0080	LF	>6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	41.14	2.97
		For Up To 25 LF, Add	*7.71*	
		For >25 To 100 LF, Add	*3.86*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0081	LF	>10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	44.26	3.39
		For Up To 25 LF, Add	*8.52*	
		For >25 To 100 LF, Add	*4.26*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0082		0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0073)*		
07 71 19 00-0083	LF	4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	40.88	2.49
		For Up To 25 LF, Add	*7.13*	
		For >25 To 100 LF, Add	*3.57*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0084	LF	>6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	43.49	2.97
		For Up To 25 LF, Add	*7.95*	
		For >25 To 100 LF, Add	*3.97*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0085	LF	>10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	46.72	3.39
		For Up To 25 LF, Add	*8.76*	
		For >25 To 100 LF, Add	*4.38*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0086		0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0073)*		
07 71 19 00-0087	LF	4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	42.55	2.49
		For Up To 25 LF, Add	*7.30*	
		For >25 To 100 LF, Add	*3.65*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0088	LF	>6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	45.22	2.97
		For Up To 25 LF, Add	*8.12*	
		For >25 To 100 LF, Add	*4.06*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0089	LF	>10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	48.54	3.39
		For Up To 25 LF, Add	*8.95*	
		For >25 To 100 LF, Add	*4.47*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0090		Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0055)*		
07 71 19 00-0091		0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0090)*		
07 71 19 00-0092	LF	4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	57.97	2.49
		For Up To 25 LF, Add	*8.84*	
		For >25 To 100 LF, Add	*4.42*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0093	LF	>6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	61.52	2.97
		For Up To 25 LF, Add	*9.75*	
		For >25 To 100 LF, Add	*4.87*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0094	LF	>10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	65.26	3.39
		For Up To 25 LF, Add	*10.62*	
		For >25 To 100 LF, Add	*5.31*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0095		0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat *(07 71 19 00-0090)*		
07 71 19 00-0096	LF	4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	61.24	2.49
		For Up To 25 LF, Add	*9.17*	
		For >25 To 100 LF, Add	*4.58*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0097	LF	>6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	64.94	2.97
		For Up To 25 LF, Add	*10.09*	
		For >25 To 100 LF, Add	*5.05*	
		For >1,000 LF, Deduct	*-0.90*	

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07 71 19 00-0098	LF	>10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	68.84	3.39
		For Up To 25 LF, Add	*10.98*	
		For >25 To 100 LF, Add	*5.49*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0099		**0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat** *(07 71 19 00-0090)*		
07 71 19 00-0100	LF	4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	65.51	2.49
		For Up To 25 LF, Add	*9.60*	
		For >25 To 100 LF, Add	*4.80*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0101	LF	>6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	69.02	2.97
		For Up To 25 LF, Add	*10.50*	
		For >25 To 100 LF, Add	*5.25*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0102	LF	>10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	72.62	3.39
		For Up To 25 LF, Add	*11.35*	
		For >25 To 100 LF, Add	*5.68*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0103		**0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat** *(07 71 19 00-0090)*		
07 71 19 00-0104	LF	4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	68.40	2.49
		For Up To 25 LF, Add	*9.88*	
		For >25 To 100 LF, Add	*4.94*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0105	LF	>6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	72.02	2.97
		For Up To 25 LF, Add	*10.80*	
		For >25 To 100 LF, Add	*5.40*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0106	LF	>10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	75.74	3.39
		For Up To 25 LF, Add	*11.67*	
		For >25 To 100 LF, Add	*5.83*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0107		**Stainless Steel Gravel Stop** *(07 71 19 00-0001)*		
07 71 19 00-0108		**Stainless Steel Gravel Stop** *(07 71 19 00-0107)*		
07 71 19 00-0109		**26 Gauge, Stainless Steel Gravel Stop** *(07 71 19 00-0108)*		
07 71 19 00-0110	LF	4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop	42.15	2.35
		For Up To 25 LF, Add	*6.98*	
		For >25 To 100 LF, Add	*3.49*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0111	LF	>6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop	55.32	2.76
		For Up To 25 LF, Add	*8.80*	
		For >25 To 100 LF, Add	*4.40*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0112	LF	>10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop	81.85	3.04
		For Up To 25 LF, Add	*11.89*	
		For >25 To 100 LF, Add	*5.94*	
		For >1,000 LF, Deduct	*-0.93*	
07 71 19 00-0113		**24 Gauge, Stainless Steel Gravel Stop** *(07 71 19 00-0108)*		
07 71 19 00-0114	LF	4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop	52.37	2.35
		For Up To 25 LF, Add	*8.01*	
		For >25 To 100 LF, Add	*4.00*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0115	LF	>6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop	68.94	2.76
		For Up To 25 LF, Add	*10.16*	
		For >25 To 100 LF, Add	*5.08*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0116	LF	>10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop	102.28	3.04
		For Up To 25 LF, Add	*13.93*	
		For >25 To 100 LF, Add	*6.97*	
		For >1,000 LF, Deduct	*-0.93*	
07 71 19 00-0117		**22 Gauge, Stainless Steel Gravel Stop** *(07 71 19 00-0108)*		
07 71 19 00-0118	LF	4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop	63.22	2.35
		For Up To 25 LF, Add	*9.09*	
		For >25 To 100 LF, Add	*4.55*	
		For >1,000 LF, Deduct	*-0.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0119	LF	>6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop	83.42	2.76
		For Up To 25 LF, Add	*11.61*	
		For >25 To 100 LF, Add	*5.81*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0120	LF	>10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop	124.00	3.04
		For Up To 25 LF, Add	*16.10*	
		For >25 To 100 LF, Add	*8.05*	
		For >1,000 LF, Deduct	*-0.93*	
07 71 19 00-0121		Stainless Steel Gravel Stop System With Continuous Cleat *(07 71 19 00-0107)*		
		Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0122		26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat *(07 71 19 00-0121)*		
07 71 19 00-0123	LF	4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	49.76	2.49
		For Up To 25 LF, Add	*8.02*	
		For >25 To 100 LF, Add	*4.01*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0124	LF	>6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	65.19	2.97
		For Up To 25 LF, Add	*10.12*	
		For >25 To 100 LF, Add	*5.06*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0125	LF	>10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	94.53	3.39
		For Up To 25 LF, Add	*13.55*	
		For >25 To 100 LF, Add	*6.77*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0126		24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat *(07 71 19 00-0121)*		
07 71 19 00-0127	LF	4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	59.98	2.49
		For Up To 25 LF, Add	*9.04*	
		For >25 To 100 LF, Add	*4.52*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0128	LF	>6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	78.81	2.97
		For Up To 25 LF, Add	*11.48*	
		For >25 To 100 LF, Add	*5.74*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0129	LF	>10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	114.96	3.39
		For Up To 25 LF, Add	*15.59*	
		For >25 To 100 LF, Add	*7.79*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0130		22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat *(07 71 19 00-0121)*		
07 71 19 00-0131	LF	4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	70.83	2.49
		For Up To 25 LF, Add	*10.13*	
		For >25 To 100 LF, Add	*5.06*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0132	LF	>6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	93.29	2.97
		For Up To 25 LF, Add	*12.93*	
		For >25 To 100 LF, Add	*6.46*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0133	LF	>10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	136.68	3.39
		For Up To 25 LF, Add	*17.76*	
		For >25 To 100 LF, Add	*8.88*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0134		Galvanized Steel Gravel Stop *(07 71 19 00-0001)*		
07 71 19 00-0135		Galvanized Steel Gravel Stop *(07 71 19 00-0134)*		
07 71 19 00-0136		KYNAR 500® Finish, Galvanized Steel Gravel Stop *(07 71 19 00-0135)*		
07 71 19 00-0137		24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop *(07 71 19 00-0136)*		
07 71 19 00-0138	LF	4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop	40.37	2.35
		For Up To 25 LF, Add	*6.81*	
		For >25 To 100 LF, Add	*3.40*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0139	LF	>6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop	41.85	2.76
		For Up To 25 LF, Add	*7.45*	
		For >25 To 100 LF, Add	*3.73*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0140	LF	>10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop	43.60	3.04
		For Up To 25 LF, Add	*8.06*	
		For >25 To 100 LF, Add	*4.03*	
		For >1,000 LF, Deduct	*-0.93*	
07 71 19 00-0141		Galvanized Steel Gravel Stop System With Continuous Cleat *(07 71 19 00-0134)*		
		Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0142		KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat *(07 71 19 00-0141)*		

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0143		24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat *(07 71 19 00-0142)*		
07 71 19 00-0144	LF	4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat	46.13	2.49
		For Up To 25 LF, Add	*7.66*	
		For >25 To 100 LF, Add	*3.83*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0145	LF	>6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat	49.30	2.97
		For Up To 25 LF, Add	*8.53*	
		For >25 To 100 LF, Add	*4.26*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0146	LF	>10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat	53.16	3.39
		For Up To 25 LF, Add	*9.41*	
		For >25 To 100 LF, Add	*4.70*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0147		Copper Gravel Stop *(07 71 19 00-0001)*		
07 71 19 00-0148		Copper Gravel Stop *(07 71 19 00-0147)*		
07 71 19 00-0149		20 Ounce, Copper Gravel Stop *(07 71 19 00-0148)*		
07 71 19 00-0150	LF	4" To 6" Face Height, 20 Ounce, Copper Gravel Stop	67.22	2.35
		For Up To 25 LF, Add	*9.49*	
		For >25 To 100 LF, Add	*4.75*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0151	LF	>6" To 10" Face Height, 20 Ounce, Copper Gravel Stop	76.98	2.76
		For Up To 25 LF, Add	*10.97*	
		For >25 To 100 LF, Add	*5.48*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0152	LF	>10" To 18" Face Height, 20 Ounce, Copper Gravel Stop	88.91	3.04
		For Up To 25 LF, Add	*12.60*	
		For >25 To 100 LF, Add	*6.30*	
		For >1,000 LF, Deduct	*-0.93*	
07 71 19 00-0153		16 Ounce, Copper Gravel Stop *(07 71 19 00-0148)*		
07 71 19 00-0154	LF	4" To 6" Face Height, 16 Ounce, Copper Gravel Stop	81.52	2.35
		For Up To 25 LF, Add	*10.92*	
		For >25 To 100 LF, Add	*5.46*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0155	LF	>6" To 10" Face Height, 16 Ounce, Copper Gravel Stop	94.46	2.76
		For Up To 25 LF, Add	*12.71*	
		For >25 To 100 LF, Add	*6.36*	
		For >1,000 LF, Deduct	*-0.82*	
07 71 19 00-0156	LF	>10" To 18" Face Height, 16 Ounce, Copper Gravel Stop	107.98	3.04
		For Up To 25 LF, Add	*14.50*	
		For >25 To 100 LF, Add	*7.25*	
		For >1,000 LF, Deduct	*-0.93*	
07 71 19 00-0157		Copper Gravel Stop System With Continuous Cleat *(07 71 19 00-0147)* Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0158		20 Ounce, Copper Gravel Stop System With Continuous Cleat *(07 71 19 00-0157)*		
07 71 19 00-0159	LF	4" To 6" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	69.97	2.49
		For Up To 25 LF, Add	*10.04*	
		For >25 To 100 LF, Add	*5.02*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0160	LF	>6" To 10" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	80.50	2.97
		For Up To 25 LF, Add	*11.65*	
		For >25 To 100 LF, Add	*5.82*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0161	LF	>10" To 18" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	93.38	3.39
		For Up To 25 LF, Add	*13.43*	
		For >25 To 100 LF, Add	*6.72*	
		For >1,000 LF, Deduct	*-1.02*	
07 71 19 00-0162		16 Ounce, Copper Gravel Stop System With Continuous Cleat *(07 71 19 00-0157)*		
07 71 19 00-0163	LF	4" To 6" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	84.27	2.49
		For Up To 25 LF, Add	*11.47*	
		For >25 To 100 LF, Add	*5.74*	
		For >1,000 LF, Deduct	*-0.76*	
07 71 19 00-0164	LF	>6" To 10" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	97.99	2.97
		For Up To 25 LF, Add	*13.40*	
		For >25 To 100 LF, Add	*6.70*	
		For >1,000 LF, Deduct	*-0.90*	
07 71 19 00-0165	LF	>10" To 18" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	112.45	3.39
		For Up To 25 LF, Add	*15.34*	
		For >25 To 100 LF, Add	*7.67*	
		For >1,000 LF, Deduct	*-1.02*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0166		Fascia *(07 71 19)*		
07 71 19 00-0167		Snap-On Cover Fascia *(07 71 19 00-0166)* Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0168		Galvanized Steel Snap-On Cover Fascia *(07 71 19 00-0167)*		
07 71 19 00-0169		KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia *(07 71 19 00-0168)*		
07 71 19 00-0170		24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia *(07 71 19 00-0169)*		
07 71 19 00-0171	LF	3" To 5" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat	49.24	3.46
		For Up To 25 LF, Add	*7.69*	
		For >25 To 100 LF, Add	*3.85*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0172	LF	>5" To 7" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat	55.36	3.60
		For Up To 25 LF, Add	*8.42*	
		For >25 To 100 LF, Add	*4.21*	
		For >1,000 LF, Deduct	*-0.72*	
07 71 19 00-0173	LF	>7" To 9" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat	59.28	3.74
		For Up To 25 LF, Add	*8.92*	
		For >25 To 100 LF, Add	*4.46*	
		For >1,000 LF, Deduct	*-0.75*	
07 71 19 00-0174		Accessories For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems *(07 71 19 00-0169)*		
07 71 19 00-0175		Fascia Sumps For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems *(07 71 19 00-0174)*		
07 71 19 00-0176	EA	Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	340.42	4.84
		For Up To 25 LF, Add	*37.92*	
		For >25 To 100 LF, Add	*18.96*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0177	EA	Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	363.56	4.84
		For Up To 25 LF, Add	*40.23*	
		For >25 To 100 LF, Add	*20.12*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0178	EA	Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	378.09	4.84
		For Up To 25 LF, Add	*41.69*	
		For >25 To 100 LF, Add	*20.84*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0179		Fascia Spillout Scuppers For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems *(07 71 19 00-0174)*		
07 71 19 00-0180	EA	Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	277.42	4.84
		For Up To 25 LF, Add	*31.62*	
		For >25 To 100 LF, Add	*15.81*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0181	EA	Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	289.10	4.84
		For Up To 25 LF, Add	*32.79*	
		For >25 To 100 LF, Add	*16.39*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0182	EA	Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	296.21	4.84
		For Up To 25 LF, Add	*33.50*	
		For >25 To 100 LF, Add	*16.75*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0183		Aluminum Snap-On Cover Fascia *(07 71 19 00-0167)*		
07 71 19 00-0184		KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat *(07 71 19 00-0183)*		
07 71 19 00-0185		0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat *(07 71 19 00-0184)*		
07 71 19 00-0186	LF	3" To 5" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	25.84	3.46
		For Up To 25 LF, Add	*5.35*	
		For >25 To 100 LF, Add	*2.68*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0187	LF	>5" To 7" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	29.11	3.60
		For Up To 25 LF, Add	*5.79*	
		For >25 To 100 LF, Add	*2.90*	
		For >1,000 LF, Deduct	*-0.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0188	LF	>7" To 9" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	30.84	3.74
		For Up To 25 LF, Add	*6.07*	
		For >25 To 100 LF, Add	*3.04*	
		For >1,000 LF, Deduct	*-0.75*	
07 71 19 00-0189		0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat *(07 71 19 00-0184)*		
07 71 19 00-0190	LF	3" To 5" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	27.08	3.46
		For Up To 25 LF, Add	*5.48*	
		For >25 To 100 LF, Add	*2.74*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0191	LF	>5" To 7" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	30.70	3.60
		For Up To 25 LF, Add	*5.95*	
		For >25 To 100 LF, Add	*2.98*	
		For >1,000 LF, Deduct	*-0.72*	
07 71 19 00-0192	LF	>7" To 9" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	32.63	3.74
		For Up To 25 LF, Add	*6.25*	
		For >25 To 100 LF, Add	*3.13*	
		For >1,000 LF, Deduct	*-0.75*	
07 71 19 00-0193		Accessories For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems *(07 71 19 00-0184)*		
07 71 19 00-0194		Fascia Sumps For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems *(07 71 19 00-0193)*		
07 71 19 00-0195	EA	Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	160.26	4.84
		For Up To 25 LF, Add	*19.90*	
		For >25 To 100 LF, Add	*9.95*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0196	EA	Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	173.63	4.84
		For Up To 25 LF, Add	*21.24*	
		For >25 To 100 LF, Add	*10.62*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0197	EA	Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	179.48	4.84
		For Up To 25 LF, Add	*21.82*	
		For >25 To 100 LF, Add	*10.91*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0198		Fascia Spillout Scuppers For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems *(07 71 19 00-0193)*		
07 71 19 00-0199	EA	Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	127.29	4.84
		For Up To 25 LF, Add	*16.61*	
		For >25 To 100 LF, Add	*8.30*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0200	EA	Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	133.95	4.84
		For Up To 25 LF, Add	*17.27*	
		For >25 To 100 LF, Add	*8.64*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0201	EA	Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	136.87	4.84
		For Up To 25 LF, Add	*17.56*	
		For >25 To 100 LF, Add	*8.78*	
		For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0202		Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat *(07 71 19 00-0183)*		
07 71 19 00-0203		0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat *(07 71 19 00-0202)*		
07 71 19 00-0204	LF	3" To 5" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	29.62	3.46
		For Up To 25 LF, Add	*5.73*	
		For >25 To 100 LF, Add	*2.87*	
		For >1,000 LF, Deduct	*-0.69*	
07 71 19 00-0205	LF	>5" To 7" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	33.49	3.60
		For Up To 25 LF, Add	*6.23*	
		For >25 To 100 LF, Add	*3.11*	
		For >1,000 LF, Deduct	*-0.72*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	07 71 19 00-0206	LF	>7" To 9" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	35.52	3.74
			For Up To 25 LF, Add	*6.54*	
			For >25 To 100 LF, Add	*3.27*	
			For >1,000 LF, Deduct	*-0.75*	
07 71 19 00-0207			0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat *(07 71 19 00-0202)*		
	07 71 19 00-0208	LF	3" To 5" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	31.11	3.46
			For Up To 25 LF, Add	*5.88*	
			For >25 To 100 LF, Add	*2.94*	
			For >1,000 LF, Deduct	*-0.69*	
	07 71 19 00-0209	LF	>5" To 7" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	35.40	3.60
			For Up To 25 LF, Add	*6.42*	
			For >25 To 100 LF, Add	*3.21*	
			For >1,000 LF, Deduct	*-0.72*	
	07 71 19 00-0210	LF	>7" To 9" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	37.66	3.74
			For Up To 25 LF, Add	*6.75*	
			For >25 To 100 LF, Add	*3.38*	
			For >1,000 LF, Deduct	*-0.75*	
07 71 19 00-0211			Accessories For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems *(07 71 19 00-0202)*		
07 71 19 00-0212			Fascia Sumps For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems *(07 71 19 00-0211)*		
	07 71 19 00-0213	EA	Fascia Sump For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	197.90	4.84
			For Up To 25 LF, Add	*23.67*	
			For >25 To 100 LF, Add	*11.83*	
			For >1,000 LF, Deduct	*-0.97*	
	07 71 19 00-0214	EA	Fascia Sump For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	214.62	4.84
			For Up To 25 LF, Add	*25.34*	
			For >25 To 100 LF, Add	*12.67*	
			For >1,000 LF, Deduct	*-0.97*	
	07 71 19 00-0215	EA	Fascia Sump For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	221.93	4.84
			For Up To 25 LF, Add	*26.07*	
			For >25 To 100 LF, Add	*13.03*	
			For >1,000 LF, Deduct	*-0.97*	
07 71 19 00-0216			Fascia Spillout Scuppers For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems *(07 71 19 00-0211)*		
	07 71 19 00-0217	EA	Fascia Spillout Scupper For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	156.69	4.84
			For Up To 25 LF, Add	*19.55*	
			For >25 To 100 LF, Add	*9.77*	
			For >1,000 LF, Deduct	*-0.97*	
	07 71 19 00-0218	EA	Fascia Spillout Scupper For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	165.02	4.84
			For Up To 25 LF, Add	*20.38*	
			For >25 To 100 LF, Add	*10.19*	
			For >1,000 LF, Deduct	*-0.97*	
	07 71 19 00-0219	EA	Fascia Spillout Scupper For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	168.66	4.84
			For Up To 25 LF, Add	*20.74*	
			For >25 To 100 LF, Add	*10.37*	
			For >1,000 LF, Deduct	*-0.97*	

07 71 23 Manufactured Gutters and Downspouts *(07 71)*

Note: Includes all necessary support straps.

07 71 23 00-0001 Aluminum Gutters And Downspouts *(07 71 23)*

07 71 23 00-0002 Aluminum Gutters *(07 71 23 00-0001)*

Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.

07 71 23 00-0003 K-Style Aluminum Gutters *(07 71 23 00-0002)*

	07 71 23 00-0004	LF	5", 0.027" Thick, K-Style Aluminum Gutter	11.27	4.93
			For Up To 100', Add	*2.35*	
			For >100' To 250', Add	*0.97*	
			For >1,000', Deduct	*-0.81*	
			For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*1.41*	
	07 71 23 00-0005	LF	6", 0.027" Thick, K-Style Aluminum Gutter	12.54	5.20
			For Up To 100', Add	*2.53*	
			For >100' To 250', Add	*1.05*	
			For >1,000', Deduct	*-0.85*	
			For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*1.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0006	LF	5", 0.032" Thick, K-Style Aluminum Gutter	11.72	4.93
		For Up To 100', Add	*2.39*	
		For >100' To 250', Add	*0.99*	
		For >1,000', Deduct	*-0.81*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*1.62*	
07 71 23 00-0007	LF	6", 0.032" Thick, K-Style Aluminum Gutter	13.12	5.20
		For Up To 100', Add	*2.59*	
		For >100' To 250', Add	*1.08*	
		For >1,000', Deduct	*-0.85*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*2.07*	
07 71 23 00-0008	LF	7", 0.032" Thick, K-Style Aluminum Gutter	24.02	5.46
		For Up To 100', Add	*3.78*	
		For >100' To 250', Add	*1.66*	
		For >1,000', Deduct	*-0.92*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*6.67*	
07 71 23 00-0009	LF	8", 0.032" Thick, K-Style Aluminum Gutter	26.34	6.13
		For Up To 100', Add	*4.15*	
		For >100' To 250', Add	*1.82*	
		For >1,000', Deduct	*-1.01*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*7.29*	
07 71 23 00-0010	LF	8", 0.040" Thick, K-Style Aluminum Gutter	29.47	6.13
		For Up To 100', Add	*4.47*	
		For >100' To 250', Add	*1.98*	
		For >1,000', Deduct	*-1.01*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*8.70*	
07 71 23 00-0011		**Half Round Aluminum Gutters** *(07 71 23 00-0002)*		
07 71 23 00-0012	LF	5", 0.027" Thick, Half Round Aluminum Gutter	20.34	4.93
		For Up To 100', Add	*3.25*	
		For >100' To 250', Add	*1.42*	
		For >1,000', Deduct	*-0.81*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*5.49*	
07 71 23 00-0013	LF	6", 0.032" Thick, Half Round Aluminum Gutter	24.42	5.20
		For Up To 100', Add	*3.72*	
		For >100' To 250', Add	*1.65*	
		For >1,000', Deduct	*-0.85*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*7.15*	
07 71 23 00-0014		**Box Style Aluminum Gutters** *(07 71 23 00-0002)*		
07 71 23 00-0015	LF	6", 0.027" Thick, Box Style Aluminum Gutter	21.46	6.13
		For Up To 100', Add	*3.67*	
		For >100' To 250', Add	*1.58*	
		For >1,000', Deduct	*-1.01*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*5.10*	
07 71 23 00-0016	LF	6", 0.032" Thick, Box Style Aluminum Gutter	21.51	6.13
		For Up To 100', Add	*3.67*	
		For >100' To 250', Add	*1.58*	
		For >1,000', Deduct	*-1.01*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*5.12*	
07 71 23 00-0017	LF	7", 0.032" Thick, Box Style Aluminum Gutter	24.97	6.53
		For Up To 100', Add	*4.12*	
		For >100' To 250', Add	*1.79*	
		For >1,000', Deduct	*-1.08*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*6.38*	
07 71 23 00-0018	LF	8", 0.032" Thick, Box Style Aluminum Gutter	28.16	6.93
		For Up To 100', Add	*4.54*	
		For >100' To 250', Add	*1.98*	
		For >1,000', Deduct	*-1.15*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*7.52*	
07 71 23 00-0019		**Aluminum Gutter End Caps** *(07 71 23 00-0001)*		
07 71 23 00-0020		**K-Style, Aluminum Gutter End Caps** *(07 71 23 00-0019)*		
07 71 23 00-0021	EA	5", K-Style Aluminum Gutter End Cap	3.76	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*0.49*	
07 71 23 00-0022	EA	6", K-Style Aluminum Gutter End Cap	4.65	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*0.89*	
07 71 23 00-0023	EA	7", K-Style Aluminum Gutter End Cap	10.05	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*3.32*	
07 71 23 00-0024	EA	8", K-Style Aluminum Gutter End Cap	11.70	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*4.06*	
07 71 23 00-0025		**Half Round, Aluminum Gutter End Caps** *(07 71 23 00-0019)*		
07 71 23 00-0026	EA	5", Half Round Aluminum Gutter End Cap	6.03	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*1.51*	
07 71 23 00-0027	EA	6", Half Round Aluminum Gutter End Cap	9.31	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*2.99*	
07 71 23 00-0028		**Box Style, Aluminum Gutter End Caps** *(07 71 23 00-0019)*		

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0029	EA	6", Box Style Aluminum Gutter End Cap	10.96	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*3.73*	
07 71 23 00-0030	EA	7", Box Style Aluminum Gutter End Cap	11.90	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*4.15*	
07 71 23 00-0031	EA	8", Box Style Aluminum Gutter End Cap	13.96	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*5.08*	

07 71 23 00-0032 Aluminum Gutter Miters *(07 71 23 00-0001)*

Note: Inside or outside miters.

07 71 23 00-0033 K-Style, Aluminum Gutter Miters *(07 71 23 00-0032)*

07 71 23 00-0034	EA	5", K-Style Aluminum Gutter Miter	22.10	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*3.89*	
07 71 23 00-0035	EA	6", K-Style Aluminum Gutter Miter	29.34	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*6.72*	
07 71 23 00-0036	EA	7", K-Style Aluminum Gutter Miter	87.25	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*32.37*	
07 71 23 00-0037	EA	8", K-Style Aluminum Gutter Miter	94.71	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*35.24*	

07 71 23 00-0038 Half Round, Aluminum Gutter Miters *(07 71 23 00-0032)*

07 71 23 00-0039	EA	5", Half Round Aluminum Gutter Miter	37.95	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*11.02*	
07 71 23 00-0040	EA	6", Half Round Aluminum Gutter Miter	59.50	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*20.30*	

07 71 23 00-0041 Box Style, Aluminum Gutter Miters *(07 71 23 00-0032)*

07 71 23 00-0042	EA	6", Box Style Aluminum Gutter Miter	70.77	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*25.37*	
07 71 23 00-0043	EA	7", Box Style Aluminum Gutter Miter	105.24	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*40.46*	
07 71 23 00-0044	EA	8", Box Style Aluminum Gutter Miter	114.29	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*44.06*	

07 71 23 00-0045 Aluminum Gutter Wire Strainers *(07 71 23 00-0001)*

07 71 23 00-0046	EA	3" Diameter, Round Aluminum Wire Strainer	16.73	3.33
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*4.41*	
		For 0.024" Thick, Add	*1.37*	
		For 0.027" Thick, Add	*2.84*	
		For 0.031" Thick, Add	*4.11*	
07 71 23 00-0047	EA	4" Diameter, Round Aluminum Wire Strainer	24.97	3.33
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*8.11*	
		For 0.024" Thick, Add	*2.52*	
		For 0.027" Thick, Add	*5.23*	
		For 0.031" Thick, Add	*7.57*	

07 71 23 00-0048 Aluminum Downspouts *(07 71 23 00-0001)*

Note: Includes elbows, hangers and fasteners.

07 71 23 00-0049 Round Aluminum Downspouts *(07 71 23 00-0048)*

07 71 23 00-0050	LF	3" Diameter, 0.019" Thick, Round Aluminum Downspout	7.77	3.20
		For Up To 100', Add	*1.30*	
		For >100 To 250', Add	*0.56*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*1.94*	
		For 0.024" Thick, Add	*0.60*	
		For 0.027" Thick, Add	*1.25*	
		For 0.031" Thick, Add	*1.81*	
07 71 23 00-0051	LF	4" Diameter, 0.019" Thick, Round Aluminum Downspout	8.78	3.20
		For Up To 100', Add	*1.40*	
		For >100 To 250', Add	*0.61*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*2.39*	
		For 0.024" Thick, Add	*0.74*	
		For 0.027" Thick, Add	*1.54*	
		For 0.031" Thick, Add	*2.23*	

07 71 23 00-0052 Rectangular Aluminum Downspouts *(07 71 23 00-0048)*

07 71 23 00-0053	LF	2" x 3", 0.019" Thick, Rectangular Aluminum Downspout	5.67	3.20
		For Up To 100', Add	*1.09*	
		For >100 To 250', Add	*0.46*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*0.99*	
		For 0.024" Thick, Add	*0.31*	
		For 0.027" Thick, Add	*0.64*	
		For 0.031" Thick, Add	*0.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0054	LF	3" x 4", 0.019" Thick, Rectangular Aluminum Downspout	6.95	3.20
		For Up To 100', Add	*1.21*	
		For >100 To 250', Add	*0.52*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*1.57*	
		For 0.024" Thick, Add	*0.49*	
		For 0.027" Thick, Add	*1.01*	
		For 0.031" Thick, Add	*1.47*	
07 71 23 00-0055	LF	4" x 5", 0.019" Thick, Rectangular Aluminum Downspout	12.36	3.20
		For Up To 100', Add	*1.76*	
		For >100 To 250', Add	*0.79*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*4.01*	
		For 0.024" Thick, Add	*1.25*	
		For 0.027" Thick, Add	*2.58*	
		For 0.031" Thick, Add	*3.74*	

07 71 23 00-0056 Aluminum Devices *(07 71 23 00-0001)*

07 71 23 00-0057	EA	Thru-Wall Aluminum Scupper Outlet	335.78	30.98
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*104.63*	
07 71 23 00-0058	EA	Aluminum Leader/Conductor Head	256.21	34.43
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*84.32*	

07 71 23 00-0059 Copper Gutters And Downspouts *(07 71 23)*

07 71 23 00-0060 Copper Gutters *(07 71 23 00-0059)*

Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.

07 71 23 00-0061 K-Style Copper Gutters *(07 71 23 00-0060)*

07 71 23 00-0062	LF	4", 16 Ounce, K-Style Copper Gutter	19.05	4.67
		For Up To 100', Add	*3.06*	
		For >100' To 250', Add	*1.34*	
		For >1,000', Deduct	*-0.77*	
07 71 23 00-0063	LF	5", 16 Ounce, K-Style Copper Gutter	26.53	4.93
		For Up To 100', Add	*3.87*	
		For >100' To 250', Add	*1.73*	
		For >1,000', Deduct	*-0.81*	
07 71 23 00-0064	LF	6", 16 Ounce, K-Style Copper Gutter	31.45	5.20
		For Up To 100', Add	*4.42*	
		For >100' To 250', Add	*2.00*	
		For >1,000', Deduct	*-0.85*	
07 71 23 00-0065	LF	5", 20 Ounce, K-Style Copper Gutter	33.14	4.93
		For Up To 100', Add	*4.53*	
		For >100' To 250', Add	*2.06*	
		For >1,000', Deduct	*-0.81*	
07 71 23 00-0066	LF	6", 20 Ounce, K-Style Copper Gutter	40.81	5.20
		For Up To 100', Add	*5.36*	
		For >100' To 250', Add	*2.47*	
		For >1,000', Deduct	*-0.85*	
07 71 23 00-0067	LF	7", 20 Ounce, K-Style Copper Gutter	47.53	5.46
		For Up To 100', Add	*6.13*	
		For >100' To 250', Add	*2.84*	
		For >1,000', Deduct	*-0.92*	
07 71 23 00-0068	LF	8", 20 Ounce, K-Style Copper Gutter	52.83	6.13
		For Up To 100', Add	*6.80*	
		For >100' To 250', Add	*3.15*	
		For >1,000', Deduct	*-1.01*	

07 71 23 00-0069 Half Round Copper Gutters *(07 71 23 00-0060)*

07 71 23 00-0070	LF	5", 16 Ounce, Half Round Copper Gutter	23.08	4.93
		For Up To 100', Add	*3.53*	
		For >100' To 250', Add	*1.56*	
		For >1,000', Deduct	*-0.81*	
07 71 23 00-0071	LF	6", 16 Ounce, Half Round Copper Gutter	28.88	5.20
		For Up To 100', Add	*4.17*	
		For >100' To 250', Add	*1.87*	
		For >1,000', Deduct	*-0.85*	
07 71 23 00-0072	LF	7", 16 Ounce, Half Round Copper Gutter	47.51	5.46
		For Up To 100', Add	*6.13*	
		For >100' To 250', Add	*2.84*	
		For >1,000', Deduct	*-0.92*	
07 71 23 00-0073	LF	5", 20 Ounce, Half Round Copper Gutter	26.69	4.93
		For Up To 100', Add	*3.89*	
		For >100' To 250', Add	*1.74*	
		For >1,000', Deduct	*-0.81*	
07 71 23 00-0074	LF	6", 20 Ounce, Half Round Copper Gutter	32.72	5.20
		For Up To 100', Add	*4.55*	
		For >100' To 250', Add	*2.06*	
		For >1,000', Deduct	*-0.85*	
07 71 23 00-0075	LF	7", 20 Ounce, Half Round Copper Gutter	49.85	5.46
		For Up To 100', Add	*6.36*	
		For >100' To 250', Add	*2.95*	
		For >1,000', Deduct	*-0.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0076	LF	8", 20 Ounce, Half Round Copper Gutter	56.58	6.13
		For Up To 100', Add	*7.18*	
		For >100' To 250', Add	*3.34*	
		For >1,000', Deduct	*-1.01*	
07 71 23 00-0077		Box Style Copper Gutters *(07 71 23 00-0060)*		
07 71 23 00-0078	LF	5", 16 Ounce, Box Style Copper Gutter	29.22	5.59
		For Up To 100', Add	*4.32*	
		For >100' To 250', Add	*1.93*	
		For >1,000', Deduct	*-0.93*	
07 71 23 00-0079	LF	6", 16 Ounce, Box Style Copper Gutter	31.72	6.13
		For Up To 100', Add	*4.69*	
		For >100' To 250', Add	*2.09*	
		For >1,000', Deduct	*-1.01*	
07 71 23 00-0080	LF	7", 16 Ounce, Box Style Copper Gutter	38.35	6.53
		For Up To 100', Add	*5.45*	
		For >100' To 250', Add	*2.46*	
		For >1,000', Deduct	*-1.08*	
07 71 23 00-0081	LF	8", 16 Ounce, Box Style Copper Gutter	39.16	6.93
		For Up To 100', Add	*5.64*	
		For >100' To 250', Add	*2.53*	
		For >1,000', Deduct	*-1.15*	
07 71 23 00-0082	LF	5", 20 Ounce, Box Style Copper Gutter	32.75	5.59
		For Up To 100', Add	*4.67*	
		For >100' To 250', Add	*2.10*	
		For >1,000', Deduct	*-0.93*	
07 71 23 00-0083	LF	6", 20 Ounce, Box Style Copper Gutter	35.24	6.13
		For Up To 100', Add	*5.04*	
		For >100' To 250', Add	*2.27*	
		For >1,000', Deduct	*-1.01*	
07 71 23 00-0084	LF	7", 20 Ounce, Box Style Copper Gutter	41.88	6.53
		For Up To 100', Add	*5.81*	
		For >100' To 250', Add	*2.63*	
		For >1,000', Deduct	*-1.08*	
07 71 23 00-0085	LF	8", 20 Ounce, Box Style Copper Gutter	42.69	6.93
		For Up To 100', Add	*5.99*	
		For >100' To 250', Add	*2.71*	
		For >1,000', Deduct	*-1.15*	
07 71 23 00-0086		Copper Gutter End Caps *(07 71 23 00-0059)*		
07 71 23 00-0087		K-Style, Copper Gutter End Caps *(07 71 23 00-0086)*		
07 71 23 00-0088	EA	4", K-Style Copper Gutter End Cap	6.57	
07 71 23 00-0089	EA	5", K-Style Copper Gutter End Cap	7.01	
07 71 23 00-0090	EA	6", K-Style Copper Gutter End Cap	7.44	
07 71 23 00-0091	EA	7", K-Style Copper Gutter End Cap	18.99	
07 71 23 00-0092	EA	8", K-Style Copper Gutter End Cap	23.04	
07 71 23 00-0093		Half Round, Copper Gutter End Caps *(07 71 23 00-0086)*		
07 71 23 00-0094	EA	4", Half Round Copper Gutter End Cap	7.85	
07 71 23 00-0095	EA	5", Half Round Copper Gutter End Cap	8.77	
07 71 23 00-0096	EA	6", Half Round Copper Gutter End Cap	13.00	
07 71 23 00-0097	EA	7", Half Round Copper Gutter End Cap	38.16	
07 71 23 00-0098	EA	8", Half Round Copper Gutter End Cap	44.98	
07 71 23 00-0099		Box Style, Copper Gutter End Caps *(07 71 23 00-0086)*		
07 71 23 00-0100	EA	5", Box Style Copper Gutter End Cap	14.66	
07 71 23 00-0101	EA	6", Box Style Copper Gutter End Cap	15.36	
07 71 23 00-0102	EA	7", Box Style Copper Gutter End Cap	16.07	
07 71 23 00-0103	EA	8", Box Style Copper Gutter End Cap	17.48	
07 71 23 00-0104		Copper Gutter Miters *(07 71 23 00-0059)* Note: Inside or outside miters.		
07 71 23 00-0105		K-Style, Copper Gutter Miters *(07 71 23 00-0104)*		
07 71 23 00-0106	EA	4", K-Style Copper Gutter Miter	41.47	
07 71 23 00-0107	EA	5", K-Style Copper Gutter Miter	46.85	
07 71 23 00-0108	EA	6", K-Style Copper Gutter Miter	66.57	
07 71 23 00-0109	EA	7", K-Style Copper Gutter Miter	93.27	
07 71 23 00-0110	EA	8", K-Style Copper Gutter Miter	109.15	
07 71 23 00-0111		Half Round, Copper Gutter Miters *(07 71 23 00-0104)*		
07 71 23 00-0112	EA	4", Half Round Copper Gutter Miter	63.52	
07 71 23 00-0113	EA	5", Half Round Copper Gutter Miter	59.07	
07 71 23 00-0114	EA	6", Half Round Copper Gutter Miter	84.25	
07 71 23 00-0115	EA	7", Half Round Copper Gutter Miter	100.14	
07 71 23 00-0116	EA	8", Half Round Copper Gutter Miter	118.04	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0117		**Box Style, Copper Gutter Miters** *(07 71 23 00-0104)*		
07 71 23 00-0118	EA	5", 16 Ounce Box Style Copper Gutter Miter	69.81	
07 71 23 00-0119	EA	6", 16 Ounce Box Style Copper Gutter Miter	72.16	
07 71 23 00-0120	EA	7", 16 Ounce Box Style Copper Gutter Miter	78.72	
07 71 23 00-0121	EA	8", 16 Ounce Box Style Copper Gutter Miter	80.44	
07 71 23 00-0122	EA	5", 20 Ounce Box Style Copper Gutter Miter	76.86	
07 71 23 00-0123	EA	6", 20 Ounce Box Style Copper Gutter Miter	79.21	
07 71 23 00-0124	EA	7", 20 Ounce Box Style Copper Gutter Miter	85.77	
07 71 23 00-0125	EA	8", 20 Ounce Box Style Copper Gutter Miter	93.89	
07 71 23 00-0126		**Copper Gutter Wire Strainers** *(07 71 23 00-0059)*		
07 71 23 00-0127	EA	2" Diameter, Round Copper Wire Strainer	21.75	3.33
07 71 23 00-0128	EA	3" Diameter, Round Copper Wire Strainer	26.62	3.33
07 71 23 00-0129	EA	4" Diameter, Round Copper Wire Strainer	42.51	3.33
07 71 23 00-0130	EA	5" Diameter, Round Copper Wire Strainer	56.34	3.33
07 71 23 00-0131	EA	6" Diameter, Round Copper Wire Strainer	67.93	3.33
07 71 23 00-0132		**Copper Downspouts** *(07 71 23 00-0059)*		
		Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0133		**Round Copper Downspouts** *(07 71 23 00-0132)*		
07 71 23 00-0134	LF	2" Diameter, 16 Ounce, Round Copper Downspout	25.82	3.20
		For Up To 100', Add	*3.10*	
		For >100 To 250', Add	*1.46*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0135	LF	3" Diameter, 16 Ounce, Round Copper Downspout	18.19	3.20
		For Up To 100', Add	*2.34*	
		For >100 To 250', Add	*1.08*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0136	LF	4" Diameter, 16 Ounce, Round Copper Downspout	22.75	3.20
		For Up To 100', Add	*2.79*	
		For >100 To 250', Add	*1.31*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0137	LF	5" Diameter, 16 Ounce, Round Copper Downspout	35.96	3.20
		For Up To 100', Add	*4.12*	
		For >100 To 250', Add	*1.97*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0138	LF	6" Diameter, 16 Ounce, Round Copper Downspout	46.04	3.20
		For Up To 100', Add	*5.12*	
		For >100 To 250', Add	*2.48*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0139	LF	3" Diameter, 20 Ounce, Round Copper Downspout	24.37	3.20
		For Up To 100', Add	*2.96*	
		For >100 To 250', Add	*1.39*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0140	LF	4" Diameter, 20 Ounce, Round Copper Downspout	31.42	3.20
		For Up To 100', Add	*3.66*	
		For >100 To 250', Add	*1.74*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0141	LF	5" Diameter, 20 Ounce, Round Copper Downspout	47.42	3.20
		For Up To 100', Add	*5.26*	
		For >100 To 250', Add	*2.54*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0142		**Square Copper Downspouts** *(07 71 23 00-0132)*		
07 71 23 00-0143	LF	3" Diameter, 16 Ounce, Square Copper Downspout	12.81	3.20
		For Up To 100', Add	*1.80*	
		For >100 To 250', Add	*0.81*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0144	LF	4" Diameter, 16 Ounce, Square Copper Downspout	15.84	3.20
		For Up To 100', Add	*2.10*	
		For >100 To 250', Add	*0.97*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0145	LF	5" Diameter, 16 Ounce, Square Copper Downspout	22.38	3.20
		For Up To 100', Add	*2.76*	
		For >100 To 250', Add	*1.29*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0146	LF	3" Diameter, 20 Ounce, Square Copper Downspout	14.68	3.20
		For Up To 100', Add	*1.99*	
		For >100 To 250', Add	*0.91*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0147	LF	4" Diameter, 20 Ounce, Square Copper Downspout	18.46	3.20
		For Up To 100', Add	*2.37*	
		For >100 To 250', Add	*1.10*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0148	LF	5" Diameter, 20 Ounce, Square Copper Downspout	26.23	3.20
		For Up To 100', Add	*3.14*	
		For >100 To 250', Add	*1.48*	
		For >1,000', Deduct	*-0.35*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0149		**Rectangular Copper Downspouts** *(07 71 23 00-0132)*		
07 71 23 00-0150	LF	2" x 3", 16 Ounce, Rectangular Copper Downspout	18.66	3.20
		For Up To 100', Add	*2.39*	
		For >100 To 250', Add	*1.11*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0151	LF	3" x 4", 16 Ounce, Rectangular Copper Downspout	23.43	3.20
		For Up To 100', Add	*2.86*	
		For >100 To 250', Add	*1.34*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0152	LF	4" x 5", 16 Ounce, Rectangular Copper Downspout	33.04	3.20
		For Up To 100', Add	*3.82*	
		For >100 To 250', Add	*1.83*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0153	LF	2" x 3", 20 Ounce, Rectangular Copper Downspout	21.62	3.20
		For Up To 100', Add	*2.68*	
		For >100 To 250', Add	*1.25*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0154	LF	3" x 4", 20 Ounce, Rectangular Copper Downspout	27.53	3.20
		For Up To 100', Add	*3.27*	
		For >100 To 250', Add	*1.55*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0155	LF	4" x 5", 20 Ounce, Rectangular Copper Downspout	39.23	3.20
		For Up To 100', Add	*4.44*	
		For >100 To 250', Add	*2.13*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0156		**Copper Devices And Accessories** *(07 71 23 00-0059)*		
07 71 23 00-0157	EA	Thru-Wall Copper Scupper Outlet	230.56	30.98
07 71 23 00-0158	EA	Copper Leader/Conductor Head	311.18	34.43
07 71 23 00-0159	EA	Copper Eave Box	138.97	19.99
07 71 23 00-0160		**Galvanized Steel Gutters And Downspouts** *(07 71 23)*		
07 71 23 00-0161		**Galvanized Steel Gutters** *(07 71 23 00-0160)*		
		Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0162		**K-Style Galvanized Steel Gutters** *(07 71 23 00-0161)*		
07 71 23 00-0163	LF	5", 26 Gauge, K-Style Galvanized Steel Gutter	15.21	4.93
		For Up To 100', Add	*2.74*	
		For >100' To 250', Add	*1.17*	
		For >1,000', Deduct	*-0.81*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*3.19*	
		For 24 Gauge, Add	*1.98*	
		For 22 Gauge, Add	*3.89*	
07 71 23 00-0164	LF	6", 26 Gauge, K-Style Galvanized Steel Gutter	17.77	5.20
		For Up To 100', Add	*3.06*	
		For >100' To 250', Add	*1.32*	
		For >1,000', Deduct	*-0.85*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*4.16*	
		For 24 Gauge, Add	*2.59*	
		For 22 Gauge, Add	*5.08*	
07 71 23 00-0165	LF	7", 26 Gauge, K-Style Galvanized Steel Gutter	37.61	5.46
		For Up To 100', Add	*5.14*	
		For >100' To 250', Add	*2.34*	
		For >1,000', Deduct	*-0.92*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*12.79*	
		For 24 Gauge, Add	*7.96*	
		For 22 Gauge, Add	*15.63*	
07 71 23 00-0166	LF	8", 26 Gauge, K-Style Galvanized Steel Gutter	39.63	6.13
		For Up To 100', Add	*5.48*	
		For >100' To 250', Add	*2.49*	
		For >1,000', Deduct	*-1.01*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*13.28*	
		For 24 Gauge, Add	*8.26*	
		For 22 Gauge, Add	*16.23*	
07 71 23 00-0167		**Half Round Galvanized Steel Gutters** *(07 71 23 00-0161)*		
07 71 23 00-0168	LF	5", 26 Gauge, Half Round Galvanized Steel Gutter	22.52	4.93
		For Up To 100', Add	*3.47*	
		For >100' To 250', Add	*1.53*	
		For >1,000', Deduct	*-0.81*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*6.48*	
		For 24 Gauge, Add	*4.03*	
		For 22 Gauge, Add	*7.91*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0169	LF	6", 26 Gauge, Half Round Galvanized Steel Gutter	28.53	5.20
		For Up To 100', Add	*4.13*	
		For >100' To 250', Add	*1.85*	
		For >1,000', Deduct	*-0.85*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*9.00*	
		For 24 Gauge, Add	*5.60*	
		For 22 Gauge, Add	*11.00*	
07 71 23 00-0170	LF	7", 26 Gauge, Half Round Galvanized Steel Gutter	72.90	5.46
		For Up To 100', Add	*8.67*	
		For >100' To 250', Add	*4.10*	
		For >1,000', Deduct	*-0.92*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*28.67*	
		For 24 Gauge, Add	*17.84*	
		For 22 Gauge, Add	*35.04*	
07 71 23 00-0171	LF	8", 26 Gauge, Half Round Galvanized Steel Gutter	77.76	6.13
		For Up To 100', Add	*9.30*	
		For >100' To 250', Add	*4.39*	
		For >1,000', Deduct	*-1.01*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*30.43*	
		For 24 Gauge, Add	*18.94*	
		For 22 Gauge, Add	*37.20*	

07 71 23 00-0172 Box Style Galvanized Steel Gutters *(07 71 23 00-0161)*

07 71 23 00-0173	LF	5", 24 Gauge, Box Style Galvanized Steel Gutter	26.98	5.59
		For Up To 100', Add	*4.10*	
		For >100' To 250', Add	*1.82*	
		For >1,000', Deduct	*-0.93*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*7.94*	
		For 22 Gauge, Add	*3.88*	
07 71 23 00-0174	LF	6", 24 Gauge, Box Style Galvanized Steel Gutter	31.74	6.13
		For Up To 100', Add	*4.69*	
		For >100' To 250', Add	*2.09*	
		For >1,000', Deduct	*-1.01*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*9.72*	
		For 22 Gauge, Add	*4.75*	
07 71 23 00-0175	LF	7", 24 Gauge, Box Style Galvanized Steel Gutter	40.42	5.46
		For Up To 100', Add	*5.42*	
		For >100' To 250', Add	*2.48*	
		For >1,000', Deduct	*-0.92*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*14.05*	
		For 22 Gauge, Add	*6.87*	
07 71 23 00-0176	LF	8", 24 Gauge, Box Style Galvanized Steel Gutter	44.79	6.93
		For Up To 100', Add	*6.20*	
		For >100' To 250', Add	*2.81*	
		For >1,000', Deduct	*-1.15*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*15.00*	
		For 22 Gauge, Add	*7.33*	

07 71 23 00-0177 Galvanized Steel Gutter End Caps *(07 71 23 00-0160)*

07 71 23 00-0178 K-Style, Galvanized Steel Gutter End Caps *(07 71 23 00-0177)*

07 71 23 00-0179	EA	5", K-Style Galvanized Steel Gutter End Cap	6.91	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*1.91*	
07 71 23 00-0180	EA	6", K-Style Galvanized Steel Gutter End Cap	8.03	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*2.41*	
07 71 23 00-0181	EA	7", K-Style Galvanized Steel Gutter End Cap	17.92	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*6.86*	
07 71 23 00-0182	EA	8", K-Style Galvanized Steel Gutter End Cap	26.19	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*10.58*	

07 71 23 00-0183 Half Round, Galvanized Steel Gutter End Caps *(07 71 23 00-0177)*

07 71 23 00-0184	EA	5", Half Round Galvanized Steel Gutter End Cap	9.01	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*2.85*	
07 71 23 00-0185	EA	6", Half Round Galvanized Steel Gutter End Cap	10.43	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*3.49*	
07 71 23 00-0186	EA	7", Half Round Galvanized Steel Gutter End Cap	19.82	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*7.72*	
07 71 23 00-0187	EA	8", Half Round Galvanized Steel Gutter End Cap	26.94	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*10.92*	

07 71 23 00-0188 Box Style, Galvanized Steel Gutter End Caps *(07 71 23 00-0177)*

07 71 23 00-0189	EA	5", Box Style Galvanized Steel Gutter End Cap	16.50	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*6.22*	
07 71 23 00-0190	EA	6", Box Style Galvanized Steel Gutter End Cap	19.96	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*7.78*	
07 71 23 00-0191	EA	7", Box Style Galvanized Steel Gutter End Cap	22.41	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*8.88*	
07 71 23 00-0192	EA	8", Box Style Galvanized Steel Gutter End Cap	30.17	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*12.38*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0193		Galvanized Steel Gutter Miters *(07 71 23 00-0160)*		
		Note: Inside or outside miters.		
07 71 23 00-0194		K-Style, Galvanized Steel Gutter Miters *(07 71 23 00-0193)*		
07 71 23 00-0195	EA	5", K-Style Galvanized Steel Gutter Miter	42.19	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*12.93*	
07 71 23 00-0196	EA	6", K-Style Galvanized Steel Gutter Miter	69.37	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*24.74*	
07 71 23 00-0197	EA	7", K-Style Galvanized Steel Gutter Miter	111.99	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*43.50*	
07 71 23 00-0198	EA	8", K-Style Galvanized Steel Gutter Miter	126.00	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*49.32*	
07 71 23 00-0199		Half Round, Galvanized Steel Gutter Miters *(07 71 23 00-0193)*		
07 71 23 00-0200	EA	5", Half Round Galvanized Steel Gutter Miter	58.43	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*20.24*	
07 71 23 00-0201	EA	6", Half Round Galvanized Steel Gutter Miter	65.78	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*23.12*	
07 71 23 00-0202	EA	7", Half Round Galvanized Steel Gutter Miter	190.03	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*78.62*	
07 71 23 00-0203	EA	8", Half Round Galvanized Steel Gutter Miter	200.81	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*82.99*	
07 71 23 00-0204		Box Style, Galvanized Steel Gutter Miters *(07 71 23 00-0193)*		
07 71 23 00-0205	EA	5", Box Style Galvanized Steel Gutter Miter	55.18	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*18.77*	
07 71 23 00-0206	EA	6", Box Style Galvanized Steel Gutter Miter	90.87	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*34.41*	
07 71 23 00-0207	EA	7", Box Style Galvanized Steel Gutter Miter	118.46	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*46.41*	
07 71 23 00-0208	EA	8", Box Style Galvanized Steel Gutter Miter	126.00	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*49.32*	
07 71 23 00-0209		Galvanized Steel Gutter Wire Strainers *(07 71 23 00-0160)*		
07 71 23 00-0210	EA	3" Diameter, Round Galvanized Steel Wire Strainer	14.73	3.33
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*3.51*	
07 71 23 00-0211	EA	4" Diameter, Round Galvanized Steel Wire Strainer	21.38	3.33
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*6.50*	
07 71 23 00-0212		Galvanized Steel Downspouts *(07 71 23 00-0160)*		
		Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0213		Round Galvanized Steel Downspouts *(07 71 23 00-0212)*		
07 71 23 00-0214	LF	3" Diameter, 26 Gauge, Round Galvanized Steel Downspout	8.63	3.20
		For Up To 100', Add	*1.38*	
		For >100 To 250', Add	*0.60*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*2.33*	
		For 24 Gauge, Add	*1.45*	
		For 22 Gauge, Add	*2.84*	
07 71 23 00-0215	LF	4" Diameter, 26 Gauge, Round Galvanized Steel Downspout	10.84	3.20
		For Up To 100', Add	*1.60*	
		For >100 To 250', Add	*0.72*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*3.32*	
		For 24 Gauge, Add	*2.07*	
		For 22 Gauge, Add	*4.06*	
07 71 23 00-0216	LF	5" Diameter, 26 Gauge, Round Galvanized Steel Downspout	14.93	3.20
		For Up To 100', Add	*2.01*	
		For >100 To 250', Add	*0.92*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*5.16*	
		For 24 Gauge, Add	*3.21*	
		For 22 Gauge, Add	*6.31*	
07 71 23 00-0217	LF	6" Diameter, 26 Gauge, Round Galvanized Steel Downspout	33.80	3.20
		For Up To 100', Add	*3.90*	
		For >100 To 250', Add	*1.86*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*13.65*	
		For 24 Gauge, Add	*8.50*	
		For 22 Gauge, Add	*16.69*	
07 71 23 00-0218		Square Galvanized Steel Downspouts *(07 71 23 00-0212)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0219	LF	4" x 4", 26 Gauge, Square Galvanized Steel Downspout	9.86	3.20
		For Up To 100', Add	*1.51*	
		For >100 To 250', Add	*0.67*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*2.88*	
		For 24 Gauge, Add	*1.79*	
		For 22 Gauge, Add	*3.52*	
07 71 23 00-0220	LF	5" x 5", 26 Gauge, Square Galvanized Steel Downspout	12.77	3.20
		For Up To 100', Add	*1.80*	
		For >100 To 250', Add	*0.81*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*4.19*	
		For 24 Gauge, Add	*2.61*	
		For 22 Gauge, Add	*5.12*	

07 71 23 00-0221 Rectangular Galvanized Steel Downspouts *(07 71 23 00-0212)*

07 71 23 00-0222	LF	2" x 3", 26 Gauge, Rectangular Galvanized Steel Downspout	8.80	3.20
		For Up To 100', Add	*1.40*	
		For >100 To 250', Add	*0.61*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*2.40*	
		For 24 Gauge, Add	*1.50*	
		For 22 Gauge, Add	*2.94*	
07 71 23 00-0223	LF	3" x 4", 26 Gauge, Rectangular Galvanized Steel Downspout	11.34	3.20
		For Up To 100', Add	*1.65*	
		For >100 To 250', Add	*0.74*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*3.55*	
		For 24 Gauge, Add	*2.21*	
		For 22 Gauge, Add	*4.33*	
07 71 23 00-0224	LF	4" x 5", 26 Gauge, Rectangular Galvanized Steel Downspout	21.49	3.20
		For Up To 100', Add	*2.67*	
		For >100 To 250', Add	*1.25*	
		For >1,000', Deduct	*-0.35*	
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*8.11*	
		For 24 Gauge, Add	*5.05*	
		For 22 Gauge, Add	*9.92*	

07 71 23 00-0225 Galvanized Steel Devices *(07 71 23 00-0160)*

07 71 23 00-0226	EA	Galvanized Steel Leader/Conductor Head	398.91	34.43
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*148.53*	
07 71 23 00-0227	EA	Thru-Wall Galvanized Steel Scupper Outlet	200.34	30.98
		For Polyvinylidene Fluoride (PVDF) Resin (Kynar 500®) Finish, Add	*43.68*	

07 71 23 00-0228 Stainless Steel Gutters And Downspouts *(07 71 23)*

Note: AISI type 304 stainless steel.

07 71 23 00-0229 Stainless Steel Gutters *(07 71 23 00-0228)*

Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.

07 71 23 00-0230 K-Style, Stainless Steel Gutters *(07 71 23 00-0229)*

07 71 23 00-0231	LF	5", 26 Gauge, K-Style Stainless Steel Gutter	38.70	4.93
		For Up To 100', Add	*5.09*	
		For >100' To 250', Add	*2.34*	
		For >1,000', Deduct	*-0.81*	
		For 316 Stainless Steel, Add	*11.62*	
		For 24 Gauge, Add	*10.09*	
		For 22 Gauge, Add	*20.18*	
		For 20 Gauge, Add	*30.26*	
07 71 23 00-0232	LF	6", 26 Gauge, K-Style Stainless Steel Gutter	46.75	5.20
		For Up To 100', Add	*5.95*	
		For >100' To 250', Add	*2.76*	
		For >1,000', Deduct	*-0.85*	
		For 316 Stainless Steel, Add	*14.52*	
		For 24 Gauge, Add	*12.61*	
		For 22 Gauge, Add	*25.23*	
		For 20 Gauge, Add	*37.84*	
07 71 23 00-0233	LF	7", 26 Gauge, K-Style Stainless Steel Gutter	53.75	5.46
		For Up To 100', Add	*6.75*	
		For >100' To 250', Add	*3.15*	
		For >1,000', Deduct	*-0.92*	
		For 316 Stainless Steel, Add	*16.93*	
		For 24 Gauge, Add	*14.70*	
		For 22 Gauge, Add	*29.41*	
		For 20 Gauge, Add	*44.11*	
		For Seamless Gutter, Add	*-0.85*	
		For 28 Gauge, Deduct	*-7.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0234	LF	8", 26 Gauge, K-Style Stainless Steel Gutter	60.30	6.13
		For Up To 100', Add	*7.55*	
		For >100' To 250', Add	*3.52*	
		For >1,000', Deduct	*-1.01*	
		For 316 Stainless Steel, Add	*19.06*	
		For 24 Gauge, Add	*16.56*	
		For 22 Gauge, Add	*33.11*	
		For 20 Gauge, Add	*49.67*	
		For 28 Gauge, Deduct	*-8.53*	
		For Elevated Installation >15' To 20', Add	*1.01*	
		For Elevated Installation >20' To 25', Add	*1.52*	
		For Elevated Installation >25' To 30', Add	*2.28*	
		For Elevated Installation >30', Add	*3.04*	
07 71 23 00-0235		Half Round, Stainless Steel Gutters *(07 71 23 00-0229)*		
07 71 23 00-0236	LF	5", 26 Gauge, Half Round Stainless Steel Gutter	54.41	4.93
		For Up To 100', Add	*6.66*	
		For >100' To 250', Add	*3.13*	
		For >1,000', Deduct	*-0.81*	
		For 316 Stainless Steel, Add	*17.59*	
		For 24 Gauge, Add	*15.27*	
		For 22 Gauge, Add	*30.54*	
		For 20 Gauge, Add	*45.82*	
07 71 23 00-0237	LF	6", 26 Gauge, Half Round Stainless Steel Gutter	66.29	5.20
		For Up To 100', Add	*7.91*	
		For >100' To 250', Add	*3.74*	
		For >1,000', Deduct	*-0.85*	
		For 316 Stainless Steel, Add	*21.95*	
		For 24 Gauge, Add	*19.06*	
		For 22 Gauge, Add	*38.12*	
		For 20 Gauge, Add	*57.18*	
07 71 23 00-0238		Box Style, Stainless Steel Gutters *(07 71 23 00-0229)*		
07 71 23 00-0239	LF	5", 26 Gauge, Box Style Stainless Steel Gutter	52.92	5.59
		For Up To 100', Add	*6.69*	
		For >100' To 250', Add	*3.11*	
		For >1,000', Deduct	*-0.93*	
		For 316 Stainless Steel, Add	*16.56*	
		For 24 Gauge, Add	*14.38*	
		For 22 Gauge, Add	*28.77*	
		For 20 Gauge, Add	*43.15*	
		For Seamless Gutter, Add	*-0.78*	
07 71 23 00-0240	LF	6", 26 Gauge, Box Style Stainless Steel Gutter	64.89	6.13
		For Up To 100', Add	*8.01*	
		For >100' To 250', Add	*3.75*	
		For >1,000', Deduct	*-1.01*	
		For 316 Stainless Steel, Add	*20.81*	
		For 24 Gauge, Add	*18.07*	
		For 22 Gauge, Add	*36.14*	
		For 20 Gauge, Add	*54.21*	
		For Seamless Gutter, Add	*-1.22*	
07 71 23 00-0241	LF	7", 26 Gauge, Box Style Stainless Steel Gutter	76.96	6.53
		For Up To 100', Add	*9.31*	
		For >100' To 250', Add	*4.39*	
		For >1,000', Deduct	*-1.08*	
		For 316 Stainless Steel, Add	*25.14*	
		For 24 Gauge, Add	*21.84*	
		For 22 Gauge, Add	*43.67*	
		For 20 Gauge, Add	*65.51*	
		For Seamless Gutter, Add	*-1.69*	
07 71 23 00-0242	LF	8", 26 Gauge, Box Style Stainless Steel Gutter	83.76	6.93
		For Up To 100', Add	*10.10*	
		For >100' To 250', Add	*4.76*	
		For >1,000', Deduct	*-1.15*	
		For 316 Stainless Steel, Add	*27.47*	
		For 24 Gauge, Add	*23.86*	
		For 22 Gauge, Add	*47.72*	
		For 20 Gauge, Add	*71.58*	
		For Seamless Gutter, Add	*-1.90*	
07 71 23 00-0243		Stainless Steel Gutter End Caps *(07 71 23 00-0228)*		
07 71 23 00-0244		K-Style, Stainless Steel Gutter End Caps *(07 71 23 00-0243)*		
07 71 23 00-0245	EA	5", K-Style Stainless Steel Gutter End Cap	12.23	
		For 316 Stainless Steel, Add	*3.63*	
07 71 23 00-0246	EA	6", K-Style Stainless Steel Gutter End Cap	14.14	
		For 316 Stainless Steel, Add	*4.36*	
07 71 23 00-0247	EA	7", K-Style Stainless Steel Gutter End Cap	16.59	
		For 316 Stainless Steel, Add	*5.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0248	EA	8", K-Style Stainless Steel Gutter End Cap	18.80	
		For 316 Stainless Steel, Add	*5.80*	
		For Elevated Installation >15' To 20', Add	*0.35*	
		For Elevated Installation >20' To 25', Add	*0.53*	
		For Elevated Installation >25' To 30', Add	*0.80*	
		For Elevated Installation >30', Add	*1.06*	
07 71 23 00-0249		**Half Round, Stainless Steel Gutter End Caps** *(07 71 23 00-0243)*		
07 71 23 00-0250	EA	5", Half Round Stainless Steel Gutter End Cap	14.62	
		For 316 Stainless Steel, Add	*4.54*	
07 71 23 00-0251	EA	6", Half Round Stainless Steel Gutter End Cap	17.01	
		For 316 Stainless Steel, Add	*5.45*	
07 71 23 00-0252		**Box Style, Stainless Steel Gutter End Caps** *(07 71 23 00-0243)*		
07 71 23 00-0253	EA	5", Box Style Stainless Steel Gutter End Cap	15.28	
		For 316 Stainless Steel, Add	*4.54*	
07 71 23 00-0254	EA	6", Box Style Stainless Steel Gutter End Cap	17.67	
		For 316 Stainless Steel, Add	*5.45*	
07 71 23 00-0255	EA	7", Box Style Stainless Steel Gutter End Cap	18.60	
		For 316 Stainless Steel, Add	*5.89*	
07 71 23 00-0256	EA	8", Box Style Stainless Steel Gutter End Cap	22.62	
		For 316 Stainless Steel, Add	*7.25*	
07 71 23 00-0257		**Stainless Steel Gutter Miters** *(07 71 23 00-0228)*		
		Note: Inside or outside box miters.		
07 71 23 00-0258		**K-Style, Stainless Steel Gutter Miters** *(07 71 23 00-0257)*		
07 71 23 00-0259	EA	5", K-Style Stainless Steel Gutter Miter	62.86	
		For 316 Stainless Steel, Add	*18.77*	
07 71 23 00-0260	EA	6", K-Style Stainless Steel Gutter Miter	102.05	
		For 316 Stainless Steel, Add	*33.31*	
07 71 23 00-0261	EA	7", K-Style Stainless Steel Gutter Miter	118.31	
		For 316 Stainless Steel, Add	*39.14*	
07 71 23 00-0262	EA	8", K-Style Stainless Steel Gutter Miter	132.96	
		For 316 Stainless Steel, Add	*44.30*	
		For Elevated Installation >15' To 20', Add	*1.64*	
		For Elevated Installation >20' To 25', Add	*2.46*	
		For Elevated Installation >25' To 30', Add	*3.69*	
		For Elevated Installation >30', Add	*4.92*	
07 71 23 00-0263		**Half Round, Stainless Steel Gutter Miters** *(07 71 23 00-0257)*		
07 71 23 00-0264	EA	5", Half Round Stainless Steel Gutter Miter	158.48	
		For 316 Stainless Steel, Add	*55.11*	
07 71 23 00-0265	EA	6", Half Round Stainless Steel Gutter Miter	194.41	
		For 316 Stainless Steel, Add	*68.40*	
07 71 23 00-0266		**Box-Style, Stainless Steel Gutter Miters** *(07 71 23 00-0257)*		
07 71 23 00-0267	EA	5", Box-Style Stainless Steel Gutter Miter	72.74	
		For 316 Stainless Steel, Add	*22.53*	
07 71 23 00-0268	EA	6", Box-Style Stainless Steel Gutter Miter	119.58	
		For 316 Stainless Steel, Add	*39.97*	
07 71 23 00-0269	EA	7", Box-Style Stainless Steel Gutter Miter	138.03	
		For 316 Stainless Steel, Add	*46.63*	
07 71 23 00-0270	EA	8", Box-Style Stainless Steel Gutter Miter	156.63	
		For 316 Stainless Steel, Add	*53.29*	
07 71 23 00-0271		**Stainless Steel Gutter Wire Strainers** *(07 71 23 00-0228)*		
07 71 23 00-0272	EA	3" Diameter, Round Stainless Steel Wire Strainer	48.88	3.33
07 71 23 00-0273	EA	4" Diameter, Round Stainless Steel Wire Strainer	50.02	3.33
07 71 23 00-0274		**Stainless Steel Downspouts** *(07 71 23 00-0228)*		
		Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0275		**Round Stainless Steel Downspouts** *(07 71 23 00-0274)*		
07 71 23 00-0276	LF	3" Diameter, 26 Gauge, Round Stainless Steel Downspout	23.21	3.20
		For Up To 100', Add	*2.84*	
		For >100 To 250', Add	*1.33*	
		For >1,000', Deduct	*-0.35*	
		For 316 Stainless Steel, Add	*7.51*	
		For 24 Gauge, Add	*6.52*	
		For 22 Gauge, Add	*13.04*	
		For 20 Gauge, Add	*19.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0277	LF	4" Diameter, 26 Gauge, Round Stainless Steel Downspout	30.87	3.20
		For Up To 100', Add	*3.61*	
		For >100 To 250', Add	*1.72*	
		For >1,000', Deduct	*-0.35*	
		For 316 Stainless Steel, Add	*10.42*	
		For 24 Gauge, Add	*9.05*	
		For 22 Gauge, Add	*18.09*	
		For 20 Gauge, Add	*27.14*	
07 71 23 00-0278	LF	5" Diameter, 26 Gauge, Round Stainless Steel Downspout	45.34	3.20
		For Up To 100', Add	*5.05*	
		For >100 To 250', Add	*2.44*	
		For >1,000', Deduct	*-0.35*	
		For 316 Stainless Steel, Add	*15.91*	
		For 24 Gauge, Add	*13.82*	
		For 22 Gauge, Add	*27.64*	
		For 20 Gauge, Add	*41.46*	

07 71 23 00-0279 Rectangular Stainless Steel Downspouts *(07 71 23 00-0274)*

07 71 23 00-0280	LF	2" x 3", 26 Gauge, Rectangular Stainless Steel Downspout	23.78	3.20
		For Up To 100', Add	*2.90*	
		For >100 To 250', Add	*1.36*	
		For >1,000', Deduct	*-0.35*	
		For 316 Stainless Steel, Add	*7.72*	
		For 24 Gauge, Add	*6.71*	
		For 22 Gauge, Add	*13.41*	
		For 20 Gauge, Add	*20.12*	
07 71 23 00-0281	LF	3" x 4", 26 Gauge, Rectangular Stainless Steel Downspout	32.02	3.20
		For Up To 100', Add	*3.72*	
		For >100 To 250', Add	*1.77*	
		For >1,000', Deduct	*-0.35*	
		For 316 Stainless Steel, Add	*10.85*	
		For 24 Gauge, Add	*9.42*	
		For 22 Gauge, Add	*18.85*	
		For 20 Gauge, Add	*28.27*	
07 71 23 00-0282	LF	4" x 5", 26 Gauge, Rectangular Stainless Steel Downspout	41.66	3.20
		For Up To 100', Add	*4.69*	
		For >100 To 250', Add	*2.26*	
		For >1,000', Deduct	*-0.35*	
		For 316 Stainless Steel, Add	*14.52*	
		For 24 Gauge, Add	*12.61*	
		For 22 Gauge, Add	*25.21*	
		For 20 Gauge, Add	*37.82*	
07 71 23 00-0283	LF	5" x 6", 26 Gauge, Rectangular Stainless Steel Downspout	50.84	3.90
		For Up To 100', Add	*5.72*	
		For >100 To 250', Add	*2.75*	
		For >1,000', Deduct	*-0.42*	
		For 316 Stainless Steel, Add	*17.71*	
		For 24 Gauge, Add	*15.38*	
		For 22 Gauge, Add	*30.76*	
		For 20 Gauge, Add	*46.14*	
		For 28 Gauge, Deduct	*-7.92*	
		For 18 Gauge, Add	*77.37*	
07 71 23 00-0284	LF	6" x 7", 26 Gauge, Rectangular Stainless Steel Downspout	64.54	4.96
		For Up To 100', Add	*7.25*	
		For >100 To 250', Add	*3.49*	
		For >1,000', Deduct	*-0.53*	
		For 316 Stainless Steel, Add	*22.50*	
		For 24 Gauge, Add	*19.54*	
		For 22 Gauge, Add	*39.08*	
		For 20 Gauge, Add	*58.62*	
		For 28 Gauge, Deduct	*-10.07*	
		For 18 Gauge, Add	*98.29*	

07 71 23 00-0285 Stainless Steel Devices *(07 71 23 00-0228)*

07 71 23 00-0286	EA	Thru-Wall Stainless Steel Scupper Outlet	279.96	29.99
		For 316 Stainless Steel, Add	*68.41*	
07 71 23 00-0287	EA	Stainless Steel Leader/Conductor Head	528.73	29.99
		For 316 Stainless Steel, Add	*175.60*	

07 71 23 00-0288 Vinyl Gutters And Downspouts *(07 71 23)*

07 71 23 00-0289 Vinyl Gutters *(07 71 23 00-0288)*

Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.

07 71 23 00-0290 K-Style Vinyl Gutters *(07 71 23 00-0289)*

07 71 23 00-0291	LF	4", K-Style Vinyl Gutter	12.59	3.33
		For Up To 100', Add	*2.09*	
		For >100' To 250', Add	*0.91*	
		For >1,000', Deduct	*-0.56*	
07 71 23 00-0292	LF	5", K-Style Vinyl Gutter	16.22	3.33
		For Up To 100', Add	*2.45*	
		For >100' To 250', Add	*1.09*	
		For >1,000', Deduct	*-0.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0293		**Half Round Vinyl Gutters** *(07 71 23 00-0289)*		
07 71 23 00-0294	LF	4", Half Round Vinyl Gutter	13.01	3.33
		For Up To 100', Add	*2.13*	
		For >100' To 250', Add	*0.93*	
		For >1,000', Deduct	*-0.56*	
07 71 23 00-0295	LF	5", Half Round Vinyl Gutter	13.67	3.33
		For Up To 100', Add	*2.20*	
		For >100' To 250', Add	*0.96*	
		For >1,000', Deduct	*-0.56*	
07 71 23 00-0296		**Vinyl Gutter End Caps** *(07 71 23 00-0288)*		
07 71 23 00-0297		**K-Style, Vinyl Gutter End Caps** *(07 71 23 00-0296)*		
07 71 23 00-0298	EA	4", K-Style Vinyl Gutter End Cap	7.78	
07 71 23 00-0299	EA	5", K-Style Vinyl Gutter End Cap	10.79	
07 71 23 00-0300		**Half Round, Vinyl Gutter End Caps** *(07 71 23 00-0296)*		
07 71 23 00-0301	EA	4", Half Round Vinyl Gutter End Cap	8.89	
07 71 23 00-0302	EA	5", Half Round Vinyl Gutter End Cap	8.39	
07 71 23 00-0303		**Vinyl Gutter Miters** *(07 71 23 00-0288)*		
		Note: Inside or outside miters.		
07 71 23 00-0304		**K-Style, Vinyl Gutter Miters** *(07 71 23 00-0303)*		
07 71 23 00-0305	EA	4", K-Style Vinyl Gutter Miter	19.36	
07 71 23 00-0306	EA	5", K-Style Vinyl Gutter Miter	29.07	
07 71 23 00-0307		**Half Round, Vinyl Gutter Miters** *(07 71 23 00-0303)*		
07 71 23 00-0308	EA	4", Half Round Vinyl Gutter Miter	19.36	
07 71 23 00-0309	EA	5", Half Round Vinyl Gutter Miter	21.03	
07 71 23 00-0310		**Vinyl Downspouts** *(07 71 23 00-0288)*		
		Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0311		**Round Vinyl Downspouts** *(07 71 23 00-0310)*		
07 71 23 00-0312	LF	2-1/2" Diameter, Round Vinyl Downspout	8.27	3.20
		For Up To 100', Add	*1.35*	
		For >100 To 250', Add	*0.59*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0313	LF	3" Diameter, Round Vinyl Downspout	8.62	3.20
		For Up To 100', Add	*1.38*	
		For >100 To 250', Add	*0.60*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0314		**Square Vinyl Downspouts** *(07 71 23 00-0310)*		
07 71 23 00-0315	LF	2-1/2", Square Vinyl Downspout	8.12	3.20
		For Up To 100', Add	*1.33*	
		For >100 To 250', Add	*0.58*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0316		**Rectangular Vinyl Downspouts** *(07 71 23 00-0310)*		
07 71 23 00-0317	LF	2" x 3", Rectangular Vinyl Downspout	10.39	3.20
		For Up To 100', Add	*1.56*	
		For >100 To 250', Add	*0.69*	
		For >1,000', Deduct	*-0.35*	
07 71 23 00-0318		**Gutter And Downspout Boots** *(07 71 23)*		
07 71 23 00-0319		**Cast Iron Roof Drainage Downspout Boots** *(07 71 23 00-0318)*		
07 71 23 00-0320	EA	2" x 3" x 18" Long, Cast Iron Roof Drainage Downspout Boot	356.92	4.80
07 71 23 00-0321	EA	3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot	465.47	4.80
07 71 23 00-0322	EA	4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot	555.72	4.80
07 71 23 00-0323		**Cast Iron Roof Drainage Downspout Boots With Cleanouts** *(07 71 23 00-0318)*		
07 71 23 00-0324	EA	3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	617.19	4.80
07 71 23 00-0325	EA	4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	754.17	4.80
07 71 23 00-0326	EA	5" x 7" x 30" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	1,369.28	4.80
07 71 23 00-0327		**Wall Mounted Downspout Covers With Hinged Perforated Cover** *(07 71 23)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0328	EA	3" Diameter Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-03)	1,233.99	32.30
		For Polished Brass Finish (-PB), Add	*116.94*	
		For Chrome Plated Finish (-CP), Add	*175.41*	
		For Vandal Proof (-U), Add	*58.47*	
07 71 23 00-0329	EA	4" Diameter Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-04)	1,255.52	43.07
		For Polished Brass Finish (-PB), Add	*116.94*	
		For Chrome Plated Finish (-CP), Add	*175.41*	
		For Vandal Proof (-U), Add	*58.47*	
07 71 23 00-0330	EA	6" Diameter Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-06)	1,346.88	55.92
		For Polished Brass Finish (-PB), Add	*123.50*	
		For Chrome Plated Finish (-CP), Add	*185.26*	
		For Vandal Proof (-U), Add	*61.75*	
07 71 23 00-0331	EA	8" Diameter Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-08)	1,435.68	70.61
		For Polished Brass Finish (-PB), Add	*129.45*	
		For Chrome Plated Finish (-CP), Add	*194.17*	
		For Vandal Proof (-U), Add	*64.72*	
07 71 23 00-0332	EA	10" Diameter Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-10)	1,543.72	86.99
		For Polished Brass Finish (-PB), Add	*136.98*	
		For Chrome Plated Finish (-CP), Add	*205.46*	
		For Vandal Proof (-U), Add	*68.49*	
07 71 23 00-0333	EA	12" Diameter PipeSize, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-12)	1,695.85	121.44
		For Polished Brass Finish (-PB), Add	*145.30*	
		For Chrome Plated Finish (-CP), Add	*217.94*	
		For Vandal Proof (-U), Add	*72.65*	
07 71 23 00-0334	EA	15" Diameter Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-15)	1,872.81	168.89
		For Polished Brass Finish (-PB), Add	*153.50*	
		For Chrome Plated Finish (-CP), Add	*230.25*	
		For Vandal Proof (-U), Add	*76.75*	

07 71 23 00-0335 Wall Mounted Downspout Nozzle *(07 71 23)*

07 71 23 00-0336	EA	3" Diameter Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-03)	317.05	32.30
		For Nickel Bronze Finish (-NB), Add	*176.71*	
		For Polished Bronze Finish (-PB), Add	*138.84*	
		For Chrome Plated Finish (-CP), Add	*224.67*	
07 71 23 00-0337	EA	4" Diameter Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-04)	338.58	43.07
		For Nickel Bronze Finish (-NB), Add	*176.71*	
		For Polished Bronze Finish (-PB), Add	*138.84*	
		For Chrome Plated Finish (-CP), Add	*224.67*	
07 71 23 00-0338	EA	6" Diameter Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-06)	710.68	55.92
		For Nickel Bronze Finish (-NB), Add	*179.65*	
		For Polished Bronze Finish (-PB), Add	*101.80*	
		For Chrome Plated Finish (-CP), Add	*263.49*	
07 71 23 00-0339	EA	8" Diameter Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-08)	1,050.23	70.61
		For Nickel Bronze Finish (-NB), Add	*154.53*	
		For Polished Bronze Finish (-PB), Add	*118.17*	
		For Chrome Plated Finish (-CP), Add	*263.62*	
07 71 23 00-0340	EA	10" Diameter Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-10)	1,354.11	86.99
		For Nickel Bronze Finish (-NB), Add	*200.62*	
		For Polished Bronze Finish (-PB), Add	*153.42*	
		For Chrome Plated Finish (-CP), Add	*342.24*	
07 71 23 00-0341	EA	12" Diameter Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-12)	1,727.54	121.44
		For Nickel Bronze Finish (-NB), Add	*252.39*	
		For Polished Bronze Finish (-PB), Add	*193.00*	
		For Chrome Plated Finish (-CP), Add	*430.55*	

07 71 23 00-0342 Leaf Guards And Cleaning *(07 71 23)*

07 71 23 00-0343	LF	Aluminum Mesh Gutter Leaf Guard	5.09	1.15
		For Up To 100', Add	*0.85*	
		For >100' To 250', Add	*0.37*	
		For >1,000', Deduct	*-0.23*	
07 71 23 00-0344	LF	Vinyl Mesh Gutter Leaf Guard	3.53	1.15
		For Up To 100', Add	*0.69*	
		For >100' To 250', Add	*0.29*	
		For >1,000', Deduct	*-0.23*	
07 71 23 00-0345	LF	6" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire	17.37	1.43
		For Up To 100', Add	*2.17*	
		For >100' To 250', Add	*1.01*	
		For >1,000', Deduct	*-0.29*	
07 71 23 00-0346	LF	9" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire	24.64	1.43
		For Up To 100', Add	*2.90*	
		For >100' To 250', Add	*1.38*	
		For >1,000', Deduct	*-0.29*	
07 71 23 00-0347	LF	6" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh	13.23	1.43
		For Up To 100', Add	*1.66*	
		For >100' To 250', Add	*0.78*	
		For >1,000', Deduct	*-0.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0348	LF	9" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh	20.20	1.43
		For Up To 100', Add	*2.36*	
		For >100' To 250', Add	*1.12*	
		For >1,000', Deduct	*-0.23*	
07 71 23 00-0349	EA	Cleanout Roof Drain Note: Includes removing dome and flushing.	187.76	
07 71 23 00-0350	LF	Cleanout Roof Gutters And Downspouts	2.19	

07 71 26 Reglets *(07 71)*

07 71 26 00-0001 Counter Flashing With Reglet *(07 71 26)*
Note: Includes reglet cut.

07 71 26 00-0002 Galvanized Steel Counter Flashing With Reglet *(07 71 26 00-0001)*

07 71 26 00-0003 Galvanized Steel Counter Flashing With Reglet *(07 71 26 00-0002)*

07 71 26 00-0004	LF	28 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	18.68	6.16
07 71 26 00-0005	LF	26 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	18.86	6.16
07 71 26 00-0006	LF	24 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	19.16	6.16
07 71 26 00-0007	LF	22 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	20.32	6.16
07 71 26 00-0008	LF	20 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	20.98	6.16
07 71 26 00-0009	LF	18 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	21.74	6.16

07 71 26 00-0010 KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet *(07 71 26 00-0002)*

07 71 26 00-0011	LF	28 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet	21.55	6.16
07 71 26 00-0012	LF	26 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet	21.81	6.16
07 71 26 00-0013	LF	24 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet	22.25	6.16
07 71 26 00-0014	LF	22 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet	23.92	6.16
07 71 26 00-0015	LF	20 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet	24.88	6.16
07 71 26 00-0016	LF	18 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet	25.98	6.16

07 71 26 00-0017 Aluminum Counter Flashing With Reglet *(07 71 26 00-0001)*

07 71 26 00-0018 KYNAR 500® Finish, Aluminum Counter Flashing With Reglet *(07 71 26 00-0017)*

07 71 26 00-0019	LF	0.019" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet	16.29	6.16
07 71 26 00-0020	LF	0.025" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet	16.92	6.16
07 71 26 00-0021	LF	0.032" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet	17.55	6.16
07 71 26 00-0022	LF	0.040" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet	18.00	6.16
07 71 26 00-0023	LF	0.050" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet	19.01	6.16
07 71 26 00-0024	LF	0.063" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet	20.48	6.16

07 71 26 00-0025 Mill Finish, Aluminum Counter Flashing With Reglet *(07 71 26 00-0017)*

07 71 26 00-0026	LF	0.019" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	14.85	6.16
07 71 26 00-0027	LF	0.025" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	15.25	6.16
07 71 26 00-0028	LF	0.032" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	15.65	6.16
07 71 26 00-0029	LF	0.040" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	15.94	6.16
07 71 26 00-0030	LF	0.050" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	16.59	6.16
07 71 26 00-0031	LF	0.063" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	17.53	6.16

07 71 26 00-0032 Clear Anodized Finish, Aluminum Counter Flashing With Reglet *(07 71 26 00-0017)*

07 71 26 00-0033	LF	0.019" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	15.99	6.16
07 71 26 00-0034	LF	0.025" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	16.58	6.16
07 71 26 00-0035	LF	0.032" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	17.16	6.16
07 71 26 00-0036	LF	0.040" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	17.58	6.16
07 71 26 00-0037	LF	0.050" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	18.52	6.16
07 71 26 00-0038	LF	0.063" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	19.87	6.16

07 71 26 00-0039 Stainless Steel Counter Flashing With Reglet *(07 71 26 00-0001)*

07 71 26 00-0040 Stainless Steel Counter Flashing With Reglet *(07 71 26 00-0039)*

07 71 26 00-0041	LF	24 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet	22.06	6.16
07 71 26 00-0042	LF	22 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet	23.36	6.16
07 71 26 00-0043	LF	20 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet	23.79	6.16

07 71 26 00-0044 Copper Counter Flashing With Reglet *(07 71 26 00-0001)*

07 71 26 00-0045 Copper Counter Flashing With Reglet *(07 71 26 00-0044)*

07 71 26 00-0046	LF	16 Ounce, Up To 12" Wide, Copper Counter Flashing With Reglet	51.75	6.16

07 72 Roof Accessories *(07 70)*

07 72 13 Manufactured Curbs *(07 72)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0001		Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13)*		
		Note: Includes fasteners and sealants. Excludes flashing. See CSI section 07 62 13 00-0000 for flashinig and trim.		
07 72 13 00-0002		Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13 00-0001)*		
		Note: Includes pressure treated wood nailer, 1-1/2" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction, installation clips and 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips.		
07 72 13 00-0003		18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13 00-0002)*		
07 72 13 00-0004		9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13 00-0003)*		
07 72 13 00-0005	EA	26" x 26" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,084.03	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*72.94*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*181.34*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0006	EA	26" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,099.97	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*74.53*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*184.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-51.29*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*12.25*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.94*	
07 72 13 00-0007	EA	26" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,196.61	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*79.76*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*199.42*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0008	EA	26" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,257.73	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*85.88*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*211.65*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-83.59*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*18.53*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.41*	
07 72 13 00-0009	EA	26" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,302.91	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*90.39*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*220.68*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0010	EA	26" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,572.31	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*112.90*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*270.13*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-138.68*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-36.55*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*6.55*	
07 72 13 00-0011	EA	38" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,105.29	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*75.06*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*185.59*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*11.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.69*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*143.53*	
07 72 13 00-0012	EA	38" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,199.26	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*80.03*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*199.95*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-79.79*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*15.52*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*54.10*	
07 72 13 00-0013	EA	38" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,233.81	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*83.48*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*206.86*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0014	EA	38" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,247.10	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*84.81*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*209.52*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0015	EA	38" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,529.78	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*108.65*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*261.63*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0016	EA	38" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,674.25	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*118.66*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*286.09*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*33.36*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*171.79*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*226.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0017	EA	50" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,321.52	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*92.25*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*224.41*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0018	EA	50" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,444.74	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*100.14*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*244.62*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-123.47*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-30.44*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*14.94*	
07 72 13 00-0019	EA	50" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,473.97	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*103.07*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*250.46*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0020	EA	50" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,618.43	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*113.08*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*274.92*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-170.98*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-68.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*3.76*	
07 72 13 00-0021	EA	51" x 99" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,739.00	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*120.70*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*294.60*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0022	EA	51" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,880.81	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*130.45*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*318.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-235.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-92.59*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-15.45*	
07 72 13 00-0023	EA	62" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,473.97	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*103.07*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*250.46*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0024	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,589.20	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*110.16*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*269.08*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0025	EA	62" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,736.34	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*120.44*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*294.07*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-231.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-120.56*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-54.75*	
07 72 13 00-0026	EA	62" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,762.92	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*123.10*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*299.39*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	
07 72 13 00-0027	EA	62" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,910.04	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*133.37*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*324.38*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-292.55*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-179.10*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-33.85*	

07 72 13 00-0028 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13 00-0003)*

07 72 13 00-0029	EA	26" x 26" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,118.58	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*76.39*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*188.25*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0030	EA	26" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,126.55	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*77.19*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*189.85*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-51.29*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*12.25*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0031	EA	26" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,223.18	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*82.42*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*204.74*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0032	EA	26" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,292.28	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*89.33*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*218.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-83.59*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*18.53*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.41*	
07 72 13 00-0033	EA	26" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,342.78	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*94.38*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*228.66*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0034	EA	26" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,604.20	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*116.09*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*276.51*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-138.68*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-36.55*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*6.55*	
07 72 13 00-0035	EA	38" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,129.21	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*77.46*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*190.38*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*11.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.69*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*143.53*	
07 72 13 00-0036	EA	38" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,271.02	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*87.20*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*214.31*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-79.79*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*15.52*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*54.10*	
07 72 13 00-0037	EA	38" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,324.17	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*92.52*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*224.94*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0038	EA	38" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,385.30	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*98.63*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*237.16*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0039	EA	38" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,572.31	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*112.90*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*270.13*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0040	EA	38" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,727.40	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*123.98*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*296.72*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*33.36*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*171.79*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*226.25*	
07 72 13 00-0041	EA	50" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,353.41	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*95.44*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*230.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0042	EA	50" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,471.31	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*102.80*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*249.93*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-123.47*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-30.44*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*14.94*	
07 72 13 00-0043	EA	50" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,513.84	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*107.05*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*258.44*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0044	EA	50" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,660.96	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*117.33*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*283.43*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-170.98*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-68.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*3.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0045	EA	51" x 99" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,789.49	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*125.75*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*304.70*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0046	EA	51" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,939.28	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*136.30*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*330.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-235.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-92.59*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-15.45*	
07 72 13 00-0047	EA	62" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,513.84	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*107.05*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*258.44*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0048	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,631.72	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*114.41*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*277.58*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0049	EA	62" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,781.52	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*124.96*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*303.11*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-231.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-120.56*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-54.75*	
07 72 13 00-0050	EA	62" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,816.07	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*128.41*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*310.02*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	
07 72 13 00-0051	EA	62" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,968.51	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*139.22*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*336.07*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-292.55*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-179.10*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-33.85*	

07 72 13 00-0052 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13 00-0003)*

07 72 13 00-0053	EA	26" x 26" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,137.18	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*78.25*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*191.97*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0054	EA	26" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,145.15	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*79.05*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*193.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-51.29*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*12.25*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.94*	
07 72 13 00-0055	EA	26" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,236.47	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*83.75*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*207.40*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0056	EA	26" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,313.54	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*91.46*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*222.81*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-83.59*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*18.53*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.41*	
07 72 13 00-0057	EA	26" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,372.01	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*97.30*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*234.50*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0058	EA	26" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,641.41	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*119.81*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*283.95*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-138.68*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-36.55*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*6.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0059	EA	38" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,145.15	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*79.05*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*193.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*11.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.69*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*143.53*	
07 72 13 00-0060	EA	38" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,236.47	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*83.75*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*207.40*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-79.79*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*15.52*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*54.10*	
07 72 13 00-0061	EA	38" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,372.01	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*97.30*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*234.50*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0062	EA	38" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,435.80	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*103.68*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*247.26*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0063	EA	38" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,604.20	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*116.09*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*276.51*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0064	EA	38" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,761.95	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*127.43*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*303.63*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*33.36*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*171.79*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*226.25*	
07 72 13 00-0065	EA	50" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,374.67	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*97.57*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*235.04*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0066	EA	50" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,410.83	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*96.75*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*237.84*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-123.47*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-30.44*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*14.94*	
07 72 13 00-0067	EA	50" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,540.41	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*109.71*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*263.75*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0068	EA	50" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,692.85	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*120.52*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*289.81*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-170.98*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-68.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*3.76*	
07 72 13 00-0069	EA	51" x 99" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,821.38	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*128.94*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*311.08*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0070	EA	51" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,976.49	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*140.02*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*337.67*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-235.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-92.59*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-15.45*	
07 72 13 00-0071	EA	62" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,540.41	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*109.71*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*263.75*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0072	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,660.96	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*117.33*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*283.43*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0073	EA	62" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,816.07	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*128.41*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*310.02*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-231.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-120.56*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-54.75*	
07 72 13 00-0074	EA	62" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,850.62	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*131.87*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*316.93*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	
07 72 13 00-0075	EA	62" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	2,008.38	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*143.21*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*344.05*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-292.55*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-179.10*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-33.85*	
07 72 13 00-0076		14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13 00-0002)*		
07 72 13 00-0077		9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13 00-0076)*		
07 72 13 00-0078	EA	26" x 26" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,054.79	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*70.01*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*175.49*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0079	EA	26" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,089.34	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*73.47*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*182.40*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-51.29*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*12.25*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.94*	
07 72 13 00-0080	EA	26" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,244.44	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*84.55*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*208.99*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0081	EA	26" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,324.17	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*92.52*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*224.94*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-83.59*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*18.53*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.41*	
07 72 13 00-0082	EA	26" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,382.64	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*98.37*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*236.63*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0083	EA	26" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,683.93	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*124.06*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*292.46*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-138.68*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-36.55*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*6.55*	
07 72 13 00-0084	EA	38" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,153.13	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*79.85*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*195.16*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*11.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.69*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*143.53*	
07 72 13 00-0085	EA	38" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,265.71	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*86.67*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*213.24*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-79.79*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*15.52*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*54.10*	
07 72 13 00-0086	EA	38" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,292.28	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*89.33*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*218.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0087	EA	38" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,316.20	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*91.72*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*223.34*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0088	EA	38" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,620.15	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*117.68*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*279.70*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0089	EA	38" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,780.55	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*129.29*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*307.35*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*33.36*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*171.79*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*226.25*	
07 72 13 00-0090	EA	50" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,385.30	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*98.63*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*237.16*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0091	EA	50" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,511.18	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*106.79*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*257.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-123.47*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-30.44*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*14.94*	
07 72 13 00-0092	EA	50" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,553.70	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*111.04*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*266.41*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0093	EA	50" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,708.80	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*122.12*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*293.00*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-170.98*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-68.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*3.76*	
07 72 13 00-0094	EA	51" x 99" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,837.33	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*130.54*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*314.27*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0095	EA	51" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,995.09	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*141.88*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*341.39*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-235.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-92.59*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-15.45*	
07 72 13 00-0096	EA	62" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,553.70	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*111.04*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*266.41*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0097	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,674.25	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*118.66*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*286.09*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0098	EA	62" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,832.02	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*130.01*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*313.21*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-231.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-120.56*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-54.75*	
07 72 13 00-0099	EA	62" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,869.22	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*133.73*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*320.65*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	
07 72 13 00-0100	EA	62" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	2,029.64	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*145.33*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*348.30*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-292.55*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-179.10*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-33.85*	

07 72 13 00-0101 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13 00-0076)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0102	EA	26" x 26" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,078.71	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*72.41*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*180.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0103	EA	26" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,118.58	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*76.39*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*188.25*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-51.29*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*12.25*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.94*	
07 72 13 00-0104	EA	26" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,284.31	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*88.53*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*216.96*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0105	EA	26" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,372.01	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*97.30*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*234.50*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-83.59*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*18.53*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.41*	
07 72 13 00-0106	EA	26" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,443.77	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*104.48*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*248.86*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0107	EA	26" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,694.56	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*125.13*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*294.58*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-138.68*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-36.55*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*6.55*	
07 72 13 00-0108	EA	38" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,187.68	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*83.30*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*202.07*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*11.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.69*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*143.53*	
07 72 13 00-0109	EA	38" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,308.23	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*90.93*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*221.75*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-79.79*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*15.52*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*54.10*	
07 72 13 00-0110	EA	38" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,342.78	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*94.38*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*228.66*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0111	EA	38" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,374.67	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*97.57*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*235.04*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0112	EA	38" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,683.93	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*124.06*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*292.46*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0113	EA	38" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,857.63	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*137.00*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*322.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*33.36*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*171.79*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*226.25*	
07 72 13 00-0114	EA	50" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,433.14	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*103.42*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*246.73*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0115	EA	50" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,564.33	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*112.10*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*268.54*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-123.47*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-30.44*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*14.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0116	EA	50" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,614.83	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*117.15*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*278.64*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0117	EA	50" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,772.58	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*128.49*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*305.75*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-170.98*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-68.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*3.76*	
07 72 13 00-0118	EA	51" x 99" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,911.75	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*137.98*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*329.15*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0119	EA	51" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	2,080.14	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*150.38*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*358.40*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-235.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-92.59*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-15.45*	
07 72 13 00-0120	EA	62" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,614.83	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*117.15*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*278.64*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0121	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,743.35	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*125.57*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*299.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0122	EA	62" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,906.43	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*137.45*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*328.09*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-231.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-120.56*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-54.75*	
07 72 13 00-0123	EA	62" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,946.30	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*141.43*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*336.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	
07 72 13 00-0124	EA	62" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	2,120.00	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*154.37*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*366.37*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-292.55*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-179.10*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-33.85*	

07 72 13 00-0125 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs *(07 72 13 00-0076)*

07 72 13 00-0126	EA	26" x 26" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,097.31	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*74.27*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*184.00*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0127	EA	26" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,139.84	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*78.52*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*192.50*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-51.29*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*12.25*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.94*	
07 72 13 00-0128	EA	26" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,308.23	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*90.93*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*221.75*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0129	EA	26" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,403.91	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*100.49*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*240.88*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-83.59*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*18.53*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*34.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0130	EA	26" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,483.64	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*108.47*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*256.83*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0131	EA	26" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,779.61	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*133.63*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*311.59*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-138.68*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-36.55*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*6.55*	
07 72 13 00-0132	EA	38" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,214.25	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*85.96*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*207.39*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*11.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.69*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*143.53*	
07 72 13 00-0133	EA	38" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,353.41	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*95.44*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*230.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-79.79*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*15.52*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*54.10*	
07 72 13 00-0134	EA	38" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,401.25	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*100.23*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*240.35*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0135	EA	38" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,411.88	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*101.29*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*242.48*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0136	EA	38" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,731.77	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*128.85*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*302.02*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0137	EA	38" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,910.78	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*142.31*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*333.39*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*33.36*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*171.79*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*226.25*	
07 72 13 00-0138	EA	50" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,465.03	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*106.61*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*253.11*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0139	EA	50" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,494.79	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*105.15*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*254.63*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-123.47*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-30.44*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*14.94*	
07 72 13 00-0140	EA	50" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,654.70	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*121.14*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*286.61*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0141	EA	50" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,820.42	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*133.28*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*315.32*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-170.98*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-68.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*3.76*	
07 72 13 00-0142	EA	51" x 99" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,959.58	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*142.76*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*338.72*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0143	EA	51" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	2,138.61	461.04
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*156.23*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*370.09*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-235.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-92.59*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-15.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0144	EA	62" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,654.70	354.65
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*121.14*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*286.61*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0145	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,791.18	390.11
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*130.35*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*309.47*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0146	EA	62" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,951.61	425.57
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*141.96*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*337.13*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-231.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-120.56*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-54.75*	
07 72 13 00-0147	EA	62" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	1,999.45	425.57
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*146.75*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*346.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	
07 72 13 00-0148	EA	62" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	2,178.47	461.04
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*160.22*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*378.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-292.55*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-179.10*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*-33.85*	

07 72 13 00-0149 Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs *(07 72 13 00-0001)*

Note: Includes 1" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction and installation clips.

07 72 13 00-0150 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs *(07 72 13 00-0149)*

07 72 13 00-0151	EA	14-1/2" To 23" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,038.31	283.71
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*68.37*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*172.20*	
07 72 13 00-0152	EA	23-1/2" To 32" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,184.38	283.71
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*82.97*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*201.41*	
07 72 13 00-0153	EA	32-1/2" To 41" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,354.27	319.18
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*95.53*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*230.96*	
07 72 13 00-0154	EA	41" To 49-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,470.90	319.18
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*107.19*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*254.28*	
07 72 13 00-0155	EA	50" To 58-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,627.39	354.65
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*118.41*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*281.15*	

07 72 13 00-0156 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs *(07 72 13 00-0149)*

07 72 13 00-0157	EA	14-1/2" To 23" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,252.20	283.71
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*89.76*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*214.98*	
07 72 13 00-0158	EA	23-1/2" To 32" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,450.43	283.71
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*109.58*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*254.62*	
07 72 13 00-0159	EA	32-1/2" To 41" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,544.68	319.18
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*114.57*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*269.04*	
07 72 13 00-0160	EA	41" To 49-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,619.20	319.18
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*122.02*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*283.94*	
07 72 13 00-0161	EA	50" To 58-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,812.20	354.65
		For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add	*136.89*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*318.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0162	EA	64" To 72-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	2,813.00	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*232.54*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*513.84*	
07 72 13 00-0163		**18" To 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs** *(07 72 13 00-0149)*		
07 72 13 00-0164	EA	17-1/2" To 22" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,603.57	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*124.89*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*285.25*	
07 72 13 00-0165	EA	24" To 29" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	1,806.28	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*145.16*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*325.79*	
07 72 13 00-0166	EA	31" To 46" Square Outside Dimensions, 18" Height, 16 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb	2,135.65	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*173.67*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*387.23*	
07 72 13 00-0167		**Wood, Prefabricated Roof Curbs** *(07 72 13)*		
		Note: Includes Douglas fir construction, galvanized steel corner straps, fasteners, sealants, and installation clips. Includes 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.		
07 72 13 00-0168		**Wood Framed, Prefabricated Roof Curbs** *(07 72 13 00-0167)*		
07 72 13 00-0169		**2 x 6 Wood Framed, Prefabricated Roof Curbs** *(07 72 13 00-0168)*		
07 72 13 00-0170	EA	26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	893.10	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*53.85*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*143.16*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0171	EA	26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	995.38	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*59.64*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*159.18*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0172	EA	26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,054.38	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*65.54*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*170.98*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0173	EA	38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,047.57	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*64.86*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*169.62*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0174	EA	38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,063.46	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*66.45*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*172.79*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0175	EA	38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,190.71	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*74.74*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*193.81*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0176	EA	50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,058.92	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*65.99*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*171.89*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0177	EA	50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,211.13	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*76.78*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*197.90*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0178	EA	51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,388.45	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*85.65*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*224.49*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0179	EA	62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,170.28	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*72.70*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*189.73*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0180	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,286.16	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*79.85*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*208.47*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0181	EA	62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	1,433.84	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*90.19*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*233.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	

07 72 13 00-0182 2 x 8 Wood Framed, Prefabricated Roof Curbs *(07 72 13 00-0168)*

07 72 13 00-0183	EA	26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	906.72	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*55.21*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*145.88*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0184	EA	26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,011.26	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*61.23*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*162.35*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0185	EA	26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,097.50	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*69.85*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*179.60*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0186	EA	38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,074.80	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*67.58*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*175.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0187	EA	38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,097.50	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*69.85*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*179.60*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0188	EA	38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,224.75	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*78.14*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*200.62*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0189	EA	50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,083.88	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*68.49*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*176.88*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0190	EA	50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,242.90	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*79.96*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*204.25*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0191	EA	51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,420.22	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*88.83*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*230.85*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0192	EA	62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,195.24	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*75.19*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*194.72*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0193	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,315.67	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*82.80*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*214.37*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0194	EA	62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	1,465.61	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*93.36*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*239.93*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	

07 72 13 00-0195 2 x 10 Wood Framed, Prefabricated Roof Curbs *(07 72 13 00-0168)*

07 72 13 00-0196	EA	26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	915.80	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*56.12*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*147.70*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0197	EA	26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,027.15	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*62.82*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*165.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0198	EA	26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,102.04	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*70.31*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*180.51*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0199	EA	38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,090.69	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*69.17*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*178.24*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0200	EA	38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,117.92	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*71.89*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*183.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0201	EA	38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,247.44	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*80.41*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*205.16*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0202	EA	50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,099.77	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*70.08*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*180.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0203	EA	50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,263.32	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*82.00*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*208.33*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0204	EA	51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,440.64	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*90.87*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*234.93*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0205	EA	62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,211.13	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*76.78*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*197.90*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0206	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,333.82	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*84.62*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*218.00*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0207	EA	62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	1,488.30	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*95.63*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*244.46*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	

07 72 13 00-0208 2 x 12 Wood Framed, Prefabricated Roof Curbs *(07 72 13 00-0168)*

07 72 13 00-0209	EA	26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb	927.14	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*57.25*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*149.96*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0210	EA	26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb	1,036.23	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*63.73*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*167.35*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0211	EA	26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb	1,122.46	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*72.35*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*184.59*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0212	EA	38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb	1,140.61	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*74.16*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*188.22*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0213	EA	38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb	1,272.40	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*82.91*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*210.15*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0214	EA	50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb	1,120.19	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*72.12*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*184.14*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0215	EA	50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb	1,286.02	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*84.27*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*212.87*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0216	EA	51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb	1,467.88	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*93.59*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*240.38*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0217	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb	1,351.97	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*86.43*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*221.63*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	

07 72 13 00-0218 Wood Framed With Liner, Prefabricated Roof Curbs *(07 72 13 00-0167)*

07 72 13 00-0219 2 x 6 Wood Framed With Liner, Prefabricated Roof Curbs *(07 72 13 00-0218)*

07 72 13 00-0220	EA	26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	911.26	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*55.66*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*146.79*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0221	EA	26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,011.26	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*61.23*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*162.35*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0222	EA	26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,083.88	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*68.49*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*176.88*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0223	EA	38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,068.00	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*66.90*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*173.70*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0224	EA	38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,088.42	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*68.94*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*177.79*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0225	EA	38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,217.94	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*77.46*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*199.26*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0226	EA	50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,079.34	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*68.04*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*175.97*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0227	EA	50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,236.09	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*79.28*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*202.89*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0228	EA	51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,413.41	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*88.14*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*229.49*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0229	EA	62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,197.51	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*75.42*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*195.17*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0230	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,311.13	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*82.35*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*213.46*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0231	EA	62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,465.61	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*93.36*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*239.93*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	

07 72 13 00-0232 2 x 8 Wood Framed With Liner, Prefabricated Roof Curbs *(07 72 13 00-0218)*

07 72 13 00-0233	EA	26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	927.14	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*57.25*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*149.96*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0234	EA	26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,029.42	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*63.04*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*165.99*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0235	EA	26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,111.11	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*71.21*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*182.32*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0236	EA	38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,095.23	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*69.63*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*179.15*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0237	EA	38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,124.73	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*72.58*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*185.05*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0238	EA	38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,258.79	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*81.55*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*207.43*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0239	EA	50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,111.11	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*71.21*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*182.32*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0240	EA	50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,274.67	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*83.14*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*210.60*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0241	EA	51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,456.53	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*92.46*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*238.11*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0242	EA	62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,227.02	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*78.37*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*201.07*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0243	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,345.17	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*85.75*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*220.27*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0244	EA	62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,504.18	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*97.22*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*247.64*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	

07 72 13 00-0245 2 x 10 Wood Framed With Liner, Prefabricated Roof Curbs *(07 72 13 00-0218)*

07 72 13 00-0246	EA	26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	940.76	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*58.61*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*152.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0247	EA	26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,047.57	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*64.86*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*169.62*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0248	EA	26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,138.35	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*73.94*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*187.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0249	EA	38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,115.65	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*71.67*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*183.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-98.77*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*1.06*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.83*	
07 72 13 00-0250	EA	38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,151.96	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*75.30*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*190.49*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0251	EA	38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,288.29	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*84.50*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*213.33*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0252	EA	50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,131.54	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*73.26*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*186.41*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	
07 72 13 00-0253	EA	50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,299.63	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*85.63*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*215.60*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0254	EA	51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,483.76	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*95.18*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*243.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0255	EA	62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,249.71	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*80.64*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*205.61*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.91*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*102.80*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*189.03*	
07 72 13 00-0256	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,370.13	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*88.25*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*225.26*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	
07 72 13 00-0257	EA	62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,533.69	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*100.17*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*253.54*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*41.53*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*152.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*266.19*	

07 72 13 00-0258 2 x 12 Wood Framed With Liner, Prefabricated Roof Curbs *(07 72 13 00-0218)*

07 72 13 00-0259	EA	26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	967.99	283.71
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*61.33*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*158.13*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-41.78*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*5.86*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*30.82*	
07 72 13 00-0260	EA	26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	1,061.19	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*66.22*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*172.34*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-62.69*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*16.73*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*32.62*	
07 72 13 00-0261	EA	26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	1,158.77	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*75.98*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*191.86*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*20.76*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*131.96*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*145.58*	
07 72 13 00-0262	EA	38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	1,174.65	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*77.57*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*195.03*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*21.10*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*130.03*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*159.53*	
07 72 13 00-0263	EA	38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	1,374.52	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*93.12*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*230.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*27.23*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*147.50*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*192.89*	
07 72 13 00-0264	EA	50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	1,197.35	319.18
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*79.84*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*199.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-102.57*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-2.72*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*22.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0265	EA	50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	1,379.06	354.65
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*93.58*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*231.48*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-146.28*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-66.84*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*10.30*	
07 72 13 00-0266	EA	51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	1,574.53	425.57
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*104.26*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*261.71*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*35.06*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*162.14*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*218.87*	
07 72 13 00-0267	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	1,454.09	390.11
		For Sloped Roofs Up To 1 In 12 Pitch, Add	*96.65*	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	*242.05*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	*-178.56*	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	*-67.38*	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	*2.96*	

07 72 23 Relief Vents *(07 72)*

07 72 23 00-0001 Wind Driven Turbine Ventilators *(07 72 23)*

Note: Excludes curb or flange base.

07 72 23 00-0002 Galvanized Steel, Wind Driven Turbine Ventilators *(07 72 23 00-0001)*

07 72 23 00-0003	EA	6" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	204.69	37.25
		For Curb Or Flange Base, Add	*223.24*	
07 72 23 00-0004	EA	9" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	246.38	41.24
		For Curb Or Flange Base, Add	*245.00*	
07 72 23 00-0005	EA	12" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	264.76	49.22
		For Curb Or Flange Base, Add	*271.34*	
07 72 23 00-0006	EA	15" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	518.50	54.54
		For Curb Or Flange Base, Add	*445.79*	
07 72 23 00-0007	EA	18" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	717.60	61.19
		For Curb Or Flange Base, Add	*482.17*	
07 72 23 00-0008	EA	21" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	867.73	66.51
		For Curb Or Flange Base, Add	*523.61*	
07 72 23 00-0009	EA	24" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	1,110.87	74.49
		For Curb Or Flange Base, Add	*643.55*	
07 72 23 00-0010	EA	36" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	1,840.92	99.77
		For Curb Or Flange Base, Add	*1,063.47*	

07 72 23 00-0011 Mill Finish Aluminum, Wind Driven Turbine Ventilators *(07 72 23 00-0001)*

07 72 23 00-0012	EA	6" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	169.37	37.25
		For Curb Or Flange Base, Add	*204.87*	
07 72 23 00-0013	EA	9" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	210.83	41.24
		For Curb Or Flange Base, Add	*225.78*	
07 72 23 00-0014	EA	12" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	236.37	49.22
		For Curb Or Flange Base, Add	*251.07*	
07 72 23 00-0015	EA	15" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	418.56	54.54
		For Curb Or Flange Base, Add	*424.27*	
07 72 23 00-0016	EA	18" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	539.46	61.19
		For Curb Or Flange Base, Add	*453.86*	
07 72 23 00-0017	EA	21" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	681.62	66.51
		For Curb Or Flange Base, Add	*510.90*	
07 72 23 00-0018	EA	24" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	919.38	74.49
		For Curb Or Flange Base, Add	*616.22*	
07 72 23 00-0019	EA	36" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	1,368.67	99.77
		For Curb Or Flange Base, Add	*924.47*	

07 72 23 00-0020 Stationary Siphon Ventilators *(07 72 23)*

Note: Excludes curb or flange base.

07 72 23 00-0021 Galvanized Steel, Stationary Siphon Ventilators *(07 72 23 00-0020)*

07 72 23 00-0022	EA	6" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	171.43	37.25
		For Curb Or Flange Base, Add	*223.24*	
07 72 23 00-0023	EA	9" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	227.35	41.24
		For Curb Or Flange Base, Add	*245.00*	
07 72 23 00-0024	EA	12" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	249.17	49.22
		For Curb Or Flange Base, Add	*271.34*	
07 72 23 00-0025	EA	15" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	433.15	54.54
		For Curb Or Flange Base, Add	*445.79*	
07 72 23 00-0026	EA	18" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	501.60	61.19
		For Curb Or Flange Base, Add	*482.17*	
07 72 23 00-0027	EA	21" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	715.09	66.51
		For Curb Or Flange Base, Add	*523.61*	
07 72 23 00-0028	EA	24" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	933.96	74.49
		For Curb Or Flange Base, Add	*643.55*	
07 72 23 00-0029	EA	36" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	1,355.61	99.77
		For Curb Or Flange Base, Add	*1,063.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 23 00-0030		**Mill Finish Aluminum, Stationary Siphon Ventilators** *(07 72 23 00-0020)*		
07 72 23 00-0031	EA	6" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator	162.92	37.25
		For Curb Or Flange Base, Add	*204.87*	
07 72 23 00-0032	EA	9" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator	214.69	41.24
		For Curb Or Flange Base, Add	*225.78*	
07 72 23 00-0033	EA	12" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator	239.61	49.22
		For Curb Or Flange Base, Add	*251.07*	
07 72 23 00-0034	EA	15" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator	388.18	54.54
		For Curb Or Flange Base, Add	*424.27*	
07 72 23 00-0035	EA	18" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator	487.85	61.19
		For Curb Or Flange Base, Add	*453.86*	
07 72 23 00-0036	EA	21" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator	597.74	66.51
		For Curb Or Flange Base, Add	*510.90*	
07 72 23 00-0037	EA	24" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator	854.89	74.49
		For Curb Or Flange Base, Add	*616.22*	
07 72 23 00-0038	EA	36" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator	1,286.23	99.77
		For Curb Or Flange Base, Add	*924.47*	
07 72 23 00-0039		**Spun Aluminum, Stationary Mushroom Gravity Ventilators** *(07 72 23)*		
		Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0040	EA	8" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	333.76	59.86
		For Backdraft Damper, Add	*175.19*	
		For Curb Base, Add	*260.19*	
07 72 23 00-0041	EA	10" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	411.55	66.51
		For Backdraft Damper, Add	*191.68*	
		For Curb Base, Add	*284.61*	
07 72 23 00-0042	EA	12" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	465.41	79.82
		For Backdraft Damper, Add	*261.75*	
		For Curb Base, Add	*360.90*	
07 72 23 00-0043	EA	16" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	567.82	87.80
		For Backdraft Damper, Add	*298.85*	
		For Curb Base, Add	*418.23*	
07 72 23 00-0044	EA	24" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	1,513.27	119.73
		For Backdraft Damper, Add	*375.11*	
		For Curb Base, Add	*550.63*	
07 72 23 00-0045	EA	30" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	1,848.38	138.35
		For Backdraft Damper, Add	*443.12*	
		For Curb Base, Add	*658.28*	
07 72 23 00-0046	EA	36" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	2,519.92	159.63
		For Backdraft Damper, Add	*443.12*	
		For Curb Base, Add	*684.72*	
07 72 23 00-0047	EA	42" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	3,544.53	172.94
		For Backdraft Damper, Add	*463.74*	
		For Curb Base, Add	*709.48*	
07 72 23 00-0048	EA	48" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	5,102.96	186.24
		For Backdraft Damper, Add	*515.26*	
		For Curb Base, Add	*798.15*	
07 72 23 00-0049		**Galvanized Steel, Stationary Gooseneck Ventilators** *(07 72 23)*		
		Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0050	EA	8" x 8", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	723.00	66.51
07 72 23 00-0051	EA	12" x 12", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	841.82	87.80
07 72 23 00-0052	EA	16" x 16", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	1,216.34	119.73
07 72 23 00-0053	EA	24" x 24", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	1,917.98	138.35
07 72 23 00-0054		**Low Profile Vent For Shingles, Shake, Slate and Metal Roof** *(07 72 23)*		
07 72 23 00-0055	EA	Galvanized Steel, Low Profile Tapered Vents With 64.80 Square Inch Net Ventilation Area, 1/8" Noncombustable Stainless Steel Wire Filament Note: Includes fire caulking	300.31	117.27

07 72 26 Ridge Vents *(07 72)*

07 72 26 00-0001		**Aluminum Ridge Vents** *(07 72 26)*		
07 72 26 00-0002	LF	Aluminum Ridge Vent Strips	18.53	3.86
07 72 26 00-0003	EA	Aluminum Ridge Univent Connectors	64.10	23.98
07 72 26 00-0004	EA	Aluminum Ridge Univent End Cap	58.09	23.98
07 72 26 00-0005		**Galvanized Ridge Vents** *(07 72 26)*		
07 72 26 00-0006	LF	Galvanized Sheet Metal Ridge Vent Strips	14.87	4.13
07 72 26 00-0007		**Stainless Steel Fire And Ember Continuous Soffit Vent** *(07 72 26)*		
07 72 26 00-0008	LF	2" Fire And Ember Continuous Soffit Vent With 1/2" Nailing Flanges On Both Sides Note: Includes fire caulking on both nailing flanges	28.74	
07 72 26 00-0009	LF	2-1/2" Fire And Ember Continuous Soffit Vent With 1/2" Nailing Flanges On Both Sides Note: Includes fire caulking on both nailing flanges	32.51	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 26 00-0010	LF	3" Fire And Ember Continuous Soffit Vent With 1/2" Nailing Flanges On Both Sides Note: Includes fire caulking on both nailing flanges	39.19	
07 72 26 00-0011	LF	3-1/2" Fire And Ember Continuous Soffit Vent With 1/2" Nailing Flanges On Both Sides Note: Includes fire caulking on both nailing flanges	43.66	
07 72 26 00-0012	LF	4" Fire And Ember Continuous Soffit Vent With 1/2" Nailing Flanges On Both Sides Note: Includes fire caulking on both nailing flanges	46.98	
07 72 26 00-0013	LF	5" Fire And Ember Continuous Soffit Vent With 1/2" Nailing Flanges On Both Sides Note: Includes fire caulking on both nailing flanges	54.98	
07 72 26 00-0014	LF	6" Fire And Ember Continuous Soffit Vent With 1/2" Nailing Flanges On Both Sides Note: Includes fire caulking on both nailing flanges	62.70	

07 72 29 Rafter Vent *(07 72)*

07 72 29 00-0001 Rafter Vent *(07 72 29)*

Note: Built-in baffle is designed to help keep air flowing freely from soffits to ridge vents.

07 72 29 00-0002	EA	22" x 4' Rafter Vent	12.23	
07 72 29 00-0003	EA	14" x 4' Rafter Vent	11.10	

07 72 33 Roof Hatches *(07 72)*

Note: Includes curb with integral insulation, lockable hatch and gaskets.

07 72 33 00-0001 Galvanized Steel Cover And Curb *(07 72 33)*

07 72 33 00-0002	EA	2'-6" x 3'-0" Galvanized Steel Roof Hatch	1,014.41	169.70
07 72 33 00-0003	EA	2'-6" x 4'-6" Galvanized Steel Roof Hatch	1,435.98	188.55
07 72 33 00-0004	EA	2'-6" x 8'-0" Galvanized Steel Roof Hatch	2,469.73	257.13
07 72 33 00-0005	EA	3'-0" x 3'-0" Galvanized Steel Roof Hatch	1,405.91	188.55
07 72 33 00-0006	EA	4'-0" x 4'-0" Galvanized Steel Roof Hatch	1,583.44	209.52
07 72 33 00-0007	EA	3'-0" x 8'-0" Galvanized Steel Roof Hatch	2,549.54	285.77

07 72 33 00-0008 Aluminum Cover And Curb *(07 72 33)*

07 72 33 00-0009	EA	2'-6" x 3'-0" Aluminum Roof Hatch	1,039.34	169.70
07 72 33 00-0010	EA	2'-6" x 4'-6" Aluminum Roof Hatch	1,326.73	188.55
07 72 33 00-0011	EA	2'-6" x 8'-0" Aluminum Roof Hatch	2,346.87	257.13
07 72 33 00-0012	EA	3'-0" x 3'-0" Aluminum Roof Hatch	1,290.95	188.55
07 72 33 00-0013	EA	4'-0" x 4'-0" Aluminum Roof Hatch	2,212.08	209.52
07 72 33 00-0014	EA	3'-0" x 8'-0" Aluminum Roof Hatch	2,467.35	285.77
07 72 33 00-0015	EA	3'-0" x 2'-6" Aluminum Roof Scuttle With Skylight	1,427.56	188.55

07 72 33 00-0016 Steel, Plain, Primed *(07 72 33)*

07 72 33 00-0017	EA	2'-6" x 3'-0" Plain Steel Roof Hatch Primed	978.81	169.70
07 72 33 00-0018	EA	2'-6" x 4'-6" Plain Steel Roof Hatch Primed	1,288.14	188.55
07 72 33 00-0019	EA	2'-6" x 8'-0" Plain Steel Roof Hatch Primed	1,763.65	257.13
07 72 33 00-0020	EA	3'-0" x 3'-0" Plain Steel Roof Hatch Primed	1,195.73	188.55
07 72 33 00-0021	EA	4'-0" x 4'-0" Plain Steel Roof Hatch Primed	1,447.85	209.52
07 72 33 00-0022	EA	3'-0" x 8'-0" Plain Steel Roof Hatch Primed	1,966.47	285.77

07 72 33 00-0023 Stainless Steel *(07 72 33)*

07 72 33 00-0024	EA	2'-6" x 3'-0" Stainless Steel Roof Hatch	3,211.07	169.70
07 72 33 00-0025	EA	2'-6" x 4'-6" Stainless Steel Roof Hatch	6,161.27	188.55
07 72 33 00-0026	EA	2'-6" x 8'-0" Stainless Steel Roof Hatch	9,268.40	257.13
07 72 33 00-0027	EA	3'-0" x 3'-0" Stainless Steel Roof Hatch	4,941.86	188.55
07 72 33 00-0028	EA	4'-0" x 4'-0" Stainless Steel Roof Hatch	10,465.91	209.52
07 72 33 00-0029	EA	3'-0" x 8'-0" Stainless Steel Roof Hatch	11,716.69	285.77

07 72 33 00-0030 Removal And Reinstallation Of Roof Hatch *(07 72 33)*

Note: Includes storage, cleaning and supply materials.

07 72 33 00-0031	EA	Removal And Reinstallation Of Roof Hatch, All Types	521.95	

07 72 33 00-0032 Aluminum Cover And Galvanized Steel Curb *(07 72 33)*

07 72 33 00-0033	EA	Aluminum Cover, Galvanized Steel Curb 3'-0" x 2'-6" Roof	1,010.80	188.55
07 72 33 00-0034	EA	Aluminum Cover, Galvanized Steel Curb 2'-6" x 4'-6" Roof	1,298.19	209.52
07 72 33 00-0035	EA	Aluminum Cover, Galvanized Steel Curb 2'-6" x 8'-0" Roof	2,272.65	285.65
07 72 33 00-0036	EA	Aluminum Cover, Galvanized Steel Curb 3'-0" x 3'-0" Roof	1,268.12	194.44
07 72 33 00-0037	EA	Aluminum Cover, Galvanized Steel Curb 4'-0" x 4'-0" Roof	2,149.28	215.42

07 72 33 00-0038 Roof Hatch Accessories *(07 72 33)*

07 72 33 00-0039	EA	Enamel Steel, Roof Hatch Ladderup Safety Post	609.38	88.38

07 72 33 00-0040 Roof Hatch Safety Railing *(07 72 33)*

Note: Included mounting bracket to attach to roof hatch

07 72 33 00-0041	EA	24" x 24" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,146.13	
07 72 33 00-0042	EA	24" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,227.85	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 33 00-0043	EA	30" x 30" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,284.07	
07 72 33 00-0044	EA	30" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,485.97	
07 72 33 00-0045	EA	36" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,718.96	
07 72 33 00-0046	EA	48" x 48" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	3,479.35	

07 72 36 Smoke Vents *(07 72)*

07 72 36 00-0001 Fire Vent *(07 72 36)*

07 72 36 00-0002 Galvanized Steel Covers And Curb *(07 72 36 00-0001)*

07 72 36 00-0003	EA	4'-0" x 4'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	2,350.99	157.20
07 72 36 00-0004	EA	4'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	2,724.15	216.12
07 72 36 00-0005	EA	4'-0" x 7'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent	3,099.38	235.81
07 72 36 00-0006	EA	4'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	3,164.52	247.59
07 72 36 00-0007	EA	5'-0" x 5'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	3,632.65	216.12
07 72 36 00-0008	EA	5'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	3,865.50	235.81
07 72 36 00-0009	EA	5'-0" x 7'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	4,084.78	255.49
07 72 36 00-0010	EA	5'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	4,643.07	275.17
07 72 36 00-0011	EA	5'-0" x 10'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	5,736.96	294.73
07 72 36 00-0012	EA	5'-6" x 5'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent	3,874.60	255.49
07 72 36 00-0013	EA	5'-6" x 12'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	8,030.90	314.41
07 72 36 00-0014	EA	6'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	4,487.37	334.09

07 72 36 00-0015 Aluminum Covers And Galvanized Steel Curb *(07 72 36 00-0001)*

07 72 36 00-0016	EA	4'-0" x 4'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	2,085.40	157.20
07 72 36 00-0017	EA	4'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	2,407.86	216.12
07 72 36 00-0018	EA	4'-0" x 7'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	2,705.65	235.81
07 72 36 00-0019	EA	4'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	2,803.25	247.59
07 72 36 00-0020	EA	5'-0" x 5'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	2,710.44	216.12
07 72 36 00-0021	EA	5'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	3,442.11	235.81
07 72 36 00-0022	EA	5'-0" x 7'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	3,682.78	255.49
07 72 36 00-0023	EA	5'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	3,598.06	275.17
07 72 36 00-0024	EA	5'-0" x 10'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	5,009.10	294.73
07 72 36 00-0025	EA	5'-6" x 5'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	3,482.97	255.49
07 72 36 00-0026	EA	5'-6" x 12'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	6,534.33	314.41
07 72 36 00-0027	EA	6'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	3,458.08	334.09

07 72 36 00-0028 Aluminum Covers And Curb *(07 72 36 00-0001)*

07 72 36 00-0029	EA	4'-0" x 4'-0" Aluminum Covers And Curb, Smoke And Fire Vent	2,268.08	157.20
07 72 36 00-0030	EA	4'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent	2,710.44	216.12
07 72 36 00-0031	EA	4'-0" x 7'-6" Aluminum Covers And Curb, Smoke And Fire Vent	2,973.97	235.81
07 72 36 00-0032	EA	4'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent	3,145.79	247.59
07 72 36 00-0033	EA	5'-0" x 5'-0" Aluminum Covers And Curb, Smoke And Fire Vent	2,847.46	216.12
07 72 36 00-0034	EA	5'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent	3,584.83	235.81
07 72 36 00-0035	EA	5'-0" x 7'-0" Aluminum Covers And Curb, Smoke And Fire Vent	3,808.38	255.49
07 72 36 00-0036	EA	5'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent	3,940.60	275.17
07 72 36 00-0037	EA	5'-0" x 10'-0" Aluminum Covers And Curb, Smoke And Fire Vent	4,763.61	294.73
07 72 36 00-0038	EA	5'-6" x 5'-6" Aluminum Covers And Curb, Smoke And Fire Vent	3,642.82	255.49
07 72 36 00-0039	EA	5'-6" x 12'-0" Aluminum Covers And Curb, Smoke And Fire Vent	7,122.35	314.41
07 72 36 00-0040	EA	6'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent	3,800.62	334.09

07 72 36 00-0041 Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb *(07 72 36)*

07 72 36 00-0042	EA	4'-0" x 4'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent	2,245.25	156.73
07 72 36 00-0043	EA	4'-0" x 6'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent	2,853.16	216.12
07 72 36 00-0044	EA	4'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent	3,025.89	247.59
07 72 36 00-0045	EA	5'-0" x 5'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent	3,224.25	216.12
07 72 36 00-0046	EA	5'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent	3,426.80	275.17

07 72 38 Roof Dormers *(07 72)*

07 72 38 13 Roof Dormer Vent *(07 72 38)*

07 72 38 13-0001 Copper Roof Dormer Vent *(07 72 38 13)*

Note: Includes insect screen on the inside of the louvers and fabricated with sturdy wooden framing.

07 72 38 13-0002 Half Round Copper Roof Dormer Vent *(07 72 38 13-0001)*

07 72 38 13-0003	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	477.94	75.96
07 72 38 13-0004	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	598.15	75.96
07 72 38 13-0005	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	734.51	75.96
07 72 38 13-0006	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	836.78	75.96
07 72 38 13-0007	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	958.78	75.96
07 72 38 13-0008	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,077.20	75.96
07 72 38 13-0009	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,197.41	75.96
07 72 38 13-0010	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,317.62	75.96
07 72 38 13-0011	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,437.83	75.96
07 72 38 13-0012	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,556.25	75.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0013	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,676.46	75.96
07 72 38 13-0014	EA	18" Half Round Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	1,796.67	75.96
07 72 38 13-0015	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	865.48	75.96
07 72 38 13-0016	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	985.70	75.96
07 72 38 13-0017	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,122.06	75.96
07 72 38 13-0018	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,224.32	75.96
07 72 38 13-0019	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,346.33	75.96
07 72 38 13-0020	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,464.75	75.96
07 72 38 13-0021	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,584.96	75.96
07 72 38 13-0022	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,705.17	75.96
07 72 38 13-0023	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	1,825.38	75.96
07 72 38 13-0024	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	1,943.80	75.96
07 72 38 13-0025	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,064.01	75.96
07 72 38 13-0026	EA	18" Half Round Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,184.22	75.96
07 72 38 13-0027	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	564.48	91.95
07 72 38 13-0028	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	684.69	91.95
07 72 38 13-0029	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	821.05	91.95
07 72 38 13-0030	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	923.32	91.95
07 72 38 13-0031	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,045.32	91.95
07 72 38 13-0032	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,163.74	91.95
07 72 38 13-0033	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,283.95	91.95
07 72 38 13-0034	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,404.16	91.95
07 72 38 13-0035	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,524.38	91.95
07 72 38 13-0036	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,642.79	91.95
07 72 38 13-0037	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,763.00	91.95
07 72 38 13-0038	EA	24" Half Round Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	1,883.22	91.95
07 72 38 13-0039	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	952.03	91.95
07 72 38 13-0040	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,072.24	91.95
07 72 38 13-0041	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,208.60	91.95
07 72 38 13-0042	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,310.87	91.95
07 72 38 13-0043	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,432.87	91.95
07 72 38 13-0044	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,551.29	91.95
07 72 38 13-0045	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,671.50	91.95
07 72 38 13-0046	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,791.71	91.95
07 72 38 13-0047	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	1,911.92	91.95
07 72 38 13-0048	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,030.34	91.95
07 72 38 13-0049	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,150.55	91.95
07 72 38 13-0050	EA	24" Half Round Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,270.76	91.95
07 72 38 13-0051	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	656.97	102.61
07 72 38 13-0052	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	777.18	102.61
07 72 38 13-0053	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	913.54	102.61
07 72 38 13-0054	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,015.81	102.61
07 72 38 13-0055	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,137.81	102.61
07 72 38 13-0056	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,256.23	102.61
07 72 38 13-0057	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,376.44	102.61
07 72 38 13-0058	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,496.65	102.61
07 72 38 13-0059	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,616.87	102.61
07 72 38 13-0060	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,735.28	102.61
07 72 38 13-0061	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,855.49	102.61
07 72 38 13-0062	EA	30" Half Round Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	1,975.71	102.61
07 72 38 13-0063	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,044.52	102.61
07 72 38 13-0064	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,164.73	102.61
07 72 38 13-0065	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,301.09	102.61
07 72 38 13-0066	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,403.36	102.61
07 72 38 13-0067	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,525.36	102.61
07 72 38 13-0068	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,643.78	102.61
07 72 38 13-0069	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,763.99	102.61
07 72 38 13-0070	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,884.20	102.61
07 72 38 13-0071	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,004.41	102.61
07 72 38 13-0072	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,122.83	102.61
07 72 38 13-0073	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,243.04	102.61
07 72 38 13-0074	EA	30" Half Round Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,363.25	102.61
07 72 38 13-0075	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	766.70	117.27
07 72 38 13-0076	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	886.91	117.27
07 72 38 13-0077	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,023.27	117.27
07 72 38 13-0078	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,125.54	117.27
07 72 38 13-0079	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,247.54	117.27
07 72 38 13-0080	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,365.96	117.27
07 72 38 13-0081	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,486.17	117.27
07 72 38 13-0082	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,606.38	117.27
07 72 38 13-0083	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,726.59	117.27
07 72 38 13-0084	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,845.01	117.27
07 72 38 13-0085	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,965.22	117.27
07 72 38 13-0086	EA	36" Half Round Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,085.43	117.27
07 72 38 13-0087	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,154.24	117.27
07 72 38 13-0088	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,274.46	117.27
07 72 38 13-0089	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,410.81	117.27
07 72 38 13-0090	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,513.08	117.27
07 72 38 13-0091	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,635.09	117.27
07 72 38 13-0092	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,753.51	117.27
07 72 38 13-0093	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,873.72	117.27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0094	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,993.93	117.27
07 72 38 13-0095	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,114.14	117.27
07 72 38 13-0096	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,232.56	117.27
07 72 38 13-0097	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,352.77	117.27
07 72 38 13-0098	EA	36" Half Round Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,472.98	117.27
07 72 38 13-0099	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,088.90	130.60
07 72 38 13-0100	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,209.11	130.60
07 72 38 13-0101	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,345.47	130.60
07 72 38 13-0102	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,447.74	130.60
07 72 38 13-0103	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,569.75	130.60
07 72 38 13-0104	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,688.16	130.60
07 72 38 13-0105	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,808.38	130.60
07 72 38 13-0106	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,928.59	130.60
07 72 38 13-0107	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,048.80	130.60
07 72 38 13-0108	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,167.22	130.60
07 72 38 13-0109	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,287.43	130.60
07 72 38 13-0110	EA	42" Half Round Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,407.64	130.60
07 72 38 13-0111	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,476.45	130.60
07 72 38 13-0112	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,596.66	130.60
07 72 38 13-0113	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,733.02	130.60
07 72 38 13-0114	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,835.29	130.60
07 72 38 13-0115	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,957.29	130.60
07 72 38 13-0116	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,075.71	130.60
07 72 38 13-0117	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,195.92	130.60
07 72 38 13-0118	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,316.13	130.60
07 72 38 13-0119	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,436.35	130.60
07 72 38 13-0120	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,554.76	130.60
07 72 38 13-0121	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,674.97	130.60
07 72 38 13-0122	EA	42" Half Round Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,795.19	130.60
07 72 38 13-0123	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,473.31	130.60
07 72 38 13-0124	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,610.85	141.26
07 72 38 13-0125	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,747.21	141.26
07 72 38 13-0126	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,849.48	141.26
07 72 38 13-0127	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,971.48	141.26
07 72 38 13-0128	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,089.90	141.26
07 72 38 13-0129	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,210.11	141.26
07 72 38 13-0130	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,330.32	141.26
07 72 38 13-0131	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,450.54	141.26
07 72 38 13-0132	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,568.95	141.26
07 72 38 13-0133	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,689.16	141.26
07 72 38 13-0134	EA	48" Half Round Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,809.38	141.26
07 72 38 13-0135	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,878.19	141.26
07 72 38 13-0136	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,998.40	141.26
07 72 38 13-0137	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,134.76	141.26
07 72 38 13-0138	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,237.03	141.26
07 72 38 13-0139	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,359.03	141.26
07 72 38 13-0140	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,477.45	141.26
07 72 38 13-0141	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,597.66	141.26
07 72 38 13-0142	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,717.87	141.26
07 72 38 13-0143	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,838.08	141.26
07 72 38 13-0144	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,956.50	141.26
07 72 38 13-0145	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,076.71	141.26
07 72 38 13-0146	EA	48" Half Round Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,196.92	141.26

07 72 38 13-0147 Third Round Copper Roof Dormer Vent *(07 72 38 13-0001)*

07 72 38 13-0148	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	720.07	117.27
07 72 38 13-0149	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	840.28	117.27
07 72 38 13-0150	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	976.64	117.27
07 72 38 13-0151	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,078.91	117.27
07 72 38 13-0152	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,200.91	117.27
07 72 38 13-0153	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,319.33	117.27
07 72 38 13-0154	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,439.54	117.27
07 72 38 13-0155	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,559.75	117.27
07 72 38 13-0156	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,679.96	117.27
07 72 38 13-0157	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,798.38	117.27
07 72 38 13-0158	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,918.59	117.27
07 72 38 13-0159	EA	36" Third Round Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,038.80	117.27
07 72 38 13-0160	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	946.13	117.27
07 72 38 13-0161	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,066.35	117.27
07 72 38 13-0162	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,202.71	117.27
07 72 38 13-0163	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,304.97	117.27
07 72 38 13-0164	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,426.98	117.27
07 72 38 13-0165	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,545.40	117.27
07 72 38 13-0166	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,665.61	117.27
07 72 38 13-0167	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,785.82	117.27
07 72 38 13-0168	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	1,906.03	117.27
07 72 38 13-0169	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,024.45	117.27
07 72 38 13-0170	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,144.66	117.27
07 72 38 13-0171	EA	36" Third Round Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,264.87	117.27
07 72 38 13-0172	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	820.06	130.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0173	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	940.27	130.60
07 72 38 13-0174	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,076.63	130.60
07 72 38 13-0175	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,178.90	130.60
07 72 38 13-0176	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,300.90	130.60
07 72 38 13-0177	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,419.32	130.60
07 72 38 13-0178	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,539.53	130.60
07 72 38 13-0179	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,659.74	130.60
07 72 38 13-0180	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,779.96	130.60
07 72 38 13-0181	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,898.37	130.60
07 72 38 13-0182	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,018.58	130.60
07 72 38 13-0183	EA	42" Third Round Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,138.80	130.60
07 72 38 13-0184	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,046.13	130.60
07 72 38 13-0185	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,166.34	130.60
07 72 38 13-0186	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,302.70	130.60
07 72 38 13-0187	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,404.97	130.60
07 72 38 13-0188	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,526.97	130.60
07 72 38 13-0189	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,645.39	130.60
07 72 38 13-0190	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,765.60	130.60
07 72 38 13-0191	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,885.81	130.60
07 72 38 13-0192	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,006.02	130.60
07 72 38 13-0193	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,124.44	130.60
07 72 38 13-0194	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,244.65	130.60
07 72 38 13-0195	EA	42" Third Round Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,364.86	130.60
07 72 38 13-0196	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,047.19	130.60
07 72 38 13-0197	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,184.73	141.26
07 72 38 13-0198	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,321.09	141.26
07 72 38 13-0199	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,423.36	141.26
07 72 38 13-0200	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,545.36	141.26
07 72 38 13-0201	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,663.78	141.26
07 72 38 13-0202	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,783.99	141.26
07 72 38 13-0203	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,904.20	141.26
07 72 38 13-0204	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,024.41	141.26
07 72 38 13-0205	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,142.83	141.26
07 72 38 13-0206	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,263.04	141.26
07 72 38 13-0207	EA	48" Third Round Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,383.25	141.26
07 72 38 13-0208	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,290.59	141.26
07 72 38 13-0209	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,410.80	141.26
07 72 38 13-0210	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,547.16	141.26
07 72 38 13-0211	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,649.43	141.26
07 72 38 13-0212	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,771.43	141.26
07 72 38 13-0213	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,889.85	141.26
07 72 38 13-0214	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,010.06	141.26
07 72 38 13-0215	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,130.27	141.26
07 72 38 13-0216	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,250.48	141.26
07 72 38 13-0217	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,368.90	141.26
07 72 38 13-0218	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,489.11	141.26
07 72 38 13-0219	EA	48" Third Round Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,609.32	141.26
07 72 38 13-0220		Triangle Copper Roof Dormer Vent *(07 72 38 13-0001)*		
07 72 38 13-0221	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	811.55	75.96
07 72 38 13-0222	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	931.76	75.96
07 72 38 13-0223	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,068.12	75.96
07 72 38 13-0224	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,170.39	75.96
07 72 38 13-0225	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,292.40	75.96
07 72 38 13-0226	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,410.81	75.96
07 72 38 13-0227	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,531.03	75.96
07 72 38 13-0228	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,651.24	75.96
07 72 38 13-0229	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,771.45	75.96
07 72 38 13-0230	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,889.87	75.96
07 72 38 13-0231	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,010.08	75.96
07 72 38 13-0232	EA	18" x 9" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,130.29	75.96
07 72 38 13-0233	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,199.10	75.96
07 72 38 13-0234	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,319.31	75.96
07 72 38 13-0235	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,455.67	75.96
07 72 38 13-0236	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,557.94	75.96
07 72 38 13-0237	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,679.94	75.96
07 72 38 13-0238	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,798.36	75.96
07 72 38 13-0239	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,918.57	75.96
07 72 38 13-0240	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,038.78	75.96
07 72 38 13-0241	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,159.00	75.96
07 72 38 13-0242	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,277.41	75.96
07 72 38 13-0243	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,397.62	75.96
07 72 38 13-0244	EA	18" x 9" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,517.84	75.96
07 72 38 13-0245	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	873.56	75.96
07 72 38 13-0246	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	993.77	75.96
07 72 38 13-0247	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,130.13	75.96
07 72 38 13-0248	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,232.40	75.96
07 72 38 13-0249	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,354.40	75.96
07 72 38 13-0250	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,472.82	75.96
07 72 38 13-0251	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,593.03	75.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0252	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,713.24	75.96
07 72 38 13-0253	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,833.46	75.96
07 72 38 13-0254	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,951.87	75.96
07 72 38 13-0255	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,072.08	75.96
07 72 38 13-0256	EA	18" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,192.30	75.96
07 72 38 13-0257	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,261.11	75.96
07 72 38 13-0258	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,381.32	75.96
07 72 38 13-0259	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,517.68	75.96
07 72 38 13-0260	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,619.95	75.96
07 72 38 13-0261	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,741.95	75.96
07 72 38 13-0262	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,860.37	75.96
07 72 38 13-0263	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,980.58	75.96
07 72 38 13-0264	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,100.79	75.96
07 72 38 13-0265	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,221.00	75.96
07 72 38 13-0266	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,339.42	75.96
07 72 38 13-0267	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,459.63	75.96
07 72 38 13-0268	EA	18" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,579.84	75.96
07 72 38 13-0269	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	978.89	91.95
07 72 38 13-0270	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,099.10	91.95
07 72 38 13-0271	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,235.46	91.95
07 72 38 13-0272	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,337.73	91.95
07 72 38 13-0273	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,459.73	91.95
07 72 38 13-0274	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,578.15	91.95
07 72 38 13-0275	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,698.36	91.95
07 72 38 13-0276	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,818.57	91.95
07 72 38 13-0277	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,938.78	91.95
07 72 38 13-0278	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,057.20	91.95
07 72 38 13-0279	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,177.41	91.95
07 72 38 13-0280	EA	24" x 12" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,297.62	91.95
07 72 38 13-0281	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,366.43	91.95
07 72 38 13-0282	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,486.64	91.95
07 72 38 13-0283	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,623.00	91.95
07 72 38 13-0284	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,725.27	91.95
07 72 38 13-0285	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,847.28	91.95
07 72 38 13-0286	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,965.70	91.95
07 72 38 13-0287	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,085.91	91.95
07 72 38 13-0288	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,206.12	91.95
07 72 38 13-0289	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,326.33	91.95
07 72 38 13-0290	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,444.75	91.95
07 72 38 13-0291	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,564.96	91.95
07 72 38 13-0292	EA	24" x 12" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,685.17	91.95
07 72 38 13-0293	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,089.12	91.95
07 72 38 13-0294	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,209.33	91.95
07 72 38 13-0295	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,345.69	91.95
07 72 38 13-0296	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,447.96	91.95
07 72 38 13-0297	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,569.97	91.95
07 72 38 13-0298	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,688.38	91.95
07 72 38 13-0299	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,808.60	91.95
07 72 38 13-0300	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,928.81	91.95
07 72 38 13-0301	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,049.02	91.95
07 72 38 13-0302	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,167.44	91.95
07 72 38 13-0303	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,287.65	91.95
07 72 38 13-0304	EA	24" x 16" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,407.86	91.95
07 72 38 13-0305	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,476.67	91.95
07 72 38 13-0306	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,596.88	91.95
07 72 38 13-0307	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,733.24	91.95
07 72 38 13-0308	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,835.51	91.95
07 72 38 13-0309	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,957.51	91.95
07 72 38 13-0310	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,075.93	91.95
07 72 38 13-0311	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,196.14	91.95
07 72 38 13-0312	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,316.35	91.95
07 72 38 13-0313	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,436.57	91.95
07 72 38 13-0314	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,554.98	91.95
07 72 38 13-0315	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,675.19	91.95
07 72 38 13-0316	EA	24" x 16" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,795.41	91.95
07 72 38 13-0317	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,182.24	102.61
07 72 38 13-0318	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,302.45	102.61
07 72 38 13-0319	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,438.81	102.61
07 72 38 13-0320	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,541.08	102.61
07 72 38 13-0321	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,663.08	102.61
07 72 38 13-0322	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,781.50	102.61
07 72 38 13-0323	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,901.71	102.61
07 72 38 13-0324	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,021.92	102.61
07 72 38 13-0325	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,142.14	102.61
07 72 38 13-0326	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,260.55	102.61
07 72 38 13-0327	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,380.76	102.61
07 72 38 13-0328	EA	30" x 15" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,500.98	102.61
07 72 38 13-0329	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,569.79	102.61
07 72 38 13-0330	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,690.00	102.61
07 72 38 13-0331	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,826.36	102.61
07 72 38 13-0332	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,928.63	102.61

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0333	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,050.63	102.61
07 72 38 13-0334	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,169.05	102.61
07 72 38 13-0335	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,289.26	102.61
07 72 38 13-0336	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,409.47	102.61
07 72 38 13-0337	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,529.68	102.61
07 72 38 13-0338	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,648.10	102.61
07 72 38 13-0339	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,768.31	102.61
07 72 38 13-0340	EA	30" x 15" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,888.52	102.61
07 72 38 13-0341	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,354.48	102.61
07 72 38 13-0342	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,474.69	102.61
07 72 38 13-0343	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,611.05	102.61
07 72 38 13-0344	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,713.32	102.61
07 72 38 13-0345	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,835.33	102.61
07 72 38 13-0346	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,953.74	102.61
07 72 38 13-0347	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,073.96	102.61
07 72 38 13-0348	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,194.17	102.61
07 72 38 13-0349	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,314.38	102.61
07 72 38 13-0350	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,432.80	102.61
07 72 38 13-0351	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,553.01	102.61
07 72 38 13-0352	EA	30" x 20" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,673.22	102.61
07 72 38 13-0353	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,742.03	102.61
07 72 38 13-0354	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,862.24	102.61
07 72 38 13-0355	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,998.60	102.61
07 72 38 13-0356	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,100.87	102.61
07 72 38 13-0357	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,222.87	102.61
07 72 38 13-0358	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,341.29	102.61
07 72 38 13-0359	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,461.50	102.61
07 72 38 13-0360	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,581.71	102.61
07 72 38 13-0361	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,701.93	102.61
07 72 38 13-0362	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,820.34	102.61
07 72 38 13-0363	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,940.55	102.61
07 72 38 13-0364	EA	30" x 20" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,060.77	102.61
07 72 38 13-0365	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,430.91	117.27
07 72 38 13-0366	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,551.12	117.27
07 72 38 13-0367	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,687.48	117.27
07 72 38 13-0368	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,789.75	117.27
07 72 38 13-0369	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,911.75	117.27
07 72 38 13-0370	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,030.17	117.27
07 72 38 13-0371	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,150.38	117.27
07 72 38 13-0372	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,270.59	117.27
07 72 38 13-0373	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,390.81	117.27
07 72 38 13-0374	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,509.22	117.27
07 72 38 13-0375	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,629.43	117.27
07 72 38 13-0376	EA	36" x 18" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,749.65	117.27
07 72 38 13-0377	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,818.46	117.27
07 72 38 13-0378	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,938.67	117.27
07 72 38 13-0379	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,075.03	117.27
07 72 38 13-0380	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,177.30	117.27
07 72 38 13-0381	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,299.30	117.27
07 72 38 13-0382	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,417.72	117.27
07 72 38 13-0383	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,537.93	117.27
07 72 38 13-0384	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,658.14	117.27
07 72 38 13-0385	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,778.35	117.27
07 72 38 13-0386	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,896.77	117.27
07 72 38 13-0387	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,016.98	117.27
07 72 38 13-0388	EA	36" x 18" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,137.19	117.27
07 72 38 13-0389	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,678.94	117.27
07 72 38 13-0390	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,799.15	117.27
07 72 38 13-0391	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,935.51	117.27
07 72 38 13-0392	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,037.78	117.27
07 72 38 13-0393	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,159.79	117.27
07 72 38 13-0394	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,278.20	117.27
07 72 38 13-0395	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,398.41	117.27
07 72 38 13-0396	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,518.63	117.27
07 72 38 13-0397	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,638.84	117.27
07 72 38 13-0398	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,757.25	117.27
07 72 38 13-0399	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,877.47	117.27
07 72 38 13-0400	EA	36" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,997.68	117.27
07 72 38 13-0401	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,066.49	117.27
07 72 38 13-0402	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,186.70	117.27
07 72 38 13-0403	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,323.06	117.27
07 72 38 13-0404	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,425.33	117.27
07 72 38 13-0405	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,547.33	117.27
07 72 38 13-0406	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,665.75	117.27
07 72 38 13-0407	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,785.96	117.27
07 72 38 13-0408	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,906.17	117.27
07 72 38 13-0409	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,026.38	117.27
07 72 38 13-0410	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,144.80	117.27
07 72 38 13-0411	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,265.01	117.27
07 72 38 13-0412	EA	36" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,385.22	117.27
07 72 38 13-0413	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,719.60	130.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0414	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,839.81	130.60
07 72 38 13-0415	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,976.17	130.60
07 72 38 13-0416	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,078.44	130.60
07 72 38 13-0417	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,200.44	130.60
07 72 38 13-0418	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,318.86	130.60
07 72 38 13-0419	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,439.07	130.60
07 72 38 13-0420	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,559.28	130.60
07 72 38 13-0421	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,679.50	130.60
07 72 38 13-0422	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,797.91	130.60
07 72 38 13-0423	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,918.12	130.60
07 72 38 13-0424	EA	42" x 21" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,038.34	130.60
07 72 38 13-0425	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,107.15	130.60
07 72 38 13-0426	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,227.36	130.60
07 72 38 13-0427	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,363.72	130.60
07 72 38 13-0428	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,465.99	130.60
07 72 38 13-0429	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,587.99	130.60
07 72 38 13-0430	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,706.41	130.60
07 72 38 13-0431	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,826.62	130.60
07 72 38 13-0432	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,946.83	130.60
07 72 38 13-0433	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,067.04	130.60
07 72 38 13-0434	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,185.46	130.60
07 72 38 13-0435	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,305.67	130.60
07 72 38 13-0436	EA	42" x 21" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,425.88	130.60
07 72 38 13-0437	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,057.20	130.17
07 72 38 13-0438	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,177.41	130.17
07 72 38 13-0439	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,313.77	130.17
07 72 38 13-0440	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,416.04	130.17
07 72 38 13-0441	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,538.04	130.17
07 72 38 13-0442	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,656.46	130.17
07 72 38 13-0443	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,776.67	130.17
07 72 38 13-0444	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,896.88	130.17
07 72 38 13-0445	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,017.09	130.17
07 72 38 13-0446	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,135.51	130.17
07 72 38 13-0447	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,255.72	130.17
07 72 38 13-0448	EA	42" x 28" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,375.93	130.17
07 72 38 13-0449	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,444.74	130.17
07 72 38 13-0450	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,564.95	130.17
07 72 38 13-0451	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,701.31	130.17
07 72 38 13-0452	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,803.58	130.17
07 72 38 13-0453	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,925.59	130.17
07 72 38 13-0454	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,044.01	130.17
07 72 38 13-0455	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,164.22	130.17
07 72 38 13-0456	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,284.43	130.17
07 72 38 13-0457	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,404.64	130.17
07 72 38 13-0458	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,523.06	130.17
07 72 38 13-0459	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,643.27	130.17
07 72 38 13-0460	EA	42" x 28" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,763.48	130.17
07 72 38 13-0461	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,029.64	130.17
07 72 38 13-0462	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,167.18	141.60
07 72 38 13-0463	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,303.54	141.60
07 72 38 13-0464	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,405.81	141.60
07 72 38 13-0465	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,527.81	141.60
07 72 38 13-0466	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,646.23	141.60
07 72 38 13-0467	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,766.44	141.60
07 72 38 13-0468	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,886.65	141.60
07 72 38 13-0469	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,006.86	141.60
07 72 38 13-0470	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,125.28	141.60
07 72 38 13-0471	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,245.49	141.60
07 72 38 13-0472	EA	48" x 24" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,365.70	141.60
07 72 38 13-0473	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,434.51	141.60
07 72 38 13-0474	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,554.73	141.60
07 72 38 13-0475	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,691.08	141.60
07 72 38 13-0476	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,793.35	141.60
07 72 38 13-0477	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,915.36	141.60
07 72 38 13-0478	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,033.78	141.60
07 72 38 13-0479	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,153.99	141.60
07 72 38 13-0480	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,274.20	141.60
07 72 38 13-0481	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,394.41	141.60
07 72 38 13-0482	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,512.83	141.60
07 72 38 13-0483	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,633.04	141.60
07 72 38 13-0484	EA	48" x 24" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,753.25	141.60
07 72 38 13-0485	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,470.58	130.17
07 72 38 13-0486	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,608.12	141.60
07 72 38 13-0487	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,744.48	141.60
07 72 38 13-0488	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,846.75	141.60
07 72 38 13-0489	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,968.75	141.60
07 72 38 13-0490	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	3,087.17	141.60
07 72 38 13-0491	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,207.38	141.60
07 72 38 13-0492	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,327.59	141.60
07 72 38 13-0493	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,447.81	141.60
07 72 38 13-0494	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,566.22	141.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0495	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,686.43	141.60
07 72 38 13-0496	EA	48" x 32" Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,806.65	141.60
07 72 38 13-0497	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,875.46	141.60
07 72 38 13-0498	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,995.67	141.60
07 72 38 13-0499	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,132.03	141.60
07 72 38 13-0500	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,234.30	141.60
07 72 38 13-0501	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,356.30	141.60
07 72 38 13-0502	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,474.72	141.60
07 72 38 13-0503	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,594.93	141.60
07 72 38 13-0504	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,715.14	141.60
07 72 38 13-0505	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,835.35	141.60
07 72 38 13-0506	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,953.77	141.60
07 72 38 13-0507	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	4,073.98	141.60
07 72 38 13-0508	EA	48" x 32" Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,194.19	141.60
07 72 38 13-0509		**Arched Triangle Copper Roof Dormer Vent** *(07 72 38 13-0001)*		
07 72 38 13-0510	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	904.53	75.96
07 72 38 13-0511	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,024.74	75.96
07 72 38 13-0512	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,161.10	75.96
07 72 38 13-0513	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,263.37	75.96
07 72 38 13-0514	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,385.37	75.96
07 72 38 13-0515	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,503.79	75.96
07 72 38 13-0516	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,624.00	75.96
07 72 38 13-0517	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,744.21	75.96
07 72 38 13-0518	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,864.42	75.96
07 72 38 13-0519	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,982.84	75.96
07 72 38 13-0520	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,103.05	75.96
07 72 38 13-0521	EA	18" x 9" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,223.26	75.96
07 72 38 13-0522	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,292.07	75.96
07 72 38 13-0523	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,412.29	75.96
07 72 38 13-0524	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,548.64	75.96
07 72 38 13-0525	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,650.91	75.96
07 72 38 13-0526	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,772.92	75.96
07 72 38 13-0527	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,891.34	75.96
07 72 38 13-0528	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,011.55	75.96
07 72 38 13-0529	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,131.76	75.96
07 72 38 13-0530	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,251.97	75.96
07 72 38 13-0531	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,370.39	75.96
07 72 38 13-0532	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,490.60	75.96
07 72 38 13-0533	EA	18" x 9" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,610.81	75.96
07 72 38 13-0534	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	977.62	75.96
07 72 38 13-0535	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,097.83	75.96
07 72 38 13-0536	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,234.19	75.96
07 72 38 13-0537	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,336.46	75.96
07 72 38 13-0538	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,458.47	75.96
07 72 38 13-0539	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,576.89	75.96
07 72 38 13-0540	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,697.10	75.96
07 72 38 13-0541	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,817.31	75.96
07 72 38 13-0542	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,937.52	75.96
07 72 38 13-0543	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,055.94	75.96
07 72 38 13-0544	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,176.15	75.96
07 72 38 13-0545	EA	18" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,296.36	75.96
07 72 38 13-0546	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,365.17	75.96
07 72 38 13-0547	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,485.38	75.96
07 72 38 13-0548	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,621.74	75.96
07 72 38 13-0549	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,724.01	75.96
07 72 38 13-0550	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,846.02	75.96
07 72 38 13-0551	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,964.43	75.96
07 72 38 13-0552	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,084.64	75.96
07 72 38 13-0553	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,204.86	75.96
07 72 38 13-0554	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,325.07	75.96
07 72 38 13-0555	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,443.48	75.96
07 72 38 13-0556	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,563.70	75.96
07 72 38 13-0557	EA	18" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,683.91	75.96
07 72 38 13-0558	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,097.73	91.95
07 72 38 13-0559	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,217.94	91.95
07 72 38 13-0560	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,354.30	91.95
07 72 38 13-0561	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,456.57	91.95
07 72 38 13-0562	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,578.58	91.95
07 72 38 13-0563	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,697.00	91.95
07 72 38 13-0564	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,817.21	91.95
07 72 38 13-0565	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,937.42	91.95
07 72 38 13-0566	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,057.63	91.95
07 72 38 13-0567	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,176.05	91.95
07 72 38 13-0568	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,296.26	91.95
07 72 38 13-0569	EA	24" x 12" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,416.47	91.95
07 72 38 13-0570	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,485.28	91.95
07 72 38 13-0571	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,605.49	91.95
07 72 38 13-0572	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,741.85	91.95
07 72 38 13-0573	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,844.12	91.95

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0574	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,966.13	91.95
07 72 38 13-0575	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,084.54	91.95
07 72 38 13-0576	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,204.75	91.95
07 72 38 13-0577	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,324.97	91.95
07 72 38 13-0578	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,445.18	91.95
07 72 38 13-0579	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,563.59	91.95
07 72 38 13-0580	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,683.81	91.95
07 72 38 13-0581	EA	24" x 12" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,804.02	91.95
07 72 38 13-0582	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,227.69	91.95
07 72 38 13-0583	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,347.90	91.95
07 72 38 13-0584	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,484.26	91.95
07 72 38 13-0585	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,586.53	91.95
07 72 38 13-0586	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,708.53	91.95
07 72 38 13-0587	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,826.95	91.95
07 72 38 13-0588	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,947.16	91.95
07 72 38 13-0589	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,067.37	91.95
07 72 38 13-0590	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,187.58	91.95
07 72 38 13-0591	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,306.00	91.95
07 72 38 13-0592	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,426.21	91.95
07 72 38 13-0593	EA	24" x 16" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,546.42	91.95
07 72 38 13-0594	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,615.23	91.95
07 72 38 13-0595	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,735.45	91.95
07 72 38 13-0596	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,871.81	91.95
07 72 38 13-0597	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,974.07	91.95
07 72 38 13-0598	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,096.08	91.95
07 72 38 13-0599	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,214.50	91.95
07 72 38 13-0600	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,334.71	91.95
07 72 38 13-0601	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,454.92	91.95
07 72 38 13-0602	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,575.13	91.95
07 72 38 13-0603	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,693.55	91.95
07 72 38 13-0604	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,813.76	91.95
07 72 38 13-0605	EA	24" x 16" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,933.97	91.95
07 72 38 13-0606	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,334.37	102.61
07 72 38 13-0607	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,454.58	102.61
07 72 38 13-0608	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,590.94	102.61
07 72 38 13-0609	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,693.21	102.61
07 72 38 13-0610	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,815.21	102.61
07 72 38 13-0611	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,933.63	102.61
07 72 38 13-0612	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,053.84	102.61
07 72 38 13-0613	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,174.05	102.61
07 72 38 13-0614	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,294.27	102.61
07 72 38 13-0615	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,412.68	102.61
07 72 38 13-0616	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,532.89	102.61
07 72 38 13-0617	EA	30" x 15" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,653.11	102.61
07 72 38 13-0618	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,721.92	102.61
07 72 38 13-0619	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,842.13	102.61
07 72 38 13-0620	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,978.49	102.61
07 72 38 13-0621	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,080.76	102.61
07 72 38 13-0622	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,202.76	102.61
07 72 38 13-0623	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,321.18	102.61
07 72 38 13-0624	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,441.39	102.61
07 72 38 13-0625	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,561.60	102.61
07 72 38 13-0626	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,681.81	102.61
07 72 38 13-0627	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,800.23	102.61
07 72 38 13-0628	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,920.44	102.61
07 72 38 13-0629	EA	30" x 15" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,040.65	102.61
07 72 38 13-0630	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,537.42	102.61
07 72 38 13-0631	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,657.63	102.61
07 72 38 13-0632	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,793.99	102.61
07 72 38 13-0633	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,896.26	102.61
07 72 38 13-0634	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,018.26	102.61
07 72 38 13-0635	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,136.68	102.61
07 72 38 13-0636	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,256.89	102.61
07 72 38 13-0637	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,377.10	102.61
07 72 38 13-0638	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,497.32	102.61
07 72 38 13-0639	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,615.73	102.61
07 72 38 13-0640	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,735.94	102.61
07 72 38 13-0641	EA	30" x 20" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,856.16	102.61
07 72 38 13-0642	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,924.97	102.61
07 72 38 13-0643	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,045.18	102.61
07 72 38 13-0644	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,181.54	102.61
07 72 38 13-0645	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,283.81	102.61
07 72 38 13-0646	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,405.81	102.61
07 72 38 13-0647	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,524.23	102.61
07 72 38 13-0648	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,644.44	102.61
07 72 38 13-0649	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,764.65	102.61
07 72 38 13-0650	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,884.86	102.61
07 72 38 13-0651	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,003.28	102.61
07 72 38 13-0652	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,123.49	102.61
07 72 38 13-0653	EA	30" x 20" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,243.70	102.61
07 72 38 13-0654	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,623.70	117.27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0655	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,743.91	117.27
07 72 38 13-0656	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,880.27	117.27
07 72 38 13-0657	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,982.54	117.27
07 72 38 13-0658	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,104.54	117.27
07 72 38 13-0659	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,222.96	117.27
07 72 38 13-0660	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,343.17	117.27
07 72 38 13-0661	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,463.38	117.27
07 72 38 13-0662	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,583.59	117.27
07 72 38 13-0663	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,702.01	117.27
07 72 38 13-0664	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,822.22	117.27
07 72 38 13-0665	EA	36" x 18" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,942.43	117.27
07 72 38 13-0666	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,011.24	117.27
07 72 38 13-0667	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,131.45	117.27
07 72 38 13-0668	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,267.81	117.27
07 72 38 13-0669	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,370.08	117.27
07 72 38 13-0670	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,492.09	117.27
07 72 38 13-0671	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,610.51	117.27
07 72 38 13-0672	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,730.72	117.27
07 72 38 13-0673	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,850.93	117.27
07 72 38 13-0674	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,971.14	117.27
07 72 38 13-0675	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,089.56	117.27
07 72 38 13-0676	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,209.77	117.27
07 72 38 13-0677	EA	36" x 18" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,329.98	117.27
07 72 38 13-0678	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,916.10	117.27
07 72 38 13-0679	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,036.31	117.27
07 72 38 13-0680	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,172.67	117.27
07 72 38 13-0681	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,274.94	117.27
07 72 38 13-0682	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,396.94	117.27
07 72 38 13-0683	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,515.36	117.27
07 72 38 13-0684	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,635.57	117.27
07 72 38 13-0685	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,755.78	117.27
07 72 38 13-0686	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,875.99	117.27
07 72 38 13-0687	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,994.41	117.27
07 72 38 13-0688	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,114.62	117.27
07 72 38 13-0689	EA	36" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,234.83	117.27
07 72 38 13-0690	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,303.64	117.27
07 72 38 13-0691	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,423.86	117.27
07 72 38 13-0692	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,560.21	117.27
07 72 38 13-0693	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,662.48	117.27
07 72 38 13-0694	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,784.49	117.27
07 72 38 13-0695	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,902.91	117.27
07 72 38 13-0696	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,023.12	117.27
07 72 38 13-0697	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,143.33	117.27
07 72 38 13-0698	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,263.54	117.27
07 72 38 13-0699	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,381.96	117.27
07 72 38 13-0700	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,502.17	117.27
07 72 38 13-0701	EA	36" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,622.38	117.27
07 72 38 13-0702	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,960.45	130.60
07 72 38 13-0703	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,080.66	130.60
07 72 38 13-0704	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,217.02	130.60
07 72 38 13-0705	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,319.29	130.60
07 72 38 13-0706	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,441.30	130.60
07 72 38 13-0707	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,559.71	130.60
07 72 38 13-0708	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,679.93	130.60
07 72 38 13-0709	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,800.14	130.60
07 72 38 13-0710	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,920.35	130.60
07 72 38 13-0711	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,038.77	130.60
07 72 38 13-0712	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,158.98	130.60
07 72 38 13-0713	EA	42" x 21" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,279.19	130.60
07 72 38 13-0714	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,348.00	130.60
07 72 38 13-0715	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,468.21	130.60
07 72 38 13-0716	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,604.57	130.60
07 72 38 13-0717	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,706.84	130.60
07 72 38 13-0718	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,828.84	130.60
07 72 38 13-0719	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,947.26	130.60
07 72 38 13-0720	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,067.47	130.60
07 72 38 13-0721	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,187.68	130.60
07 72 38 13-0722	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,307.90	130.60
07 72 38 13-0723	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,426.31	130.60
07 72 38 13-0724	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,546.52	130.60
07 72 38 13-0725	EA	42" x 21" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,666.74	130.60
07 72 38 13-0726	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,358.44	130.17
07 72 38 13-0727	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,478.65	130.17
07 72 38 13-0728	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,615.01	130.17
07 72 38 13-0729	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,717.28	130.17
07 72 38 13-0730	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,839.29	130.17
07 72 38 13-0731	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,957.70	130.17
07 72 38 13-0732	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,077.92	130.17
07 72 38 13-0733	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,198.13	130.17
07 72 38 13-0734	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,318.34	130.17
07 72 38 13-0735	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,436.76	130.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0736	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,556.97	130.17
07 72 38 13-0737	EA	42" x 28" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,677.18	130.17
07 72 38 13-0738	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,745.99	130.17
07 72 38 13-0739	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,866.20	130.17
07 72 38 13-0740	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,002.56	130.17
07 72 38 13-0741	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,104.83	130.17
07 72 38 13-0742	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,226.83	130.17
07 72 38 13-0743	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,345.25	130.17
07 72 38 13-0744	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,465.46	130.17
07 72 38 13-0745	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,585.67	130.17
07 72 38 13-0746	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,705.89	130.17
07 72 38 13-0747	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,824.30	130.17
07 72 38 13-0748	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,944.51	130.17
07 72 38 13-0749	EA	42" x 28" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,064.73	130.17
07 72 38 13-0750	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,325.95	130.17
07 72 38 13-0751	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,463.49	141.60
07 72 38 13-0752	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,599.85	141.60
07 72 38 13-0753	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,702.12	141.60
07 72 38 13-0754	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,824.12	141.60
07 72 38 13-0755	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,942.54	141.60
07 72 38 13-0756	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,062.75	141.60
07 72 38 13-0757	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,182.96	141.60
07 72 38 13-0758	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,303.18	141.60
07 72 38 13-0759	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,421.59	141.60
07 72 38 13-0760	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,541.80	141.60
07 72 38 13-0761	EA	48" x 24" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,662.02	141.60
07 72 38 13-0762	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,730.83	141.60
07 72 38 13-0763	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,851.04	141.60
07 72 38 13-0764	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,987.40	141.60
07 72 38 13-0765	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,089.67	141.60
07 72 38 13-0766	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,211.67	141.60
07 72 38 13-0767	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,330.09	141.60
07 72 38 13-0768	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,450.30	141.60
07 72 38 13-0769	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,570.51	141.60
07 72 38 13-0770	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,690.72	141.60
07 72 38 13-0771	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,809.14	141.60
07 72 38 13-0772	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,929.35	141.60
07 72 38 13-0773	EA	48" x 24" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,049.56	141.60
07 72 38 13-0774	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,845.76	130.17
07 72 38 13-0775	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,983.31	141.60
07 72 38 13-0776	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	3,119.66	141.60
07 72 38 13-0777	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	3,221.93	141.60
07 72 38 13-0778	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	3,343.94	141.60
07 72 38 13-0779	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	3,462.36	141.60
07 72 38 13-0780	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,582.57	141.60
07 72 38 13-0781	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,702.78	141.60
07 72 38 13-0782	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,822.99	141.60
07 72 38 13-0783	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,941.41	141.60
07 72 38 13-0784	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	4,061.62	141.60
07 72 38 13-0785	EA	48" x 32" Arched Triangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	4,181.83	141.60
07 72 38 13-0786	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	3,250.64	141.60
07 72 38 13-0787	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	3,370.85	141.60
07 72 38 13-0788	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,507.21	141.60
07 72 38 13-0789	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,609.48	141.60
07 72 38 13-0790	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,731.49	141.60
07 72 38 13-0791	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,849.90	141.60
07 72 38 13-0792	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,970.12	141.60
07 72 38 13-0793	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	4,090.33	141.60
07 72 38 13-0794	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	4,210.54	141.60
07 72 38 13-0795	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	4,328.96	141.60
07 72 38 13-0796	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	4,449.17	141.60
07 72 38 13-0797	EA	48" x 32" Arched Triangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,569.38	141.60

07 72 38 13-0798 Eyebrow Copper Roof Dormer Vent *(07 72 38 13-0001)*

07 72 38 13-0799	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	759.72	117.27
07 72 38 13-0800	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	879.93	117.27
07 72 38 13-0801	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,016.29	117.27
07 72 38 13-0802	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,118.56	117.27
07 72 38 13-0803	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,240.56	117.27
07 72 38 13-0804	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,358.98	117.27
07 72 38 13-0805	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,479.19	117.27
07 72 38 13-0806	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,599.40	117.27
07 72 38 13-0807	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,719.61	117.27
07 72 38 13-0808	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,838.03	117.27
07 72 38 13-0809	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,958.24	117.27
07 72 38 13-0810	EA	36" x 15" Eyebrow Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,078.45	117.27
07 72 38 13-0811	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,147.26	117.27
07 72 38 13-0812	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,267.48	117.27
07 72 38 13-0813	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,403.83	117.27
07 72 38 13-0814	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,506.10	117.27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0815	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,628.11	117.27
07 72 38 13-0816	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,746.53	117.27
07 72 38 13-0817	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,866.74	117.27
07 72 38 13-0818	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,986.95	117.27
07 72 38 13-0819	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,107.16	117.27
07 72 38 13-0820	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,225.58	117.27
07 72 38 13-0821	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,345.79	117.27
07 72 38 13-0822	EA	36" x 15" Eyebrow Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,466.00	117.27
07 72 38 13-0823	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,289.39	130.60
07 72 38 13-0824	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,409.60	130.60
07 72 38 13-0825	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,545.96	130.60
07 72 38 13-0826	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,648.23	130.60
07 72 38 13-0827	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,770.23	130.60
07 72 38 13-0828	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,888.65	130.60
07 72 38 13-0829	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,008.86	130.60
07 72 38 13-0830	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,129.07	130.60
07 72 38 13-0831	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,249.28	130.60
07 72 38 13-0832	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,367.70	130.60
07 72 38 13-0833	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,487.91	130.60
07 72 38 13-0834	EA	42" x 18" Eyebrow Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,608.12	130.60
07 72 38 13-0835	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,676.93	130.60
07 72 38 13-0836	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,797.14	130.60
07 72 38 13-0837	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,933.50	130.60
07 72 38 13-0838	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,035.77	130.60
07 72 38 13-0839	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,157.78	130.60
07 72 38 13-0840	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,276.20	130.60
07 72 38 13-0841	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,396.41	130.60
07 72 38 13-0842	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,516.62	130.60
07 72 38 13-0843	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,636.83	130.60
07 72 38 13-0844	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,755.25	130.60
07 72 38 13-0845	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,875.46	130.60
07 72 38 13-0846	EA	42" x 18" Eyebrow Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,995.67	130.60
07 72 38 13-0847	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,726.24	130.60
07 72 38 13-0848	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,863.78	141.26
07 72 38 13-0849	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,000.14	141.26
07 72 38 13-0850	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,102.41	141.26
07 72 38 13-0851	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,224.41	141.26
07 72 38 13-0852	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,342.83	141.26
07 72 38 13-0853	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,463.04	141.26
07 72 38 13-0854	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,583.25	141.26
07 72 38 13-0855	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,703.46	141.26
07 72 38 13-0856	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,821.88	141.26
07 72 38 13-0857	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,942.09	141.26
07 72 38 13-0858	EA	48" x 21" Eyebrow Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,062.30	141.26
07 72 38 13-0859	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,131.11	141.26
07 72 38 13-0860	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,251.33	141.26
07 72 38 13-0861	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,387.69	141.26
07 72 38 13-0862	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,489.95	141.26
07 72 38 13-0863	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,611.96	141.26
07 72 38 13-0864	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,730.38	141.26
07 72 38 13-0865	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,850.59	141.26
07 72 38 13-0866	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,970.80	141.26
07 72 38 13-0867	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,091.01	141.26
07 72 38 13-0868	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,209.43	141.26
07 72 38 13-0869	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,329.64	141.26
07 72 38 13-0870	EA	48" x 21" Eyebrow Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,449.85	141.26

07 72 38 13-0871 Rectangle Copper Roof Dormer Vent *(07 72 38 13-0001)*

07 72 38 13-0872	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	886.82	76.51
07 72 38 13-0873	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	960.22	76.51
07 72 38 13-0874	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,033.62	76.51
07 72 38 13-0875	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,107.02	76.51
07 72 38 13-0876	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,180.42	76.51
07 72 38 13-0877	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,253.82	76.51
07 72 38 13-0878	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,327.22	76.51
07 72 38 13-0879	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,400.62	76.51
07 72 38 13-0880	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,474.02	76.51
07 72 38 13-0881	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,547.42	76.51
07 72 38 13-0882	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,620.83	76.51
07 72 38 13-0883	EA	12" x 18" Rectangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	1,694.23	76.51
07 72 38 13-0884	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,274.37	76.51
07 72 38 13-0885	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,347.77	76.51
07 72 38 13-0886	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,421.17	76.51
07 72 38 13-0887	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,494.57	76.51
07 72 38 13-0888	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,567.97	76.51
07 72 38 13-0889	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,641.37	76.51
07 72 38 13-0890	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,714.77	76.51
07 72 38 13-0891	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,788.17	76.51
07 72 38 13-0892	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	1,861.57	76.51
07 72 38 13-0893	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	1,934.97	76.51

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0894	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,008.37	76.51
07 72 38 13-0895	EA	12" x 18" Rectangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,081.77	76.51
07 72 38 13-0896	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,060.45	91.47
07 72 38 13-0897	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,133.85	91.47
07 72 38 13-0898	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,207.25	91.47
07 72 38 13-0899	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,280.65	91.47
07 72 38 13-0900	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,354.05	91.47
07 72 38 13-0901	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,427.45	91.47
07 72 38 13-0902	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,500.85	91.47
07 72 38 13-0903	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,574.25	91.47
07 72 38 13-0904	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,647.66	91.47
07 72 38 13-0905	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,721.06	91.47
07 72 38 13-0906	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,794.46	91.47
07 72 38 13-0907	EA	15" x 21" Rectangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	1,867.86	91.47
07 72 38 13-0908	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,448.00	91.47
07 72 38 13-0909	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,521.40	91.47
07 72 38 13-0910	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,594.80	91.47
07 72 38 13-0911	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,668.20	91.47
07 72 38 13-0912	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,741.60	91.47
07 72 38 13-0913	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,815.00	91.47
07 72 38 13-0914	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,888.40	91.47
07 72 38 13-0915	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,961.80	91.47
07 72 38 13-0916	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,035.20	91.47
07 72 38 13-0917	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,108.60	91.47
07 72 38 13-0918	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,182.00	91.47
07 72 38 13-0919	EA	15" x 21" Rectangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,255.41	91.47
07 72 38 13-0920	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,338.57	102.90
07 72 38 13-0921	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,411.97	102.90
07 72 38 13-0922	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,485.37	102.90
07 72 38 13-0923	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,558.77	102.90
07 72 38 13-0924	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,632.17	102.90
07 72 38 13-0925	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,705.57	102.90
07 72 38 13-0926	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,778.97	102.90
07 72 38 13-0927	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,852.37	102.90
07 72 38 13-0928	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,925.77	102.90
07 72 38 13-0929	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,999.17	102.90
07 72 38 13-0930	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,072.57	102.90
07 72 38 13-0931	EA	18" x 27" Rectangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,145.97	102.90
07 72 38 13-0932	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,726.11	102.90
07 72 38 13-0933	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,799.51	102.90
07 72 38 13-0934	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,872.92	102.90
07 72 38 13-0935	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,946.32	102.90
07 72 38 13-0936	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,019.72	102.90
07 72 38 13-0937	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,093.12	102.90
07 72 38 13-0938	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,166.52	102.90
07 72 38 13-0939	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,239.92	102.90
07 72 38 13-0940	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,313.32	102.90
07 72 38 13-0941	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,386.72	102.90
07 72 38 13-0942	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,460.12	102.90
07 72 38 13-0943	EA	18" x 27" Rectangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,533.52	102.90
07 72 38 13-0944	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,936.35	116.98
07 72 38 13-0945	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,009.75	116.98
07 72 38 13-0946	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,083.15	116.98
07 72 38 13-0947	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,156.56	116.98
07 72 38 13-0948	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,229.96	116.98
07 72 38 13-0949	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,303.36	116.98
07 72 38 13-0950	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,376.76	116.98
07 72 38 13-0951	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,450.16	116.98
07 72 38 13-0952	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,523.56	116.98
07 72 38 13-0953	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,596.96	116.98
07 72 38 13-0954	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,670.36	116.98
07 72 38 13-0955	EA	24" x 36" Rectangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,743.76	116.98
07 72 38 13-0956	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,323.90	116.98
07 72 38 13-0957	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,397.30	116.98
07 72 38 13-0958	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,470.70	116.98
07 72 38 13-0959	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,544.10	116.98
07 72 38 13-0960	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,617.50	116.98
07 72 38 13-0961	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,690.90	116.98
07 72 38 13-0962	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,764.30	116.98
07 72 38 13-0963	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,837.71	116.98
07 72 38 13-0964	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,911.11	116.98
07 72 38 13-0965	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,984.51	116.98
07 72 38 13-0966	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,057.91	116.98
07 72 38 13-0967	EA	24" x 36" Rectangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,131.31	116.98
07 72 38 13-0968	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,560.27	130.17
07 72 38 13-0969	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,633.67	130.17
07 72 38 13-0970	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,707.07	130.17
07 72 38 13-0971	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,780.47	130.17
07 72 38 13-0972	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,853.87	130.17
07 72 38 13-0973	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,927.27	130.17
07 72 38 13-0974	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,000.68	130.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-0975	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,074.08	130.17
07 72 38 13-0976	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,147.48	130.17
07 72 38 13-0977	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,220.88	130.17
07 72 38 13-0978	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,294.28	130.17
07 72 38 13-0979	EA	30" x 42" Rectangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,367.68	130.17
07 72 38 13-0980	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,947.82	130.17
07 72 38 13-0981	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	3,021.22	130.17
07 72 38 13-0982	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,094.62	130.17
07 72 38 13-0983	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,168.02	130.17
07 72 38 13-0984	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,241.42	130.17
07 72 38 13-0985	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,314.82	130.17
07 72 38 13-0986	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,388.22	130.17
07 72 38 13-0987	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,461.62	130.17
07 72 38 13-0988	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,535.02	130.17
07 72 38 13-0989	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,608.42	130.17
07 72 38 13-0990	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,681.83	130.17
07 72 38 13-0991	EA	30" x 42" Rectangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,755.23	130.17
07 72 38 13-0992	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	3,274.00	130.17
07 72 38 13-0993	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	3,364.73	141.60
07 72 38 13-0994	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	3,438.14	141.60
07 72 38 13-0995	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	3,511.54	141.60
07 72 38 13-0996	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	3,584.94	141.60
07 72 38 13-0997	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	3,658.34	141.60
07 72 38 13-0998	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,731.74	141.60
07 72 38 13-0999	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,805.14	141.60
07 72 38 13-1000	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,878.54	141.60
07 72 38 13-1001	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,951.94	141.60
07 72 38 13-1002	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	4,025.34	141.60
07 72 38 13-1003	EA	36" x 48" Rectangle Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	4,098.74	141.60
07 72 38 13-1004	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	3,678.88	141.60
07 72 38 13-1005	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	3,752.28	141.60
07 72 38 13-1006	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,825.68	141.60
07 72 38 13-1007	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,899.08	141.60
07 72 38 13-1008	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,972.48	141.60
07 72 38 13-1009	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	4,045.88	141.60
07 72 38 13-1010	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	4,119.29	141.60
07 72 38 13-1011	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	4,192.69	141.60
07 72 38 13-1012	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	4,266.09	141.60
07 72 38 13-1013	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	4,339.49	141.60
07 72 38 13-1014	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	4,412.89	141.60
07 72 38 13-1015	EA	36" x 48" Rectangle Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,486.29	141.60
07 72 38 13-1016		Tombstone Copper Roof Dormer Vent *(07 72 38 13-0001)*		
07 72 38 13-1017	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	932.05	76.51
07 72 38 13-1018	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,052.26	76.51
07 72 38 13-1019	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,188.62	76.51
07 72 38 13-1020	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,290.89	76.51
07 72 38 13-1021	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,412.90	76.51
07 72 38 13-1022	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,531.31	76.51
07 72 38 13-1023	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,651.52	76.51
07 72 38 13-1024	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,771.74	76.51
07 72 38 13-1025	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,891.95	76.51
07 72 38 13-1026	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,010.36	76.51
07 72 38 13-1027	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,130.58	76.51
07 72 38 13-1028	EA	12" x 18" Tombstone Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,250.79	76.51
07 72 38 13-1029	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,319.60	76.51
07 72 38 13-1030	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,439.81	76.51
07 72 38 13-1031	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,576.17	76.51
07 72 38 13-1032	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,678.44	76.51
07 72 38 13-1033	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,800.44	76.51
07 72 38 13-1034	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,918.86	76.51
07 72 38 13-1035	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,039.07	76.51
07 72 38 13-1036	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,159.28	76.51
07 72 38 13-1037	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,279.49	76.51
07 72 38 13-1038	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,397.91	76.51
07 72 38 13-1039	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,518.12	76.51
07 72 38 13-1040	EA	12" x 18" Tombstone Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,638.33	76.51
07 72 38 13-1041	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,079.77	91.47
07 72 38 13-1042	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,199.98	91.47
07 72 38 13-1043	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,336.34	91.47
07 72 38 13-1044	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,438.61	91.47
07 72 38 13-1045	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,560.62	91.47
07 72 38 13-1046	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,679.04	91.47
07 72 38 13-1047	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,799.25	91.47
07 72 38 13-1048	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,919.46	91.47
07 72 38 13-1049	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,039.67	91.47
07 72 38 13-1050	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,158.09	91.47
07 72 38 13-1051	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,278.30	91.47
07 72 38 13-1052	EA	15" x 21" Tombstone Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,398.51	91.47
07 72 38 13-1053	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,467.32	91.47

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1054	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,587.53	91.47
07 72 38 13-1055	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,723.89	91.47
07 72 38 13-1056	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,826.16	91.47
07 72 38 13-1057	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,948.17	91.47
07 72 38 13-1058	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,066.58	91.47
07 72 38 13-1059	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,186.79	91.47
07 72 38 13-1060	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,307.01	91.47
07 72 38 13-1061	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,427.22	91.47
07 72 38 13-1062	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,545.63	91.47
07 72 38 13-1063	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,665.85	91.47
07 72 38 13-1064	EA	15" x 21" Tombstone Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,786.06	91.47
07 72 38 13-1065	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,313.13	102.90
07 72 38 13-1066	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,433.34	102.90
07 72 38 13-1067	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,569.70	102.90
07 72 38 13-1068	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,671.97	102.90
07 72 38 13-1069	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,793.97	102.90
07 72 38 13-1070	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,912.39	102.90
07 72 38 13-1071	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,032.60	102.90
07 72 38 13-1072	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,152.81	102.90
07 72 38 13-1073	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,273.02	102.90
07 72 38 13-1074	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,391.44	102.90
07 72 38 13-1075	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,511.65	102.90
07 72 38 13-1076	EA	18" x 27" Tombstone Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,631.86	102.90
07 72 38 13-1077	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,700.67	102.90
07 72 38 13-1078	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,820.88	102.90
07 72 38 13-1079	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,957.24	102.90
07 72 38 13-1080	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,059.51	102.90
07 72 38 13-1081	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,181.52	102.90
07 72 38 13-1082	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,299.94	102.90
07 72 38 13-1083	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,420.15	102.90
07 72 38 13-1084	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,540.36	102.90
07 72 38 13-1085	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,660.57	102.90
07 72 38 13-1086	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,778.99	102.90
07 72 38 13-1087	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,899.20	102.90
07 72 38 13-1088	EA	18" x 27" Tombstone Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,019.41	102.90
07 72 38 13-1089	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,811.94	116.98
07 72 38 13-1090	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,932.15	116.98
07 72 38 13-1091	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,068.51	116.98
07 72 38 13-1092	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,170.78	116.98
07 72 38 13-1093	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,292.79	116.98
07 72 38 13-1094	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,411.21	116.98
07 72 38 13-1095	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,531.42	116.98
07 72 38 13-1096	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,651.63	116.98
07 72 38 13-1097	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,771.84	116.98
07 72 38 13-1098	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,890.26	116.98
07 72 38 13-1099	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,010.47	116.98
07 72 38 13-1100	EA	24" x 36" Tombstone Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,130.68	116.98
07 72 38 13-1101	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,199.49	116.98
07 72 38 13-1102	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,319.70	116.98
07 72 38 13-1103	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,456.06	116.98
07 72 38 13-1104	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,558.33	116.98
07 72 38 13-1105	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,680.34	116.98
07 72 38 13-1106	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,798.75	116.98
07 72 38 13-1107	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,918.97	116.98
07 72 38 13-1108	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,039.18	116.98
07 72 38 13-1109	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,159.39	116.98
07 72 38 13-1110	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,277.81	116.98
07 72 38 13-1111	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,398.02	116.98
07 72 38 13-1112	EA	24" x 36" Tombstone Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,518.23	116.98
07 72 38 13-1113	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,332.19	130.17
07 72 38 13-1114	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,452.40	130.17
07 72 38 13-1115	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,588.76	130.17
07 72 38 13-1116	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,691.03	130.17
07 72 38 13-1117	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,813.04	130.17
07 72 38 13-1118	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,931.46	130.17
07 72 38 13-1119	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,051.67	130.17
07 72 38 13-1120	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,171.88	130.17
07 72 38 13-1121	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,292.09	130.17
07 72 38 13-1122	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,410.51	130.17
07 72 38 13-1123	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,530.72	130.17
07 72 38 13-1124	EA	30" x 42" Tombstone Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,650.93	130.17
07 72 38 13-1125	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,719.74	130.17
07 72 38 13-1126	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,839.95	130.17
07 72 38 13-1127	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,976.31	130.17
07 72 38 13-1128	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,078.58	130.17
07 72 38 13-1129	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,200.59	130.17
07 72 38 13-1130	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,319.00	130.17
07 72 38 13-1131	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,439.21	130.17
07 72 38 13-1132	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,559.43	130.17
07 72 38 13-1133	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,679.64	130.17
07 72 38 13-1134	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,798.05	130.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1135	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,918.27	130.17
07 72 38 13-1136	EA	30" x 42" Tombstone Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,038.48	130.17
07 72 38 13-1137	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,923.42	130.17
07 72 38 13-1138	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	3,060.96	141.60
07 72 38 13-1139	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	3,197.32	141.60
07 72 38 13-1140	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	3,299.59	141.60
07 72 38 13-1141	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	3,421.59	141.60
07 72 38 13-1142	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	3,540.01	141.60
07 72 38 13-1143	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,660.22	141.60
07 72 38 13-1144	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,780.43	141.60
07 72 38 13-1145	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,900.64	141.60
07 72 38 13-1146	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	4,019.06	141.60
07 72 38 13-1147	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	4,139.27	141.60
07 72 38 13-1148	EA	36" x 48" Tombstone Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	4,259.48	141.60
07 72 38 13-1149	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	3,328.29	141.60
07 72 38 13-1150	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	3,448.51	141.60
07 72 38 13-1151	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,584.87	141.60
07 72 38 13-1152	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,687.13	141.60
07 72 38 13-1153	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,809.14	141.60
07 72 38 13-1154	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,927.56	141.60
07 72 38 13-1155	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	4,047.77	141.60
07 72 38 13-1156	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	4,167.98	141.60
07 72 38 13-1157	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	4,288.19	141.60
07 72 38 13-1158	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	4,406.61	141.60
07 72 38 13-1159	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	4,526.82	141.60
07 72 38 13-1160	EA	36" x 48" Tombstone Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,647.03	141.60

07 72 38 13-1161 Arched Top Copper Roof Dormer Vent *(07 72 38 13-0001)*

07 72 38 13-1162	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	927.04	76.51
07 72 38 13-1163	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,037.14	76.51
07 72 38 13-1164	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,147.23	76.51
07 72 38 13-1165	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,257.32	76.51
07 72 38 13-1166	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,367.41	76.51
07 72 38 13-1167	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,477.50	76.51
07 72 38 13-1168	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,587.60	76.51
07 72 38 13-1169	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,697.69	76.51
07 72 38 13-1170	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,807.78	76.51
07 72 38 13-1171	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,917.87	76.51
07 72 38 13-1172	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,027.97	76.51
07 72 38 13-1173	EA	12" x 15" Arched Top Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,138.06	76.51
07 72 38 13-1174	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,314.59	76.51
07 72 38 13-1175	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,424.68	76.51
07 72 38 13-1176	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,534.78	76.51
07 72 38 13-1177	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,644.87	76.51
07 72 38 13-1178	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,754.96	76.51
07 72 38 13-1179	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,865.05	76.51
07 72 38 13-1180	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,975.14	76.51
07 72 38 13-1181	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,085.24	76.51
07 72 38 13-1182	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,195.33	76.51
07 72 38 13-1183	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,305.42	76.51
07 72 38 13-1184	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,415.51	76.51
07 72 38 13-1185	EA	12" x 15" Arched Top Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,525.60	76.51
07 72 38 13-1186	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,091.44	91.47
07 72 38 13-1187	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,201.53	91.47
07 72 38 13-1188	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,311.62	91.47
07 72 38 13-1189	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,421.71	91.47
07 72 38 13-1190	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,531.80	91.47
07 72 38 13-1191	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,641.90	91.47
07 72 38 13-1192	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,751.99	91.47
07 72 38 13-1193	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,862.08	91.47
07 72 38 13-1194	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,972.17	91.47
07 72 38 13-1195	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,082.26	91.47
07 72 38 13-1196	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,192.36	91.47
07 72 38 13-1197	EA	15" x 18.75" Arched Top Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,302.45	91.47
07 72 38 13-1198	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,478.98	91.47
07 72 38 13-1199	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,589.08	91.47
07 72 38 13-1200	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,699.17	91.47
07 72 38 13-1201	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,809.26	91.47
07 72 38 13-1202	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,919.35	91.47
07 72 38 13-1203	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,029.44	91.47
07 72 38 13-1204	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,139.54	91.47
07 72 38 13-1205	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,249.63	91.47
07 72 38 13-1206	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,359.72	91.47
07 72 38 13-1207	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,469.81	91.47
07 72 38 13-1208	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,579.90	91.47
07 72 38 13-1209	EA	15" x 18.75" Arched Top Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,690.00	91.47
07 72 38 13-1210	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,282.88	102.90
07 72 38 13-1211	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,392.97	102.90
07 72 38 13-1212	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,503.06	102.90
07 72 38 13-1213	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,613.15	102.90

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1214	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,723.24	102.90
07 72 38 13-1215	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,833.34	102.90
07 72 38 13-1216	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,943.43	102.90
07 72 38 13-1217	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,053.52	102.90
07 72 38 13-1218	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,163.61	102.90
07 72 38 13-1219	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,273.70	102.90
07 72 38 13-1220	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,383.80	102.90
07 72 38 13-1221	EA	18" x 22.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,493.89	102.90
07 72 38 13-1222	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,670.42	102.90
07 72 38 13-1223	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,780.51	102.90
07 72 38 13-1224	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,890.61	102.90
07 72 38 13-1225	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,000.70	102.90
07 72 38 13-1226	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,110.79	102.90
07 72 38 13-1227	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,220.88	102.90
07 72 38 13-1228	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,330.97	102.90
07 72 38 13-1229	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,441.07	102.90
07 72 38 13-1230	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,551.16	102.90
07 72 38 13-1231	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,661.25	102.90
07 72 38 13-1232	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,771.34	102.90
07 72 38 13-1233	EA	18" x 22.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,881.44	102.90
07 72 38 13-1234	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,717.28	116.98
07 72 38 13-1235	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,827.37	116.98
07 72 38 13-1236	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,937.47	116.98
07 72 38 13-1237	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,047.56	116.98
07 72 38 13-1238	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,157.65	116.98
07 72 38 13-1239	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,267.74	116.98
07 72 38 13-1240	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,377.83	116.98
07 72 38 13-1241	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,487.93	116.98
07 72 38 13-1242	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,598.02	116.98
07 72 38 13-1243	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,708.11	116.98
07 72 38 13-1244	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,818.20	116.98
07 72 38 13-1245	EA	24" x 30" Arched Top Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,928.29	116.98
07 72 38 13-1246	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,104.83	116.98
07 72 38 13-1247	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,214.92	116.98
07 72 38 13-1248	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,325.01	116.98
07 72 38 13-1249	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,435.11	116.98
07 72 38 13-1250	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,545.20	116.98
07 72 38 13-1251	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,655.29	116.98
07 72 38 13-1252	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,765.38	116.98
07 72 38 13-1253	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,875.47	116.98
07 72 38 13-1254	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,985.57	116.98
07 72 38 13-1255	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,095.66	116.98
07 72 38 13-1256	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,205.75	116.98
07 72 38 13-1257	EA	24" x 30" Arched Top Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,315.84	116.98
07 72 38 13-1258	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,304.11	130.17
07 72 38 13-1259	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,414.21	130.17
07 72 38 13-1260	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,524.30	130.17
07 72 38 13-1261	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,634.39	130.17
07 72 38 13-1262	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,744.48	130.17
07 72 38 13-1263	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,854.57	130.17
07 72 38 13-1264	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,964.67	130.17
07 72 38 13-1265	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,074.76	130.17
07 72 38 13-1266	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,184.85	130.17
07 72 38 13-1267	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,294.94	130.17
07 72 38 13-1268	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,405.03	130.17
07 72 38 13-1269	EA	30" x 37.5" Arched Top Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,515.13	130.17
07 72 38 13-1270	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,691.66	130.17
07 72 38 13-1271	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,801.75	130.17
07 72 38 13-1272	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,911.84	130.17
07 72 38 13-1273	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,021.94	130.17
07 72 38 13-1274	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,132.03	130.17
07 72 38 13-1275	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,242.12	130.17
07 72 38 13-1276	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,352.21	130.17
07 72 38 13-1277	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,462.31	130.17
07 72 38 13-1278	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,572.40	130.17
07 72 38 13-1279	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,682.49	130.17
07 72 38 13-1280	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,792.58	130.17
07 72 38 13-1281	EA	30" x 37.5" Arched Top Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,902.67	130.17
07 72 38 13-1282	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,952.02	130.17
07 72 38 13-1283	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	3,079.44	141.60
07 72 38 13-1284	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	3,189.53	141.60
07 72 38 13-1285	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	3,299.62	141.60
07 72 38 13-1286	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	3,409.72	141.60
07 72 38 13-1287	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	3,519.81	141.60
07 72 38 13-1288	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,629.90	141.60
07 72 38 13-1289	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,739.99	141.60
07 72 38 13-1290	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,850.08	141.60
07 72 38 13-1291	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,960.18	141.60
07 72 38 13-1292	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	4,070.27	141.60
07 72 38 13-1293	EA	36" x 45" Arched Top Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	4,180.36	141.60
07 72 38 13-1294	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	3,356.89	141.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1295	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	3,466.99	141.60
07 72 38 13-1296	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,577.08	141.60
07 72 38 13-1297	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,687.17	141.60
07 72 38 13-1298	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,797.26	141.60
07 72 38 13-1299	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,907.35	141.60
07 72 38 13-1300	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	4,017.45	141.60
07 72 38 13-1301	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	4,127.54	141.60
07 72 38 13-1302	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	4,237.63	141.60
07 72 38 13-1303	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	4,347.72	141.60
07 72 38 13-1304	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	4,457.82	141.60
07 72 38 13-1305	EA	36" x 45" Arched Top Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,567.91	141.60

07 72 38 13-1306 Hipped Roof Copper Roof Dormer Vent *(07 72 38 13-0001)*

07 72 38 13-1307	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	932.05	76.51
07 72 38 13-1308	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,025.83	76.51
07 72 38 13-1309	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,119.62	76.51
07 72 38 13-1310	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,213.40	76.51
07 72 38 13-1311	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,307.18	76.51
07 72 38 13-1312	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,400.96	76.51
07 72 38 13-1313	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,494.75	76.51
07 72 38 13-1314	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,588.53	76.51
07 72 38 13-1315	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,682.31	76.51
07 72 38 13-1316	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,776.10	76.51
07 72 38 13-1317	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,869.88	76.51
07 72 38 13-1318	EA	12" x 18" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	1,963.66	76.51
07 72 38 13-1319	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,319.60	76.51
07 72 38 13-1320	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,413.38	76.51
07 72 38 13-1321	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,507.16	76.51
07 72 38 13-1322	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,600.95	76.51
07 72 38 13-1323	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,694.73	76.51
07 72 38 13-1324	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,788.51	76.51
07 72 38 13-1325	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,882.29	76.51
07 72 38 13-1326	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,976.08	76.51
07 72 38 13-1327	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,069.86	76.51
07 72 38 13-1328	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,163.64	76.51
07 72 38 13-1329	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,257.43	76.51
07 72 38 13-1330	EA	12" x 18" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,351.21	76.51
07 72 38 13-1331	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,031.60	91.47
07 72 38 13-1332	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,125.38	91.47
07 72 38 13-1333	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,219.16	91.47
07 72 38 13-1334	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,312.95	91.47
07 72 38 13-1335	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,406.73	91.47
07 72 38 13-1336	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,500.51	91.47
07 72 38 13-1337	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,594.30	91.47
07 72 38 13-1338	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,688.08	91.47
07 72 38 13-1339	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,781.86	91.47
07 72 38 13-1340	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,875.64	91.47
07 72 38 13-1341	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,969.43	91.47
07 72 38 13-1342	EA	15" x 21" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,063.21	91.47
07 72 38 13-1343	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,419.15	91.47
07 72 38 13-1344	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,512.93	91.47
07 72 38 13-1345	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,606.71	91.47
07 72 38 13-1346	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,700.49	91.47
07 72 38 13-1347	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,794.28	91.47
07 72 38 13-1348	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,888.06	91.47
07 72 38 13-1349	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,981.84	91.47
07 72 38 13-1350	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,075.63	91.47
07 72 38 13-1351	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,169.41	91.47
07 72 38 13-1352	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,263.19	91.47
07 72 38 13-1353	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,356.97	91.47
07 72 38 13-1354	EA	15" x 21" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,450.76	91.47
07 72 38 13-1355	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,251.42	102.90
07 72 38 13-1356	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,345.21	102.90
07 72 38 13-1357	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,438.99	102.90
07 72 38 13-1358	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,532.77	102.90
07 72 38 13-1359	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,626.55	102.90
07 72 38 13-1360	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,720.34	102.90
07 72 38 13-1361	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,814.12	102.90
07 72 38 13-1362	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,907.90	102.90
07 72 38 13-1363	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,001.69	102.90
07 72 38 13-1364	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,095.47	102.90
07 72 38 13-1365	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,189.25	102.90
07 72 38 13-1366	EA	18" x 27" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,283.03	102.90
07 72 38 13-1367	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,638.97	102.90
07 72 38 13-1368	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,732.75	102.90
07 72 38 13-1369	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,826.54	102.90
07 72 38 13-1370	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,920.32	102.90
07 72 38 13-1371	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,014.10	102.90
07 72 38 13-1372	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,107.88	102.90
07 72 38 13-1373	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,201.67	102.90

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1374	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,295.45	102.90
07 72 38 13-1375	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,389.23	102.90
07 72 38 13-1376	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,483.02	102.90
07 72 38 13-1377	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,576.80	102.90
07 72 38 13-1378	EA	18" x 27" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,670.58	102.90
07 72 38 13-1379	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,720.35	116.98
07 72 38 13-1380	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,814.13	116.98
07 72 38 13-1381	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,907.92	116.98
07 72 38 13-1382	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,001.70	116.98
07 72 38 13-1383	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,095.48	116.98
07 72 38 13-1384	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,189.26	116.98
07 72 38 13-1385	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,283.05	116.98
07 72 38 13-1386	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,376.83	116.98
07 72 38 13-1387	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,470.61	116.98
07 72 38 13-1388	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,564.40	116.98
07 72 38 13-1389	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,658.18	116.98
07 72 38 13-1390	EA	24" x 36" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,751.96	116.98
07 72 38 13-1391	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,107.90	116.98
07 72 38 13-1392	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,201.68	116.98
07 72 38 13-1393	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,295.46	116.98
07 72 38 13-1394	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,389.25	116.98
07 72 38 13-1395	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,483.03	116.98
07 72 38 13-1396	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,576.81	116.98
07 72 38 13-1397	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,670.59	116.98
07 72 38 13-1398	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,764.38	116.98
07 72 38 13-1399	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,858.16	116.98
07 72 38 13-1400	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,951.94	116.98
07 72 38 13-1401	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,045.73	116.98
07 72 38 13-1402	EA	24" x 36" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,139.51	116.98
07 72 38 13-1403	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,209.27	130.17
07 72 38 13-1404	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,303.05	130.17
07 72 38 13-1405	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,396.84	130.17
07 72 38 13-1406	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,490.62	130.17
07 72 38 13-1407	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,584.40	130.17
07 72 38 13-1408	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,678.19	130.17
07 72 38 13-1409	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,771.97	130.17
07 72 38 13-1410	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,865.75	130.17
07 72 38 13-1411	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,959.53	130.17
07 72 38 13-1412	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,053.32	130.17
07 72 38 13-1413	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,147.10	130.17
07 72 38 13-1414	EA	30" x 42" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,240.88	130.17
07 72 38 13-1415	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,596.82	130.17
07 72 38 13-1416	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,690.60	130.17
07 72 38 13-1417	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,784.38	130.17
07 72 38 13-1418	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,878.17	130.17
07 72 38 13-1419	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,971.95	130.17
07 72 38 13-1420	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,065.73	130.17
07 72 38 13-1421	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,159.52	130.17
07 72 38 13-1422	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,253.30	130.17
07 72 38 13-1423	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,347.08	130.17
07 72 38 13-1424	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,440.86	130.17
07 72 38 13-1425	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,534.65	130.17
07 72 38 13-1426	EA	30" x 42" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,628.43	130.17
07 72 38 13-1427	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,763.46	130.17
07 72 38 13-1428	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,874.58	141.60
07 72 38 13-1429	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,968.36	141.60
07 72 38 13-1430	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	3,062.14	141.60
07 72 38 13-1431	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	3,155.93	141.60
07 72 38 13-1432	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	3,249.71	141.60
07 72 38 13-1433	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,343.49	141.60
07 72 38 13-1434	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,437.27	141.60
07 72 38 13-1435	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,531.06	141.60
07 72 38 13-1436	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,624.84	141.60
07 72 38 13-1437	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,718.62	141.60
07 72 38 13-1438	EA	36" x 48" Hipped Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,812.41	141.60
07 72 38 13-1439	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	3,168.34	141.60
07 72 38 13-1440	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	3,262.12	141.60
07 72 38 13-1441	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,355.91	141.60
07 72 38 13-1442	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,449.69	141.60
07 72 38 13-1443	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,543.47	141.60
07 72 38 13-1444	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,637.26	141.60
07 72 38 13-1445	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,731.04	141.60
07 72 38 13-1446	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,824.82	141.60
07 72 38 13-1447	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,918.60	141.60
07 72 38 13-1448	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	4,012.39	141.60
07 72 38 13-1449	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	4,106.17	141.60
07 72 38 13-1450	EA	36" x 48" Hipped Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,199.95	141.60
07 72 38 13-1451		Gabled Roof Copper Roof Dormer Vent *(07 72 38 13-0001)*		
07 72 38 13-1452	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	865.77	76.51

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1453	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	959.55	76.51
07 72 38 13-1454	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,053.34	76.51
07 72 38 13-1455	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,147.12	76.51
07 72 38 13-1456	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,240.90	76.51
07 72 38 13-1457	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,334.69	76.51
07 72 38 13-1458	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,428.47	76.51
07 72 38 13-1459	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,522.25	76.51
07 72 38 13-1460	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,616.03	76.51
07 72 38 13-1461	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,709.82	76.51
07 72 38 13-1462	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,803.60	76.51
07 72 38 13-1463	EA	12" x 18" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	1,897.38	76.51
07 72 38 13-1464	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,253.32	76.51
07 72 38 13-1465	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,347.10	76.51
07 72 38 13-1466	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,440.88	76.51
07 72 38 13-1467	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,534.67	76.51
07 72 38 13-1468	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,628.45	76.51
07 72 38 13-1469	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,722.23	76.51
07 72 38 13-1470	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,816.02	76.51
07 72 38 13-1471	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	1,909.80	76.51
07 72 38 13-1472	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,003.58	76.51
07 72 38 13-1473	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,097.36	76.51
07 72 38 13-1474	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,191.15	76.51
07 72 38 13-1475	EA	12" x 18" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,284.93	76.51
07 72 38 13-1476	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,000.33	91.47
07 72 38 13-1477	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,094.11	91.47
07 72 38 13-1478	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,187.89	91.47
07 72 38 13-1479	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,281.67	91.47
07 72 38 13-1480	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,375.46	91.47
07 72 38 13-1481	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,469.24	91.47
07 72 38 13-1482	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,563.02	91.47
07 72 38 13-1483	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,656.81	91.47
07 72 38 13-1484	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,750.59	91.47
07 72 38 13-1485	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,844.37	91.47
07 72 38 13-1486	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	1,938.15	91.47
07 72 38 13-1487	EA	15" x 21" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,031.94	91.47
07 72 38 13-1488	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,387.87	91.47
07 72 38 13-1489	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,481.66	91.47
07 72 38 13-1490	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,575.44	91.47
07 72 38 13-1491	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,669.22	91.47
07 72 38 13-1492	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,763.00	91.47
07 72 38 13-1493	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,856.79	91.47
07 72 38 13-1494	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	1,950.57	91.47
07 72 38 13-1495	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,044.35	91.47
07 72 38 13-1496	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,138.14	91.47
07 72 38 13-1497	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,231.92	91.47
07 72 38 13-1498	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,325.70	91.47
07 72 38 13-1499	EA	15" x 21" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,419.48	91.47
07 72 38 13-1500	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,210.95	102.90
07 72 38 13-1501	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,304.73	102.90
07 72 38 13-1502	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,398.51	102.90
07 72 38 13-1503	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,492.29	102.90
07 72 38 13-1504	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,586.08	102.90
07 72 38 13-1505	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,679.86	102.90
07 72 38 13-1506	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,773.64	102.90
07 72 38 13-1507	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,867.43	102.90
07 72 38 13-1508	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,961.21	102.90
07 72 38 13-1509	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,054.99	102.90
07 72 38 13-1510	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,148.77	102.90
07 72 38 13-1511	EA	18" x 27" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,242.56	102.90
07 72 38 13-1512	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,598.49	102.90
07 72 38 13-1513	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,692.28	102.90
07 72 38 13-1514	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,786.06	102.90
07 72 38 13-1515	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,879.84	102.90
07 72 38 13-1516	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,973.62	102.90
07 72 38 13-1517	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,067.41	102.90
07 72 38 13-1518	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,161.19	102.90
07 72 38 13-1519	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,254.97	102.90
07 72 38 13-1520	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,348.76	102.90
07 72 38 13-1521	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,442.54	102.90
07 72 38 13-1522	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,536.32	102.90
07 72 38 13-1523	EA	18" x 27" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,630.10	102.90
07 72 38 13-1524	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,659.53	116.98
07 72 38 13-1525	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,753.31	116.98
07 72 38 13-1526	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,847.09	116.98
07 72 38 13-1527	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,940.87	116.98
07 72 38 13-1528	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,034.66	116.98
07 72 38 13-1529	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,128.44	116.98
07 72 38 13-1530	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,222.22	116.98
07 72 38 13-1531	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,316.01	116.98
07 72 38 13-1532	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,409.79	116.98
07 72 38 13-1533	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,503.57	116.98

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1534	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,597.35	116.98
07 72 38 13-1535	EA	24" x 36" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,691.14	116.98
07 72 38 13-1536	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,047.07	116.98
07 72 38 13-1537	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,140.86	116.98
07 72 38 13-1538	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,234.64	116.98
07 72 38 13-1539	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,328.42	116.98
07 72 38 13-1540	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,422.20	116.98
07 72 38 13-1541	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,515.99	116.98
07 72 38 13-1542	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,609.77	116.98
07 72 38 13-1543	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,703.55	116.98
07 72 38 13-1544	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,797.34	116.98
07 72 38 13-1545	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,891.12	116.98
07 72 38 13-1546	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,984.90	116.98
07 72 38 13-1547	EA	24" x 36" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,078.68	116.98
07 72 38 13-1548	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,127.13	130.17
07 72 38 13-1549	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,220.92	130.17
07 72 38 13-1550	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,314.70	130.17
07 72 38 13-1551	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,408.48	130.17
07 72 38 13-1552	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,502.26	130.17
07 72 38 13-1553	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,596.05	130.17
07 72 38 13-1554	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,689.83	130.17
07 72 38 13-1555	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,783.61	130.17
07 72 38 13-1556	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,877.40	130.17
07 72 38 13-1557	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,971.18	130.17
07 72 38 13-1558	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,064.96	130.17
07 72 38 13-1559	EA	30" x 42" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,158.74	130.17
07 72 38 13-1560	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,514.68	130.17
07 72 38 13-1561	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,608.46	130.17
07 72 38 13-1562	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,702.25	130.17
07 72 38 13-1563	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,796.03	130.17
07 72 38 13-1564	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,889.81	130.17
07 72 38 13-1565	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,983.59	130.17
07 72 38 13-1566	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,077.38	130.17
07 72 38 13-1567	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,171.16	130.17
07 72 38 13-1568	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,264.94	130.17
07 72 38 13-1569	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,358.73	130.17
07 72 38 13-1570	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,452.51	130.17
07 72 38 13-1571	EA	30" x 42" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,546.29	130.17
07 72 38 13-1572	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,656.14	130.17
07 72 38 13-1573	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,767.25	141.60
07 72 38 13-1574	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,861.03	141.60
07 72 38 13-1575	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,954.81	141.60
07 72 38 13-1576	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	3,048.60	141.60
07 72 38 13-1577	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	3,142.38	141.60
07 72 38 13-1578	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,236.16	141.60
07 72 38 13-1579	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,329.95	141.60
07 72 38 13-1580	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,423.73	141.60
07 72 38 13-1581	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,517.51	141.60
07 72 38 13-1582	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,611.29	141.60
07 72 38 13-1583	EA	36" x 48" Gabled Roof Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,705.08	141.60
07 72 38 13-1584	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	3,061.01	141.60
07 72 38 13-1585	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	3,154.80	141.60
07 72 38 13-1586	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,248.58	141.60
07 72 38 13-1587	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,342.36	141.60
07 72 38 13-1588	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,436.14	141.60
07 72 38 13-1589	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,529.93	141.60
07 72 38 13-1590	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,623.71	141.60
07 72 38 13-1591	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,717.49	141.60
07 72 38 13-1592	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,811.28	141.60
07 72 38 13-1593	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,905.06	141.60
07 72 38 13-1594	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,998.84	141.60
07 72 38 13-1595	EA	36" x 48" Gabled Roof Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,092.62	141.60

07 72 38 13-1596 Pedimented Copper Roof Dormer Vent *(07 72 38 13-0001)*

07 72 38 13-1597	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,110.14	76.51
07 72 38 13-1598	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,203.92	76.51
07 72 38 13-1599	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,297.71	76.51
07 72 38 13-1600	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,391.49	76.51
07 72 38 13-1601	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,485.27	76.51
07 72 38 13-1602	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,579.06	76.51
07 72 38 13-1603	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,672.84	76.51
07 72 38 13-1604	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,766.62	76.51
07 72 38 13-1605	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	1,860.40	76.51
07 72 38 13-1606	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	1,954.19	76.51
07 72 38 13-1607	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,047.97	76.51
07 72 38 13-1608	EA	12" x 18" Pedimented Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,141.75	76.51
07 72 38 13-1609	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,497.69	76.51
07 72 38 13-1610	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,591.47	76.51
07 72 38 13-1611	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,685.26	76.51
07 72 38 13-1612	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,779.04	76.51

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1613	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	1,872.82	76.51
07 72 38 13-1614	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	1,966.60	76.51
07 72 38 13-1615	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,060.39	76.51
07 72 38 13-1616	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,154.17	76.51
07 72 38 13-1617	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,247.95	76.51
07 72 38 13-1618	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,341.73	76.51
07 72 38 13-1619	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,435.52	76.51
07 72 38 13-1620	EA	12" x 18" Pedimented Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,529.30	76.51
07 72 38 13-1621	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,328.18	91.47
07 72 38 13-1622	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,421.96	91.47
07 72 38 13-1623	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,515.75	91.47
07 72 38 13-1624	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,609.53	91.47
07 72 38 13-1625	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,703.31	91.47
07 72 38 13-1626	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	1,797.09	91.47
07 72 38 13-1627	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	1,890.88	91.47
07 72 38 13-1628	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	1,984.66	91.47
07 72 38 13-1629	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,078.44	91.47
07 72 38 13-1630	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,172.23	91.47
07 72 38 13-1631	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,266.01	91.47
07 72 38 13-1632	EA	15" x 21" Pedimented Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,359.79	91.47
07 72 38 13-1633	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,715.73	91.47
07 72 38 13-1634	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,809.51	91.47
07 72 38 13-1635	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	1,903.29	91.47
07 72 38 13-1636	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	1,997.08	91.47
07 72 38 13-1637	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,090.86	91.47
07 72 38 13-1638	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,184.64	91.47
07 72 38 13-1639	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,278.42	91.47
07 72 38 13-1640	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,372.21	91.47
07 72 38 13-1641	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,465.99	91.47
07 72 38 13-1642	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,559.77	91.47
07 72 38 13-1643	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	2,653.56	91.47
07 72 38 13-1644	EA	15" x 21" Pedimented Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	2,747.34	91.47
07 72 38 13-1645	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,683.00	102.90
07 72 38 13-1646	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,776.78	102.90
07 72 38 13-1647	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,870.57	102.90
07 72 38 13-1648	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,964.35	102.90
07 72 38 13-1649	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,058.13	102.90
07 72 38 13-1650	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,151.91	102.90
07 72 38 13-1651	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,245.70	102.90
07 72 38 13-1652	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,339.48	102.90
07 72 38 13-1653	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,433.26	102.90
07 72 38 13-1654	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,527.04	102.90
07 72 38 13-1655	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	2,620.83	102.90
07 72 38 13-1656	EA	18" x 27" Pedimented Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	2,714.61	102.90
07 72 38 13-1657	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,070.55	102.90
07 72 38 13-1658	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,164.33	102.90
07 72 38 13-1659	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,258.11	102.90
07 72 38 13-1660	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,351.90	102.90
07 72 38 13-1661	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,445.68	102.90
07 72 38 13-1662	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,539.46	102.90
07 72 38 13-1663	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,633.24	102.90
07 72 38 13-1664	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,727.03	102.90
07 72 38 13-1665	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	2,820.81	102.90
07 72 38 13-1666	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	2,914.59	102.90
07 72 38 13-1667	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,008.38	102.90
07 72 38 13-1668	EA	18" x 27" Pedimented Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,102.16	102.90
07 72 38 13-1669	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,450.34	116.98
07 72 38 13-1670	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	2,544.12	116.98
07 72 38 13-1671	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	2,637.90	116.98
07 72 38 13-1672	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,731.69	116.98
07 72 38 13-1673	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,825.47	116.98
07 72 38 13-1674	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,919.25	116.98
07 72 38 13-1675	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,013.03	116.98
07 72 38 13-1676	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,106.82	116.98
07 72 38 13-1677	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	3,200.60	116.98
07 72 38 13-1678	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,294.38	116.98
07 72 38 13-1679	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,388.17	116.98
07 72 38 13-1680	EA	24" x 36" Pedimented Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,481.95	116.98
07 72 38 13-1681	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	2,837.89	116.98
07 72 38 13-1682	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,931.67	116.98
07 72 38 13-1683	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,025.45	116.98
07 72 38 13-1684	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,119.23	116.98
07 72 38 13-1685	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	3,213.02	116.98
07 72 38 13-1686	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	3,306.80	116.98
07 72 38 13-1687	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,400.58	116.98
07 72 38 13-1688	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,494.36	116.98
07 72 38 13-1689	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,588.15	116.98
07 72 38 13-1690	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,681.93	116.98
07 72 38 13-1691	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,775.71	116.98
07 72 38 13-1692	EA	24" x 36" Pedimented Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,869.50	116.98
07 72 38 13-1693	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	3,251.88	130.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1694	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	3,345.66	130.17
07 72 38 13-1695	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	3,439.45	130.17
07 72 38 13-1696	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	3,533.23	130.17
07 72 38 13-1697	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	3,627.01	130.17
07 72 38 13-1698	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	3,720.80	130.17
07 72 38 13-1699	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	3,814.58	130.17
07 72 38 13-1700	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	3,908.36	130.17
07 72 38 13-1701	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	4,002.14	130.17
07 72 38 13-1702	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	4,095.93	130.17
07 72 38 13-1703	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	4,189.71	130.17
07 72 38 13-1704	EA	30" x 42" Pedimented Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	4,283.49	130.17
07 72 38 13-1705	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	3,639.43	130.17
07 72 38 13-1706	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	3,733.21	130.17
07 72 38 13-1707	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,826.99	130.17
07 72 38 13-1708	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	3,920.78	130.17
07 72 38 13-1709	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	4,014.56	130.17
07 72 38 13-1710	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	4,108.34	130.17
07 72 38 13-1711	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	4,202.13	130.17
07 72 38 13-1712	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	4,295.91	130.17
07 72 38 13-1713	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	4,389.69	130.17
07 72 38 13-1714	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	4,483.47	130.17
07 72 38 13-1715	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	4,577.26	130.17
07 72 38 13-1716	EA	30" x 42" Pedimented Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,671.04	130.17
07 72 38 13-1717	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	4,175.54	130.17
07 72 38 13-1718	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	4,286.65	141.60
07 72 38 13-1719	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	4,380.43	141.60
07 72 38 13-1720	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	4,474.21	141.60
07 72 38 13-1721	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	4,568.00	141.60
07 72 38 13-1722	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	4,661.78	141.60
07 72 38 13-1723	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	4,755.56	141.60
07 72 38 13-1724	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	4,849.35	141.60
07 72 38 13-1725	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	4,943.13	141.60
07 72 38 13-1726	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	5,036.91	141.60
07 72 38 13-1727	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	5,130.69	141.60
07 72 38 13-1728	EA	36" x 48" Pedimented Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	5,224.48	141.60
07 72 38 13-1729	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	4,580.41	141.60
07 72 38 13-1730	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	4,674.20	141.60
07 72 38 13-1731	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	4,767.98	141.60
07 72 38 13-1732	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	4,861.76	141.60
07 72 38 13-1733	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	4,955.54	141.60
07 72 38 13-1734	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	5,049.33	141.60
07 72 38 13-1735	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	5,143.11	141.60
07 72 38 13-1736	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	5,236.89	141.60
07 72 38 13-1737	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	5,330.68	141.60
07 72 38 13-1738	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	5,424.46	141.60
07 72 38 13-1739	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	5,518.24	141.60
07 72 38 13-1740	EA	36" x 48" Pedimented Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	5,612.02	141.60

07 72 38 13-1741 Mantle Clock Copper Roof Dormer Vent *(07 72 38 13-0001)*

07 72 38 13-1742	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,163.29	116.98
07 72 38 13-1743	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,351.35	116.98
07 72 38 13-1744	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,539.42	116.98
07 72 38 13-1745	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	1,727.49	116.98
07 72 38 13-1746	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	1,915.56	116.98
07 72 38 13-1747	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,103.63	116.98
07 72 38 13-1748	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,291.69	116.98
07 72 38 13-1749	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,479.76	116.98
07 72 38 13-1750	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,667.83	116.98
07 72 38 13-1751	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	2,855.90	116.98
07 72 38 13-1752	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,043.97	116.98
07 72 38 13-1753	EA	30" x 36" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,232.03	116.98
07 72 38 13-1754	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,665.66	116.98
07 72 38 13-1755	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	1,853.73	116.98
07 72 38 13-1756	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,041.80	116.98
07 72 38 13-1757	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,229.87	116.98
07 72 38 13-1758	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,417.93	116.98
07 72 38 13-1759	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,606.00	116.98
07 72 38 13-1760	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	2,794.07	116.98
07 72 38 13-1761	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	2,982.14	116.98
07 72 38 13-1762	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,170.21	116.98
07 72 38 13-1763	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,358.27	116.98
07 72 38 13-1764	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,546.34	116.98
07 72 38 13-1765	EA	30" x 36" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	3,734.41	116.98
07 72 38 13-1766	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	1,477.81	130.17
07 72 38 13-1767	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	1,665.88	130.17
07 72 38 13-1768	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	1,853.95	130.17
07 72 38 13-1769	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	2,042.02	130.17
07 72 38 13-1770	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	2,230.08	130.17
07 72 38 13-1771	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	2,418.15	130.17
07 72 38 13-1772	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	2,606.22	130.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1773	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	2,794.29	130.17
07 72 38 13-1774	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	2,982.36	130.17
07 72 38 13-1775	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	3,170.42	130.17
07 72 38 13-1776	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	3,358.49	130.17
07 72 38 13-1777	EA	36" x 42" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	3,546.56	130.17
07 72 38 13-1778	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	1,980.19	130.17
07 72 38 13-1779	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	2,168.26	130.17
07 72 38 13-1780	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	2,356.32	130.17
07 72 38 13-1781	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	2,544.39	130.17
07 72 38 13-1782	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	2,732.46	130.17
07 72 38 13-1783	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	2,920.53	130.17
07 72 38 13-1784	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	3,108.60	130.17
07 72 38 13-1785	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	3,296.66	130.17
07 72 38 13-1786	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	3,484.73	130.17
07 72 38 13-1787	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	3,672.80	130.17
07 72 38 13-1788	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	3,860.87	130.17
07 72 38 13-1789	EA	36" x 42" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	4,048.94	130.17
07 72 38 13-1790	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 16/12 Slope	2,953.18	130.17
07 72 38 13-1791	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 15/12 Slope	3,158.58	141.60
07 72 38 13-1792	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 14/12 Slope	3,346.65	141.60
07 72 38 13-1793	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 13/12 Slope	3,534.72	141.60
07 72 38 13-1794	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 12/12 Slope	3,722.79	141.60
07 72 38 13-1795	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 11/12 Slope	3,910.85	141.60
07 72 38 13-1796	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 10/12 Slope	4,098.92	141.60
07 72 38 13-1797	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 9/12 Slope	4,286.99	141.60
07 72 38 13-1798	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 8/12 Slope	4,475.06	141.60
07 72 38 13-1799	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 7/12 Slope	4,663.13	141.60
07 72 38 13-1800	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 6/12 Slope	4,851.19	141.60
07 72 38 13-1801	EA	42" x 49" Mantle Clock Copper Dormer Vents, 16 Oz Copper, 5/12 Slope	5,039.26	141.60
07 72 38 13-1802	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 16/12 Slope	3,472.89	141.60
07 72 38 13-1803	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 15/12 Slope	3,660.96	141.60
07 72 38 13-1804	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 14/12 Slope	3,849.03	141.60
07 72 38 13-1805	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 13/12 Slope	4,037.09	141.60
07 72 38 13-1806	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 12/12 Slope	4,225.16	141.60
07 72 38 13-1807	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 11/12 Slope	4,413.23	141.60
07 72 38 13-1808	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 10/12 Slope	4,601.30	141.60
07 72 38 13-1809	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 9/12 Slope	4,789.37	141.60
07 72 38 13-1810	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 8/12 Slope	4,977.43	141.60
07 72 38 13-1811	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 7/12 Slope	5,165.50	141.60
07 72 38 13-1812	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 6/12 Slope	5,353.57	141.60
07 72 38 13-1813	EA	42" x 49" Mantle Clock Copper Dormer Vents, 20 Oz Copper, 5/12 Slope	5,541.64	141.60

07 72 38 13-1814 Aluminum Roof Dormer Vent *(07 72 38 13)*

Note: Includes insect screen on the inside of the louvers, 0.032 Kynar finish Aluminum and fabricated with sturdy wooden framing.

07 72 38 13-1815 Half Round Aluminum Roof Dormer Vent *(07 72 38 13-1814)*

07 72 38 13-1816	EA	18" Half Round Aluminum Dormer Vents, 16/12 Slope	566.55	76.51
07 72 38 13-1817	EA	18" Half Round Aluminum Dormer Vents, 15/12 Slope	781.66	76.51
07 72 38 13-1818	EA	18" Half Round Aluminum Dormer Vents, 14/12 Slope	1,025.66	76.51
07 72 38 13-1819	EA	18" Half Round Aluminum Dormer Vents, 13/12 Slope	1,208.67	76.51
07 72 38 13-1820	EA	18" Half Round Aluminum Dormer Vents, 12/12 Slope	1,426.99	76.51
07 72 38 13-1821	EA	18" Half Round Aluminum Dormer Vents, 11/12 Slope	1,638.89	76.51
07 72 38 13-1822	EA	18" Half Round Aluminum Dormer Vents, 10/12 Slope	1,854.00	76.51
07 72 38 13-1823	EA	18" Half Round Aluminum Dormer Vents, 9/12 Slope	2,069.11	76.51
07 72 38 13-1824	EA	18" Half Round Aluminum Dormer Vents, 8/12 Slope	2,284.22	76.51
07 72 38 13-1825	EA	18" Half Round Aluminum Dormer Vents, 7/12 Slope	2,496.12	76.51
07 72 38 13-1826	EA	18" Half Round Aluminum Dormer Vents, 6/12 Slope	2,711.23	76.51
07 72 38 13-1827	EA	18" Half Round Aluminum Dormer Vents, 5/12 Slope	2,926.34	76.51
07 72 38 13-1828	EA	24" Half Round Aluminum Dormer Vents, 16/12 Slope	668.72	91.47
07 72 38 13-1829	EA	24" Half Round Aluminum Dormer Vents, 15/12 Slope	883.83	91.47
07 72 38 13-1830	EA	24" Half Round Aluminum Dormer Vents, 14/12 Slope	1,127.84	91.47
07 72 38 13-1831	EA	24" Half Round Aluminum Dormer Vents, 13/12 Slope	1,310.84	91.47
07 72 38 13-1832	EA	24" Half Round Aluminum Dormer Vents, 12/12 Slope	1,529.17	91.47
07 72 38 13-1833	EA	24" Half Round Aluminum Dormer Vents, 11/12 Slope	1,741.06	91.47
07 72 38 13-1834	EA	24" Half Round Aluminum Dormer Vents, 10/12 Slope	1,956.17	91.47
07 72 38 13-1835	EA	24" Half Round Aluminum Dormer Vents, 9/12 Slope	2,171.29	91.47
07 72 38 13-1836	EA	24" Half Round Aluminum Dormer Vents, 8/12 Slope	2,386.40	91.47
07 72 38 13-1837	EA	24" Half Round Aluminum Dormer Vents, 7/12 Slope	2,598.29	91.47
07 72 38 13-1838	EA	24" Half Round Aluminum Dormer Vents, 6/12 Slope	2,813.41	91.47
07 72 38 13-1839	EA	24" Half Round Aluminum Dormer Vents, 5/12 Slope	3,028.52	91.47
07 72 38 13-1840	EA	30" Half Round Aluminum Dormer Vents, 16/12 Slope	779.61	102.90
07 72 38 13-1841	EA	30" Half Round Aluminum Dormer Vents, 15/12 Slope	994.72	102.90
07 72 38 13-1842	EA	30" Half Round Aluminum Dormer Vents, 14/12 Slope	1,238.73	102.90
07 72 38 13-1843	EA	30" Half Round Aluminum Dormer Vents, 13/12 Slope	1,421.73	102.90
07 72 38 13-1844	EA	30" Half Round Aluminum Dormer Vents, 12/12 Slope	1,640.05	102.90
07 72 38 13-1845	EA	30" Half Round Aluminum Dormer Vents, 11/12 Slope	1,851.95	102.90
07 72 38 13-1846	EA	30" Half Round Aluminum Dormer Vents, 10/12 Slope	2,067.06	102.90
07 72 38 13-1847	EA	30" Half Round Aluminum Dormer Vents, 9/12 Slope	2,282.17	102.90
07 72 38 13-1848	EA	30" Half Round Aluminum Dormer Vents, 8/12 Slope	2,497.28	102.90
07 72 38 13-1849	EA	30" Half Round Aluminum Dormer Vents, 7/12 Slope	2,709.18	102.90

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1850	EA	30" Half Round Aluminum Dormer Vents, 6/12 Slope	2,924.29	102.90
07 72 38 13-1851	EA	30" Half Round Aluminum Dormer Vents, 5/12 Slope	3,139.40	102.90
07 72 38 13-1852	EA	36" Half Round Aluminum Dormer Vents, 16/12 Slope	910.98	116.98
07 72 38 13-1853	EA	36" Half Round Aluminum Dormer Vents, 15/12 Slope	1,126.09	116.98
07 72 38 13-1854	EA	36" Half Round Aluminum Dormer Vents, 14/12 Slope	1,370.10	116.98
07 72 38 13-1855	EA	36" Half Round Aluminum Dormer Vents, 13/12 Slope	1,553.10	116.98
07 72 38 13-1856	EA	36" Half Round Aluminum Dormer Vents, 12/12 Slope	1,771.42	116.98
07 72 38 13-1857	EA	36" Half Round Aluminum Dormer Vents, 11/12 Slope	1,983.32	116.98
07 72 38 13-1858	EA	36" Half Round Aluminum Dormer Vents, 10/12 Slope	2,198.43	116.98
07 72 38 13-1859	EA	36" Half Round Aluminum Dormer Vents, 9/12 Slope	2,413.54	116.98
07 72 38 13-1860	EA	36" Half Round Aluminum Dormer Vents, 8/12 Slope	2,628.65	116.98
07 72 38 13-1861	EA	36" Half Round Aluminum Dormer Vents, 7/12 Slope	2,840.55	116.98
07 72 38 13-1862	EA	36" Half Round Aluminum Dormer Vents, 6/12 Slope	3,055.66	116.98
07 72 38 13-1863	EA	36" Half Round Aluminum Dormer Vents, 5/12 Slope	3,270.77	116.98
07 72 38 13-1864	EA	42" Half Round Aluminum Dormer Vents, 16/12 Slope	1,483.74	130.17
07 72 38 13-1865	EA	42" Half Round Aluminum Dormer Vents, 15/12 Slope	1,698.85	130.17
07 72 38 13-1866	EA	42" Half Round Aluminum Dormer Vents, 14/12 Slope	1,942.86	130.17
07 72 38 13-1867	EA	42" Half Round Aluminum Dormer Vents, 13/12 Slope	2,125.86	130.17
07 72 38 13-1868	EA	42" Half Round Aluminum Dormer Vents, 12/12 Slope	2,344.18	130.17
07 72 38 13-1869	EA	42" Half Round Aluminum Dormer Vents, 11/12 Slope	2,556.08	130.17
07 72 38 13-1870	EA	42" Half Round Aluminum Dormer Vents, 10/12 Slope	2,771.19	130.17
07 72 38 13-1871	EA	42" Half Round Aluminum Dormer Vents, 9/12 Slope	2,986.30	130.17
07 72 38 13-1872	EA	42" Half Round Aluminum Dormer Vents, 8/12 Slope	3,201.41	130.17
07 72 38 13-1873	EA	42" Half Round Aluminum Dormer Vents, 7/12 Slope	3,413.31	130.17
07 72 38 13-1874	EA	42" Half Round Aluminum Dormer Vents, 6/12 Slope	3,628.42	130.17
07 72 38 13-1875	EA	42" Half Round Aluminum Dormer Vents, 5/12 Slope	3,843.53	130.17
07 72 38 13-1876	EA	48" Half Round Aluminum Dormer Vents, 16/12 Slope	2,121.56	130.17
07 72 38 13-1877	EA	48" Half Round Aluminum Dormer Vents, 15/12 Slope	2,354.00	141.60
07 72 38 13-1878	EA	48" Half Round Aluminum Dormer Vents, 14/12 Slope	2,598.00	141.60
07 72 38 13-1879	EA	48" Half Round Aluminum Dormer Vents, 13/12 Slope	2,781.01	141.60
07 72 38 13-1880	EA	48" Half Round Aluminum Dormer Vents, 12/12 Slope	2,999.33	141.60
07 72 38 13-1881	EA	48" Half Round Aluminum Dormer Vents, 11/12 Slope	3,211.23	141.60
07 72 38 13-1882	EA	48" Half Round Aluminum Dormer Vents, 10/12 Slope	3,426.34	141.60
07 72 38 13-1883	EA	48" Half Round Aluminum Dormer Vents, 9/12 Slope	3,641.45	141.60
07 72 38 13-1884	EA	48" Half Round Aluminum Dormer Vents, 8/12 Slope	3,856.56	141.60
07 72 38 13-1885	EA	48" Half Round Aluminum Dormer Vents, 7/12 Slope	4,068.46	141.60
07 72 38 13-1886	EA	48" Half Round Aluminum Dormer Vents, 6/12 Slope	4,283.57	141.60
07 72 38 13-1887	EA	48" Half Round Aluminum Dormer Vents, 5/12 Slope	4,498.68	141.60

07 72 38 13-1888 Triangle Aluminum Roof Dormer Vent *(07 72 38 13-1814)*

07 72 38 13-1889	EA	18" x 9" Triangle Aluminum Dormer Vents, 16/12 Slope	1,264.53	76.51
07 72 38 13-1890	EA	18" x 9" Triangle Aluminum Dormer Vents, 15/12 Slope	1,479.64	76.51
07 72 38 13-1891	EA	18" x 9" Triangle Aluminum Dormer Vents, 14/12 Slope	1,723.65	76.51
07 72 38 13-1892	EA	18" x 9" Triangle Aluminum Dormer Vents, 13/12 Slope	1,906.65	76.51
07 72 38 13-1893	EA	18" x 9" Triangle Aluminum Dormer Vents, 12/12 Slope	2,124.97	76.51
07 72 38 13-1894	EA	18" x 9" Triangle Aluminum Dormer Vents, 11/12 Slope	2,336.87	76.51
07 72 38 13-1895	EA	18" x 9" Triangle Aluminum Dormer Vents, 10/12 Slope	2,551.98	76.51
07 72 38 13-1896	EA	18" x 9" Triangle Aluminum Dormer Vents, 9/12 Slope	2,767.09	76.51
07 72 38 13-1897	EA	18" x 9" Triangle Aluminum Dormer Vents, 8/12 Slope	2,982.20	76.51
07 72 38 13-1898	EA	18" x 9" Triangle Aluminum Dormer Vents, 7/12 Slope	3,194.10	76.51
07 72 38 13-1899	EA	18" x 9" Triangle Aluminum Dormer Vents, 6/12 Slope	3,409.21	76.51
07 72 38 13-1900	EA	18" x 9" Triangle Aluminum Dormer Vents, 5/12 Slope	3,624.32	76.51
07 72 38 13-1901	EA	18" x 12" Triangle Aluminum Dormer Vents, 16/12 Slope	1,363.84	76.51
07 72 38 13-1902	EA	18" x 12" Triangle Aluminum Dormer Vents, 15/12 Slope	1,578.95	76.51
07 72 38 13-1903	EA	18" x 12" Triangle Aluminum Dormer Vents, 14/12 Slope	1,822.95	76.51
07 72 38 13-1904	EA	18" x 12" Triangle Aluminum Dormer Vents, 13/12 Slope	2,005.96	76.51
07 72 38 13-1905	EA	18" x 12" Triangle Aluminum Dormer Vents, 12/12 Slope	2,224.28	76.51
07 72 38 13-1906	EA	18" x 12" Triangle Aluminum Dormer Vents, 11/12 Slope	2,436.18	76.51
07 72 38 13-1907	EA	18" x 12" Triangle Aluminum Dormer Vents, 10/12 Slope	2,651.29	76.51
07 72 38 13-1908	EA	18" x 12" Triangle Aluminum Dormer Vents, 9/12 Slope	2,866.40	76.51
07 72 38 13-1909	EA	18" x 12" Triangle Aluminum Dormer Vents, 8/12 Slope	3,081.51	76.51
07 72 38 13-1910	EA	18" x 12" Triangle Aluminum Dormer Vents, 7/12 Slope	3,293.41	76.51
07 72 38 13-1911	EA	18" x 12" Triangle Aluminum Dormer Vents, 6/12 Slope	3,508.52	76.51
07 72 38 13-1912	EA	18" x 12" Triangle Aluminum Dormer Vents, 5/12 Slope	3,723.63	76.51
07 72 38 13-1913	EA	24" x 12" Triangle Aluminum Dormer Vents, 16/12 Slope	1,518.89	91.47
07 72 38 13-1914	EA	24" x 12" Triangle Aluminum Dormer Vents, 15/12 Slope	1,734.00	91.47
07 72 38 13-1915	EA	24" x 12" Triangle Aluminum Dormer Vents, 14/12 Slope	1,978.01	91.47
07 72 38 13-1916	EA	24" x 12" Triangle Aluminum Dormer Vents, 13/12 Slope	2,161.01	91.47
07 72 38 13-1917	EA	24" x 12" Triangle Aluminum Dormer Vents, 12/12 Slope	2,379.33	91.47
07 72 38 13-1918	EA	24" x 12" Triangle Aluminum Dormer Vents, 11/12 Slope	2,591.23	91.47
07 72 38 13-1919	EA	24" x 12" Triangle Aluminum Dormer Vents, 10/12 Slope	2,806.34	91.47
07 72 38 13-1920	EA	24" x 12" Triangle Aluminum Dormer Vents, 9/12 Slope	3,021.45	91.47
07 72 38 13-1921	EA	24" x 12" Triangle Aluminum Dormer Vents, 8/12 Slope	3,236.56	91.47
07 72 38 13-1922	EA	24" x 12" Triangle Aluminum Dormer Vents, 7/12 Slope	3,448.46	91.47
07 72 38 13-1923	EA	24" x 12" Triangle Aluminum Dormer Vents, 6/12 Slope	3,663.57	91.47
07 72 38 13-1924	EA	24" x 12" Triangle Aluminum Dormer Vents, 5/12 Slope	3,878.68	91.47
07 72 38 13-1925	EA	24" x 16" Triangle Aluminum Dormer Vents, 16/12 Slope	1,695.41	91.47
07 72 38 13-1926	EA	24" x 16" Triangle Aluminum Dormer Vents, 15/12 Slope	1,910.52	91.47
07 72 38 13-1927	EA	24" x 16" Triangle Aluminum Dormer Vents, 14/12 Slope	2,154.53	91.47
07 72 38 13-1928	EA	24" x 16" Triangle Aluminum Dormer Vents, 13/12 Slope	2,337.53	91.47

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-1929	EA	24" x 16" Triangle Aluminum Dormer Vents, 12/12 Slope	2,555.85	91.47
07 72 38 13-1930	EA	24" x 16" Triangle Aluminum Dormer Vents, 11/12 Slope	2,767.75	91.47
07 72 38 13-1931	EA	24" x 16" Triangle Aluminum Dormer Vents, 10/12 Slope	2,982.86	91.47
07 72 38 13-1932	EA	24" x 16" Triangle Aluminum Dormer Vents, 9/12 Slope	3,197.97	91.47
07 72 38 13-1933	EA	24" x 16" Triangle Aluminum Dormer Vents, 8/12 Slope	3,413.08	91.47
07 72 38 13-1934	EA	24" x 16" Triangle Aluminum Dormer Vents, 7/12 Slope	3,624.98	91.47
07 72 38 13-1935	EA	24" x 16" Triangle Aluminum Dormer Vents, 6/12 Slope	3,840.09	91.47
07 72 38 13-1936	EA	24" x 16" Triangle Aluminum Dormer Vents, 5/12 Slope	4,055.20	91.47
07 72 38 13-1937	EA	30" x 15" Triangle Aluminum Dormer Vents, 16/12 Slope	1,834.13	102.90
07 72 38 13-1938	EA	30" x 15" Triangle Aluminum Dormer Vents, 15/12 Slope	2,049.24	102.90
07 72 38 13-1939	EA	30" x 15" Triangle Aluminum Dormer Vents, 14/12 Slope	2,293.25	102.90
07 72 38 13-1940	EA	30" x 15" Triangle Aluminum Dormer Vents, 13/12 Slope	2,476.25	102.90
07 72 38 13-1941	EA	30" x 15" Triangle Aluminum Dormer Vents, 12/12 Slope	2,694.57	102.90
07 72 38 13-1942	EA	30" x 15" Triangle Aluminum Dormer Vents, 11/12 Slope	2,906.47	102.90
07 72 38 13-1943	EA	30" x 15" Triangle Aluminum Dormer Vents, 10/12 Slope	3,121.58	102.90
07 72 38 13-1944	EA	30" x 15" Triangle Aluminum Dormer Vents, 9/12 Slope	3,336.69	102.90
07 72 38 13-1945	EA	30" x 15" Triangle Aluminum Dormer Vents, 8/12 Slope	3,551.80	102.90
07 72 38 13-1946	EA	30" x 15" Triangle Aluminum Dormer Vents, 7/12 Slope	3,763.70	102.90
07 72 38 13-1947	EA	30" x 15" Triangle Aluminum Dormer Vents, 6/12 Slope	3,978.81	102.90
07 72 38 13-1948	EA	30" x 15" Triangle Aluminum Dormer Vents, 5/12 Slope	4,193.92	102.90
07 72 38 13-1949	EA	30" x 20" Triangle Aluminum Dormer Vents, 16/12 Slope	2,109.96	102.90
07 72 38 13-1950	EA	30" x 20" Triangle Aluminum Dormer Vents, 15/12 Slope	2,325.07	102.90
07 72 38 13-1951	EA	30" x 20" Triangle Aluminum Dormer Vents, 14/12 Slope	2,569.07	102.90
07 72 38 13-1952	EA	30" x 20" Triangle Aluminum Dormer Vents, 13/12 Slope	2,752.08	102.90
07 72 38 13-1953	EA	30" x 20" Triangle Aluminum Dormer Vents, 12/12 Slope	2,970.40	102.90
07 72 38 13-1954	EA	30" x 20" Triangle Aluminum Dormer Vents, 11/12 Slope	3,182.30	102.90
07 72 38 13-1955	EA	30" x 20" Triangle Aluminum Dormer Vents, 10/12 Slope	3,397.41	102.90
07 72 38 13-1956	EA	30" x 20" Triangle Aluminum Dormer Vents, 9/12 Slope	3,612.52	102.90
07 72 38 13-1957	EA	30" x 20" Triangle Aluminum Dormer Vents, 8/12 Slope	3,827.63	102.90
07 72 38 13-1958	EA	30" x 20" Triangle Aluminum Dormer Vents, 7/12 Slope	4,039.53	102.90
07 72 38 13-1959	EA	30" x 20" Triangle Aluminum Dormer Vents, 6/12 Slope	4,254.64	102.90
07 72 38 13-1960	EA	30" x 20" Triangle Aluminum Dormer Vents, 5/12 Slope	4,469.75	102.90
07 72 38 13-1961	EA	36" x 18" Triangle Aluminum Dormer Vents, 16/12 Slope	2,219.52	116.98
07 72 38 13-1962	EA	36" x 18" Triangle Aluminum Dormer Vents, 15/12 Slope	2,434.63	116.98
07 72 38 13-1963	EA	36" x 18" Triangle Aluminum Dormer Vents, 14/12 Slope	2,678.64	116.98
07 72 38 13-1964	EA	36" x 18" Triangle Aluminum Dormer Vents, 13/12 Slope	2,861.64	116.98
07 72 38 13-1965	EA	36" x 18" Triangle Aluminum Dormer Vents, 12/12 Slope	3,079.97	116.98
07 72 38 13-1966	EA	36" x 18" Triangle Aluminum Dormer Vents, 11/12 Slope	3,291.87	116.98
07 72 38 13-1967	EA	36" x 18" Triangle Aluminum Dormer Vents, 10/12 Slope	3,506.98	116.98
07 72 38 13-1968	EA	36" x 18" Triangle Aluminum Dormer Vents, 9/12 Slope	3,722.09	116.98
07 72 38 13-1969	EA	36" x 18" Triangle Aluminum Dormer Vents, 8/12 Slope	3,937.20	116.98
07 72 38 13-1970	EA	36" x 18" Triangle Aluminum Dormer Vents, 7/12 Slope	4,149.10	116.98
07 72 38 13-1971	EA	36" x 18" Triangle Aluminum Dormer Vents, 6/12 Slope	4,364.21	116.98
07 72 38 13-1972	EA	36" x 18" Triangle Aluminum Dormer Vents, 5/12 Slope	4,579.32	116.98
07 72 38 13-1973	EA	36" x 24" Triangle Aluminum Dormer Vents, 16/12 Slope	2,616.74	116.98
07 72 38 13-1974	EA	36" x 24" Triangle Aluminum Dormer Vents, 15/12 Slope	2,831.85	116.98
07 72 38 13-1975	EA	36" x 24" Triangle Aluminum Dormer Vents, 14/12 Slope	3,075.86	116.98
07 72 38 13-1976	EA	36" x 24" Triangle Aluminum Dormer Vents, 13/12 Slope	3,258.86	116.98
07 72 38 13-1977	EA	36" x 24" Triangle Aluminum Dormer Vents, 12/12 Slope	3,477.18	116.98
07 72 38 13-1978	EA	36" x 24" Triangle Aluminum Dormer Vents, 11/12 Slope	3,689.08	116.98
07 72 38 13-1979	EA	36" x 24" Triangle Aluminum Dormer Vents, 10/12 Slope	3,904.19	116.98
07 72 38 13-1980	EA	36" x 24" Triangle Aluminum Dormer Vents, 9/12 Slope	4,119.30	116.98
07 72 38 13-1981	EA	36" x 24" Triangle Aluminum Dormer Vents, 8/12 Slope	4,334.41	116.98
07 72 38 13-1982	EA	36" x 24" Triangle Aluminum Dormer Vents, 7/12 Slope	4,546.31	116.98
07 72 38 13-1983	EA	36" x 24" Triangle Aluminum Dormer Vents, 6/12 Slope	4,761.42	116.98
07 72 38 13-1984	EA	36" x 24" Triangle Aluminum Dormer Vents, 5/12 Slope	4,976.53	116.98
07 72 38 13-1985	EA	42" x 21" Triangle Aluminum Dormer Vents, 16/12 Slope	2,669.83	130.17
07 72 38 13-1986	EA	42" x 21" Triangle Aluminum Dormer Vents, 15/12 Slope	2,884.94	130.17
07 72 38 13-1987	EA	42" x 21" Triangle Aluminum Dormer Vents, 14/12 Slope	3,128.95	130.17
07 72 38 13-1988	EA	42" x 21" Triangle Aluminum Dormer Vents, 13/12 Slope	3,311.95	130.17
07 72 38 13-1989	EA	42" x 21" Triangle Aluminum Dormer Vents, 12/12 Slope	3,530.27	130.17
07 72 38 13-1990	EA	42" x 21" Triangle Aluminum Dormer Vents, 11/12 Slope	3,742.17	130.17
07 72 38 13-1991	EA	42" x 21" Triangle Aluminum Dormer Vents, 10/12 Slope	3,957.28	130.17
07 72 38 13-1992	EA	42" x 21" Triangle Aluminum Dormer Vents, 9/12 Slope	4,172.39	130.17
07 72 38 13-1993	EA	42" x 21" Triangle Aluminum Dormer Vents, 8/12 Slope	4,387.50	130.17
07 72 38 13-1994	EA	42" x 21" Triangle Aluminum Dormer Vents, 7/12 Slope	4,599.40	130.17
07 72 38 13-1995	EA	42" x 21" Triangle Aluminum Dormer Vents, 6/12 Slope	4,814.51	130.17
07 72 38 13-1996	EA	42" x 21" Triangle Aluminum Dormer Vents, 5/12 Slope	5,029.62	130.17
07 72 38 13-1997	EA	42" x 28" Triangle Aluminum Dormer Vents, 16/12 Slope	3,210.50	130.17
07 72 38 13-1998	EA	42" x 28" Triangle Aluminum Dormer Vents, 15/12 Slope	3,425.61	130.17
07 72 38 13-1999	EA	42" x 28" Triangle Aluminum Dormer Vents, 14/12 Slope	3,669.61	130.17
07 72 38 13-2000	EA	42" x 28" Triangle Aluminum Dormer Vents, 13/12 Slope	3,852.62	130.17
07 72 38 13-2001	EA	42" x 28" Triangle Aluminum Dormer Vents, 12/12 Slope	4,070.94	130.17
07 72 38 13-2002	EA	42" x 28" Triangle Aluminum Dormer Vents, 11/12 Slope	4,282.84	130.17
07 72 38 13-2003	EA	42" x 28" Triangle Aluminum Dormer Vents, 10/12 Slope	4,497.95	130.17
07 72 38 13-2004	EA	42" x 28" Triangle Aluminum Dormer Vents, 9/12 Slope	4,713.06	130.17
07 72 38 13-2005	EA	42" x 28" Triangle Aluminum Dormer Vents, 8/12 Slope	4,928.17	130.17
07 72 38 13-2006	EA	42" x 28" Triangle Aluminum Dormer Vents, 7/12 Slope	5,140.07	130.17
07 72 38 13-2007	EA	42" x 28" Triangle Aluminum Dormer Vents, 6/12 Slope	5,355.18	130.17
07 72 38 13-2008	EA	42" x 28" Triangle Aluminum Dormer Vents, 5/12 Slope	5,570.29	130.17
07 72 38 13-2009	EA	48" x 24" Triangle Aluminum Dormer Vents, 16/12 Slope	3,166.35	130.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-2010	EA	48" x 24" Triangle Aluminum Dormer Vents, 15/12 Slope	3,398.79	141.60
07 72 38 13-2011	EA	48" x 24" Triangle Aluminum Dormer Vents, 14/12 Slope	3,642.80	141.60
07 72 38 13-2012	EA	48" x 24" Triangle Aluminum Dormer Vents, 13/12 Slope	3,825.80	141.60
07 72 38 13-2013	EA	48" x 24" Triangle Aluminum Dormer Vents, 12/12 Slope	4,044.12	141.60
07 72 38 13-2014	EA	48" x 24" Triangle Aluminum Dormer Vents, 11/12 Slope	4,256.02	141.60
07 72 38 13-2015	EA	48" x 24" Triangle Aluminum Dormer Vents, 10/12 Slope	4,471.13	141.60
07 72 38 13-2016	EA	48" x 24" Triangle Aluminum Dormer Vents, 9/12 Slope	4,686.24	141.60
07 72 38 13-2017	EA	48" x 24" Triangle Aluminum Dormer Vents, 8/12 Slope	4,901.35	141.60
07 72 38 13-2018	EA	48" x 24" Triangle Aluminum Dormer Vents, 7/12 Slope	5,113.25	141.60
07 72 38 13-2019	EA	48" x 24" Triangle Aluminum Dormer Vents, 6/12 Slope	5,328.36	141.60
07 72 38 13-2020	EA	48" x 24" Triangle Aluminum Dormer Vents, 5/12 Slope	5,543.47	141.60
07 72 38 13-2021	EA	48" x 32" Triangle Aluminum Dormer Vents, 16/12 Slope	3,872.49	130.17
07 72 38 13-2022	EA	48" x 32" Triangle Aluminum Dormer Vents, 15/12 Slope	4,104.93	141.60
07 72 38 13-2023	EA	48" x 32" Triangle Aluminum Dormer Vents, 14/12 Slope	4,348.94	141.60
07 72 38 13-2024	EA	48" x 32" Triangle Aluminum Dormer Vents, 13/12 Slope	4,531.94	141.60
07 72 38 13-2025	EA	48" x 32" Triangle Aluminum Dormer Vents, 12/12 Slope	4,750.26	141.60
07 72 38 13-2026	EA	48" x 32" Triangle Aluminum Dormer Vents, 11/12 Slope	4,962.16	141.60
07 72 38 13-2027	EA	48" x 32" Triangle Aluminum Dormer Vents, 10/12 Slope	5,177.27	141.60
07 72 38 13-2028	EA	48" x 32" Triangle Aluminum Dormer Vents, 9/12 Slope	5,392.38	141.60
07 72 38 13-2029	EA	48" x 32" Triangle Aluminum Dormer Vents, 8/12 Slope	5,607.49	141.60
07 72 38 13-2030	EA	48" x 32" Triangle Aluminum Dormer Vents, 7/12 Slope	5,819.39	141.60
07 72 38 13-2031	EA	48" x 32" Triangle Aluminum Dormer Vents, 6/12 Slope	6,034.50	141.60
07 72 38 13-2032	EA	48" x 32" Triangle Aluminum Dormer Vents, 5/12 Slope	6,249.61	141.60

07 72 38 13-2033 Rectangle Aluminum Roof Dormer Vent *(07 72 38 13-1814)*

07 72 38 13-2034	EA	12" x 18" Rectangle Aluminum Dormer Vents, 16/12 Slope	1,380.08	76.51
07 72 38 13-2035	EA	12" x 18" Rectangle Aluminum Dormer Vents, 15/12 Slope	1,511.43	76.51
07 72 38 13-2036	EA	12" x 18" Rectangle Aluminum Dormer Vents, 14/12 Slope	1,642.77	76.51
07 72 38 13-2037	EA	12" x 18" Rectangle Aluminum Dormer Vents, 13/12 Slope	1,774.12	76.51
07 72 38 13-2038	EA	12" x 18" Rectangle Aluminum Dormer Vents, 12/12 Slope	1,905.46	76.51
07 72 38 13-2039	EA	12" x 18" Rectangle Aluminum Dormer Vents, 11/12 Slope	2,036.81	76.51
07 72 38 13-2040	EA	12" x 18" Rectangle Aluminum Dormer Vents, 10/12 Slope	2,168.16	76.51
07 72 38 13-2041	EA	12" x 18" Rectangle Aluminum Dormer Vents, 9/12 Slope	2,299.50	76.51
07 72 38 13-2042	EA	12" x 18" Rectangle Aluminum Dormer Vents, 8/12 Slope	2,430.85	76.51
07 72 38 13-2043	EA	12" x 18" Rectangle Aluminum Dormer Vents, 7/12 Slope	2,562.19	76.51
07 72 38 13-2044	EA	12" x 18" Rectangle Aluminum Dormer Vents, 6/12 Slope	2,693.54	76.51
07 72 38 13-2045	EA	12" x 18" Rectangle Aluminum Dormer Vents, 5/12 Slope	2,824.88	76.51
07 72 38 13-2046	EA	15" x 21" Rectangle Aluminum Dormer Vents, 16/12 Slope	1,650.65	91.47
07 72 38 13-2047	EA	15" x 21" Rectangle Aluminum Dormer Vents, 15/12 Slope	1,782.00	91.47
07 72 38 13-2048	EA	15" x 21" Rectangle Aluminum Dormer Vents, 14/12 Slope	1,913.35	91.47
07 72 38 13-2049	EA	15" x 21" Rectangle Aluminum Dormer Vents, 13/12 Slope	2,044.69	91.47
07 72 38 13-2050	EA	15" x 21" Rectangle Aluminum Dormer Vents, 12/12 Slope	2,176.04	91.47
07 72 38 13-2051	EA	15" x 21" Rectangle Aluminum Dormer Vents, 11/12 Slope	2,307.38	91.47
07 72 38 13-2052	EA	15" x 21" Rectangle Aluminum Dormer Vents, 10/12 Slope	2,438.73	91.47
07 72 38 13-2053	EA	15" x 21" Rectangle Aluminum Dormer Vents, 9/12 Slope	2,570.07	91.47
07 72 38 13-2054	EA	15" x 21" Rectangle Aluminum Dormer Vents, 8/12 Slope	2,701.42	91.47
07 72 38 13-2055	EA	15" x 21" Rectangle Aluminum Dormer Vents, 7/12 Slope	2,832.77	91.47
07 72 38 13-2056	EA	15" x 21" Rectangle Aluminum Dormer Vents, 6/12 Slope	2,964.11	91.47
07 72 38 13-2057	EA	15" x 21" Rectangle Aluminum Dormer Vents, 5/12 Slope	3,095.46	91.47
07 72 38 13-2058	EA	18" x 27" Rectangle Aluminum Dormer Vents, 16/12 Slope	2,096.21	102.90
07 72 38 13-2059	EA	18" x 27" Rectangle Aluminum Dormer Vents, 15/12 Slope	2,227.56	102.90
07 72 38 13-2060	EA	18" x 27" Rectangle Aluminum Dormer Vents, 14/12 Slope	2,358.91	102.90
07 72 38 13-2061	EA	18" x 27" Rectangle Aluminum Dormer Vents, 13/12 Slope	2,490.25	102.90
07 72 38 13-2062	EA	18" x 27" Rectangle Aluminum Dormer Vents, 12/12 Slope	2,621.60	102.90
07 72 38 13-2063	EA	18" x 27" Rectangle Aluminum Dormer Vents, 11/12 Slope	2,752.94	102.90
07 72 38 13-2064	EA	18" x 27" Rectangle Aluminum Dormer Vents, 10/12 Slope	2,884.29	102.90
07 72 38 13-2065	EA	18" x 27" Rectangle Aluminum Dormer Vents, 9/12 Slope	3,015.63	102.90
07 72 38 13-2066	EA	18" x 27" Rectangle Aluminum Dormer Vents, 8/12 Slope	3,146.98	102.90
07 72 38 13-2067	EA	18" x 27" Rectangle Aluminum Dormer Vents, 7/12 Slope	3,278.32	102.90
07 72 38 13-2068	EA	18" x 27" Rectangle Aluminum Dormer Vents, 6/12 Slope	3,409.67	102.90
07 72 38 13-2069	EA	18" x 27" Rectangle Aluminum Dormer Vents, 5/12 Slope	3,541.02	102.90
07 72 38 13-2070	EA	24" x 36" Rectangle Aluminum Dormer Vents, 16/12 Slope	3,064.14	116.98
07 72 38 13-2071	EA	24" x 36" Rectangle Aluminum Dormer Vents, 15/12 Slope	3,195.48	116.98
07 72 38 13-2072	EA	24" x 36" Rectangle Aluminum Dormer Vents, 14/12 Slope	3,326.83	116.98
07 72 38 13-2073	EA	24" x 36" Rectangle Aluminum Dormer Vents, 13/12 Slope	3,458.17	116.98
07 72 38 13-2074	EA	24" x 36" Rectangle Aluminum Dormer Vents, 12/12 Slope	3,589.52	116.98
07 72 38 13-2075	EA	24" x 36" Rectangle Aluminum Dormer Vents, 11/12 Slope	3,720.87	116.98
07 72 38 13-2076	EA	24" x 36" Rectangle Aluminum Dormer Vents, 10/12 Slope	3,852.21	116.98
07 72 38 13-2077	EA	24" x 36" Rectangle Aluminum Dormer Vents, 9/12 Slope	3,983.56	116.98
07 72 38 13-2078	EA	24" x 36" Rectangle Aluminum Dormer Vents, 8/12 Slope	4,114.90	116.98
07 72 38 13-2079	EA	24" x 36" Rectangle Aluminum Dormer Vents, 7/12 Slope	4,246.25	116.98
07 72 38 13-2080	EA	24" x 36" Rectangle Aluminum Dormer Vents, 6/12 Slope	4,377.59	116.98
07 72 38 13-2081	EA	24" x 36" Rectangle Aluminum Dormer Vents, 5/12 Slope	4,508.94	116.98
07 72 38 13-2082	EA	30" x 42" Rectangle Aluminum Dormer Vents, 16/12 Slope	4,075.82	130.17
07 72 38 13-2083	EA	30" x 42" Rectangle Aluminum Dormer Vents, 15/12 Slope	4,207.16	130.17
07 72 38 13-2084	EA	30" x 42" Rectangle Aluminum Dormer Vents, 14/12 Slope	4,338.51	130.17
07 72 38 13-2085	EA	30" x 42" Rectangle Aluminum Dormer Vents, 13/12 Slope	4,469.85	130.17
07 72 38 13-2086	EA	30" x 42" Rectangle Aluminum Dormer Vents, 12/12 Slope	4,601.20	130.17
07 72 38 13-2087	EA	30" x 42" Rectangle Aluminum Dormer Vents, 11/12 Slope	4,732.55	130.17
07 72 38 13-2088	EA	30" x 42" Rectangle Aluminum Dormer Vents, 10/12 Slope	4,863.89	130.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-2089	EA	30" x 42" Rectangle Aluminum Dormer Vents, 9/12 Slope	4,995.24	130.17
07 72 38 13-2090	EA	30" x 42" Rectangle Aluminum Dormer Vents, 8/12 Slope	5,126.58	130.17
07 72 38 13-2091	EA	30" x 42" Rectangle Aluminum Dormer Vents, 7/12 Slope	5,257.93	130.17
07 72 38 13-2092	EA	30" x 42" Rectangle Aluminum Dormer Vents, 6/12 Slope	5,389.27	130.17
07 72 38 13-2093	EA	30" x 42" Rectangle Aluminum Dormer Vents, 5/12 Slope	5,520.62	130.17
07 72 38 13-2094	EA	36" x 48" Rectangle Aluminum Dormer Vents, 16/12 Slope	5,247.81	130.17
07 72 38 13-2095	EA	36" x 48" Rectangle Aluminum Dormer Vents, 15/12 Slope	5,396.49	141.60
07 72 38 13-2096	EA	36" x 48" Rectangle Aluminum Dormer Vents, 14/12 Slope	5,527.84	141.60
07 72 38 13-2097	EA	36" x 48" Rectangle Aluminum Dormer Vents, 13/12 Slope	5,659.18	141.60
07 72 38 13-2098	EA	36" x 48" Rectangle Aluminum Dormer Vents, 12/12 Slope	5,790.53	141.60
07 72 38 13-2099	EA	36" x 48" Rectangle Aluminum Dormer Vents, 11/12 Slope	5,921.87	141.60
07 72 38 13-2100	EA	36" x 48" Rectangle Aluminum Dormer Vents, 10/12 Slope	6,053.22	141.60
07 72 38 13-2101	EA	36" x 48" Rectangle Aluminum Dormer Vents, 9/12 Slope	6,184.56	141.60
07 72 38 13-2102	EA	36" x 48" Rectangle Aluminum Dormer Vents, 8/12 Slope	6,315.91	141.60
07 72 38 13-2103	EA	36" x 48" Rectangle Aluminum Dormer Vents, 7/12 Slope	6,447.26	141.60
07 72 38 13-2104	EA	36" x 48" Rectangle Aluminum Dormer Vents, 6/12 Slope	6,578.60	141.60
07 72 38 13-2105	EA	36" x 48" Rectangle Aluminum Dormer Vents, 5/12 Slope	6,709.95	141.60
07 72 38 13-2106		Tombstone Aluminum Roof Dormer Vent *(07 72 38 13-1814)*		
07 72 38 13-2107	EA	12" x 18" Tombstone Aluminum Dormer Vents, 16/12 Slope	1,453.73	76.51
07 72 38 13-2108	EA	12" x 18" Tombstone Aluminum Dormer Vents, 15/12 Slope	1,668.84	76.51
07 72 38 13-2109	EA	12" x 18" Tombstone Aluminum Dormer Vents, 14/12 Slope	1,912.85	76.51
07 72 38 13-2110	EA	12" x 18" Tombstone Aluminum Dormer Vents, 13/12 Slope	2,095.85	76.51
07 72 38 13-2111	EA	12" x 18" Tombstone Aluminum Dormer Vents, 12/12 Slope	2,314.17	76.51
07 72 38 13-2112	EA	12" x 18" Tombstone Aluminum Dormer Vents, 11/12 Slope	2,526.07	76.51
07 72 38 13-2113	EA	12" x 18" Tombstone Aluminum Dormer Vents, 10/12 Slope	2,741.18	76.51
07 72 38 13-2114	EA	12" x 18" Tombstone Aluminum Dormer Vents, 9/12 Slope	2,956.29	76.51
07 72 38 13-2115	EA	12" x 18" Tombstone Aluminum Dormer Vents, 8/12 Slope	3,171.40	76.51
07 72 38 13-2116	EA	12" x 18" Tombstone Aluminum Dormer Vents, 7/12 Slope	3,383.30	76.51
07 72 38 13-2117	EA	12" x 18" Tombstone Aluminum Dormer Vents, 6/12 Slope	3,598.41	76.51
07 72 38 13-2118	EA	12" x 18" Tombstone Aluminum Dormer Vents, 5/12 Slope	3,813.52	76.51
07 72 38 13-2119	EA	15" x 21" Tombstone Aluminum Dormer Vents, 16/12 Slope	1,676.63	91.47
07 72 38 13-2120	EA	15" x 21" Tombstone Aluminum Dormer Vents, 15/12 Slope	1,891.74	91.47
07 72 38 13-2121	EA	15" x 21" Tombstone Aluminum Dormer Vents, 14/12 Slope	2,135.74	91.47
07 72 38 13-2122	EA	15" x 21" Tombstone Aluminum Dormer Vents, 13/12 Slope	2,318.75	91.47
07 72 38 13-2123	EA	15" x 21" Tombstone Aluminum Dormer Vents, 12/12 Slope	2,537.07	91.47
07 72 38 13-2124	EA	15" x 21" Tombstone Aluminum Dormer Vents, 11/12 Slope	2,748.97	91.47
07 72 38 13-2125	EA	15" x 21" Tombstone Aluminum Dormer Vents, 10/12 Slope	2,964.08	91.47
07 72 38 13-2126	EA	15" x 21" Tombstone Aluminum Dormer Vents, 9/12 Slope	3,179.19	91.47
07 72 38 13-2127	EA	15" x 21" Tombstone Aluminum Dormer Vents, 8/12 Slope	3,394.30	91.47
07 72 38 13-2128	EA	15" x 21" Tombstone Aluminum Dormer Vents, 7/12 Slope	3,606.20	91.47
07 72 38 13-2129	EA	15" x 21" Tombstone Aluminum Dormer Vents, 6/12 Slope	3,821.31	91.47
07 72 38 13-2130	EA	15" x 21" Tombstone Aluminum Dormer Vents, 5/12 Slope	4,036.42	91.47
07 72 38 13-2131	EA	18" x 27" Tombstone Aluminum Dormer Vents, 16/12 Slope	2,039.84	102.90
07 72 38 13-2132	EA	18" x 27" Tombstone Aluminum Dormer Vents, 15/12 Slope	2,254.95	102.90
07 72 38 13-2133	EA	18" x 27" Tombstone Aluminum Dormer Vents, 14/12 Slope	2,498.95	102.90
07 72 38 13-2134	EA	18" x 27" Tombstone Aluminum Dormer Vents, 13/12 Slope	2,681.96	102.90
07 72 38 13-2135	EA	18" x 27" Tombstone Aluminum Dormer Vents, 12/12 Slope	2,900.28	102.90
07 72 38 13-2136	EA	18" x 27" Tombstone Aluminum Dormer Vents, 11/12 Slope	3,112.18	102.90
07 72 38 13-2137	EA	18" x 27" Tombstone Aluminum Dormer Vents, 10/12 Slope	3,327.29	102.90
07 72 38 13-2138	EA	18" x 27" Tombstone Aluminum Dormer Vents, 9/12 Slope	3,542.40	102.90
07 72 38 13-2139	EA	18" x 27" Tombstone Aluminum Dormer Vents, 8/12 Slope	3,757.51	102.90
07 72 38 13-2140	EA	18" x 27" Tombstone Aluminum Dormer Vents, 7/12 Slope	3,969.41	102.90
07 72 38 13-2141	EA	18" x 27" Tombstone Aluminum Dormer Vents, 6/12 Slope	4,184.52	102.90
07 72 38 13-2142	EA	18" x 27" Tombstone Aluminum Dormer Vents, 5/12 Slope	4,399.63	102.90
07 72 38 13-2143	EA	24" x 36" Tombstone Aluminum Dormer Vents, 16/12 Slope	2,825.72	116.98
07 72 38 13-2144	EA	24" x 36" Tombstone Aluminum Dormer Vents, 15/12 Slope	3,040.83	116.98
07 72 38 13-2145	EA	24" x 36" Tombstone Aluminum Dormer Vents, 14/12 Slope	3,284.83	116.98
07 72 38 13-2146	EA	24" x 36" Tombstone Aluminum Dormer Vents, 13/12 Slope	3,467.84	116.98
07 72 38 13-2147	EA	24" x 36" Tombstone Aluminum Dormer Vents, 12/12 Slope	3,686.16	116.98
07 72 38 13-2148	EA	24" x 36" Tombstone Aluminum Dormer Vents, 11/12 Slope	3,898.06	116.98
07 72 38 13-2149	EA	24" x 36" Tombstone Aluminum Dormer Vents, 10/12 Slope	4,113.17	116.98
07 72 38 13-2150	EA	24" x 36" Tombstone Aluminum Dormer Vents, 9/12 Slope	4,328.28	116.98
07 72 38 13-2151	EA	24" x 36" Tombstone Aluminum Dormer Vents, 8/12 Slope	4,543.39	116.98
07 72 38 13-2152	EA	24" x 36" Tombstone Aluminum Dormer Vents, 7/12 Slope	4,755.29	116.98
07 72 38 13-2153	EA	24" x 36" Tombstone Aluminum Dormer Vents, 6/12 Slope	4,970.40	116.98
07 72 38 13-2154	EA	24" x 36" Tombstone Aluminum Dormer Vents, 5/12 Slope	5,185.51	116.98
07 72 38 13-2155	EA	30" x 42" Tombstone Aluminum Dormer Vents, 16/12 Slope	3,646.69	130.17
07 72 38 13-2156	EA	30" x 42" Tombstone Aluminum Dormer Vents, 15/12 Slope	3,861.80	130.17
07 72 38 13-2157	EA	30" x 42" Tombstone Aluminum Dormer Vents, 14/12 Slope	4,105.80	130.17
07 72 38 13-2158	EA	30" x 42" Tombstone Aluminum Dormer Vents, 13/12 Slope	4,288.81	130.17
07 72 38 13-2159	EA	30" x 42" Tombstone Aluminum Dormer Vents, 12/12 Slope	4,507.13	130.17
07 72 38 13-2160	EA	30" x 42" Tombstone Aluminum Dormer Vents, 11/12 Slope	4,719.03	130.17
07 72 38 13-2161	EA	30" x 42" Tombstone Aluminum Dormer Vents, 10/12 Slope	4,934.14	130.17
07 72 38 13-2162	EA	30" x 42" Tombstone Aluminum Dormer Vents, 9/12 Slope	5,149.25	130.17
07 72 38 13-2163	EA	30" x 42" Tombstone Aluminum Dormer Vents, 8/12 Slope	5,364.36	130.17
07 72 38 13-2164	EA	30" x 42" Tombstone Aluminum Dormer Vents, 7/12 Slope	5,576.26	130.17
07 72 38 13-2165	EA	30" x 42" Tombstone Aluminum Dormer Vents, 6/12 Slope	5,791.37	130.17
07 72 38 13-2166	EA	30" x 42" Tombstone Aluminum Dormer Vents, 5/12 Slope	6,006.48	130.17
07 72 38 13-2167	EA	36" x 48" Tombstone Aluminum Dormer Vents, 16/12 Slope	4,593.30	130.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-2168	EA	36" x 48" Tombstone Aluminum Dormer Vents, 15/12 Slope	4,825.74	141.60
07 72 38 13-2169	EA	36" x 48" Tombstone Aluminum Dormer Vents, 14/12 Slope	5,069.75	141.60
07 72 38 13-2170	EA	36" x 48" Tombstone Aluminum Dormer Vents, 13/12 Slope	5,252.75	141.60
07 72 38 13-2171	EA	36" x 48" Tombstone Aluminum Dormer Vents, 12/12 Slope	5,471.07	141.60
07 72 38 13-2172	EA	36" x 48" Tombstone Aluminum Dormer Vents, 11/12 Slope	5,682.97	141.60
07 72 38 13-2173	EA	36" x 48" Tombstone Aluminum Dormer Vents, 10/12 Slope	5,898.08	141.60
07 72 38 13-2174	EA	36" x 48" Tombstone Aluminum Dormer Vents, 9/12 Slope	6,113.19	141.60
07 72 38 13-2175	EA	36" x 48" Tombstone Aluminum Dormer Vents, 8/12 Slope	6,328.30	141.60
07 72 38 13-2176	EA	36" x 48" Tombstone Aluminum Dormer Vents, 7/12 Slope	6,540.20	141.60
07 72 38 13-2177	EA	36" x 48" Tombstone Aluminum Dormer Vents, 6/12 Slope	6,755.31	141.60
07 72 38 13-2178	EA	36" x 48" Tombstone Aluminum Dormer Vents, 5/12 Slope	6,970.42	141.60

07 72 38 13-2179 Arched Top Aluminum Roof Dormer Vent *(07 72 38 13-1814)*

07 72 38 13-2180	EA	12" x 15" Arched Top Aluminum Dormer Vents, 16/12 Slope	1,386.15	76.51
07 72 38 13-2181	EA	12" x 15" Arched Top Aluminum Dormer Vents, 15/12 Slope	1,583.15	76.51
07 72 38 13-2182	EA	12" x 15" Arched Top Aluminum Dormer Vents, 14/12 Slope	1,780.15	76.51
07 72 38 13-2183	EA	12" x 15" Arched Top Aluminum Dormer Vents, 13/12 Slope	1,977.16	76.51
07 72 38 13-2184	EA	12" x 15" Arched Top Aluminum Dormer Vents, 12/12 Slope	2,174.16	76.51
07 72 38 13-2185	EA	12" x 15" Arched Top Aluminum Dormer Vents, 11/12 Slope	2,371.16	76.51
07 72 38 13-2186	EA	12" x 15" Arched Top Aluminum Dormer Vents, 10/12 Slope	2,568.16	76.51
07 72 38 13-2187	EA	12" x 15" Arched Top Aluminum Dormer Vents, 9/12 Slope	2,765.17	76.51
07 72 38 13-2188	EA	12" x 15" Arched Top Aluminum Dormer Vents, 8/12 Slope	2,962.17	76.51
07 72 38 13-2189	EA	12" x 15" Arched Top Aluminum Dormer Vents, 7/12 Slope	3,159.17	76.51
07 72 38 13-2190	EA	12" x 15" Arched Top Aluminum Dormer Vents, 6/12 Slope	3,356.17	76.51
07 72 38 13-2191	EA	12" x 15" Arched Top Aluminum Dormer Vents, 5/12 Slope	3,553.18	76.51
07 72 38 13-2192	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 16/12 Slope	1,620.09	91.47
07 72 38 13-2193	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 15/12 Slope	1,817.09	91.47
07 72 38 13-2194	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 14/12 Slope	2,014.09	91.47
07 72 38 13-2195	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 13/12 Slope	2,211.10	91.47
07 72 38 13-2196	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 12/12 Slope	2,408.10	91.47
07 72 38 13-2197	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 11/12 Slope	2,605.10	91.47
07 72 38 13-2198	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 10/12 Slope	2,802.10	91.47
07 72 38 13-2199	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 9/12 Slope	2,999.11	91.47
07 72 38 13-2200	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 8/12 Slope	3,196.11	91.47
07 72 38 13-2201	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 7/12 Slope	3,393.11	91.47
07 72 38 13-2202	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 6/12 Slope	3,590.11	91.47
07 72 38 13-2203	EA	15" x 18.75" Arched Top Aluminum Dormer Vents, 5/12 Slope	3,787.12	91.47
07 72 38 13-2204	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 16/12 Slope	1,895.68	102.90
07 72 38 13-2205	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 15/12 Slope	2,092.68	102.90
07 72 38 13-2206	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 14/12 Slope	2,289.68	102.90
07 72 38 13-2207	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 13/12 Slope	2,486.69	102.90
07 72 38 13-2208	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 12/12 Slope	2,683.69	102.90
07 72 38 13-2209	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 11/12 Slope	2,880.69	102.90
07 72 38 13-2210	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 10/12 Slope	3,077.69	102.90
07 72 38 13-2211	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 9/12 Slope	1,898.81	102.61
07 72 38 13-2212	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 8/12 Slope	2,008.90	102.61
07 72 38 13-2213	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 7/12 Slope	2,118.99	102.61
07 72 38 13-2214	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 6/12 Slope	2,229.08	102.61
07 72 38 13-2215	EA	18" x 22.5" Arched Top Aluminum Dormer Vents, 5/12 Slope	2,339.17	102.61
07 72 38 13-2216	EA	24" x 30" Arched Top Aluminum Dormer Vents, 16/12 Slope	1,516.83	117.27
07 72 38 13-2217	EA	24" x 30" Arched Top Aluminum Dormer Vents, 15/12 Slope	1,626.93	117.27
07 72 38 13-2218	EA	24" x 30" Arched Top Aluminum Dormer Vents, 14/12 Slope	1,737.02	117.27
07 72 38 13-2219	EA	24" x 30" Arched Top Aluminum Dormer Vents, 13/12 Slope	1,847.11	117.27
07 72 38 13-2220	EA	24" x 30" Arched Top Aluminum Dormer Vents, 12/12 Slope	1,957.20	117.27
07 72 38 13-2221	EA	24" x 30" Arched Top Aluminum Dormer Vents, 11/12 Slope	2,067.29	117.27
07 72 38 13-2222	EA	24" x 30" Arched Top Aluminum Dormer Vents, 10/12 Slope	2,177.39	117.27
07 72 38 13-2223	EA	24" x 30" Arched Top Aluminum Dormer Vents, 9/12 Slope	2,287.48	117.27
07 72 38 13-2224	EA	24" x 30" Arched Top Aluminum Dormer Vents, 8/12 Slope	2,397.57	117.27
07 72 38 13-2225	EA	24" x 30" Arched Top Aluminum Dormer Vents, 7/12 Slope	2,507.66	117.27
07 72 38 13-2226	EA	24" x 30" Arched Top Aluminum Dormer Vents, 6/12 Slope	2,617.75	117.27
07 72 38 13-2227	EA	24" x 30" Arched Top Aluminum Dormer Vents, 5/12 Slope	2,727.85	117.27
07 72 38 13-2228	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 16/12 Slope	2,009.15	130.60
07 72 38 13-2229	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 15/12 Slope	2,119.24	130.60
07 72 38 13-2230	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 14/12 Slope	2,229.33	130.60
07 72 38 13-2231	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 13/12 Slope	2,339.42	130.60
07 72 38 13-2232	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 12/12 Slope	2,449.52	130.60
07 72 38 13-2233	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 11/12 Slope	2,559.61	130.60
07 72 38 13-2234	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 10/12 Slope	2,669.70	130.60
07 72 38 13-2235	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 9/12 Slope	2,779.79	130.60
07 72 38 13-2236	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 8/12 Slope	2,889.88	130.60
07 72 38 13-2237	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 7/12 Slope	2,999.98	130.60
07 72 38 13-2238	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 6/12 Slope	3,110.07	130.60
07 72 38 13-2239	EA	30" x 37.5" Arched Top Aluminum Dormer Vents, 5/12 Slope	3,220.16	130.60
07 72 38 13-2240	EA	36" x 45" Arched Top Aluminum Dormer Vents, 16/12 Slope	2,586.43	130.60
07 72 38 13-2241	EA	36" x 45" Arched Top Aluminum Dormer Vents, 15/12 Slope	2,713.85	141.26
07 72 38 13-2242	EA	36" x 45" Arched Top Aluminum Dormer Vents, 14/12 Slope	2,823.94	141.26
07 72 38 13-2243	EA	36" x 45" Arched Top Aluminum Dormer Vents, 13/12 Slope	2,934.04	141.26
07 72 38 13-2244	EA	36" x 45" Arched Top Aluminum Dormer Vents, 12/12 Slope	3,044.13	141.26
07 72 38 13-2245	EA	36" x 45" Arched Top Aluminum Dormer Vents, 11/12 Slope	3,154.22	141.26
07 72 38 13-2246	EA	36" x 45" Arched Top Aluminum Dormer Vents, 10/12 Slope	3,264.31	141.26

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-2247	EA	36" x 45" Arched Top Aluminum Dormer Vents, 9/12 Slope	3,374.41	141.26
07 72 38 13-2248	EA	36" x 45" Arched Top Aluminum Dormer Vents, 8/12 Slope	3,484.50	141.26
07 72 38 13-2249	EA	36" x 45" Arched Top Aluminum Dormer Vents, 7/12 Slope	3,594.59	141.26
07 72 38 13-2250	EA	36" x 45" Arched Top Aluminum Dormer Vents, 6/12 Slope	3,704.68	141.26
07 72 38 13-2251	EA	36" x 45" Arched Top Aluminum Dormer Vents, 5/12 Slope	3,814.77	141.26
07 72 38 13-2252		**Hipped Roof Aluminum Roof Dormer Vent** *(07 72 38 13-1814)*		
07 72 38 13-2253	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 16/12 Slope	641.52	76.51
07 72 38 13-2254	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 15/12 Slope	735.30	76.51
07 72 38 13-2255	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 14/12 Slope	829.08	76.51
07 72 38 13-2256	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 13/12 Slope	922.86	76.51
07 72 38 13-2257	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 12/12 Slope	1,016.65	76.51
07 72 38 13-2258	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 11/12 Slope	1,110.43	76.51
07 72 38 13-2259	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 10/12 Slope	1,204.21	76.51
07 72 38 13-2260	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 9/12 Slope	1,297.99	76.51
07 72 38 13-2261	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 8/12 Slope	1,391.78	76.51
07 72 38 13-2262	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 7/12 Slope	1,485.56	76.51
07 72 38 13-2263	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 6/12 Slope	1,579.34	76.51
07 72 38 13-2264	EA	12" x 18" Hipped Roof Aluminum Dormer Vents, 5/12 Slope	1,673.13	76.51
07 72 38 13-2265	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 16/12 Slope	767.19	91.47
07 72 38 13-2266	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 15/12 Slope	860.97	91.47
07 72 38 13-2267	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 14/12 Slope	954.75	91.47
07 72 38 13-2268	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 13/12 Slope	1,048.54	91.47
07 72 38 13-2269	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 12/12 Slope	1,142.32	91.47
07 72 38 13-2270	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 11/12 Slope	1,236.10	91.47
07 72 38 13-2271	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 10/12 Slope	1,329.89	91.47
07 72 38 13-2272	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 9/12 Slope	1,423.67	91.47
07 72 38 13-2273	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 8/12 Slope	1,517.45	91.47
07 72 38 13-2274	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 7/12 Slope	1,611.23	91.47
07 72 38 13-2275	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 6/12 Slope	1,705.02	91.47
07 72 38 13-2276	EA	15" x 21" Hipped Roof Aluminum Dormer Vents, 5/12 Slope	1,798.80	91.47
07 72 38 13-2277	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 16/12 Slope	962.47	102.90
07 72 38 13-2278	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 15/12 Slope	1,056.25	102.90
07 72 38 13-2279	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 14/12 Slope	1,150.03	102.90
07 72 38 13-2280	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 13/12 Slope	1,243.82	102.90
07 72 38 13-2281	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 12/12 Slope	1,337.60	102.90
07 72 38 13-2282	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 11/12 Slope	1,431.38	102.90
07 72 38 13-2283	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 10/12 Slope	1,525.16	102.90
07 72 38 13-2284	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 9/12 Slope	1,618.95	102.90
07 72 38 13-2285	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 8/12 Slope	1,712.73	102.90
07 72 38 13-2286	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 7/12 Slope	1,806.51	102.90
07 72 38 13-2287	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 6/12 Slope	1,900.30	102.90
07 72 38 13-2288	EA	18" x 27" Hipped Roof Aluminum Dormer Vents, 5/12 Slope	1,994.08	102.90
07 72 38 13-2289	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 16/12 Slope	1,377.14	116.98
07 72 38 13-2290	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 15/12 Slope	1,470.92	116.98
07 72 38 13-2291	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 14/12 Slope	1,564.70	116.98
07 72 38 13-2292	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 13/12 Slope	1,658.49	116.98
07 72 38 13-2293	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 12/12 Slope	1,752.27	116.98
07 72 38 13-2294	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 11/12 Slope	1,846.05	116.98
07 72 38 13-2295	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 10/12 Slope	1,939.83	116.98
07 72 38 13-2296	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 9/12 Slope	2,033.62	116.98
07 72 38 13-2297	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 8/12 Slope	2,127.40	116.98
07 72 38 13-2298	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 7/12 Slope	2,221.18	116.98
07 72 38 13-2299	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 6/12 Slope	2,314.97	116.98
07 72 38 13-2300	EA	24" x 36" Hipped Roof Aluminum Dormer Vents, 5/12 Slope	2,408.75	116.98
07 72 38 13-2301	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 16/12 Slope	1,809.22	130.17
07 72 38 13-2302	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 15/12 Slope	1,903.00	130.17
07 72 38 13-2303	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 14/12 Slope	1,996.78	130.17
07 72 38 13-2304	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 13/12 Slope	2,090.57	130.17
07 72 38 13-2305	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 12/12 Slope	2,184.35	130.17
07 72 38 13-2306	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 11/12 Slope	2,278.13	130.17
07 72 38 13-2307	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 10/12 Slope	2,371.92	130.17
07 72 38 13-2308	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 9/12 Slope	2,465.70	130.17
07 72 38 13-2309	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 8/12 Slope	2,559.48	130.17
07 72 38 13-2310	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 7/12 Slope	2,653.26	130.17
07 72 38 13-2311	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 6/12 Slope	2,747.05	130.17
07 72 38 13-2312	EA	30" x 42" Hipped Roof Aluminum Dormer Vents, 5/12 Slope	2,840.83	130.17
07 72 38 13-2313	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 16/12 Slope	2,296.24	130.17
07 72 38 13-2314	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 15/12 Slope	2,407.35	141.60
07 72 38 13-2315	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 14/12 Slope	2,501.13	141.60
07 72 38 13-2316	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 13/12 Slope	2,594.92	141.60
07 72 38 13-2317	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 12/12 Slope	2,688.70	141.60
07 72 38 13-2318	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 11/12 Slope	2,782.48	141.60
07 72 38 13-2319	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 10/12 Slope	2,876.26	141.60
07 72 38 13-2320	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 9/12 Slope	2,970.05	141.60
07 72 38 13-2321	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 8/12 Slope	3,063.83	141.60
07 72 38 13-2322	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 7/12 Slope	3,157.61	141.60
07 72 38 13-2323	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 6/12 Slope	3,251.39	141.60
07 72 38 13-2324	EA	36" x 48" Hipped Roof Aluminum Dormer Vents, 5/12 Slope	3,345.18	141.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 38 13-2325		**Galvanized Steel Fire And Ember Dormer Vent** *(07 72 38 13)*		
07 72 38 13-2326	EA	14" x 9" Galvanized Steel, Fire And Ember Eyebrow Low Profile Dormer Vents Note: Includes fire caulking	317.09	117.27
07 72 46		**Roof Walkways** *(07 72)*		
07 72 46 00-0001		**Recycled Rubber Walkway Pads** *(07 72 46)*		
07 72 46 00-0002	SF	3/8" Thick, Button Surface, Recycled Rubber Walkway Pad	13.77	3.34
		For Diamond Surface, Add	*1.20*	
07 72 46 00-0003	SF	1/2" Thick, Button Surface, Recycled Rubber Walkway Pad	15.33	4.01
		For Diamond Surface, Add	*1.39*	
07 72 46 00-0004	SF	3/4" Thick, Button Surface, Recycled Rubber Walkway Pad	16.92	4.01
		For Diamond Surface, Add	*1.55*	
07 72 53		**Snow Guards** *(07 72)*		
07 72 53 00-0001		**Snow Guards For Shingle And Tile Roofs** *(07 72 53)*		
07 72 53 00-0002	EA	6-5/8" Length, 1-1/2" Width, Copper Snow Guards For Shingle And Tile Roofs	26.64	3.44
07 72 53 00-0003	EA	6-5/8" Length, 1-1/2" Width, Lead Coated Copper Snow Guards For Shingle And Tile Roofs	29.12	3.44
07 72 53 00-0004	EA	6-5/8" Length, 1-1/2" Width, Stainless Steel Snow Guards For Shingle And Tile Roofs	27.48	3.44
07 72 53 00-0005	EA	6-5/8" Length, 1-1/2" Width, Aluminum Snow Guards For Shingle And Tile Roofs	16.01	3.44
07 72 53 00-0006		**Snow Breaker For Roofs** *(07 72 53)*		
07 72 53 00-0007	EA	Up To 50 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	18.43	5.55
07 72 53 00-0008	EA	>50 To 150 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	17.24	5.55
07 72 53 00-0009	EA	>150 To 500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	16.65	5.55
07 72 53 00-0010	EA	>500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	15.94	5.55
07 72 53 00-0011		**Ice Breaker For Vents** *(07 72 53)*		
07 72 53 00-0012	EA	Ice Breaker For Vents Up to 4", Mechanically Fastened	154.63	
07 72 53 00-0013	EA	Ice Breaker For Vents And Stacks >4" To 14" Diameter, Mechanically Fastened	177.65	
07 72 53 00-0014		**Pipe Style, Snow Guards For Metal Roofs** *(07 72 53)*		
07 72 53 00-0015		**Pipe Style, Standing Seam Metal Roof Snow Guard Clamps** *(07 72 53 00-0014)* Note: Aluminum construction. Includes clamp for attaching to standing seam. Excludes tubing.		
07 72 53 00-0016	EA	Single Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000)	71.18	16.66
07 72 53 00-0017	EA	Single Tube, "T2 or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000)	85.77	16.66
07 72 53 00-0018	EA	Double Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000)	97.42	16.66
07 72 53 00-0019	EA	Double Tube, "T2K or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000)	122.47	16.66
07 72 53 00-0020	EA	Triple Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 6000)	125.36	19.99
07 72 53 00-0021		**Tubing For Snow Guard Clamps** *(07 72 53 00-0014)*		
07 72 53 00-0022	LF	1" Outside Diameter Aluminum Tubing For Snow Guard Clamps (Alpine SnowGuards®) Note: Includes end caps, collars and couplings.	14.55	3.99
07 72 53 00-0023	LF	1" Outside Diameter Brass Or Stainless Steel Tubing For Snow Guard Clamps (Alpine SnowGuards®) Note: Includes end caps, collars and couplings.	30.03	3.99
07 72 53 00-0024		**Snow Guards For Metal Roofs** *(07 72 53)* Note: Aluminum construction.		
07 72 53 00-0025	EA	Mill Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	28.21	4.76
07 72 53 00-0026	EA	Black Primer Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	31.51	4.76
07 72 53 00-0027	EA	Bronze Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	47.09	4.76
07 72 53 00-0028	EA	Painted Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	46.39	4.76
07 72 53 00-0029	EA	Mill Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	43.30	5.55
07 72 53 00-0030	EA	Black Primer Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	47.45	5.55
07 72 53 00-0031	EA	Painted Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	59.63	5.55
07 72 53 00-0032	EA	Mill Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	24.65	4.17
		For Mechanically Fastened, Add	*8.33*	
07 72 53 00-0033	EA	Black Primer Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	28.07	4.17
		For Mechanically Fastened, Add	*8.33*	
07 72 53 00-0034	EA	Painted Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	39.70	4.17
		For Mechanically Fastened, Add	*8.33*	
07 72 53 00-0035	EA	Polycarbonate, Adhesive Surface Mount, Metal Roof Snow Guard (Zaleski #15) Note: Can be used for metal, rubber, PVC, TPO or glass roofing.	14.12	4.17
		For Mechanically Fastened, Add	*11.10*	
07 72 56		**Snow/Ice Melt Cable** *(07 72)*		

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 56 00-0001		Self Regulating Heating Cable For Roofs And Gutters *(07 72 56)*		
07 72 56 00-0002	LF	12 Watt, 120 Volt, Self Regulating Low Temperature Cable For Roofs And Gutters Note: Nickel-coated copper braided cable with weatherproof jacket.	17.77	1.13
07 72 56 00-0003	LF	12 Watt, 208/277 Volt Self Regulating Low Temperature Cable For Roofs And Gutters Note: Nickel-coated copper braided cable with weatherproof jacket.	19.13	1.13
07 72 56 00-0004	EA	Power Connection, End Seal And Warning Labels Kit For Self Regulating Heating Cable For Roofs And Gutters	247.62	84.75
07 72 56 00-0005	EA	Splice Kit For Self Regulating Heating Cable For Roofs And Gutters	190.02	62.15
07 72 56 00-0006	EA	Edge Of Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters	9.14	3.39
		For >5, Deduct	*-0.68*	
07 72 56 00-0007	EA	Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters	8.60	3.39
		For >5, Deduct	*-0.62*	
07 72 56 00-0008	EA	Downspout Hanger Kit For Self Regulating Heating Cable For Roofs And Gutters	66.92	8.48
07 72 56 00-0009	EA	120 Volt AC, Snow Switch, Automatic Control For Melting Snow	1,115.16	67.80
07 72 56 00-0010	EA	Automatic Gutter Ice Melting Control	1,533.44	84.75
07 72 63		**Waste Containment Assemblies** *(07 72)*		
07 72 63 00-0001		Rooftop Oil And Grease Containment System *(07 72 63)*		
07 72 63 00-0002		Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD-E) *(07 72 63 00-0001)*		
07 72 63 00-0003	EA	48" Length, 48" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100-E)	3,366.66	276.69
07 72 63 00-0004	EA	60" Length, 60" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101-E)	3,755.07	276.69
07 72 63 00-0005	EA	60" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106-E)	4,594.44	287.76
07 72 63 00-0006	EA	72" Length, 72" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102-E)	4,572.24	287.76
07 72 63 00-0007	EA	72" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103-E)	5,956.84	311.28
07 72 63 00-0008	EA	72" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111-E)	4,663.61	311.28
07 72 63 00-0009	EA	90" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105-E)	5,202.87	368.82
07 72 63 00-0010	EA	108" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112-E)	7,644.18	461.10
07 72 63 00-0011	EA	120" Length, 120" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107-E)	9,464.68	461.10
07 72 63 00-0012	EA	144" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113-E)	11,962.31	461.10
07 72 63 00-0013		Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD) *(07 72 63 00-0001)*		
07 72 63 00-0014	EA	48" Length, 48" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100)	4,126.94	276.69
07 72 63 00-0015	EA	60" Length, 60" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101)	4,632.03	276.69
07 72 63 00-0016	EA	60" Length, 90" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106)	5,710.06	287.76
07 72 63 00-0017	EA	72" Length, 72" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102)	5,809.99	287.76
07 72 63 00-0018	EA	72" Length, 108" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103)	8,271.32	311.28
07 72 63 00-0019	EA	72" Length, 144" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111)	9,065.02	311.28
07 72 63 00-0020	EA	90" Length, 90" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105)	8,444.25	368.82
07 72 63 00-0021	EA	108" Length, 108" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112)	9,520.18	461.10
07 72 63 00-0022	EA	120" Length, 120" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107)	11,890.16	461.10
07 72 63 00-0023	EA	144" Length, 144" Width, 3.5" Height, Heavy-Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113)	15,137.08	461.10
07 72 63 00-0024		Replacement Filter Sets For Rooftop Oil And Grease Containment System *(07 72 63)* Note: Includes removing old filters and installing new filters.		
07 72 63 00-0025		Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System *(07 72 63 00-0024)*		
07 72 63 00-0026		Light Duty, Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System *(07 72 63 00-0025)*		
07 72 63 00-0027	SET	48" Length, 48" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-E)	275.98	
07 72 63 00-0028	SET	60" Length, 60" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-E)	387.00	
07 72 63 00-0029	SET	60" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-E)	553.49	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0030	SET	72" Length, 72" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-E)	511.82	
07 72 63 00-0031	SET	72" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-E)	955.85	
07 72 63 00-0032	SET	72" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-E)	966.94	
07 72 63 00-0033	SET	90" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-E)	747.68	
07 72 63 00-0034	SET	108" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-E)	969.69	
07 72 63 00-0035	SET	120" Length, 120" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-E)	1,419.27	
07 72 63 00-0036	SET	144" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-E)	1,868.84	

07 72 63 00-0037 Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System *(07 72 63 00-0024)*

07 72 63 00-0038 Light Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System *(07 72 63 00-0037)*

07 72 63 00-0039	SET	48" Length, 48" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-EC)	574.24	
07 72 63 00-0040	SET	60" Length, 60" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-EC)	762.96	
07 72 63 00-0041	SET	60" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-EC)	1,107.09	
07 72 63 00-0042	SET	72" Length, 72" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-EC)	1,032.11	
07 72 63 00-0043	SET	72" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-EC)	1,981.21	
07 72 63 00-0044	SET	72" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-EC)	1,992.30	
07 72 63 00-0045	SET	90" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-EC)	1,478.86	
07 72 63 00-0046	SET	108" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-EC)	1,995.04	
07 72 63 00-0047	SET	120" Length, 120" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-EC)	2,921.94	
07 72 63 00-0048	SET	144" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-EC)	3,887.70	

07 72 63 00-0049 Heavy-Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System *(07 72 63 00-0037)*

07 72 63 00-0050	SET	48" Length, 48" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-C)	713.01	
07 72 63 00-0051	SET	60" Length, 60" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-C)	885.07	
07 72 63 00-0052	SET	60" Length, 90" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-C)	1,295.78	
07 72 63 00-0053	SET	72" Length, 72" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-C)	1,226.38	
07 72 63 00-0054	SET	72" Length, 108" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-C)	2,386.38	
07 72 63 00-0055	SET	72" Length, 144" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-C)	2,375.29	
07 72 63 00-0056	SET	90" Length, 90" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-C)	1,734.19	
07 72 63 00-0057	SET	108" Length, 108" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-C)	2,400.21	
07 72 63 00-0058	SET	120" Length, 120" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-C)	3,365.97	
07 72 63 00-0059	SET	144" Length, 144" Width, 3.5" Height, Heavy-Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-C)	4,681.40	

07 73 Roof Protection Board *(07 70)*

07 73 00 00-0001 Roof Protection Board *(07 73)*

Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements.

07 73 00 00-0002 Cold Adhesive Applied, Roof Protection Board (Georgia-Pacific DensDeck®) *(07 73 00 00-0001)*

07 73 00 00-0003	SF	1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®)	4.54	0.70
		For No Adhesive, Deduct	*-1.00*	
07 73 00 00-0004	SF	1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®)	5.13	0.76
		For No Adhesive, Deduct	*-1.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 73 00 00-0005	SF	5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®)	5.43	0.83
		For No Adhesive, Deduct	*-1.05*	
07 73 00 00-0006	SF	1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)	4.61	0.70
		For No Adhesive, Deduct	*-1.00*	
07 73 00 00-0007	SF	1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)	5.23	0.76
		For No Adhesive, Deduct	*-1.03*	
07 73 00 00-0008	SF	5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)	5.52	0.83
		For No Adhesive, Deduct	*-1.05*	

07 73 00 00-0009 Hot-Mopped, Roof Protection Board (Georgia-Pacific DensDeck®) *(07 73 00 00-0001)*

07 73 00 00-0010	SF	1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®)	4.42	0.70
07 73 00 00-0011	SF	1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®)	5.04	0.76
07 73 00 00-0012	SF	5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®)	5.35	0.83
07 73 00 00-0013	SF	1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime)	4.48	0.70
07 73 00 00-0014	SF	1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime)	5.13	0.76
07 73 00 00-0015	SF	5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime)	5.44	0.83

07 73 00 00-0016 Mechanically Fastened, Roof Protection Board (Georgia-Pacific DensDeck®) *(07 73 00 00-0001)*

Note: Mechanically fastened to wood or steel.

07 73 00 00-0017	SF	1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®)	4.37	0.70
		For Mechanically Fastened To Concrete, Add	*1.84*	
		For Mechanically Fastened To Gypsum, Add	*2.40*	
		For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	*0.83*	
		For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	*3.30*	
		For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	*2.96*	
		For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	*1.25*	
		For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	*4.50*	
		For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	*4.46*	
07 73 00 00-0018	SF	1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®)	4.96	0.76
		For Mechanically Fastened To Concrete, Add	*1.84*	
		For Mechanically Fastened To Gypsum, Add	*2.40*	
		For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	*0.83*	
		For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	*3.40*	
		For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	*2.96*	
		For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	*1.25*	
		For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	*4.60*	
		For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	*4.46*	
07 73 00 00-0019	SF	5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®)	5.25	0.83
		For Mechanically Fastened To Concrete, Add	*1.84*	
		For Mechanically Fastened To Gypsum, Add	*2.40*	
		For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	*0.83*	
		For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	*3.48*	
		For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	*2.96*	
		For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	*1.25*	
		For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	*4.68*	
		For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	*4.46*	
07 73 00 00-0020	SF	1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime)	4.43	0.70
		For Mechanically Fastened To Concrete, Add	*1.84*	
		For Mechanically Fastened To Gypsum, Add	*2.40*	
		For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	*0.83*	
		For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	*3.30*	
		For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	*2.96*	
		For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	*1.25*	
		For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	*4.50*	
		For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	*4.46*	
07 73 00 00-0021	SF	1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime)	5.05	0.76
		For Mechanically Fastened To Concrete, Add	*1.84*	
		For Mechanically Fastened To Gypsum, Add	*2.40*	
		For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	*0.83*	
		For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	*3.40*	
		For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	*2.96*	
		For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	*1.25*	
		For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	*4.60*	
		For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	*4.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 73 00 00-0022	SF	5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime)	5.34	0.83
		For Mechanically Fastened To Concrete, Add	*1.84*	
		For Mechanically Fastened To Gypsum, Add	*2.40*	
		For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	*0.83*	
		For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	*3.48*	
		For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	*2.96*	
		For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	*1.25*	
		For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	*4.68*	
		For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	*4.46*	

07 76 Roof Pavers *(07 70)*

07 76 16 Roof Decking Pavers *(07 76)*

07 76 16 00-0001 Roof Pavers *(07 76 16)*

Note: For walkway application over roofing system.

07 76 16 00-0002	SF	Up To 100 SF, 2" Concrete Roof Paver	13.94	8.69
		For 1-1/2" Thickness, Deduct	*-1.39*	
		For 2-1/2" Thickness, Add	*1.52*	
		For 3" Thickness, Add	*3.05*	
07 76 16 00-0003	SF	>100 To 200 SF, 2" Concrete Roof Paver	12.47	6.55
		For 1-1/2" Thickness, Deduct	*-1.25*	
		For 2-1/2" Thickness, Add	*1.37*	
		For 3" Thickness, Add	*2.74*	
07 76 16 00-0004	SF	>200 To 400 SF, 2" Concrete Roof Paver	11.66	5.21
		For 1-1/2" Thickness, Deduct	*-1.17*	
		For 2-1/2" Thickness, Add	*1.28*	
		For 3" Thickness, Add	*2.56*	
07 76 16 00-0005	SF	>400 To 1,000 SF, 2" Concrete Roof Paver	11.19	4.54
		For 1-1/2" Thickness, Deduct	*-1.12*	
		For 2-1/2" Thickness, Add	*1.23*	
		For 3" Thickness, Add	*2.46*	
07 76 16 00-0006	SF	>1,000 SF, 2" Concrete Roof Paver	10.59	4.14
		For 1-1/2" Thickness, Deduct	*-1.06*	
		For 2-1/2" Thickness, Add	*1.16*	
		For 3" Thickness, Add	*2.32*	

07 76 16 00-0007 Roof Paver Pedestal *(07 76 16)*

07 76 16 00-0008	EA	2" To 3" High Adjustable Roof Paver Pedestal, 2" Base, 2" Top (Hanover Elevator)	27.99	1.38
07 76 16 00-0009	EA	3" To 4-3/4" High Adjustable Roof Paver Pedestal, 3" Base, 3" Top (Hanover Elevator)	29.38	1.38
07 76 16 00-0010	EA	4-3/4" To 7-3/4" High Adjustable Roof Paver Pedestal, 4" Base, 4" Top (Hanover Elevator)	30.76	1.38
07 76 16 00-0011	EA	Adjustable Roof Paver Pedestal Coupler, Adds 2-1/2" To 4" (Hanover Elevator)	15.50	1.38
07 76 16 00-0012	EA	Stay Bar, Used With Roof Paver Pedestals >16' High (Hanover Elevator)	14.03	1.38
07 76 16 00-0013	EA	5/8" High Tab Roof Paver Pedestal (Hanover High Tab Pedestal) Note: Stackable.	14.36	1.38
07 76 16 00-0014	EA	1/16" And 1/8" Flexible Leveling Plates For Roof Paver Pedestal Note: Used with High Tab and Elevator pedestals.	8.06	1.38
07 76 16 00-0015	EA	Roof Paver Leveling System, Twist To Adjust Pitch (Hanover Compensator) Note: Each Compensator levels 1/8" of slope and are stackable. Used with High Tab and Elevator pedestals.	10.86	1.38

07 76 19 Composite Insulation Concrete Protection Board *(07 76)*

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0001 Composite Insulation Concrete Protection Board *(07 76 19)*

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0002	SF	2" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 Pounds Per Square Foot (PSF)	6.62	
		For 20 Year Warranty, Deduct	*-0.38*	
		For 15 Year Warranty, Deduct	*-0.77*	
		For 10 Year Warranty, Deduct	*-1.04*	
		For Winds >90 MPH To 120 MPH Warranty, Add	*0.10*	
07 76 19 00-0003	SF	3" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 Pounds Per Square Foot (PSF)	8.61	
		For 20 Year Warranty, Deduct	*-0.54*	
		For 15 Year Warranty, Deduct	*-1.10*	
		For 10 Year Warranty, Deduct	*-1.48*	
		For Winds >90 MPH To 120 MPH Warranty, Add	*0.10*	
07 76 19 00-0004	SF	2" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 Pounds Per Square Foot (PSF)	10.13	
		For 20 Year Warranty, Deduct	*-0.63*	
		For 15 Year Warranty, Deduct	*-1.27*	
		For 10 Year Warranty, Deduct	*-1.72*	
		For Winds >90 MPH To 120 MPH Warranty, Add	*0.10*	
07 76 19 00-0005	SF	3" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 Pounds Per Square Foot (PSF)	12.21	
		For 20 Year Warranty, Deduct	*-0.79*	
		For 15 Year Warranty, Deduct	*-1.60*	
		For 10 Year Warranty, Deduct	*-2.16*	
		For Winds >90 MPH To 120 MPH Warranty, Add	*0.10*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

07 80 Fire and Smoke Protection *(07)*

07 81 Applied Fireproofing *(07 80)*

Note: Includes bonding agents as required.

07 81 16 Cementitious Fireproofing *(07 81)*

07 81 16 00-0001 Monokote Fireproofing *(07 81 16)*

07 81 16 00-0002	SF	Monokote Fireproofing For Ceiling/Decking, Per Inch Of Thickness	2.42	0.85
		For >10,000, Deduct	*-0.16*	
07 81 16 00-0003	SF	Monokote Fireproofing For Structural Steel/Beams, Per Inch Of Thickness	3.38	1.27
		For >10,000, Deduct	*-0.21*	
07 81 16 00-0004	SF	Monokote Fireproofing For Columns, Per Inch Of Thickness	3.84	1.27
		For >10,000, Deduct	*-0.23*	

07 81 16 00-0005 Gunite Fireproofing *(07 81 16)*

07 81 16 00-0006	SF	Non-Reinforced, Gunite Fireproofing, For Ceiling/Decking, Per Inch Of Thickness	3.80	0.80
		For >10,000, Deduct	*-0.32*	
07 81 16 00-0007	SF	Non-Reinforced, Gunite Fireproofing, For Structural Steel/Beams, Per Inch Of Thickness	4.26	0.80
		For >10,000, Deduct	*-0.35*	
07 81 16 00-0008	SF	Non-Reinforced, Gunite Fireproofing, For Columns, Per Inch Of Thickness	4.76	0.80
		For >10,000, Deduct	*-0.37*	
07 81 16 00-0009	SF	Reinforced, Gunite Fireproofing, For Ceiling/Decking, Per Inch Of Thickness	5.45	0.80
		For >10,000, Deduct	*-0.49*	
07 81 16 00-0010	SF	Reinforced, Gunite Fireproofing, For Structural Steel/Beams, Per Inch Of Thickness	5.91	0.80
		For >10,000, Deduct	*-0.51*	
07 81 16 00-0011	SF	Reinforced, Gunite Fireproofing, For Columns, Per Inch Of Thickness	6.41	0.80
		For >10,000, Deduct	*-0.54*	

07 81 23 Intumescent Fireproofing *(07 81)*

07 81 23 00-0001 Intumescent Thin Film Fireproofing (Albi Clad TF) *(07 81 23)*

07 81 23 00-0002 Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) *(07 81 23 00-0001)*

Note: Excludes primer.

07 81 23 00-0003	SF	1 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)	18.33	
		For >10,000, Deduct	*-1.77*	
07 81 23 00-0004	SF	1-1/2 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)	29.56	
		For >10,000, Deduct	*-2.88*	

07 81 23 00-0005 Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) *(07 81 23 00-0001)*

Note: Excludes primer.

07 81 23 00-0006	SF	1 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	11.81	
		For >10,000, Deduct	*-1.11*	
07 81 23 00-0007	SF	1-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	26.44	
		For >10,000, Deduct	*-2.57*	
07 81 23 00-0008	SF	2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	60.15	
		For >10,000, Deduct	*-5.93*	
07 81 23 00-0009	SF	2-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	82.87	
		For >10,000, Deduct	*-8.20*	
07 81 23 00-0010	SF	3 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	105.63	
		For >10,000, Deduct	*-10.47*	
07 81 23 00-0011	SF	3-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	128.40	
		For >10,000, Deduct	*-12.74*	

07 81 23 00-0012 Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) *(07 81 23 00-0001)*

Note: Excludes primer.

07 81 23 00-0013	SF	1 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	24.09	
		For >10,000, Deduct	*-2.34*	
07 81 23 00-0014	SF	1-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	44.94	
		For >10,000, Deduct	*-4.42*	
07 81 23 00-0015	SF	2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	71.48	
		For >10,000, Deduct	*-7.07*	
07 81 23 00-0016	SF	2-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	99.89	
		For >10,000, Deduct	*-9.90*	
07 81 23 00-0017	SF	3 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	126.42	
		For >10,000, Deduct	*-12.55*	

07 81 23 00-0018 Intumescent Thin Film Fireproofing (Albi Clad FP) *(07 81 23)*

07 81 23 00-0019 Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) *(07 81 23 00-0018)*

Note: Excludes primer.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 81 23 00-0020	SF	1 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	11.63	
		For >10,000, Deduct	*-1.12*	
07 81 23 00-0021	SF	1-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	26.68	
		For >10,000, Deduct	*-2.62*	
07 81 23 00-0022	SF	2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	61.35	
		For >10,000, Deduct	*-6.08*	
07 81 23 00-0023	SF	2-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	84.72	
		For >10,000, Deduct	*-8.41*	
07 81 23 00-0024	SF	3 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	108.13	
		For >10,000, Deduct	*-10.75*	

07 81 33 Mineral-Fiber Fireproofing *(07 81)*

07 81 33 00-0001 Cellulose Fireproofing *(07 81 33)*

07 81 33 00-0002	SF	Cellulose Fireproofing, Per Inch Of Thickness	2.79	0.89

07 84 Firestopping *(07 80)*

07 84 13 Penetration Firestopping *(07 84)*

07 84 13 16 Penetration Firestopping Devices *(07 84 13)*

07 84 13 16-0001 Firestopping Systems For Cable Penetrations *(07 84 13 16)*

07 84 13 16-0002 Intumescent Firestop Cable Sleeve For New Installations *(07 84 13 16-0001)*

Note: Includes putty, escutcheon plates, gaskets and bushings.

07 84 13 16-0003	EA	1" Diameter Intumescent Firestop Sleeve (STI FS100)	75.28
07 84 13 16-0004	EA	2" Diameter Intumescent Firestop Sleeve (STI FS201)	99.87
07 84 13 16-0005	EA	4" Diameter Intumescent Firestop Sleeve (STI FS401)	159.69

07 84 13 16-0006 Intumescent Firestop Cable Pathway For New Or Existing Cable Installations *(07 84 13 16-0001)*

Note: Includes pathway, putty and wall/floor mounting plates.

07 84 13 16-0007	EA	1-1/64" x 1-1/64" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZD22)	133.95
07 84 13 16-0008	EA	3" x 3" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZDP33FWS)	232.62
07 84 13 16-0009	EA	4" x 4-5/8" Intumescent Firestop Cable Pathway Through Up To 10" Thick Walls (STI EZDP44)	423.03

07 84 13 16-0010 3M Intumescent Firestopping Multi-Trade Pass Through Device *(07 84 13 16)*

07 84 13 16-0011	EA	2-1/2" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	302.16
07 84 13 16-0012	EA	4" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP4SD)	280.43
07 84 13 16-0013	EA	4" Diameter Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	288.68

07 84 13 16-0014 Intumescent Firestopping Pipe Collar *(07 84 13 16)*

07 84 13 16-0015	EA	1-1/2" Diameter, Intumescent Firestop Pipe Collar (3M ULTRAPPD1.5)	44.89	12.99
07 84 13 16-0016	EA	2" Diameter, Intumescent Firestop Pipe Collar (3M ULTRAPPD2.0)	53.99	12.99
07 84 13 16-0017	EA	3" Diameter, Intumescent Firestop Pipe Collar (3M ULTRAPPD3.0)	62.76	14.30
07 84 13 16-0018	EA	4" Diameter, Intumescent Firestop Pipe Collar (3M ULTRAPPD4.0)	97.94	16.24
07 84 13 16-0019	EA	8" Diameter, Intumescent Firestop Pipe Collar (Hilti CP644 8")	478.19	19.49
07 84 13 16-0020	EA	10" Diameter, Intumescent Firestop Pipe Collar (Hilti CP644 10")	617.61	21.44

07 84 13 16-0021 Fire Rated Enclosures (Fire Rated Product Specialties Corp.) *(07 84 13 16)*

Note: Includes fasteners. Excludes additional perimeter caulk where required. See CSI section 07 84 43 00-0001 for perimeter sealant caulk where required.

07 84 13 16-0022	EA	12.2" Wide x 20.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9) Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.	195.17
07 84 13 16-0023	EA	15.2" Wide x 16.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-15-16-9) Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.	206.32
07 84 13 16-0024	EA	11.8" Wide x 19.8" Long x 9.12" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9-EXH) Note: Includes 4" duct connector. For use with bathroom ventilation and exhaust fans.	398.77
07 84 13 16-0025	EA	14.0" Wide x 14.0" Long x 3.2" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-14-14-3) Note: Used for shut-off valves, shower and tub valves, washer boxes, icemaker water feeds, speakers, controls, junction boxes, etc.	255.37

07 84 13 16-0026 Intumescent Firestopping Wrap Strips *(07 84 13 16)*

07 84 13 16-0027	LF	1/8" Thick, 1-1/2" Wide, Intumescent Firestopping Wrap Strip (STI SpecSeal SSW Series)	7.09

07 84 13 19 Penetration Firestopping Caulk *(07 84 13)*

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0001		Intumescent Firestopping For Sealing Pipe Penetrations (3M CP 25WB+) *(07 84 13 19)* Note: Includes firestop caulk and batt for floor or ceiling penetration or one side of a wall penetration. 1/2" thick caulk for annular spaces 1" and less. 1" thick caulk for annular spaces 1-1/4" or more.			
07 84 13 19-0002	EA	1" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		28.74	
		For Intumescent Sealant For Plastic Pipe, Add		*0.08*	
07 84 13 19-0003	EA	1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		35.30	
		For Intumescent Sealant For Plastic Pipe, Add		*0.41*	
07 84 13 19-0004	EA	1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		35.04	
		For Intumescent Sealant For Plastic Pipe, Add		*0.31*	
07 84 13 19-0005	EA	1-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		34.61	
		For Intumescent Sealant For Plastic Pipe, Add		*0.14*	
07 84 13 19-0006	EA	2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		40.77	
		For Intumescent Sealant For Plastic Pipe, Add		*0.88*	
07 84 13 19-0007	EA	2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		40.50	
		For Intumescent Sealant For Plastic Pipe, Add		*0.78*	
07 84 13 19-0008	EA	2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		40.07	
		For Intumescent Sealant For Plastic Pipe, Add		*0.60*	
07 84 13 19-0009	EA	2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		39.40	
		For Intumescent Sealant For Plastic Pipe, Add		*0.34*	
07 84 13 19-0010	EA	2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		38.82	
		For Intumescent Sealant For Plastic Pipe, Add		*0.10*	
07 84 13 19-0011	EA	2-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		49.40	
		For Intumescent Sealant For Plastic Pipe, Add		*1.48*	
07 84 13 19-0012	EA	2-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		49.14	
		For Intumescent Sealant For Plastic Pipe, Add		*1.38*	
07 84 13 19-0013	EA	2-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		48.70	
		For Intumescent Sealant For Plastic Pipe, Add		*1.20*	
07 84 13 19-0014	EA	2-1/2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		48.03	
		For Intumescent Sealant For Plastic Pipe, Add		*0.94*	
07 84 13 19-0015	EA	2-1/2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		47.46	
		For Intumescent Sealant For Plastic Pipe, Add		*0.71*	
07 84 13 19-0016	EA	2-1/2" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		46.10	
		For Intumescent Sealant For Plastic Pipe, Add		*0.16*	
07 84 13 19-0017	EA	3" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		67.11	
		For Intumescent Sealant For Plastic Pipe, Add		*4.00*	
07 84 13 19-0018	EA	3" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		62.41	
		For Intumescent Sealant For Plastic Pipe, Add		*2.12*	
07 84 13 19-0019	EA	3" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		61.98	
		For Intumescent Sealant For Plastic Pipe, Add		*1.94*	
07 84 13 19-0020	EA	3" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		61.30	
		For Intumescent Sealant For Plastic Pipe, Add		*1.67*	
07 84 13 19-0021	EA	3" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		60.73	
		For Intumescent Sealant For Plastic Pipe, Add		*1.44*	
07 84 13 19-0022	EA	3" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		59.37	
		For Intumescent Sealant For Plastic Pipe, Add		*0.90*	
07 84 13 19-0023	EA	3" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		57.61	
		For Intumescent Sealant For Plastic Pipe, Add		*0.20*	
07 84 13 19-0024	EA	4" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		89.82	
		For Intumescent Sealant For Plastic Pipe, Add		*7.37*	
07 84 13 19-0025	EA	4" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		89.34	
		For Intumescent Sealant For Plastic Pipe, Add		*7.18*	
07 84 13 19-0026	EA	4" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		88.57	
		For Intumescent Sealant For Plastic Pipe, Add		*6.87*	
07 84 13 19-0027	EA	4" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		87.35	
		For Intumescent Sealant For Plastic Pipe, Add		*6.38*	
07 84 13 19-0028	EA	4" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		86.32	
		For Intumescent Sealant For Plastic Pipe, Add		*5.97*	
07 84 13 19-0029	EA	4" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		78.32	
		For Intumescent Sealant For Plastic Pipe, Add		*2.77*	
07 84 13 19-0030	EA	4" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		76.57	
		For Intumescent Sealant For Plastic Pipe, Add		*2.07*	
07 84 13 19-0031	EA	4" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		73.90	
		For Intumescent Sealant For Plastic Pipe, Add		*1.00*	
07 84 13 19-0032	EA	6" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		142.48	
		For Intumescent Sealant For Plastic Pipe, Add		*17.01*	
07 84 13 19-0033	EA	6" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		142.01	
		For Intumescent Sealant For Plastic Pipe, Add		*16.82*	
07 84 13 19-0034	EA	6" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		141.23	
		For Intumescent Sealant For Plastic Pipe, Add		*16.51*	
07 84 13 19-0035	EA	6" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		140.02	
		For Intumescent Sealant For Plastic Pipe, Add		*16.02*	
07 84 13 19-0036	EA	6" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		138.99	
		For Intumescent Sealant For Plastic Pipe, Add		*15.61*	
07 84 13 19-0037	EA	6" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		136.54	
		For Intumescent Sealant For Plastic Pipe, Add		*14.63*	
07 84 13 19-0038	EA	6" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		133.38	
		For Intumescent Sealant For Plastic Pipe, Add		*13.37*	
07 84 13 19-0039	EA	6" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		128.58	
		For Intumescent Sealant For Plastic Pipe, Add		*11.45*	
07 84 13 19-0040	EA	6" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		110.51	
		For Intumescent Sealant For Plastic Pipe, Add		*4.22*	
07 84 13 19-0041	EA	8" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)		188.51	
		For Intumescent Sealant For Plastic Pipe, Add		*26.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0042	EA	8" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	183.71	
		For Intumescent Sealant For Plastic Pipe, Add	*24.94*	
07 84 13 19-0043	EA	8" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	174.07	
		For Intumescent Sealant For Plastic Pipe, Add	*21.08*	
07 84 13 19-0044	EA	8" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	134.78	
		For Intumescent Sealant For Plastic Pipe, Add	*5.37*	
07 84 13 19-0045	EA	10" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	238.89	
		For Intumescent Sealant For Plastic Pipe, Add	*38.44*	
07 84 13 19-0046	EA	10" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	210.31	
		For Intumescent Sealant For Plastic Pipe, Add	*27.01*	
07 84 13 19-0047	EA	10" Diameter Hole With 8" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	159.88	
		For Intumescent Sealant For Plastic Pipe, Add	*6.84*	

07 84 13 19-0048 Smoke, Noise And Infectious/Dust Control Sealant For Sealing Pipe Penetrations *(07 84 13 19)*

Note: Includes sealant and fiberglass or mineral wool batt for floor, ceiling or wall penetrations.

07 84 13 19-0049	EA	1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	34.62
07 84 13 19-0050	EA	1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	34.52
07 84 13 19-0051	EA	1-1/2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	34.39
07 84 13 19-0052	EA	2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	39.30
07 84 13 19-0053	EA	2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	39.20
07 84 13 19-0054	EA	2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	39.06
07 84 13 19-0055	EA	2" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	38.85
07 84 13 19-0056	EA	2" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	38.66
07 84 13 19-0057	EA	2.5" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	46.97
07 84 13 19-0058	EA	2.5" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	46.87
07 84 13 19-0059	EA	2.5" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	46.73
07 84 13 19-0060	EA	2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	46.52
07 84 13 19-0061	EA	2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	46.34
07 84 13 19-0062	EA	2.5" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	45.87
07 84 13 19-0063	EA	3" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	59.01
07 84 13 19-0064	EA	3" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	58.92
07 84 13 19-0065	EA	3" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	58.78
07 84 13 19-0066	EA	3" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	58.57
07 84 13 19-0067	EA	3" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	58.38
07 84 13 19-0068	EA	3" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	57.91
07 84 13 19-0069	EA	3" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	57.26
07 84 13 19-0070	EA	4" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	74.91
07 84 13 19-0071	EA	4" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	74.81
07 84 13 19-0072	EA	4" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	74.67
07 84 13 19-0073	EA	4" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	74.44
07 84 13 19-0074	EA	4" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	74.22
07 84 13 19-0075	EA	4" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	73.76
07 84 13 19-0076	EA	4" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	73.16
07 84 13 19-0077	EA	4" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	72.23
07 84 13 19-0078	EA	6" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	108.07
07 84 13 19-0079	EA	6" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	107.96
07 84 13 19-0080	EA	6" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	107.83
07 84 13 19-0081	EA	6" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	107.62

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0082	EA	6" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	107.44	
07 84 13 19-0083	EA	6" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	106.97	
07 84 13 19-0084	EA	6" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	106.32	
07 84 13 19-0085	EA	6" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	105.45	
07 84 13 19-0086	EA	6" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	103.55	
07 84 13 19-0087	EA	8" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	134.17	
07 84 13 19-0088	EA	8" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	133.29	
07 84 13 19-0089	EA	8" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	131.38	
07 84 13 19-0090	EA	8" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	126.00	
07 84 13 19-0091	EA	10" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	161.12	
07 84 13 19-0092	EA	10" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	155.73	
07 84 13 19-0093	EA	10" Diameter Hole With 8" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)	148.61	

07 84 13 19-0094 Intumescent Firestopping For Sealing Pipe Penetrations (STI SpecSeal SSS Series) *(07 84 13 19)*

Note: Includes sealant and fiberglass or mineral wool batt for floor, ceiling or wall penetrations.

07 84 13 19-0095	EA	1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	35.20	
07 84 13 19-0096	EA	1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	34.91	
07 84 13 19-0097	EA	1-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	34.58	
07 84 13 19-0098	EA	2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	40.46	
07 84 13 19-0099	EA	2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	40.16	
07 84 13 19-0100	EA	2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	39.83	
07 84 13 19-0101	EA	2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	38.85	
07 84 13 19-0102	EA	2.5" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	49.09	
07 84 13 19-0103	EA	2.5" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	48.80	
07 84 13 19-0104	EA	2.5" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	48.47	
07 84 13 19-0105	EA	2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	47.97	
07 84 13 19-0106	EA	2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	47.50	
07 84 13 19-0107	EA	2.5" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	46.26	
07 84 13 19-0108	EA	3" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	62.10	
07 84 13 19-0109	EA	3" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	61.81	
07 84 13 19-0110	EA	3" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	61.48	
07 84 13 19-0111	EA	3" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	60.98	
07 84 13 19-0112	EA	3" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	60.51	
07 84 13 19-0113	EA	3" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	59.26	
07 84 13 19-0114	EA	3" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	57.46	
07 84 13 19-0115	EA	4" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	80.70	
07 84 13 19-0116	EA	4" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	80.41	
07 84 13 19-0117	EA	4" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	80.08	
07 84 13 19-0118	EA	4" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	79.46	
07 84 13 19-0119	EA	4" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	78.86	
07 84 13 19-0120	EA	4" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	77.62	
07 84 13 19-0121	EA	4" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	76.06	
07 84 13 19-0122	EA	4" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	73.59	
07 84 13 19-0123	EA	6" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	121.39	
07 84 13 19-0124	EA	6" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	121.10	
07 84 13 19-0125	EA	6" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	120.77	
07 84 13 19-0126	EA	6" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	120.27	
07 84 13 19-0127	EA	6" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	119.80	
07 84 13 19-0128	EA	6" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	118.56	
07 84 13 19-0129	EA	6" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	116.75	
07 84 13 19-0130	EA	6" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	114.52	
07 84 13 19-0131	EA	6" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	109.34	
07 84 13 19-0132	EA	8" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	155.22	
07 84 13 19-0133	EA	8" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	152.99	
07 84 13 19-0134	EA	8" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	147.80	
07 84 13 19-0135	EA	8" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	133.73	
07 84 13 19-0136	EA	10" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	191.25	
07 84 13 19-0137	EA	10" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	177.17	
07 84 13 19-0138	EA	10" Diameter Hole With 8" Pipe, Sealed With Intumescent Firestop Sealant (STI SpecSeal SSS Series)	158.08	

07 84 16 Annular Space Firestopping Protection *(07 84)*

07 84 16 00-0001 Intumescent Firestopping For Electrical Outlet Boxes *(07 84 16)*

07 84 16 00-0002 Intumescent Putty Pads For Wrapping Outlet Box Exteriors *(07 84 16 00-0001)*

07 84 16 00-0003	EA	1 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)	43.00	
07 84 16 00-0004	EA	2 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)	60.31	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 16 00-0005	EA	3 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)	63.17	
07 84 16 00-0006	EA	4 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)	66.03	
07 84 16 00-0007	EA	5 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)	68.88	
07 84 16 00-0008	EA	6 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)	86.19	

07 84 16 00-0009 Intumescent Firestop Gasket For Wall Plates *(07 84 16 00-0001)*

07 84 16 00-0010	EA	Single Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66276)	17.77	
07 84 16 00-0011	EA	Double Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66274)	18.38	
07 84 16 00-0012	EA	Single Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66272)	17.25	
07 84 16 00-0013	EA	Double Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66270)	18.42	
07 84 16 00-0014	EA	Single Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66266)	17.96	
07 84 16 00-0015	EA	Double Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66265)	17.33	

07 84 16 00-0016 Intumescent Fire Barrier Pillows For Sealing Large Openings *(07 84 16)*

07 84 16 00-0017	EA	1" x 4" x 9" Intumescent Fire Barrier Pillow (STI SSB14)	16.76	
07 84 16 00-0018	EA	2" x 4" x 9" Intumescent Fire Barrier Pillow (3M FB249)	41.49	
07 84 16 00-0019	EA	2" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB269)	44.46	
07 84 16 00-0020	EA	3" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB369)	48.12	

07 84 16 00-0021 Intumescent Fire Barrier Sheets For Sealing Large Openings *(07 84 16)*

Note: Price includes intumescent sheet, mounting fasteners and caulk for sealing one side of an opening.

07 84 16 00-0022	EA	16" x 28" Intumescent Firestop Sheet (3M CS-195+16x28)	384.02	
07 84 16 00-0023	EA	36" x 24" Intumescent Firestop Sheet (3M CS-195+3x2)	535.99	
07 84 16 00-0024	EA	36" x 36" Intumescent Firestop Sheet (3M CS-195+3x3)	720.83	

07 84 16 00-0025 Endothermic Mat Wrap Fire Barrier *(07 84 16)*

Note: Price includes endothermic mat wrap and sealant. Excludes cavity fill material; putty or fireproof caulk/sealant. See CSI section 07 84 16 00-0027 for filling openings.

07 84 16 00-0026	SF	0.408" Thick Aluminum Foil Faced Endothermic Mat (3M Interam E-5A-4)	59.45	

07 84 16 00-0027 Firestopping Caulk For Filling Opening *(07 84 16)*

07 84 16 00-0028	GAL	Latex Based Intumescent Fire Barrier Sealant (3M CP-25WB+)	162.62	

07 84 16 00-0029 Firestopping Mortar For Filling Opening *(07 84 16)*

07 84 16 00-0030	CF	Light-Weight Portland Cement-Based Firestop Mortar (STI SpecSeal SSM Series)	190.28	

07 84 23 Silicone Firestopping Foams *(07 84)*

07 84 23 00-0001 Silicone RTV Foam Seal For Blank Openings *(07 84 23)*

Note: Includes 7" depth of silicone foam barrier and 1" depth backer board

07 84 23 00-0002	EA	2" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam	52.41	
07 84 23 00-0003	EA	4" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam	111.80	
07 84 23 00-0004	EA	6" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam	197.07	
07 84 23 00-0005	EA	8" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam	290.17	
07 84 23 00-0006	EA	10" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam	409.00	
07 84 23 00-0007	EA	12" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam	550.05	
07 84 23 00-0008	EA	16" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam	1,099.21	
07 84 23 00-0009	EA	20" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam	1,631.98	
07 84 23 00-0010	EA	24" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam	2,279.49	

07 84 43 Joint Firestopping *(07 84)*

07 84 43 00-0001 Intumescent Firestopping Sealant For Joints (3M CP 25WB+) *(07 84 43)*

07 84 43 00-0002	CLF	1/4" x 1/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	487.83	128.51
		For Up To 6 CLF, Add	*26.95*	
		For >30 CLF, Deduct	*-29.51*	
07 84 43 00-0003	CLF	1/4" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	539.02	128.51
		For Up To 4 CLF, Add	*30.79*	
		For >20 CLF, Deduct	*-34.63*	
07 84 43 00-0004	CLF	1/4" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	604.45	132.79
		For Up To 3 CLF, Add	*35.34*	
		For >15 CLF, Deduct	*-40.46*	
07 84 43 00-0005	CLF	3/8" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	630.03	132.79
		For Up To 2.5 CLF, Add	*37.26*	
		For >13 CLF, Deduct	*-43.01*	
07 84 43 00-0006	CLF	3/8" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	706.78	132.79
		For Up To 2 CLF, Add	*43.01*	
		For >10 CLF, Deduct	*-50.69*	
07 84 43 00-0007	CLF	3/8" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	783.52	132.79
		For Up To 1.5 CLF, Add	*48.77*	
		For >8 CLF, Deduct	*-58.36*	
07 84 43 00-0008	CLF	3/8" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	874.54	138.50
		For Up To 1.3 CLF, Add	*55.24*	
		For >7 CLF, Deduct	*-66.75*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0009	CLF	1/2" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	823.38	138.50
		For Up To 1.4 CLF, Add	*51.40*	
		For >7.5 CLF, Deduct	*-61.63*	
07 84 43 00-0010	CLF	1/2" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	940.00	142.79
		For Up To 1.15 CLF, Add	*59.79*	
		For >6 CLF, Deduct	*-72.58*	
07 84 43 00-0011	CLF	1/2" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	1,042.32	142.79
		For Up To 1 CLF, Add	*67.46*	
		For >5 CLF, Deduct	*-82.81*	
07 84 43 00-0012	CLF	1/2" x 7/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	1,158.92	147.07
		For Up To 0.8 CLF, Add	*75.85*	
		For >4.5 CLF, Deduct	*-93.76*	
07 84 43 00-0013	CLF	1/2" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	1,275.52	152.78
		For Up To 0.75 CLF, Add	*84.24*	
		For >4 CLF, Deduct	*-104.71*	
07 84 43 00-0014	CLF	3/4" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	1,392.12	157.06
		For Up To 0.65 CLF, Add	*92.63*	
		For >3.5 CLF, Deduct	*-115.65*	
07 84 43 00-0015	CLF	3/4" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	1,741.93	171.35
		For Up To 0.5 CLF, Add	*117.79*	
		For >2.5 CLF, Deduct	*-148.49*	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	*184.19*	
07 84 43 00-0016	CLF	1" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+)	2,208.36	189.91
		For Up To 0.4 CLF, Add	*151.35*	
		For >2 CLF, Deduct	*-192.28*	

07 84 43 00-0017 Latex-Based, Intumescent Firestop Sealant For Joints (STI SSS Series) *(07 84 43)*

07 84 43 00-0018	CLF	1/4" x 1/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	502.08	128.51
		For Up To 6 CLF, Add	*28.02*	
		For >30 CLF, Deduct	*-30.93*	
07 84 43 00-0019	CLF	1/4" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	560.36	128.51
		For Up To 4 CLF, Add	*32.39*	
		For >20 CLF, Deduct	*-36.76*	
07 84 43 00-0020	CLF	1/4" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	632.90	132.79
		For Up To 3 CLF, Add	*37.47*	
		For >15 CLF, Deduct	*-43.30*	
07 84 43 00-0021	CLF	3/8" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	662.04	132.79
		For Up To 2.5 CLF, Add	*39.66*	
		For >13 CLF, Deduct	*-46.21*	
07 84 43 00-0022	CLF	3/8" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	749.46	132.79
		For Up To 2 CLF, Add	*46.21*	
		For >10 CLF, Deduct	*-54.96*	
07 84 43 00-0023	CLF	3/8" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	836.87	132.79
		For Up To 1.5 CLF, Add	*52.77*	
		For >8 CLF, Deduct	*-63.70*	
07 84 43 00-0024	CLF	3/8" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	938.57	138.50
		For Up To 1.3 CLF, Add	*60.04*	
		For >7 CLF, Deduct	*-73.15*	
07 84 43 00-0025	CLF	1/2" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	880.29	138.50
		For Up To 1.4 CLF, Add	*55.67*	
		For >7.5 CLF, Deduct	*-67.33*	
07 84 43 00-0026	CLF	1/2" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,011.13	142.79
		For Up To 1.15 CLF, Add	*65.13*	
		For >6 CLF, Deduct	*-79.69*	
07 84 43 00-0027	CLF	1/2" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,127.68	142.79
		For Up To 1 CLF, Add	*73.87*	
		For >5 CLF, Deduct	*-91.35*	
07 84 43 00-0028	CLF	1/2" x 7/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,258.51	147.07
		For Up To 0.8 CLF, Add	*83.32*	
		For >4.5 CLF, Deduct	*-103.72*	
07 84 43 00-0029	CLF	1/2" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,389.34	152.78
		For Up To 0.75 CLF, Add	*92.78*	
		For >4 CLF, Deduct	*-116.09*	
07 84 43 00-0030	CLF	3/4" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,520.16	157.06
		For Up To 0.65 CLF, Add	*102.23*	
		For >3.5 CLF, Deduct	*-128.46*	
07 84 43 00-0031	CLF	3/4" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,912.66	171.35
		For Up To 0.5 CLF, Add	*130.60*	
		For >2.5 CLF, Deduct	*-165.56*	
07 84 43 00-0032	CLF	1" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	2,435.99	189.91
		For Up To 0.4 CLF, Add	*168.42*	
		For >2 CLF, Deduct	*-215.04*	

07 84 43 00-0033 Passive Smoke And Fire Protection Sealant For Joints (STI ES Series) *(07 84 43)*

07 84 43 00-0034	CLF	1/4" x 1/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	445.82	128.51
		For Up To 6 CLF, Add	*23.80*	
		For >30 CLF, Deduct	*-25.31*	
07 84 43 00-0035	CLF	1/4" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	475.96	128.51
		For Up To 4 CLF, Add	*26.06*	
		For >20 CLF, Deduct	*-28.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0036	CLF	1/4" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	520.37	132.79
		For Up To 3 CLF, Add	*29.03*	
		For >15 CLF, Deduct	*-32.05*	
07 84 43 00-0037	CLF	3/8" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	535.44	132.79
		For Up To 2.5 CLF, Add	*30.16*	
		For >13 CLF, Deduct	*-33.55*	
07 84 43 00-0038	CLF	3/8" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	580.66	132.79
		For Up To 2 CLF, Add	*33.55*	
		For >10 CLF, Deduct	*-38.08*	
07 84 43 00-0039	CLF	3/8" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	625.87	132.79
		For Up To 1.5 CLF, Add	*36.95*	
		For >8 CLF, Deduct	*-42.60*	
07 84 43 00-0040	CLF	3/8" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	685.37	138.50
		For Up To 1.3 CLF, Add	*41.05*	
		For >7 CLF, Deduct	*-47.83*	
07 84 43 00-0041	CLF	1/2" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	655.22	138.50
		For Up To 1.4 CLF, Add	*38.79*	
		For >7.5 CLF, Deduct	*-44.82*	
07 84 43 00-0042	CLF	1/2" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	729.80	142.79
		For Up To 1.15 CLF, Add	*44.03*	
		For >6 CLF, Deduct	*-51.56*	
07 84 43 00-0043	CLF	1/2" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	790.08	142.79
		For Up To 1 CLF, Add	*48.55*	
		For >5 CLF, Deduct	*-57.59*	
07 84 43 00-0044	CLF	1/2" x 7/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	864.64	147.07
		For Up To 0.8 CLF, Add	*53.78*	
		For >4.5 CLF, Deduct	*-64.33*	
07 84 43 00-0045	CLF	1/2" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	939.21	152.78
		For Up To 0.75 CLF, Add	*59.02*	
		For >4 CLF, Deduct	*-71.08*	
07 84 43 00-0046	CLF	3/4" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	1,013.76	157.06
		For Up To 0.65 CLF, Add	*64.25*	
		For >3.5 CLF, Deduct	*-77.82*	
07 84 43 00-0047	CLF	3/4" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	1,237.46	171.35
		For Up To 0.5 CLF, Add	*79.96*	
		For >2.5 CLF, Deduct	*-98.04*	
07 84 43 00-0048	CLF	1" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	1,535.72	189.91
		For Up To 0.4 CLF, Add	*100.90*	
		For >2 CLF, Deduct	*-125.01*	

07 84 43 00-0049 Elastomeric Spray Firestopping For Joints And Penetrations *(07 84 43)*

07 84 43 00-0050	LF	1" Joint Width, 1/8" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	0.93
07 84 43 00-0051	LF	2" Joint Width, 1/8" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	1.85
07 84 43 00-0052	LF	3" Joint Width, 1/8" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	2.66
07 84 43 00-0053	LF	4" Joint Width, 1/8" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	3.59
07 84 43 00-0054	LF	5" Joint Width, 1/8" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	4.46
07 84 43 00-0055	LF	6" Joint Width, 1/8" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	5.45
07 84 43 00-0056	LF	1" Joint Width, 1/4" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	1.87
07 84 43 00-0057	LF	2" Joint Width, 1/4" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	3.69
07 84 43 00-0058	LF	3" Joint Width, 1/4" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	5.32
07 84 43 00-0059	LF	4" Joint Width, 1/4" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	7.20
07 84 43 00-0060	LF	5" Joint Width, 1/4" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	8.92
07 84 43 00-0061	LF	6" Joint Width, 1/4" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	10.89
07 84 43 00-0062	LF	1" Joint Width, 1/2" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	3.75
07 84 43 00-0063	LF	2" Joint Width, 1/2" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	7.39
07 84 43 00-0064	LF	3" Joint Width, 1/2" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	10.64

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0065	LF	4" Joint Width, 1/2" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	14.39	
07 84 43 00-0066	LF	5" Joint Width, 1/2" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	17.83	
07 84 43 00-0067	LF	6" Joint Width, 1/2" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	21.78	
07 84 43 00-0068	LF	1" Joint Width, 1" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	7.49	
07 84 43 00-0069	LF	2" Joint Width, 1" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	14.77	
07 84 43 00-0070	LF	3" Joint Width, 1" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	21.27	
07 84 43 00-0071	LF	4" Joint Width, 1" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	28.80	
07 84 43 00-0072	LF	5" Joint Width, 1" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	35.68	
07 84 43 00-0073	LF	6" Joint Width, 1" Installed Depth, Elastomeric Spray Firestopping For Joints And Penetrations (SpecSeal AS200)	43.57	

07 84 43 00-0074 Intumescent Firestopping Sealant For Joints *(07 84 43)*

07 84 43 00-0075	CLF	1/4" x 1/4" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	476.35	128.51
		For Up To 6 CLF, Add	*26.09*	
		For >30 CLF, Deduct	*-28.36*	
07 84 43 00-0076	CLF	1/4" x 3/8" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	521.76	128.51
		For Up To 4 CLF, Add	*29.49*	
		For >20 CLF, Deduct	*-32.90*	
07 84 43 00-0077	CLF	1/4" x 1/2" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	581.44	132.79
		For Up To 3 CLF, Add	*33.61*	
		For >15 CLF, Deduct	*-38.15*	
07 84 43 00-0078	CLF	3/8" x 3/8" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	604.14	132.79
		For Up To 2.5 CLF, Add	*35.32*	
		For >13 CLF, Deduct	*-40.42*	
07 84 43 00-0079	CLF	3/8" x 1/2" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	672.25	132.79
		For Up To 2 CLF, Add	*40.42*	
		For >10 CLF, Deduct	*-47.24*	
07 84 43 00-0080	CLF	3/8" x 5/8" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	740.37	132.79
		For Up To 1.5 CLF, Add	*45.53*	
		For >8 CLF, Deduct	*-54.05*	
07 84 43 00-0081	CLF	3/8" x 3/4" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	822.76	138.50
		For Up To 1.3 CLF, Add	*51.36*	
		For >7 CLF, Deduct	*-61.57*	
07 84 43 00-0082	CLF	1/2" x 1/2" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	777.35	138.50
		For Up To 1.4 CLF, Add	*47.95*	
		For >7.5 CLF, Deduct	*-57.03*	
07 84 43 00-0083	CLF	1/2" x 5/8" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	882.46	142.79
		For Up To 1.15 CLF, Add	*55.48*	
		For >6 CLF, Deduct	*-66.83*	
07 84 43 00-0084	CLF	1/2" x 3/4" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	973.28	142.79
		For Up To 1 CLF, Add	*62.29*	
		For >5 CLF, Deduct	*-75.91*	
07 84 43 00-0085	CLF	1/2" x 7/8" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	1,078.36	147.07
		For Up To 0.8 CLF, Add	*69.81*	
		For >4.5 CLF, Deduct	*-85.70*	
07 84 43 00-0086	CLF	1/2" x 1" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	1,183.46	152.78
		For Up To 0.75 CLF, Add	*77.34*	
		For >4 CLF, Deduct	*-95.50*	
07 84 43 00-0087	CLF	3/4" x 3/4" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	1,288.55	157.06
		For Up To 0.65 CLF, Add	*84.86*	
		For >3.5 CLF, Deduct	*-105.30*	
07 84 43 00-0088	CLF	3/4" x 1" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	1,603.84	171.35
		For Up To 0.5 CLF, Add	*107.44*	
		For >2.5 CLF, Deduct	*-134.68*	
07 84 43 00-0089	CLF	1" x 1" Joint, Intumescent Firestop Sealant (STI SpecSeal SSS Series)	2,024.23	189.91
		For Up To 0.4 CLF, Add	*137.54*	
		For >2 CLF, Deduct	*-173.87*	

07 84 56 Fire Safing *(07 84)*

07 84 56 13 Fibrous Fire Safing *(07 84 56)*

07 84 56 13-0001 Thermal Barrier Wrap *(07 84 56 13)*

		Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
07 84 56 13-0002	SF	1/2" Thick Fire Barrier Plenum Wrap (3M Plenum Wrap 5A)	12.15	
		For Work In Restricted Working Space, Add	*1.71*	
07 84 56 13-0003	SF	1-1/2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 15A)	19.12	
		Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
		For Work In Restricted Working Space, Add	*1.71*	
07 84 56 13-0004	SF	2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 20A)	20.79	
		Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
		For Work In Restricted Working Space, Add	*1.71*	

07 84 56 13-0005 FireMaster Blanket Wrap Fireproofing *(07 84 56 13)*

07 84 56 13-0006	SF	1/2" Thermal Ceramics FireMaster Blanket Wrap	23.61	14.28
		For Work In Restricted Working Space, Add	*5.74*	
		For >500 To 5,000, Deduct	*-1.99*	
		For >5,000, Deduct	*-3.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 56 13-0007	SF	1" Thermal Ceramics FireMaster Blanket Wrap	27.33	14.28
		For Work In Restricted Working Space, Add	*5.74*	
		For >500 To 5,000, Deduct	*-2.84*	
		For >5,000, Deduct	*-4.95*	
07 84 56 13-0008	SF	1-1/2" Thermal Ceramics FireMaster Blanket Wrap	31.41	14.28
		For Work In Restricted Working Space, Add	*5.74*	
		For >500 To 5,000, Deduct	*-3.78*	
		For >5,000, Deduct	*-6.46*	
07 84 56 13-0009	SF	2" Thermal Ceramics FireMaster Blanket Wrap	35.49	14.28
		For Work In Restricted Working Space, Add	*5.74*	
		For >500 To 5,000, Deduct	*-4.72*	
		For >5,000, Deduct	*-7.97*	

07 86 Smoke Seals *(07 80)*

07 86 00 00-0001 Food-Grade Silicone Sealant For Joints (DOW 786) *(07 86)*
Note: Mildew Resistant; Mold Resistant

07 86 00 00-0002	CLF	1/4" x 1/4" Joint, Food-Grade Sealant (DOWSIL 786)	459.48	128.51
		For Up To 6 CLF, Add	*24.82*	
		For >30 CLF, Deduct	*-26.67*	
07 86 00 00-0003	CLF	1/4" x 3/8" Joint, Food-Grade Sealant (DOWSIL 786)	496.48	128.51
		For Up To 4 CLF, Add	*27.60*	
		For >20 CLF, Deduct	*-30.37*	
07 86 00 00-0004	CLF	1/4" x 1/2" Joint, Food-Grade Sealant (DOWSIL 786)	547.72	132.79
		For Up To 3 CLF, Add	*31.08*	
		For >15 CLF, Deduct	*-34.78*	
07 86 00 00-0005	CLF	3/8" x 3/8" Joint, Food-Grade Sealant (DOWSIL 786)	566.21	132.79
		For Up To 2.5 CLF, Add	*32.47*	
		For >13 CLF, Deduct	*-36.63*	
07 86 00 00-0006	CLF	3/8" x 1/2" Joint, Food-Grade Sealant (DOWSIL 786)	621.69	132.79
		For Up To 2 CLF, Add	*36.63*	
		For >10 CLF, Deduct	*-42.18*	
07 86 00 00-0007	CLF	3/8" x 5/8" Joint, Food-Grade Sealant (DOWSIL 786)	677.16	132.79
		For Up To 1.5 CLF, Add	*40.79*	
		For >8 CLF, Deduct	*-47.73*	
07 86 00 00-0008	CLF	3/8" x 3/4" Joint, Food-Grade Sealant (DOWSIL 786)	746.91	138.50
		For Up To 1.3 CLF, Add	*45.67*	
		For >7 CLF, Deduct	*-53.99*	
07 86 00 00-0009	CLF	1/2" x 1/2" Joint, Food-Grade Sealant (DOWSIL 786)	709.93	138.50
		For Up To 1.4 CLF, Add	*42.89*	
		For >7.5 CLF, Deduct	*-50.29*	
07 86 00 00-0010	CLF	1/2" x 5/8" Joint, Food-Grade Sealant (DOWSIL 786)	798.18	142.79
		For Up To 1.15 CLF, Add	*49.15*	
		For >6 CLF, Deduct	*-58.40*	
07 86 00 00-0011	CLF	1/2" x 3/4" Joint, Food-Grade Sealant (DOWSIL 786)	872.14	142.79
		For Up To 1 CLF, Add	*54.70*	
		For >5 CLF, Deduct	*-65.80*	
07 86 00 00-0012	CLF	1/2" x 7/8" Joint, Food-Grade Sealant (DOWSIL 786)	960.38	147.07
		For Up To 0.8 CLF, Add	*60.96*	
		For >4.5 CLF, Deduct	*-73.91*	
07 86 00 00-0013	CLF	1/2" x 1" Joint, Food-Grade Sealant (DOWSIL 786)	1,048.62	152.78
		For Up To 0.75 CLF, Add	*67.22*	
		For >4 CLF, Deduct	*-82.02*	
07 86 00 00-0014	CLF	3/4" x 3/4" Joint, Food-Grade Sealant (DOWSIL 786)	1,136.85	157.06
		For Up To 0.65 CLF, Add	*73.48*	
		For >3.5 CLF, Deduct	*-90.13*	
07 86 00 00-0015	CLF	3/4" x 1" Joint, Food-Grade Sealant (DOWSIL 786)	1,401.58	171.35
		For Up To 0.5 CLF, Add	*92.27*	
		For >2.5 CLF, Deduct	*-114.46*	
07 86 00 00-0016	CLF	1" x 1" Joint, Food-Grade Sealant (DOWSIL 786)	1,754.55	189.91
		For Up To 0.4 CLF, Add	*117.31*	
		For >2 CLF, Deduct	*-146.90*	

07 90 Joint Protection *(07)*

07 91 Preformed Joint Seals *(07 90)*

07 91 23 Backer Rods *(07 91)*

07 91 23 00-0001 Backer Rods *(07 91 23)*

07 91 23 00-0002	LF	1/4" Polyethylene Or Polyurethane Backer Rod	2.53	0.69
07 91 23 00-0003	LF	3/8" Polyethylene Or Polyurethane Backer Rod	2.73	0.69
07 91 23 00-0004	LF	1/2" Polyethylene Or Polyurethane Backer Rod	3.04	0.69
07 91 23 00-0005	LF	5/8" Polyethylene Or Polyurethane Backer Rod	3.56	0.69
07 91 23 00-0006	LF	3/4" Polyethylene Or Polyurethane Backer Rod	3.72	0.82
07 91 23 00-0007	LF	7/8" Polyethylene Or Polyurethane Backer Rod	4.16	0.82
07 91 23 00-0008	LF	1" Polyethylene Or Polyurethane Backer Rod	5.31	0.82
07 91 23 00-0009	LF	1-1/4" Polyethylene Or Polyurethane Backer Rod	6.42	0.96
07 91 23 00-0010	LF	1-1/2" Polyethylene Or Polyurethane Backer Rod	7.65	1.10
07 91 23 00-0011	LF	2" Polyethylene Or Polyurethane Backer Rod	10.54	1.24
07 91 23 00-0012	LF	3" Polyethylene Or Polyurethane Backer Rod	21.99	1.52

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

07 91 26 Joint Fillers *(07 91)*

07 91 26 00-0001 Butyl Rubber Fillers *(07 91 26)*

07 91 26 00-0002	LF	1/4" x 1/4" Butyl Rubber Filler	3.19	0.82
		For Custom Match Coloring, Add	*0.06*	
07 91 26 00-0003	LF	1/2" x 1/2" Butyl Rubber Filler	9.66	2.34
		For Custom Match Coloring, Add	*0.24*	
07 91 26 00-0004	LF	1/2" x 3/4" Butyl Rubber Filler	11.76	2.48
		For Custom Match Coloring, Add	*0.38*	
07 91 26 00-0005	LF	3/4" x 3/4" Butyl Rubber Filler	12.87	2.62
07 91 26 00-0006	LF	1" x 1" Butyl Rubber Filler	17.43	4.82

07 91 26 00-0007 Closed Cell Neoprene *(07 91 26)*

07 91 26 00-0008	CLF	1/8" x 3" Neoprene Gasket Closed Cell, Adhesive	546.16	158.90
07 91 26 00-0009	CLF	1/8" x 6" Neoprene Gasket Closed Cell, Adhesive	864.41	229.53
07 91 26 00-0010	CLF	1/4" x 3" Neoprene Gasket Closed Cell, Adhesive	696.79	196.76
07 91 26 00-0011	CLF	1/4" x 6" Neoprene Gasket Closed Cell, Adhesive	793.45	206.54
07 91 26 00-0012	CLF	1/2" x 6" Neoprene Gasket Closed Cell, Adhesive	1,211.55	317.80
07 91 26 00-0013	CLF	1/2" x 9" Neoprene Gasket Closed Cell, Adhesive	1,377.66	344.22
07 91 26 00-0014	CLF	1/2" x 12" Neoprene Gasket Closed Cell, Adhesive	1,217.71	250.33

07 91 26 00-0015 Closed Cell Polyvinyl Chloride *(07 91 26)*

07 91 26 00-0016	CLF	1/8" x 3" Polyethylene Joint Backing, Closed Cell	572.50	196.76
07 91 26 00-0017	CLF	1/8" x 6" Polyethylene Joint Backing, Closed Cell	1,022.46	317.80
07 91 26 00-0018	CLF	1/4" x 3" Polyethylene Joint Backing, Closed Cell	764.10	271.25
07 91 26 00-0019	CLF	1/4" x 6" Polyethylene Joint Backing, Closed Cell	960.27	286.40
07 91 26 00-0020	CLF	1/2" x 6" Polyethylene Joint Backing, Closed Cell	1,458.86	439.24
07 91 26 00-0021	CLF	1/2" x 9" Polyethylene Joint Backing, Closed Cell	1,743.50	476.68
07 91 26 00-0022	CLF	1/2" x 12" Polyethylene Joint Backing, Closed Cell	2,366.40	571.41

07 91 26 00-0023 Silicon RTV Foam Penetration Seal *(07 91 26)*

07 91 26 00-0024	CLF	1/4" x 1/2" Silicon RTV Foam Seal	175.32	31.53
07 91 26 00-0025	CLF	1/2" x 1/2" Silicon RTV Foam Seal	350.63	62.92
07 91 26 00-0026	CLF	1/2" x 3/4" Silicon RTV Foam Seal	522.39	93.50
07 91 26 00-0027	CLF	3/4" x 3/4" Silicon RTV Foam Seal	736.50	125.99
07 91 26 00-0028	CLF	1/8" x 1" Silicon RTV Foam Seal	175.32	31.53
07 91 26 00-0029	CLF	1/8" x 3" Silicon RTV Foam Seal	521.83	93.22
07 91 26 00-0030	CLF	1/4" x 3" Silicon RTV Foam Seal	888.69	140.03
07 91 26 00-0031	CLF	1/4" x 6" Silicon RTV Foam Seal	1,774.92	279.10
07 91 26 00-0032	CLF	1/2" x 6" Silicon RTV Foam Seal	3,360.15	503.82
07 91 26 00-0033	CLF	1/2" x 9" Silicon RTV Foam Seal	5,141.50	787.04
07 91 26 00-0034	CLF	1/2" x 12" Silicon RTV Foam Seal	7,576.12	1,259.32

07 91 26 00-0035 Seals O-Ring Type Cord "J-Seal" *(07 91 26)*

07 91 26 00-0036	LF	1/4" Seals O-Ring Cord, J-Seal	5.89	1.79
07 91 26 00-0037	LF	1/2" Seals O-Ring Cord, J-Seal	6.24	1.79
07 91 26 00-0038	LF	3/4" Seals O-Ring Cord, J-Seal	6.57	1.94
07 91 26 00-0039	LF	1" Seals O-Ring Cord, J-Seal	6.91	2.08
07 91 26 00-0040	LF	1-1/4" Seals O-Ring Cord, J-Seal	7.39	2.22
07 91 26 00-0041	LF	1-1/2" Seals O-Ring Cord, J-Seal	7.73	2.22
07 91 26 00-0042	LF	1-3/4" Seals O-Ring Cord, J-Seal	8.16	2.35
07 91 26 00-0043	LF	2" Seals O-Ring Cord, J-Seal	8.41	2.35

07 91 33 Expansion Joint Seal Systems *(07 91)*

07 91 33 00-0001 Expansion Joint Seal Systems (Wabo®) *(07 91 33)*

07 91 33 00-0002 Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® HSeal) *(07 91 33 00-0001)*

Note: Includes a pre-compressed seal, epoxy adhesive and traffic grade elastomeric top coating.

07 91 33 00-0003	LF	1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 25EH)	103.12	9.05
07 91 33 00-0004	LF	3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 40EH)	137.65	9.48
07 91 33 00-0005	LF	1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 50EH)	174.05	9.92
07 91 33 00-0006	LF	1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 65EH)	214.55	10.34
07 91 33 00-0007	LF	1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 75EH)	278.02	10.78
07 91 33 00-0008	LF	1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 90EH)	319.21	11.20
07 91 33 00-0009	LF	2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 100EH)	370.28	11.64

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 33 00-0010		**Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal Systems (Wabo® CompressionSeal)** *(07 91 33 00-0001)*		
		Note: Includes preformed neoprene joint seal and lubricant adhesive.		
07 91 33 00-0011	LF	0.625" Minimum, 1.381" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-162)	53.23	9.05
07 91 33 00-0012	LF	0.688" Minimum, 1.488" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-175)	58.03	9.18
07 91 33 00-0013	LF	0.875" Minimum, 1.700" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-200)	69.95	9.31
07 91 33 00-0014	LF	0.953" Minimum, 1.913" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-225)	74.20	9.48
07 91 33 00-0015	LF	1.000" Minimum, 2.125" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-250)	79.22	9.61
07 91 33 00-0016	LF	1.125" Minimum, 2.550" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-300)	96.89	9.74
07 91 33 00-0017	LF	1.375" Minimum, 2.975" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-350)	119.29	9.92
07 91 33 00-0018	LF	1.625" Minimum, 3.400" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-400)	140.95	10.34
07 91 33 00-0019	LF	1.687" Minimum, 4.250" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-500)	159.46	10.78
07 91 33 00-0020		**Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal Systems (Wabo® CompressionSeal)** *(07 91 33 00-0001)*		
		Note: Includes preformed Santoprene® joint seal and lubricant adhesive.		
07 91 33 00-0021	LF	0.500" Minimum, 1.500" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-100)	44.73	9.05
07 91 33 00-0022	LF	0.688" Minimum, 1.938" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-225)	57.89	9.48
07 91 33 00-0023	LF	1.063" Minimum, 2.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-250)	70.81	9.92
07 91 33 00-0024	LF	1.250" Minimum, 2.563" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-300)	74.74	10.13
07 91 33 00-0025	LF	1.250" Minimum, 3.375" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-400)	82.82	10.34
07 91 33 00-0026	LF	1.438" Minimum, 4.250" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-500)	118.34	10.78
07 91 33 00-0027	LF	1.813" Minimum, 5.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-600)	162.28	11.20
07 91 33 00-0028		**Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® Seismic WeatherSeal)** *(07 91 33 00-0001)*		
		Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0029	LF	1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-100)	37.97	3.60
07 91 33 00-0030	LF	3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-150)	63.53	3.74
07 91 33 00-0031	LF	1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-200)	95.53	3.88
07 91 33 00-0032	LF	1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-250)	120.40	4.02
07 91 33 00-0033	LF	1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-300)	158.38	4.16
07 91 33 00-0034	LF	1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-350)	209.44	4.31
07 91 33 00-0035	LF	2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-400)	256.82	4.46
07 91 33 00-0036	LF	2-1/2" Minimum, 7-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-500)	346.27	4.60
07 91 33 00-0037	LF	3" Minimum, 9" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-600)	404.23	4.74
07 91 33 00-0038		**Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal Systems (Wabo® WeatherSeal II)** *(07 91 33 00-0001)*		
		Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0039	LF	0.75" Minimum, 1.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-100)	37.05	3.60
07 91 33 00-0040	LF	1.13" Minimum, 1.88" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-150)	48.83	3.74
07 91 33 00-0041	LF	1.50" Minimum, 2.50" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-200)	65.43	3.88
07 91 33 00-0042	LF	1.88" Minimum, 3.13" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-250)	88.69	4.02
07 91 33 00-0043	LF	2.25" Minimum, 3.75" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-300)	101.17	4.16
07 91 33 00-0044	LF	2.63" Minimum, 4.38" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-350)	140.28	4.31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 33 00-0045	LF	3.00" Minimum, 5.00" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-400)	188.35	4.46
07 91 33 00-0046	LF	3.75" Minimum, 6.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-500)	203.36	4.60
07 91 33 00-0047		Molded EPDM Rubber Cover, For Pedestrian Foot Traffic And Slow Speed Non-Commercial Vehicular Traffic (Wabo® SafetyFlexl) *(07 91 33 00-0001)*		
07 91 33 00-0048	LF	2-1/2" Minimum, 12" Maximum Joint Opening, Elastomeric Hinged Cover System for Pedestrian Walkway And Low-speed Vehicular Traffic Areas (Wabo® SafetyFlex SFP-600)	275.64	11.64
07 91 33 00-0049		Closed Cell Neoprene Expanded Rubber Foam Seal, Preformed Flexible Joint Seal Systems (Wabo® InverSeal) *(07 91 33 00-0001)*		
		Note: Includes epoxy adhesive.		
07 91 33 00-0050	LF	0.45" Minimum, 1.25" Maximum Joint Opening, Closed Cell Neoprene Expanded Rubber Foam Seal, Preformed Flexible Joint Seal Systems (Wabo® InverSeal IV-100)	30.82	
07 91 33 00-0051	LF	0.675" Minimum, 1.875" Maximum Joint Opening, Closed Cell Neoprene Expanded Rubber Foam Seal, Preformed Flexible Joint Seal Systems (Wabo® InverSeal IV-150)	33.69	
07 91 33 00-0052	LF	0.90" Minimum, 2.50" Maximum Joint Opening, Closed Cell Neoprene Expanded Rubber Foam Seal, Preformed Flexible Joint Seal Systems (Wabo® InverSeal IV-200)	44.01	
07 91 33 00-0053	LF	1.125" Minimum, 3.125" Maximum Joint Opening, Closed Cell Neoprene Expanded Rubber Foam Seal, Preformed Flexible Joint Seal Systems (Wabo® InverSeal IV-250)	54.43	
07 91 33 00-0054	LF	1.35" Minimum, 3.75" Maximum Joint Opening, Closed Cell Neoprene Expanded Rubber Foam Seal, Preformed Flexible Joint Seal Systems (Wabo® InverSeal IV-300)	138.14	
07 91 33 00-0055	LF	1.80" Minimum, 5.00" Maximum Joint Opening, Closed Cell Neoprene Expanded Rubber Foam Seal, Preformed Flexible Joint Seal Systems (Wabo® InverSeal IV-400)	177.84	

07 92 Joint Sealants *(07 90)*

07 92 13 Elastomeric Joint Sealants *(07 92)*

07 92 13 00-0001		Silicone Sealants And Caulking *(07 92 13)*		
07 92 13 00-0002	CLF	1/4" x 1/4" Joint, Silicone Sealant And Caulking	429.12	128.51
		For Custom Match Coloring, Add	*10.46*	
		For Up To 6 CLF, Add	*22.55*	
		For >30 CLF, Deduct	*-23.64*	
		For 1 Part Mildew Resistant, Add	*15.26*	
		For High-Modulus Non-Acid Curing, Add	*8.72*	
07 92 13 00-0003	CLF	1/4" x 3/8" Joint, Silicone Sealant And Caulking	450.92	128.51
		For Custom Match Coloring, Add	*15.69*	
		For Up To 4 CLF, Add	*24.18*	
		For >20 CLF, Deduct	*-25.82*	
		For 1 Part Mildew Resistant, Add	*22.89*	
		For High-Modulus Non-Acid Curing, Add	*13.08*	
07 92 13 00-0004	CLF	1/4" x 1/2" Joint, Silicone Sealant And Caulking	486.98	132.79
		For Custom Match Coloring, Add	*20.92*	
		For Up To 3 CLF, Add	*26.53*	
		For >15 CLF, Deduct	*-28.71*	
		For 1 Part Mildew Resistant, Add	*30.51*	
		For High-Modulus Non-Acid Curing, Add	*17.44*	
07 92 13 00-0005	CLF	3/8" x 3/8" Joint, Silicone Sealant And Caulking	497.88	132.79
		For Custom Match Coloring, Add	*23.54*	
		For Up To 2.5 CLF, Add	*27.35*	
		For >13 CLF, Deduct	*-29.80*	
		For 1 Part Mildew Resistant, Add	*34.33*	
		For High-Modulus Non-Acid Curing, Add	*19.62*	
07 92 13 00-0006	CLF	3/8" x 1/2" Joint, Silicone Sealant And Caulking	530.57	132.79
		For Custom Match Coloring, Add	*31.38*	
		For Up To 2 CLF, Add	*29.80*	
		For >10 CLF, Deduct	*-33.07*	
		For 1 Part Mildew Resistant, Add	*45.77*	
		For High-Modulus Non-Acid Curing, Add	*26.15*	
07 92 13 00-0007	CLF	3/8" x 5/8" Joint, Silicone Sealant And Caulking	563.26	132.79
		For Custom Match Coloring, Add	*39.23*	
		For Up To 1.5 CLF, Add	*32.25*	
		For >8 CLF, Deduct	*-36.34*	
		For 1 Part Mildew Resistant, Add	*57.21*	
		For High-Modulus Non-Acid Curing, Add	*32.69*	
07 92 13 00-0008	CLF	3/8" x 3/4" Joint, Silicone Sealant And Caulking	610.23	138.50
		For Custom Match Coloring, Add	*47.08*	
		For Up To 1.3 CLF, Add	*35.42*	
		For >7 CLF, Deduct	*-40.32*	
		For 1 Part Mildew Resistant, Add	*68.65*	
		For High-Modulus Non-Acid Curing, Add	*39.23*	
07 92 13 00-0009	CLF	1/2" x 1/2" Joint, Silicone Sealant And Caulking	588.44	138.50
		For Custom Match Coloring, Add	*41.85*	
		For Up To 1.4 CLF, Add	*33.78*	
		For >7.5 CLF, Deduct	*-38.14*	
		For 1 Part Mildew Resistant, Add	*61.03*	
		For High-Modulus Non-Acid Curing, Add	*34.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0010	CLF	1/2" x 5/8" Joint, Silicone Sealant And Caulking	646.32	142.79
		For Custom Match Coloring, Add	*52.31*	
		For Up To 1.15 CLF, Add	*37.76*	
		For >6 CLF, Deduct	*-43.21*	
		For 1 Part Mildew Resistant, Add	*76.28*	
		For High-Modulus Non-Acid Curing, Add	*43.59*	
07 92 13 00-0011	CLF	1/2" x 3/4" Joint, Silicone Sealant And Caulking	689.91	142.79
		For Custom Match Coloring, Add	*62.77*	
		For Up To 1 CLF, Add	*41.03*	
		For >5 CLF, Deduct	*-47.57*	
		For 1 Part Mildew Resistant, Add	*91.54*	
		For High-Modulus Non-Acid Curing, Add	*52.31*	
07 92 13 00-0012	CLF	1/2" x 7/8" Joint, Silicone Sealant And Caulking	747.77	147.07
		For Custom Match Coloring, Add	*73.23*	
		For Up To 0.8 CLF, Add	*45.02*	
		For >4.5 CLF, Deduct	*-52.65*	
		For 1 Part Mildew Resistant, Add	*106.80*	
		For High-Modulus Non-Acid Curing, Add	*61.03*	
07 92 13 00-0013	CLF	1/2" x 1" Joint, Silicone Sealant And Caulking	805.64	152.78
		For Custom Match Coloring, Add	*83.69*	
		For Up To 0.75 CLF, Add	*49.00*	
		For >4 CLF, Deduct	*-57.72*	
		For 1 Part Mildew Resistant, Add	*122.05*	
		For High-Modulus Non-Acid Curing, Add	*69.74*	
07 92 13 00-0014	CLF	3/4" x 3/4" Joint, Silicone Sealant And Caulking	863.50	157.06
		For Custom Match Coloring, Add	*94.15*	
		For Up To 0.65 CLF, Add	*52.98*	
		For >3.5 CLF, Deduct	*-62.79*	
		For 1 Part Mildew Resistant, Add	*137.31*	
		For High-Modulus Non-Acid Curing, Add	*78.46*	
07 92 13 00-0015	CLF	3/4" x 1" Joint, Silicone Sealant And Caulking	1,037.11	171.35
		For Custom Match Coloring, Add	*125.54*	
		For Up To 0.5 CLF, Add	*64.93*	
		For >2.5 CLF, Deduct	*-78.01*	
		For 1 Part Mildew Resistant, Add	*183.08*	
		For High-Modulus Non-Acid Curing, Add	*104.62*	
07 92 13 00-0016	CLF	1" x 1" Joint, Silicone Sealant And Caulking	1,268.59	189.91
		For Custom Match Coloring, Add	*167.39*	
		For Up To 0.4 CLF, Add	*80.87*	
		For >2 CLF, Deduct	*-98.30*	
		For 1 Part Mildew Resistant, Add	*244.10*	
		For High-Modulus Non-Acid Curing, Add	*139.49*	

07 92 13 00-0017 Acrylic/Latex Sealant And Caulking *(07 92 13)*

07 92 13 00-0018	CLF	1/4" x 1/4" Joint, Acrylic/Latex Sealant And Caulking	400.82	128.51
		For Up To 6 CLF, Add	*20.42*	
		For >30 CLF, Deduct	*-20.81*	
07 92 13 00-0019	CLF	1/4" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	408.47	128.51
		For Up To 4 CLF, Add	*21.00*	
		For >20 CLF, Deduct	*-21.57*	
07 92 13 00-0020	CLF	1/4" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	430.39	132.79
		For Up To 3 CLF, Add	*22.28*	
		For >15 CLF, Deduct	*-23.05*	
07 92 13 00-0021	CLF	3/8" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	434.21	132.79
		For Up To 2.5 CLF, Add	*22.57*	
		For >13 CLF, Deduct	*-23.43*	
07 92 13 00-0022	CLF	3/8" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	445.68	132.79
		For Up To 2 CLF, Add	*23.43*	
		For >10 CLF, Deduct	*-24.58*	
07 92 13 00-0023	CLF	3/8" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	457.15	132.79
		For Up To 1.5 CLF, Add	*24.29*	
		For >8 CLF, Deduct	*-25.73*	
07 92 13 00-0024	CLF	3/8" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	482.90	138.50
		For Up To 1.3 CLF, Add	*25.87*	
		For >7 CLF, Deduct	*-27.59*	
07 92 13 00-0025	CLF	1/2" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	475.25	138.50
		For Up To 1.4 CLF, Add	*25.29*	
		For >7.5 CLF, Deduct	*-26.82*	
07 92 13 00-0026	CLF	1/2" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	504.83	142.79
		For Up To 1.15 CLF, Add	*27.15*	
		For >6 CLF, Deduct	*-29.06*	
07 92 13 00-0027	CLF	1/2" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	520.13	142.79
		For Up To 1 CLF, Add	*28.30*	
		For >5 CLF, Deduct	*-30.59*	
07 92 13 00-0028	CLF	1/2" x 7/8" Joint, Acrylic/Latex Sealant And Caulking	549.69	147.07
		For Up To 0.8 CLF, Add	*30.16*	
		For >4.5 CLF, Deduct	*-32.84*	
07 92 13 00-0029	CLF	1/2" x 1" Joint, Acrylic/Latex Sealant And Caulking	579.26	152.78
		For Up To 0.75 CLF, Add	*32.02*	
		For >4 CLF, Deduct	*-35.08*	
07 92 13 00-0030	CLF	3/4" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	608.82	157.06
		For Up To 0.65 CLF, Add	*33.88*	
		For >3.5 CLF, Deduct	*-37.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0031	CLF	3/4" x 1" Joint, Acrylic/Latex Sealant And Caulking	697.54	171.35
		For Up To 0.5 CLF, Add	*39.46*	
		For >2.5 CLF, Deduct	*-44.05*	
07 92 13 00-0032	CLF	1" x 1" Joint, Acrylic/Latex Sealant And Caulking	815.83	189.91
		For Up To 0.4 CLF, Add	*46.91*	
		For >2 CLF, Deduct	*-53.03*	

07 92 13 00-0033 Polyurethane Sealant And Caulking *(07 92 13)*

Note: 1 or 2 part, non-sag.

07 92 13 00-0034	CLF	1/4" x 1/4" Joint, Polyurethane Sealant And Caulking	418.96	128.51
		For Up To 6 CLF, Add	*21.78*	
		For >30 CLF, Deduct	*-22.62*	
07 92 13 00-0035	CLF	1/4" x 3/8" Joint, Polyurethane Sealant And Caulking	435.68	128.51
		For Up To 4 CLF, Add	*23.04*	
		For >20 CLF, Deduct	*-24.29*	
07 92 13 00-0036	CLF	1/4" x 1/2" Joint, Polyurethane Sealant And Caulking	466.66	132.79
		For Up To 3 CLF, Add	*25.00*	
		For >15 CLF, Deduct	*-26.68*	
07 92 13 00-0037	CLF	3/8" x 3/8" Joint, Polyurethane Sealant And Caulking	475.02	132.79
		For Up To 2.5 CLF, Add	*25.63*	
		For >13 CLF, Deduct	*-27.51*	
07 92 13 00-0038	CLF	3/8" x 1/2" Joint, Polyurethane Sealant And Caulking	500.10	132.79
		For Up To 2 CLF, Add	*27.51*	
		For >10 CLF, Deduct	*-30.02*	
07 92 13 00-0039	CLF	3/8" x 5/8" Joint, Polyurethane Sealant And Caulking	525.17	132.79
		For Up To 1.5 CLF, Add	*29.39*	
		For >8 CLF, Deduct	*-32.53*	
07 92 13 00-0040	CLF	3/8" x 3/4" Joint, Polyurethane Sealant And Caulking	564.52	138.50
		For Up To 1.3 CLF, Add	*31.99*	
		For >7 CLF, Deduct	*-35.75*	
07 92 13 00-0041	CLF	1/2" x 1/2" Joint, Polyurethane Sealant And Caulking	547.81	138.50
		For Up To 1.4 CLF, Add	*30.73*	
		For >7.5 CLF, Deduct	*-34.08*	
07 92 13 00-0042	CLF	1/2" x 5/8" Joint, Polyurethane Sealant And Caulking	595.53	142.79
		For Up To 1.15 CLF, Add	*33.96*	
		For >6 CLF, Deduct	*-38.13*	
07 92 13 00-0043	CLF	1/2" x 3/4" Joint, Polyurethane Sealant And Caulking	628.96	142.79
		For Up To 1 CLF, Add	*36.46*	
		For >5 CLF, Deduct	*-41.48*	
07 92 13 00-0044	CLF	1/2" x 7/8" Joint, Polyurethane Sealant And Caulking	676.66	147.07
		For Up To 0.8 CLF, Add	*39.68*	
		For >4.5 CLF, Deduct	*-45.53*	
07 92 13 00-0045	CLF	1/2" x 1" Joint, Polyurethane Sealant And Caulking	724.38	152.78
		For Up To 0.75 CLF, Add	*42.91*	
		For >4 CLF, Deduct	*-49.59*	
07 92 13 00-0046	CLF	3/4" x 3/4" Joint, Polyurethane Sealant And Caulking	772.08	157.06
		For Up To 0.65 CLF, Add	*46.13*	
		For >3.5 CLF, Deduct	*-53.65*	
07 92 13 00-0047	CLF	3/4" x 1" Joint, Polyurethane Sealant And Caulking	915.21	171.35
		For Up To 0.5 CLF, Add	*55.79*	
		For >2.5 CLF, Deduct	*-65.82*	

07 92 13 00-0048 Flexible Polysulfide Sealant And Caulking, Clear *(07 92 13)*

Note: 1 or 2 part, non-sag.

07 92 13 00-0049	CLF	1/4" x 1/4" Joint, Polysulfide Sealant And Caulking	422.13	128.51
		For Up To 6 CLF, Add	*22.02*	
		For >30 CLF, Deduct	*-22.94*	
07 92 13 00-0050	CLF	1/4" x 3/8" Joint, Polysulfide Sealant And Caulking	440.45	128.51
		For Up To 4 CLF, Add	*23.40*	
		For >20 CLF, Deduct	*-24.77*	
07 92 13 00-0051	CLF	1/4" x 1/2" Joint, Polysulfide Sealant And Caulking	473.03	132.79
		For Up To 3 CLF, Add	*25.48*	
		For >15 CLF, Deduct	*-27.31*	
07 92 13 00-0052	CLF	3/8" x 3/8" Joint, Polysulfide Sealant And Caulking	482.18	132.79
		For Up To 2.5 CLF, Add	*26.17*	
		For >13 CLF, Deduct	*-28.23*	
07 92 13 00-0053	CLF	3/8" x 1/2" Joint, Polysulfide Sealant And Caulking	509.65	132.79
		For Up To 2 CLF, Add	*28.23*	
		For >10 CLF, Deduct	*-30.98*	
07 92 13 00-0054	CLF	3/8" x 5/8" Joint, Polysulfide Sealant And Caulking	537.10	132.79
		For Up To 1.5 CLF, Add	*30.29*	
		For >8 CLF, Deduct	*-33.72*	
07 92 13 00-0055	CLF	3/8" x 3/4" Joint, Polysulfide Sealant And Caulking	578.83	138.50
		For Up To 1.3 CLF, Add	*33.06*	
		For >7 CLF, Deduct	*-37.18*	
07 92 13 00-0056	CLF	1/2" x 1/2" Joint, Polysulfide Sealant And Caulking	560.53	138.50
		For Up To 1.4 CLF, Add	*31.69*	
		For >7.5 CLF, Deduct	*-35.35*	
07 92 13 00-0057	CLF	1/2" x 5/8" Joint, Polysulfide Sealant And Caulking	611.44	142.79
		For Up To 1.15 CLF, Add	*35.15*	
		For >6 CLF, Deduct	*-39.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0058	CLF	1/2" x 3/4" Joint, Polysulfide Sealant And Caulking	648.05	142.79
		For Up To 1 CLF, Add	*37.89*	
		For >5 CLF, Deduct	*-43.39*	
07 92 13 00-0059	CLF	1/2" x 7/8" Joint, Polysulfide Sealant And Caulking	698.94	147.07
		For Up To 0.8 CLF, Add	*41.35*	
		For >4.5 CLF, Deduct	*-47.76*	
07 92 13 00-0060	CLF	1/2" x 1" Joint, Polysulfide Sealant And Caulking	749.82	152.78
		For Up To 0.75 CLF, Add	*44.81*	
		For >4 CLF, Deduct	*-52.14*	
07 92 13 00-0061	CLF	3/4" x 3/4" Joint, Polysulfide Sealant And Caulking	800.71	157.06
		For Up To 0.65 CLF, Add	*48.27*	
		For >3.5 CLF, Deduct	*-56.51*	
07 92 13 00-0062	CLF	3/4" x 1" Joint, Polysulfide Sealant And Caulking	953.38	171.35
		For Up To 0.5 CLF, Add	*58.65*	
		For >2.5 CLF, Deduct	*-69.64*	

07 92 13 00-0063 Flexible Polyurethane Security Sealant And Caulking *(07 92 13)*

Note: 1 or 2 part, non-sag.

07 92 13 00-0064	CLF	1/4" x 1/4" Joint, Flexible Polyurethane Security Sealant And Caulking	429.90	128.51
		For Up To 6 CLF, Add	*22.60*	
		For >30 CLF, Deduct	*-23.71*	
07 92 13 00-0065	CLF	1/4" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking	452.09	128.51
		For Up To 4 CLF, Add	*24.27*	
		For >20 CLF, Deduct	*-25.93*	
07 92 13 00-0066	CLF	1/4" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking	488.54	132.79
		For Up To 3 CLF, Add	*26.65*	
		For >15 CLF, Deduct	*-28.86*	
07 92 13 00-0067	CLF	3/8" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking	499.64	132.79
		For Up To 2.5 CLF, Add	*27.48*	
		For >13 CLF, Deduct	*-29.97*	
07 92 13 00-0068	CLF	3/8" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking	532.91	132.79
		For Up To 2 CLF, Add	*29.97*	
		For >10 CLF, Deduct	*-33.30*	
07 92 13 00-0069	CLF	3/8" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking	566.19	132.79
		For Up To 1.5 CLF, Add	*32.47*	
		For >8 CLF, Deduct	*-36.63*	
07 92 13 00-0070	CLF	3/8" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	613.75	138.50
		For Up To 1.3 CLF, Add	*35.68*	
		For >7 CLF, Deduct	*-40.67*	
07 92 13 00-0071	CLF	1/2" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking	591.57	138.50
		For Up To 1.4 CLF, Add	*34.02*	
		For >7.5 CLF, Deduct	*-38.45*	
07 92 13 00-0072	CLF	1/2" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking	650.23	142.79
		For Up To 1.15 CLF, Add	*38.06*	
		For >6 CLF, Deduct	*-43.60*	
07 92 13 00-0073	CLF	1/2" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	694.60	142.79
		For Up To 1 CLF, Add	*41.39*	
		For >5 CLF, Deduct	*-48.04*	
07 92 13 00-0074	CLF	1/2" x 7/8" Joint, Flexible Polyurethane Security Sealant And Caulking	753.24	147.07
		For Up To 0.8 CLF, Add	*45.43*	
		For >4.5 CLF, Deduct	*-53.19*	
07 92 13 00-0075	CLF	1/2" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	811.89	152.78
		For Up To 0.75 CLF, Add	*49.47*	
		For >4 CLF, Deduct	*-58.34*	
07 92 13 00-0076	CLF	3/4" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	870.53	157.06
		For Up To 0.65 CLF, Add	*53.51*	
		For >3.5 CLF, Deduct	*-63.49*	
07 92 13 00-0077	CLF	3/4" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	1,046.49	171.35
		For Up To 0.5 CLF, Add	*65.64*	
		For >2.5 CLF, Deduct	*-78.95*	

07 92 19 Acoustical Joint Sealants *(07 92)*

07 92 19 00-0001 Acoustical Sealant *(07 92 19)*

07 92 19 00-0002	CLF	1/4" x 1/4" Joint, Acoustical Sealant	439.50	128.51
		For Custom Match Coloring, Add	*12.95*	
		For Up To 6 CLF, Add	*23.32*	
		For >30 CLF, Deduct	*-24.67*	
		For 1 Part Mildew Resistant, Add	*18.89*	
		For High-Modulus Non-Acid Curing, Add	*10.79*	
07 92 19 00-0003	CLF	1/4" x 3/8" Joint, Acoustical Sealant	459.99	128.51
		For Custom Match Coloring, Add	*17.87*	
		For Up To 4 CLF, Add	*24.86*	
		For >20 CLF, Deduct	*-26.72*	
		For 1 Part Mildew Resistant, Add	*26.06*	
		For High-Modulus Non-Acid Curing, Add	*14.89*	
07 92 19 00-0004	CLF	1/4" x 1/2" Joint, Acoustical Sealant	486.34	132.79
		For Custom Match Coloring, Add	*20.77*	
		For Up To 3 CLF, Add	*26.48*	
		For >15 CLF, Deduct	*-28.64*	
		For 1 Part Mildew Resistant, Add	*30.29*	
		For High-Modulus Non-Acid Curing, Add	*17.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 19 00-0005	CLF	3/8" x 3/8" Joint, Acoustical Sealant	519.87	132.79
		For Custom Match Coloring, Add	*28.82*	
		For Up To 2.5 CLF, Add	*29.00*	
		For >13 CLF, Deduct	*-32.00*	
		For 1 Part Mildew Resistant, Add	*42.02*	
		For High-Modulus Non-Acid Curing, Add	*24.01*	
07 92 19 00-0006	CLF	3/8" x 1/2" Joint, Acoustical Sealant	554.73	132.79
		For Custom Match Coloring, Add	*37.18*	
		For Up To 2 CLF, Add	*31.61*	
		For >10 CLF, Deduct	*-35.48*	
		For 1 Part Mildew Resistant, Add	*54.23*	
		For High-Modulus Non-Acid Curing, Add	*30.99*	
07 92 19 00-0007	CLF	1/2" x 1/2" Joint, Acoustical Sealant	632.40	138.50
		For Custom Match Coloring, Add	*52.40*	
		For Up To 1.4 CLF, Add	*37.08*	
		For >7.5 CLF, Deduct	*-42.54*	
		For 1 Part Mildew Resistant, Add	*76.41*	
		For High-Modulus Non-Acid Curing, Add	*43.66*	

07 95 Expansion Control *(07 90)*

07 95 13 Expansion Joint Cover Assemblies *(07 95)*

Note: Includes necessary waterproofing mastics/caulking.

07 95 13 13 Interior Expansion Joint Cover Assemblies *(07 95 13)*

07 95 13 13-0001 Interior Floor Expansion Joint Cover Assemblies *(07 95 13 13)*

07 95 13 13-0002 With 1" Space *(07 95 13 13-0001)*

07 95 13 13-0003	LF	1" Opening Floor Assembly Type, With Aluminum Expansion Joint Cover	95.75	7.19
07 95 13 13-0004	LF	1" Opening Floor Assembly Type, With Bronze Expansion Joint Cover	47.18	7.19
07 95 13 13-0005	LF	1" Opening Floor Assembly Type, With Stainless Steel Expansion Joint Cover	97.55	7.19

07 95 13 13-0006 With 2" Space *(07 95 13 13-0001)*

07 95 13 13-0007	LF	2" Opening Floor Assembly Type, Aluminum Expansion Joint Cover	131.00	7.19
07 95 13 13-0008	LF	2" Opening Floor Assembly Type, Bronze Expansion Joint Cover	54.48	7.19
07 95 13 13-0009	LF	2" Opening Floor Assembly Type, Stainless Steel Expansion Joint Cover	133.70	7.19

07 95 13 13-0010 Interior Ceiling And Wall Expansion Joint Cover Assemblies *(07 95 13 13)*

07 95 13 13-0011 With 1" Space *(07 95 13 13-0010)*

07 95 13 13-0012	LF	1" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover	66.76	7.19
07 95 13 13-0013	LF	1" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	46.13	7.19
07 95 13 13-0014	LF	1" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover	85.73	7.19

07 95 13 13-0015 With 2" Space *(07 95 13 13-0010)*

07 95 13 13-0016	LF	2" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover	87.91	7.19
07 95 13 13-0017	LF	2" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	49.77	7.19
07 95 13 13-0018	LF	2" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover	103.80	7.19

07 95 13 16 Exterior Expansion Joint Cover Assemblies *(07 95 13)*

07 95 13 16-0001 Exterior Roof Aluminum Expansion Joint Cover Assemblies *(07 95 13 16)*

07 95 13 16-0002 Roof To Roof *(07 95 13 16-0001)*

07 95 13 16-0003	LF	1" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	135.04	4.79
07 95 13 16-0004	LF	2" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	164.70	4.79
07 95 13 16-0005	LF	3" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	185.13	4.79

07 95 13 16-0006 Roof To Wall *(07 95 13 16-0001)*

07 95 13 16-0007	LF	1" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint	97.47	4.79
07 95 13 16-0008	LF	2" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint	133.78	4.79

07 95 13 16-0009 Flat Wall To Wall *(07 95 13 16-0001)*

07 95 13 16-0010	LF	1" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	70.79	4.79
07 95 13 16-0011	LF	2" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	92.58	4.79
07 95 13 16-0012	LF	3" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	118.87	4.79

07 95 13 16-0013 Corner To Flat Wall *(07 95 13 16-0001)*

07 95 13 16-0014	LF	1" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	65.35	4.79
07 95 13 16-0015	LF	2" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	79.87	4.79
07 95 13 16-0016	LF	3" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	120.69	4.79

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

END OF SECTION 07

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

08 Openings

08 01 Operation and Maintenance of Openings *(08)*

08 01 10 Operation and Maintenance of Doors and Frames *(08 01)*

08 01 11 Operation and Maintenance of Metal Doors and Frames *(08 01 10)*

08 01 11 61 Metal Doors and Frames Repair *(08 01 11)*

08 01 11 61-0001 Hollow Metal Door Repair *(08 01 11 61)*
Note: Repairs are based on holes or damage of less than 1/2 of a square foot.

08 01 11 61-0002	EA	Up To 1 SI, Patch Small Drill Holes Note: Per hinge location - sand to bare metal, mix/patch with a two-part polyester-based, putty-like filler resin and hardener (Bondo® Fillers), fine grit sand smooth for finish	24.02	
08 01 11 61-0003	EA	>1 To 6 SI, Patch Small Drill Holes Note: Per hinge location - sand to bare metal, mix/patch with a two-part polyester-based, putty-like filler resin and hardener (Bondo® Fillers), fine grit sand smooth for finish	48.19	
08 01 11 61-0004	LF	Patch Deep Scrapes Or Cuts In Doors	58.01	

08 01 50 Operation and Maintenance of Windows *(08 01)*

08 01 52 Operation and Maintenance of Wood Windows *(08 01 50)*

08 01 52 61 Wood Window Repairs *(08 01 52)*

08 01 52 61-0001 Window Restoration And Replacement *(08 01 52 61)*

08 01 52 61-0002	EA	Removal And Replacement Of Window Arms	44.92	
08 01 52 61-0003	EA	Removal And Replacement Of Window Crank Operator	49.88	
08 01 52 61-0004	EA	Removal And Replacement Of Brass Window Sash Pull	31.28	
08 01 52 61-0005	EA	Removal And Replacement Of Brass Window Sash Lock	28.18	
08 01 52 61-0006	EA	Removal And Replacement Of Sash Guides	15.93	
08 01 52 61-0007	EA	Removal And Replacement Of Window Balance, Removable Sash Window Note: Channel, spiral or coil balance.	34.27	
08 01 52 61-0008	EA	Removal And Replacement Of Window Balance, Sash Window, Wooden Stops And/or Casing Note: Channel, spiral or coil balance.	105.68	
		For Replacing Two Balances In One Window, Deduct	*-39.42*	

08 01 70 Operation and Maintenance of Hardware *(08 01)*

08 01 71 Operation and Maintenance of Door Hardware *(08 01 70)*

08 01 71 81 Door Hardware Replacement *(08 01 71)*

08 01 71 81-0001 Replacement Folding Door Hardware *(08 01 71 81)*
Note: Includes track, top and bottom pivots, door guide, track stop, panel hinge, bottom pivot bracket, top pivot lock, 4-door aligner (when necessary), and doorknob.

08 01 71 81-0002 2-Door Folding Door Hardware *(08 01 71 81-0001)*

08 01 71 81-0003	SET	24" Track, 40 Lb. Capacity, 2 Panel Bi-Fold Door Hardware Note: Aluminum, top mounted. For replacement only.	328.17	142.84
08 01 71 81-0004	SET	30" Track, 40 Lb. Capacity, 2 Panel Bi-Fold Door Hardware Note: Aluminum, top mounted. For replacement only.	338.68	146.41
08 01 71 81-0005	SET	36" Track, 40 Lb. Capacity, 2 Panel Bi-Fold Door Hardware Note: Aluminum, top mounted. For replacement only.	345.82	149.98
08 01 71 81-0006	SET	36" Track, 50 Lb. Capacity, 2 Panel Bi-Fold Door Hardware Note: Aluminum, top mounted. For replacement only.	367.57	149.98

08 01 71 81-0007 4-Door Folding Door Hardware *(08 01 71 81-0001)*

08 01 71 81-0008	SET	48" Track, 40 Lb. Capacity, 4 Panel Bi-Folding Door Hardware Note: Aluminum, top mounted. For replacement only.	502.76	214.25
08 01 71 81-0009	SET	48" Track, 50 Lb. Capacity, 4 Panel Bi-Folding Door Hardware Note: Aluminum, top mounted. For replacement only.	537.93	214.25
08 01 71 81-0010	SET	60" Track, 40 Lb. Capacity, 4 Panel Bi-Folding Door Hardware Note: Aluminum, top mounted. For replacement only.	513.96	214.25
08 01 71 81-0011	SET	60" Track, 50 Lb. Capacity, 4 Panel Bi-Folding Door Hardware Note: Aluminum, top mounted. For replacement only.	550.18	214.25
08 01 71 81-0012	SET	72" Track, 40 Lb. Capacity, 4 Panel Bi-Folding Door Hardware Note: Aluminum, top mounted. For replacement only.	524.86	221.39
08 01 71 81-0013	SET	72" Track, 50 Lb. Capacity, 4 Panel Bi-Folding Door Hardware Note: Aluminum, top mounted. For replacement only.	562.69	221.39
08 01 71 81-0014	SET	96" Track, 40 Lb. Capacity, 4 Panel Bi-Folding Door Hardware Note: Aluminum, top mounted. For replacement only.	517.54	221.39
08 01 71 81-0015	SET	96" Track, 50 Lb. Capacity, 4 Panel Bi-Folding Door Hardware Note: Aluminum, top mounted. For replacement only.	540.69	221.39

08 01 71 81-0016 Replacement Sliding Door Hardware *(08 01 71 81)*
Note: Hardware includes track, door pull, by-pass door guide, doorstop, standard hanger, and track stop.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 01 71 81-0017		2-Door Sliding Door Hardware *(08 01 71 81-0016)*		
08 01 71 81-0018	SET	48" Track, 100 Lb. Capacity, 2 Door Sliding Door Hardware Note: Aluminum fascia track. For replacement only.	193.37	71.41
08 01 71 81-0019	SET	48" Track, 150 Lb. Capacity, 2 Door Sliding Door Hardware Note: Aluminum fascia track. For replacement only.	250.25	71.41
08 01 71 81-0020	SET	60" Track, 100 Lb. Capacity, 2 Door Sliding Door Hardware Note: Aluminum fascia track. For replacement only.	214.25	78.56
08 01 71 81-0021	SET	60" Track, 150 Lb. Capacity, 2 Door Sliding Door Hardware Note: Aluminum fascia track. For replacement only.	276.16	78.56
08 01 71 81-0022	SET	72" Track, 100 Lb. Capacity, 2 Door Sliding Door Hardware Note: Aluminum fascia track. For replacement only.	248.59	85.70
08 01 71 81-0023	SET	72" Track, 150 Lb. Capacity, 2 Door Sliding Door Hardware Note: Aluminum fascia track. For replacement only.	302.46	85.70
08 01 71 81-0024		4-Door Sliding Door Hardware *(08 01 71 81-0016)*		
08 01 71 81-0025	SET	96" Track, 200 Lb. Capacity, 4 Door Sliding Door Hardware Note: Aluminum fascia track. For replacement only.	416.65	142.84
08 01 71 81-0026	SET	96" Track, 300 Lb. Capacity, 4 Door Sliding Door Hardware Note: Aluminum fascia track. For replacement only.	492.42	142.84

08 01 80 Maintenance of Glazing *(08 01)*

08 01 81 Maintenance of Glass Glazing *(08 01 80)*

08 01 81 10 Maintenance of Glass Glazing *(08 01 81)*

08 01 81 10-0001		Glazing Compound Repair *(08 01 81 10)*		
08 01 81 10-0002	LF	Removal And Replacement Of Up To 1/2" Wide Damaged, Broken Or Cracked Window Glazing, For Glazing Compound Repair	8.43	

END OF SECTION 08

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

11 Equipment

11 01 Operation and Maintenance of Equipment *(11)*

11 01 10 Operation and Maintenance of Vehicle and Pedestrian Equipment *(11 01)*

11 01 10 13 Operation and Maintenance of Parking Equipment *(11 01 10)*

11 01 10 13-0001 Replacement Parking Equipment *(11 01 10 13)*

11 01 10 13-0002	EA	10' Wood Arm Replacement With Bolts	649.99	
11 01 10 13-0003	EA	12' Wood Arm Replacement With Bolts	679.46	
11 01 10 13-0004	EA	14' Wood Arm Replacement With Bolts	713.26	
11 01 10 13-0005	EA	12' Aluminum Arm Replacement With Bolts	949.08	
11 01 10 13-0006	EA	14' Aluminum Arm Replacement With Bolts	980.75	
11 01 10 13-0007	EA	16' Aluminum Arm Replacement With Bolts	1,389.85	
11 01 10 13-0008	EA	18' Aluminum Arm Replacement With Bolts	1,410.27	
11 01 10 13-0009	EA	20' Aluminum Arm Replacement With Bolts	1,449.29	
11 01 10 13-0010	EA	22' Aluminum Arm Replacement With Bolts	1,666.66	
11 01 10 13-0011	EA	24' Aluminum Arm Replacement With Bolts	1,694.24	

11 10 Vehicle and Pedestrian Equipment *(11)*

11 11 Vehicle Service Equipment *(11 10)*

11 11 19 Vehicle Lubrication Equipment *(11 11)*

11 11 19 00-0001 Reels *(11 11 19)*

11 11 19 00-0002	EA	1/4" x 50' Hose, Grease Reel (Alemite 8078-B)	1,229.32	155.93
11 11 19 00-0003	EA	1/2" x 50' Hose, Oil Reel (Alemite 8078-D)	1,199.16	155.93
11 11 19 00-0004	EA	3/8" x 50' Hose, Air Or Water Reel (Alemite 8078-F)	1,052.15	155.93
11 11 19 00-0005	EA	1/2" x 50' Hose, Air Or Water Reel (Alemite 8078-M)	1,169.58	155.93

11 11 19 00-0006 Air Operated Powered Pumps *(11 11 19)*

Note: Excludes air compressor.

11 11 19 00-0007	EA	1", Oil, Air Operated Diaphragm Pump (Alemite 8323)	1,843.51	207.91
11 11 19 00-0008	EA	1", Antifreeze, Air Operatied Diaphragm Pump (Alemite 8325) Note: UL listed.	2,041.98	207.91
11 11 19 00-0009	EA	5:1 Air Operated Oil Pump (Alemite 9968)	1,642.52	207.91
11 11 19 00-0010	EA	50:1 High Pressure Grease Pump For 400 Lb. Drum (Alemite 9979-A) Note: Includes pump, drum cover and follower plate.	1,877.66	103.95

11 11 19 00-0011 Pumping Unit Accessories *(11 11 19)*

11 11 19 00-0012	EA	Rigid Extension, Digital Oil Meter (Alemite 3670)	663.42	38.98
11 11 19 00-0013	EA	Flexible Extension, Digital Meter (Alemite 3671)	663.42	38.98
11 11 19 00-0014	EA	Manual, Non-Drip Tip, Flexible, Digital Oil Meter (Alemite 3671-B)	663.42	38.98
11 11 19 00-0015	EA	Grease Control Handle (Alemite 6320-A)	362.30	38.98
11 11 19 00-0016	EA	150 PSI Filter/Regulator (Alemite 7936)	198.39	38.98
11 11 19 00-0017	EA	Z Type Grease Swivel (Alemite B331107)	129.31	12.99
11 11 19 00-0018	EA	Suction Hose Assembly (Parker T605-84)	302.99	51.98
11 11 19 00-0019	EA	Unistrut Reel Brackets	262.90	10.39
11 11 19 00-0020	EA	Large, Diaphragm Pump, Wall Mount Bracket (Alemite 343173)	358.26	38.98

11 11 36 Vehicle Charging Equipment *(11 11)*

11 11 36 13 Commercial Electric Vehicle Charging Unit *(11 11 36)*

11 11 36 13-0001 Electric Vehicle Charging Stations (AeroVironment) *(11 11 36 13)*

Note: Can be configured as Level 1 (16 Amps, 120 VAC) or Level 2 (16 Amps, 240 VAC).

11 11 36 13-0002	EA	Module Electric Vehicle Charging Station (AeroVironment TurboDock Module) Note: Includes charging station only. Excludes mounting bracket or pedestal.	3,446.06	200.72
11 11 36 13-0003	EA	Single Wall Mount Electric Vehicle Charging Station (AeroVironment TurboDock Wall Mount) Note: Includes charging station(s) and wall mounting bracket that can hold up to two charging modules.	4,739.22	266.96
11 11 36 13-0004	EA	Dual Wall Mount Electric Vehicle Charging Station (AeroVironment TurboDock Wall Mount) Note: Includes charging station(s) and wall mounting bracket that can hold up to two charging modules.	7,783.83	334.20
11 11 36 13-0005	EA	Single Pedestal Mount Electric Vehicle Charging Station (AeroVironment TurboDock Pedestal) Note: Includes charging station(s), pedestal and mounting bracket that can hold up to four charging modules.	5,140.66	401.44
11 11 36 13-0006	EA	Dual Pedestal Mount Electric Vehicle Charging Station (AeroVironment TurboDock Pedestal) Note: Includes charging station(s), pedestal and mounting bracket that can hold up to four charging modules.	8,385.99	534.92
11 11 36 13-0007	EA	Triple Pedestal Mount Electric Vehicle Charging Station (AeroVironment TurboDock Pedestal) Note: Includes charging station(s), pedestal and mounting bracket that can hold up to four charging modules.	11,631.31	668.38
11 11 36 13-0008	EA	Quad Pedestal Mount Electric Vehicle Charging Station (AeroVironment TurboDock Pedestal) Note: Includes charging station(s), pedestal and mounting bracket that can hold up to four charging modules.	14,876.65	802.86

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 11 36 13-0009		**Electric Vehicle Charging Stations (ChargePoint)** *(11 11 36 13)*		
11 11 36 13-0010	EA	Single Port, Electric Vehicle Charging Station, Bollard Unit, 208/240 Volt At 30 Amperes With Cord Management (ChargePoint CT4011)	5,025.14	401.44
11 11 36 13-0011	EA	Single Port, Electric Vehicle Charging Station, Gateway Option USA, Bollard Unit, 208/240 Volt At 30 Amperes With Cord Management (ChargePoint CT4011-GW1)	5,463.20	401.44
11 11 36 13-0012	EA	Dual Port, Electric Vehicle Charging Station, Bollard Unit, 208/240 Volt At 30 Amperes With Cord Management (ChargePoint CT4021)	7,296.75	534.92
11 11 36 13-0013	EA	Dual Port, Electric Vehicle Charging Station, Gateway Option USA, Bollard Unit, 208/240 Volt At 30 Amperes With Cord Management (ChargePoint CT4021-GW1)	7,734.82	534.92
11 11 36 13-0014	EA	Single Port, Electric Vehicle Charging Station, Wall Mount Unit, 208/240 Volt At 30 Amperes With Cord Management (ChargePoint CT4013)	4,575.36	266.96
11 11 36 13-0015	EA	Single Port, Electric Vehicle Charging Station, Gateway Option USA, Wall Mount Unit, 208/240 Volt At 30 Amperes With Cord Management (ChargePoint CT4013-GW1)	5,061.10	266.96
11 11 36 13-0016	EA	Dual Port, Electric Vehicle Charging Station, Wall Mount Unit, 208/240 Volt At 30 Amperes With Cord Management (ChargePoint CT4023)	6,662.92	334.20
11 11 36 13-0017	EA	Dual Port, Electric Vehicle Charging Station, Gateway Option USA, Wall Mount Unit, 208/240 Volt At 30 Amperes, With Cord Management (ChargePoint CT4023-GW1)	7,132.66	334.20
11 11 36 13-0018	EA	CT4000 Power Management Kit (ChargePoint CT4000-PMGMT)	142.86	33.42
11 11 36 13-0019	EA	CT4000 Bollard Concrete Mounting Kit (ChargePoint CT4001-CCM) Note: Includes Bolts: 5/8 - 11 x 9" F1554 Grade 55 hot-dipped galvanized threaded bolts - 3 each. Nuts: 5/8 - Heavy Galvanized Hex Nuts (DH Rated) - 12 each. Washers: Galvanized Washers (ASTM F436) - 9 each. Plastic Template	256.80	
11 11 36 13-0020	EA	Initial Station Activation And Configuration Service (ChargePoint CPSUPPORT-ACTIVE)	261.15	
11 11 36 13-0021	EA	1 Year Prepaid Commercial Cloud Plan (Chargepoint CPCLD-COMMERCIAL-1)	394.13	
11 11 36 13-0022	EA	2 Year Prepaid Commercial Cloud Plan (Chargepoint CPCLD-COMMERCIAL-2)	773.57	
11 11 36 13-0023	EA	3 Year Prepaid Commercial Cloud Plan (Chargepoint CPCLD-COMMERCIAL-3)	1,125.20	
11 11 36 13-0024	EA	4 Year Prepaid Commercial Cloud Plan (Chargepoint CPCLD-COMMERCIAL-4)	1,471.41	
11 11 36 13-0025	EA	5 Year Prepaid Commercial Cloud Plan (ChargePoint CPCLD-COMMERCIAL-5)	1,720.03	
11 11 36 13-0026	EA	4 Prepaid Years Of ChargePoint Assure (per station) For CT4000 Station (Chargepoint CT4000 ASSURE4) Note: Includes Parts and Labor Warranty, Remote Technical Support, On-Site Repairs when needed, Unlimited Configuration Changes, and Reporting.	2,207.12	
11 11 36 13-0027	EA	1 Prepaid Year Of ChargePoint Assure (per station) For CP6000 Station (Chargepoint CP6000 ASSURE1) Note: Includes Parts and Labor Warranty, Remote Technical Support, On-Site Repairs when needed, Unlimited Configuration Changes, and Reporting.	465.23	
11 11 36 13-0028	EA	2 Prepaid Years Of ChargePoint Assure (per station) For CP6000 Station (Chargepoint CP6000 ASSURE2) Note: Includes Parts and Labor Warranty, Remote Technical Support, On-Site Repairs when needed, Unlimited Configuration Changes, and Reporting.	865.54	
11 11 36 13-0029	EA	3 Prepaid Years Of ChargePoint Assure (per station) For CP6000 Station (Chargepoint CP6000 ASSURE3) Note: Includes Parts and Labor Warranty, Remote Technical Support, On-Site Repairs when needed, Unlimited Configuration Changes, and Reporting.	1,233.39	
11 11 36 13-0030	EA	4 Prepaid Years Of ChargePoint Assure (per station) For CP6000 Station (Chargepoint CP6000 ASSURE4) Note: Includes Parts and Labor Warranty, Remote Technical Support, On-Site Repairs when needed, Unlimited Configuration Changes, and Reporting.	1,557.96	
11 11 36 13-0031	EA	5 Prepaid Years Of ChargePoint Assure (per station) For CP6000 Station (Chargepoint CP6000 ASSURE5) Note: Includes Parts and Labor Warranty, Remote Technical Support, On-Site Repairs when needed, Unlimited Configuration Changes, and Reporting.	1,782.96	
11 11 36 13-0032	EA	Express Vehicle Charging Station (ChargePoint Express 250 CPE250C-625-CCS1-CHD) Note: Includes 2x Power Module, 1x CCS1 cable, 1x CHAdeMO cable	57,020.30	200.72
11 11 36 13-0033	EA	Single Port, Electric Vehicle Charging Station, 50 Amperes, Pedestal Mount, 18' Cable (ChargePoint CP6611B-50A-L5.5)	6,432.29	401.44
11 11 36 13-0034	EA	Single Port, Electric Vehicle Charging Station, 50 Amperes, Pedestal Mount, 18' Cable, EMV Chip Reader (ChargePoint CP6611B-50A-L5.5-CHIP)	6,751.51	401.44
11 11 36 13-0035	EA	Single Port, Electric Vehicle Charging Station, 80 Amperes, Pedestal Mount, 18' Cable (ChargePoint CP6611B-80A-L5.5)	7,707.41	401.44
11 11 36 13-0036	EA	Single Port, Electric Vehicle Charging Station, 80 Amperes, Pedestal Mount, 18' Cable, EMV Chip Reader (ChargePoint CP6611B-80A-L5.5-CHIP)	8,088.44	401.44
11 11 36 13-0037	EA	Dual Port, Electric Vehicle Charging Station, 50 Amperes, Pedestal Mount, 18' Cable (ChargePoint CP6621B-50A-L5.5)	8,831.42	534.92
11 11 36 13-0038	EA	Dual Port, Electric Vehicle Charging Station, 50 Amperes, Pedestal Mount, 18' Cable, EMV Chip Reader (ChargePoint CP6621B-50A-L5.5-CHIP)	9,162.16	534.92
11 11 36 13-0039	EA	Dual Port, Electric Vehicle Charging Station, 80 Amperes, Pedestal Mount, 18' Cable (ChargePoint CP6621B-80A-L5.5)	11,661.34	534.92
11 11 36 13-0040	EA	Dual Port, Electric Vehicle Charging Station, 80 Amperes, Pedestal Mount, 18' Cable, EMV Chip Reader (ChargePoint CP6621B-80A-L5.5-CHIP)	12,053.87	534.92
11 11 36 13-0041	EA	Single Port, Electric Vehicle Charging Station, 50 Amperes, Wall Mount, 18' Cable (ChargePoint CP6613B-50A-L5.5)	6,030.85	266.96
11 11 36 13-0042	EA	Single Port, Electric Vehicle Charging Station, 50 Amperes, Wall Mount, 18' Cable, EMV Chip Reader (ChargePoint CP6613B-50A-L5.5-CHIP)	6,350.07	266.96
11 11 36 13-0043	EA	Single Port, Electric Vehicle Charging Station, 80 Amperes, Wall Mount, 18' Cable (ChargePoint CP6613B-80A-L5.5)	7,305.97	266.96
11 11 36 13-0044	EA	Single Port, Electric Vehicle Charging Station, 80 Amperes, Wall Mount, 18' Cable, EMV Chip Reader (ChargePoint CP6613B-80A-L5.5-CHIP)	7,687.00	266.96
11 11 36 13-0045	EA	Dual Port, Electric Vehicle Charging Station, 50 Amperes, Wall Mount, 18' Cable (ChargePoint CP6623B-50A-L5.5)	8,229.26	334.20
11 11 36 13-0046	EA	Dual Port, Electric Vehicle Charging Station, 50 Amperes, Wall Mount, 18' Cable, EMV Chip Reader (ChargePoint CP6623B-50A-L5.5-CHIP)	8,560.00	334.20
11 11 36 13-0047	EA	Dual Port, Electric Vehicle Charging Station, 80 Amperes, Wall Mount, 18' Cable (ChargePoint CP6623B-80A-L5.5)	11,059.18	334.20
11 11 36 13-0048	EA	Dual Port, Electric Vehicle Charging Station, 80 Amperes, Wall Mount, 18' Cable, EMV Chip Reader (ChargePoint CP6623B-80A-L5.5-CHIP)	11,451.71	334.20
11 11 36 13-0049		**Electric Vehicle Charging Stations (GE)** *(11 11 36 13)* Note: Available with RFID (Radio Frequency Identification) reader.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 11 36 13-0050	EA	Single Pedestal Electric Vehicle Charging Station Without RFID (GE EVSN3) Note: 208 to 240 volt, 30 amperes, 1 phase.	5,040.43	401.44
11 11 36 13-0051	EA	Double Pedestal Electric Vehicle Charging Station Without RFID (GE EVDN3) Note: 208 to 240 volt, 30 amperes, 1 phase.	8,707.63	534.92
11 11 36 13-0052	EA	Single Pedestal Electric Vehicle Charging Station With RFID (GE EVSRN3) Note: 208 to 240 volt, 30 amperes, 1 phase.	8,874.19	401.44
11 11 36 13-0053	EA	Double Pedestal Electric Vehicle Charging Station With RFID (GE EVDRN3) Note: 208 to 240 volt, 30 amperes, 1 phase.	14,951.35	534.92
11 11 36 13-0054	EA	Single Pole Mounted Electric Vehicle Charging Station Without RFID (GE EVPN3) Note: 208 to 240 volt, 30 amperes, 1 phase. Excludes pole.	4,198.53	200.72
11 11 36 13-0055	EA	Single Pole Mounted Electric Vehicle Charging Station With RFID (GE EVPRN3) Note: 208 to 240 volt, 30 amperes, 1 phase. Excludes pole.	7,888.56	200.72
11 11 36 13-0056	EA	Single Wall Mounted Electric Vehicle Charging Station Without RFID (GE EVWN3) Note: 208 to 240 volt, 30 amperes, 1 phase.	4,159.47	266.96
11 11 36 13-0057	EA	Single Wall Mounted Electric Vehicle Charging Station With RFID (GE EVWRN3) Note: 208 to 240 volt, 30 amperes, 1 phase.	7,705.76	266.96

11 11 36 13-0058 Electric Vehicle Charging Stations (Loop) *(11 11 36 13)*

11 11 36 13-0059	EA	Single Output, Wall Mount, Electric Vehicle Charging Station (Loop EV-Flex)	2,968.44	100.36
		For 52.8" x 6" x 2" Pedestal, Add	*956.33*	
11 11 36 13-0060	EA	Network Router - Evloop EVS-NB-W Network Access Package (Loop EVS-NB-W) Note: Includes Router, Access Point, Antenna and Cables	3,945.17	

11 11 36 13-0061 Electric Vehicle Charging Stations (Leviton) *(11 11 36 13)*

11 11 36 13-0062	EA	Single Port, Electric Vehicle Charging Station, Gateway (Leviton evr-green® 4000 CPHG1-000) Note: 208 to 240 volt, 30 amperes, 1 phase.	4,511.43	401.44
		For Bollard Body (Leviton CPMBX-000), Add	*2,489.64*	
		For Bollard Cap (Leviton CPCAP-B), Add	*228.79*	
		For Wall Mounting Body (Leviton CPMEX-000), Add	*1,720.68*	
		For Wall Mounting Cap (Leviton CPCAP-W), Add	*228.79*	
		For Cord Management Kit (Leviton CPCBX-000), Add	*1,569.05*	
11 11 36 13-0063	EA	Single Port, Electric Vehicle Charging Station, Non-Gateway LAN (Leviton evr-green® 4000 CPHD1-000) Note: 208 to 240 volt, 30 amperes, 1 phase.	3,728.76	401.44
		For Bollard Body (Leviton CPMBX-000), Add	*2,489.64*	
		For Bollard Cap (Leviton CPCAP-B), Add	*228.79*	
		For Wall Mounting Body (Leviton CPMEX-000), Add	*1,720.68*	
		For Wall Mounting Cap (Leviton CPCAP-W), Add	*228.79*	
		For Cord Management Kit (Leviton CPCBX-000), Add	*1,569.05*	
11 11 36 13-0064	EA	Dual Port, Electric Vehicle Charging Station, Gateway (Leviton evr-green® 4000 CPHG2-000) Note: 208 to 240 volt, 30 amperes, 1 phase.	8,606.88	534.92
		For Bollard Body (Leviton CPMBX-000), Add	*2,489.64*	
		For Bollard Cap (Leviton CPCAP-B), Add	*228.79*	
		For Wall Mounting Body (Leviton CPMEX-000), Add	*1,720.68*	
		For Wall Mounting Cap (Leviton CPCAP-W), Add	*228.79*	
		For Cord Management Kit (Leviton CPCBX-000), Add	*1,569.05*	
11 11 36 13-0065	EA	Dual Port, Electric Vehicle Charging Station, Gateway (Leviton evr-green® 4000 CPHD2-000) Note: 208 to 240 volt, 30 amperes, 1 phase.	7,821.67	534.92
		For Bollard Body (Leviton CPMBX-000), Add	*2,489.64*	
		For Bollard Cap (Leviton CPCAP-B), Add	*228.79*	
		For Wall Mounting Body (Leviton CPMEX-000), Add	*1,720.68*	
		For Wall Mounting Cap (Leviton CPCAP-W), Add	*228.79*	
		For Cord Management Kit (Leviton CPCBX-000), Add	*1,569.05*	
11 11 36 13-0066	EA	Bollard Mounting Body For Charging Station (Leviton CPMBX-000)	2,891.08	125.44
		For Cap, Add	*228.79*	
11 11 36 13-0067	EA	Wall Mounting Body For Charging Station (Leviton CPMEX-000)	1,921.40	66.24
		For Cap, Add	*228.79*	
11 11 36 13-0068	EA	Cord Management Kit For Charging Station (Leviton CPCBX-000)	1,669.41	33.42
		For Cap, Add	*228.79*	

11 12 Parking Control Equipment *(11 10)*

11 12 16 Parking Ticket Dispensers *(11 12)*

11 12 16 00-0001 Parking Ticket Dispensers *(11 12 16)*

11 12 16 00-0002	EA	Standard Parking Ticket Dispenser With Time/Date Stamp	12,164.95	203.40
11 12 16 00-0003	EA	Rate Computing Parking Ticket Dispenser With Printer	16,424.13	203.40

11 12 23 Parking Meters *(11 12)*

11 12 23 00-0001 Parking Meters *(11 12 23)*

11 12 23 00-0002	EA	Removal Of Parking Meter For Replacement Or Reinstall Existing Meter	233.65	

11 12 26 Parking Fee Collection Equipment *(11 12)*

11 12 26 13 Parking Fee Coin Collection Equipment *(11 12 26)*

11 12 26 13-0001 Parking Fee Collection Equipment *(11 12 26 13)*

11 12 26 13-0002	EA	Multiple Station Slot Box For Parking Fee Collection	2,875.83	68.92

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

11 12 33 Parking Gates *(11 12)*

11 12 33 13 Lift Arm Parking Gates *(11 12 33)*

11 12 33 13-0001 Barrier Parking Gate Operators *(11 12 33 13)*

11 12 33 13-0002 Barrier Parking Gate Operators *(11 12 33 13-0001)*

Note: Includes operator and barrier arm. Excludes access controls and concrete foundation.

11 12 33 13-0003	EA	12' Plastic Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator (DKS™ DoorKing® 1601-080)	7,335.37	564.00
		For 230/460 Volt AC, Add	*322.50*	
11 12 33 13-0004	EA	14' Wood Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator (DKS™ DoorKing® 1601-080)	7,310.27	564.00
		For 230/460 Volt AC, Add	*322.50*	
11 12 33 13-0005	EA	14' Aluminum Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator (DKS™ DoorKing® 1601-080)	7,628.19	564.00
		For 230/460 Volt AC, Add	*322.50*	
11 12 33 13-0006	EA	20' Three Piece Wood Arm, 1 HP, 115 Volt AC, Barrier Parking Gate Operator (DKS™ DoorKing® 1602-080)	10,784.14	564.00
		For 230/460 Volt AC, Add	*322.50*	
11 12 33 13-0007	EA	14' Wood Arm, 1/3 HP, 115 Volt AC, Barrier Parking Gate Operator With Two Built-In Vehicle Detectors (Federal APD G-90 CD)	9,905.55	564.00
11 12 33 13-0008	EA	14' Aluminum Arm, 1/3 HP, 115 Volt AC, Barrier Parking Gate Operator With Two Built-In Vehicle Detectors (Federal APD G-90 CD)	10,407.51	564.00

11 12 33 13-0009 Barrier Parking Gate Operators With Tire Shredding Traffic Control Spikes *(11 12 33 13-0001)*

Note: Includes operator, barrier arm and tire shredding traffic control spikes. Excludes access controls and concrete foundation.

11 12 33 13-0010	EA	14' Wood Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator With 6' Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603-080)	22,104.57	1,128.00
11 12 33 13-0011	EA	14' Wood Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator With 9' Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603-080)	25,843.93	1,128.00
11 12 33 13-0012	EA	14' Aluminum Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator With 6' Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603-080)	22,292.81	1,128.00
11 12 33 13-0013	EA	14' Aluminum Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator With 9' Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603-080)	26,032.17	1,128.00

11 12 33 13-0014 Barrier Parking Gate Operator Accessories *(11 12 33 13-0001)*

11 12 33 13-0015	EA	12' Plastic Replacement Arm For Barrier Parking Gate Operators	257.11	23.98
11 12 33 13-0016	EA	14' Wood Replacement Arm For Barrier Parking Gate Operators	232.01	23.98
11 12 33 13-0017	EA	14' Aluminum Replacement Arm For Barrier Parking Gate Operators	549.93	23.98
11 12 33 13-0018	EA	20' Three Piece Wood Replacement Arm For Barrier Parking Gate Operators	832.28	23.98
11 12 33 13-0019	EA	Folding Wood Replacement Arm For Barrier Parking Gate Operators	759.08	23.98
11 12 33 13-0020	EA	Folding Plastic Replacement Arm For Barrier Parking Gate Operators	759.08	23.98
11 12 33 13-0021	EA	Folding Aluminum Replacement Arm For Barrier Parking Gate Operators	926.40	23.98
11 12 33 13-0022	EA	Heater Kit For Barrier Parking Gate Operators (DKS™ DoorKing® 1601-092)	758.30	143.86
11 12 33 13-0023	EA	Fan Kit For Barrier Parking Gate Operators (DKS™ DoorKing® 1601-093)	758.30	143.86
11 12 33 13-0024	EA	Single Channel Detector Loop For Barrier Parking Gate Operators (DKS™ DoorKing® 9410-010)	752.93	
11 12 33 13-0025	EA	Two Channel Detector Loop For Barrier Parking Gate Operators (Federal APD DLD-10B)	1,802.99	
11 12 33 13-0026	EA	36" Tall, Gooseneck Style, Single Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls (Federal APD)	1,311.48	47.96
		Note: Includes mounting plate and hardware. Excludes concrete foundation.		

11 12 36 Tire Shredders *(11 12)*

11 12 36 00-0001 Tire Shredding Traffic Control Spikes *(11 12 36)*

11 12 36 00-0002 Flush Mount, Tire Shredding Traffic Control Spikes *(11 12 36 00-0001)*

11 12 36 00-0003	EA	6' Section, Flush Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1610-081)	3,207.19	383.63

11 12 36 00-0004 Surface Mount, Tire Shredding Traffic Control Spikes *(11 12 36 00-0001)*

11 12 36 00-0005	EA	3' Section With End Caps, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1610-088)	5,838.93	191.81
11 12 36 00-0006	EA	3' Add-On Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1610-087)	4,165.71	191.81

11 12 36 00-0007 Warning Signs And Signals For Tire Shredding Traffic Control Spikes *(11 12 36 00-0001)*

11 12 36 00-0008	EA	Warning Sign For Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1615)	2,590.94	71.93
		Note: Includes light and mounting post.		
11 12 36 00-0009	EA	Traffic Light Assembly For Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603)	2,095.10	95.90
		Note: Includes mounting post and hardware.		

11 13 Loading Dock Equipment *(11 10)*

Note: Includes all anchor bolts, drilling and fasteners.

11 13 13 Loading Dock Bumpers *(11 13)*

11 13 13 00-0001 Laminated Rubber Dock Bumpers *(11 13 13)*

11 13 13 00-0002 4-1/2" Projection, Laminated Rubber Dock Bumpers *(11 13 13 00-0001)*

11 13 13 00-0003	EA	14" x 6", 4-1/2" Projection, Laminated Rubber Dock Bumper	142.26	28.55
11 13 13 00-0004	EA	24" x 6", 4-1/2" Projection, Laminated Rubber Dock Bumper	175.69	28.55

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 13 13 00-0005	EA	36" x 6", 4-1/2" Projection, Laminated Rubber Dock Bumper	222.84	28.55
11 13 13 00-0006	EA	12" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	156.51	28.55
11 13 13 00-0007	EA	14" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	168.32	28.55
11 13 13 00-0008	EA	18" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	189.43	28.55
11 13 13 00-0009	EA	24" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	222.84	28.55
11 13 13 00-0010	EA	36" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	298.29	28.55
11 13 13 00-0011	EA	12" x 12", 4-1/2" Projection, Laminated Rubber Dock Bumper	175.37	28.55
11 13 13 00-0012	EA	12" x 14", 4-1/2" Projection, Laminated Rubber Dock Bumper	189.43	28.55
11 13 13 00-0013	EA	12" x 18", 4-1/2" Projection, Laminated Rubber Dock Bumper	229.55	28.55
11 13 13 00-0014	EA	12" x 24", 4-1/2" Projection, Laminated Rubber Dock Bumper	258.01	28.55
11 13 13 00-0015	EA	12" x 36", 4-1/2" Projection, Laminated Rubber Dock Bumper	350.39	28.55
11 13 13 00-0016	EA	11" x 20", 4-1/2" Projection, Laminated Rubber Dock Bumper	212.93	28.55
11 13 13 00-0017	EA	11" x 24", 4-1/2" Projection, Laminated Rubber Dock Bumper	246.02	28.55
11 13 13 00-0018	EA	11" x 36", 4-1/2" Projection, Laminated Rubber Dock Bumper	316.51	28.55
11 13 13 00-0019		6" Projection, Laminated Rubber Dock Bumpers *(11 13 13 00-0001)*		
11 13 13 00-0020	EA	12" x 10", 6" Projection, Laminated Rubber Dock Bumper	194.35	28.55
11 13 13 00-0021	EA	14" x 10", 6" Projection, Laminated Rubber Dock Bumper	206.02	28.55
11 13 13 00-0022	EA	18" x 10", 6" Projection, Laminated Rubber Dock Bumper	234.15	28.55
11 13 13 00-0023	EA	24" x 10", 6" Projection, Laminated Rubber Dock Bumper	276.99	28.55
11 13 13 00-0024	EA	36" x 10", 6" Projection, Laminated Rubber Dock Bumper	371.78	28.55
11 13 13 00-0025	EA	12" x 12", 6" Projection, Laminated Rubber Dock Bumper	220.25	28.55
11 13 13 00-0026	EA	14" x 12", 6" Projection, Laminated Rubber Dock Bumper	229.84	28.55
11 13 13 00-0027	EA	18" x 12", 6" Projection, Laminated Rubber Dock Bumper	267.88	28.55
11 13 13 00-0028	EA	24" x 12", 6" Projection, Laminated Rubber Dock Bumper	324.62	28.55
11 13 13 00-0029	EA	36" x 12", 6" Projection, Laminated Rubber Dock Bumper	483.51	28.55
11 13 13 00-0030	EA	11" x 20", 6" Projection, Laminated Rubber Dock Bumper	277.15	28.55
11 13 13 00-0031	EA	11" x 24", 6" Projection, Laminated Rubber Dock Bumper	315.19	28.55
11 13 13 00-0032	EA	11" x 36", 6" Projection, Laminated Rubber Dock Bumper	320.26	28.55
11 13 13 00-0033		Extruded Rubber Dock Bumpers *(11 13 13)*		
11 13 13 00-0034		1-3/4" Projection, Extruded Rubber Dock Bumpers *(11 13 13 00-0033)*		
11 13 13 00-0035	EA	12" x 2", 1-3/4" Projection, Extruded Rubber Dock Bumper	82.77	28.55
11 13 13 00-0036	EA	18" x 2", 1-3/4" Projection, Extruded Rubber Dock Bumper	87.47	28.55
11 13 13 00-0037	EA	24" x 2", 1-3/4" Projection, Extruded Rubber Dock Bumper	93.74	28.55
11 13 13 00-0038	EA	36" x 2", 1-3/4" Projection, Extruded Rubber Dock Bumper	100.00	28.55
11 13 13 00-0039		4" Projection, Extruded Rubber Dock Bumpers *(11 13 13 00-0033)*		
11 13 13 00-0040	EA	12" x 4-1/2", 4" Projection, Extruded Rubber Dock Bumper	107.34	28.55
11 13 13 00-0041	EA	18" x 4-1/2", 4" Projection, Extruded Rubber Dock Bumper	127.10	28.55
11 13 13 00-0042	EA	24" x 4-1/2", 4" Projection, Extruded Rubber Dock Bumper	132.79	28.55
11 13 13 00-0043	EA	36" x 4-1/2", 4" Projection, Extruded Rubber Dock Bumper	145.75	28.55
11 13 13 00-0044		6" Projection, Extruded Rubber Dock Bumpers *(11 13 13 00-0033)*		
11 13 13 00-0045	EA	12" x 6", 6" Projection, Extruded Rubber Dock Bumper	127.16	28.55
11 13 13 00-0046	EA	18" x 6", 6" Projection, Extruded Rubber Dock Bumper	153.79	28.55
11 13 13 00-0047	EA	24" x 6", 6" Projection, Extruded Rubber Dock Bumper	175.72	28.55
11 13 13 00-0048	EA	36" x 6", 6" Projection, Extruded Rubber Dock Bumper	217.57	28.55
11 13 13 00-0049		Molded Rubber Dock Bumpers *(11 13 13)*		
11 13 13 00-0050		Rectangular Molded Rubber Dock Bumpers *(11 13 13 00-0049)*		
11 13 13 00-0051	EA	18" x 8", 2" Projection, Rectangular Molded Rubber Dock Bumper	110.63	28.55
11 13 13 00-0052	EA	10" x 4-1/2", 3" Projection, Rectangular Molded Rubber Dock Bumper	98.53	28.55
11 13 13 00-0053	EA	20" x 4-1/2", 3" Projection, Rectangular Molded Rubber Dock Bumper	126.14	28.55
11 13 13 00-0054	EA	30" x 4-1/2", 3" Projection, Rectangular Molded Rubber Dock Bumper	153.98	28.55
11 13 13 00-0055	EA	24" x 12", 3" Projection, Rectangular Molded Rubber Dock Bumper	160.55	28.55
11 13 13 00-0056	EA	13" x 10", 4" Projection, Rectangular Molded Rubber Dock Bumper	122.97	28.55
11 13 13 00-0057	EA	18" x 10", 4" Projection, Rectangular Molded Rubber Dock Bumper	155.08	28.55
11 13 13 00-0058	EA	30" x 10", 4" Projection, Rectangular Molded Rubber Dock Bumper	221.19	28.55
11 13 13 00-0059	EA	13" x 12", 4" Projection, Rectangular Molded Rubber Dock Bumper	132.58	28.55
11 13 13 00-0060	EA	24" x 12", 4" Projection, Rectangular Molded Rubber Dock Bumper	191.30	28.55
11 13 13 00-0061	EA	18" x 18", 4" Projection, Rectangular Molded Rubber Dock Bumper	190.73	28.55
11 13 13 00-0062	EA	24" x 12", 6" Projection, Rectangular Molded Rubber Dock Bumper	281.20	28.55
11 13 13 00-0063		T And L Shaped Rubber Dock Bumpers *(11 13 13 00-0049)*		
11 13 13 00-0064	EA	22" x 22", 3" Projection, T Shaped Molded Rubber Dock Bumper	181.68	28.55
11 13 13 00-0065	EA	18" x 18", 4" Projection, L Shaped Molded Rubber Dock Bumper	170.31	28.55

11 13 16 Loading Dock Seals and Shelters *(11 13)*

11 13 16 13 Loading Dock Seals *(11 13 16)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 13 16 13-0001		Vinyl Loading Dock Seals *(11 13 16 13)*		
11 13 16 13-0002		Standard Vinyl Loading Dock Seals *(11 13 16 13-0001)*		
11 13 16 13-0003	LF	10" Projection, Standard, Vinyl Loading Dock Seal	105.34	28.55
11 13 16 13-0004	LF	11" Projection, Standard, Vinyl Loading Dock Seal	106.54	28.55
11 13 16 13-0005	LF	12" Projection, Standard, Vinyl Loading Dock Seal	107.73	28.55
11 13 16 13-0006	LF	13" Projection, Standard, Vinyl Loading Dock Seal	110.13	28.55
11 13 16 13-0007	LF	14" Projection, Standard, Vinyl Loading Dock Seal	112.53	28.55
11 13 16 13-0008	LF	15" Projection, Standard, Vinyl Loading Dock Seal	114.96	28.55
11 13 16 13-0009	LF	16" Projection, Standard, Vinyl Loading Dock Seal	117.39	28.55
11 13 16 13-0010	LF	17" Projection, Standard, Vinyl Loading Dock Seal	119.89	28.55
11 13 16 13-0011	LF	18" Projection, Standard, Vinyl Loading Dock Seal	122.39	28.55
11 13 16 13-0012	LF	19" Projection, Standard, Vinyl Loading Dock Seal	124.78	28.55
11 13 16 13-0013	LF	20" Projection, Standard, Vinyl Loading Dock Seal	127.18	28.55
11 13 16 13-0014	LF	22" Projection, Standard, Vinyl Loading Dock Seal	132.04	28.55
11 13 16 13-0015		8" Exposure Wear Pleats, Vinyl Loading Dock Seals *(11 13 16 13-0001)*		
11 13 16 13-0016	LF	10" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	119.59	28.55
11 13 16 13-0017	LF	11" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	120.79	28.55
11 13 16 13-0018	LF	12" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	121.99	28.55
11 13 16 13-0019	LF	13" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	124.42	28.55
11 13 16 13-0020	LF	14" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	126.85	28.55
11 13 16 13-0021	LF	15" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	129.25	28.55
11 13 16 13-0022	LF	16" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	131.64	28.55
11 13 16 13-0023	LF	17" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	134.07	28.55
11 13 16 13-0024	LF	18" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	136.51	28.55
11 13 16 13-0025	LF	19" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	138.90	28.55
11 13 16 13-0026	LF	20" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	141.37	28.55
11 13 16 13-0027	LF	22" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal	146.16	28.55
11 13 16 13-0028		4" Exposure Wear Pleats, Vinyl Loading Dock Seals *(11 13 16 13-0001)*		
11 13 16 13-0029	LF	10" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	127.18	28.55
11 13 16 13-0030	LF	11" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	128.41	28.55
11 13 16 13-0031	LF	12" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	129.65	28.55
11 13 16 13-0032	LF	13" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	132.04	28.55
11 13 16 13-0033	LF	14" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	134.44	28.55
11 13 16 13-0034	LF	15" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	136.87	28.55
11 13 16 13-0035	LF	16" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	139.30	28.55
11 13 16 13-0036	LF	17" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	141.70	28.55
11 13 16 13-0037	LF	18" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	144.10	28.55
11 13 16 13-0038	LF	19" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	146.53	28.55
11 13 16 13-0039	LF	20" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	148.96	28.55
11 13 16 13-0040	LF	22" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal	153.89	28.55
11 13 16 13-0041		Vinyl Loading Dock Seals With Drape Curtain *(11 13 16 13)*		
11 13 16 13-0042		Standard, Vinyl Loading Dock Seals With Drape Curtain *(11 13 16 13-0041)*		
11 13 16 13-0043	LF	10" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain	98.99	28.55
11 13 16 13-0044	LF	12" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain	100.87	28.55
11 13 16 13-0045	LF	14" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain	105.04	28.55
11 13 16 13-0046	LF	16" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain	109.15	28.55
11 13 16 13-0047	LF	18" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain	113.38	28.55
11 13 16 13-0048	LF	20" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain	117.49	28.55
11 13 16 13-0049	LF	22" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain	121.65	28.55
11 13 16 13-0050		8" Exposure Wear Pleats, Vinyl Loading Dock Seals With Drape Curtain *(11 13 16 13-0041)*		
11 13 16 13-0051	LF	10" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	112.46	28.55
11 13 16 13-0052	LF	12" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	114.40	28.55
11 13 16 13-0053	LF	14" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	118.57	28.55
11 13 16 13-0054	LF	16" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	122.74	28.55
11 13 16 13-0055	LF	18" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	126.85	28.55
11 13 16 13-0056	LF	20" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	131.02	28.55
11 13 16 13-0057	LF	22" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	135.13	28.55
11 13 16 13-0058		4" Exposure Wear Pleats, Vinyl Loading Dock Seals With Drape Curtain *(11 13 16 13-0041)*		
11 13 16 13-0059	LF	10" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	119.77	28.55
11 13 16 13-0060	LF	12" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	121.65	28.55
11 13 16 13-0061	LF	14" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	125.88	28.55
11 13 16 13-0062	LF	16" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	129.99	28.55
11 13 16 13-0063	LF	18" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	134.16	28.55
11 13 16 13-0064	LF	20" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	138.27	28.55
11 13 16 13-0065	LF	22" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain	142.49	28.55

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 13 16 23		**Loading Dock Shelters** *(11 13 16)*		
11 13 16 23-0001		Retractable Vinyl Loading Dock Shelter *(11 13 16 23)*		
11 13 16 23-0002	LF	Retractable Vinyl Dock Shelters, Scissor Arms	161.06	35.70
11 13 16 23-0003		Rigid Loading Dock Shelters *(11 13 16 23)*		
11 13 16 23-0004	LF	18" Projection, Rigid Loading Dock Shelter	124.59	34.27
11 13 16 23-0005	LF	24" Projection, Rigid Loading Dock Shelter	129.01	34.27
11 13 16 23-0006	LF	30" Projection, Rigid Loading Dock Shelter	134.05	35.70
11 13 16 23-0007	LF	36" Projection, Rigid Loading Dock Shelter	137.10	35.70
11 13 19		**Stationary Loading Dock Equipment** *(11 13)*		
11 13 19 13		**Loading Dock Levelers** *(11 13 19)*		
11 13 19 13-0001		Hydraulic Dock Levelers *(11 13 19 13)* Note: Excludes control panel, remote operator, and electrical wiring.		
11 13 19 13-0002		20,000 Lb. Hydraulic Dock Levelers *(11 13 19 13-0001)*		
11 13 19 13-0003	EA	6' x 6', 20,000 Lb. Hydraulic Dock Leveler	9,664.68	1,186.99
11 13 19 13-0004	EA	6' x 8', 20,000 Lb. Hydraulic Dock Leveler	10,336.23	1,318.89
11 13 19 13-0005	EA	6' x 10', 20,000 Lb. Hydraulic Dock Leveler	12,629.37	1,582.67
11 13 19 13-0006	EA	7' x 6', 20,000 Lb. Hydraulic Dock Leveler	10,275.64	1,318.89
11 13 19 13-0007	EA	7' x 8', 20,000 Lb. Hydraulic Dock Leveler	11,153.62	1,450.77
11 13 19 13-0008	EA	7' x 10', 20,000 Lb. Hydraulic Dock Leveler	13,376.08	1,714.55
11 13 19 13-0009		25,000 Lb. Hydraulic Dock Levelers *(11 13 19 13-0001)*		
11 13 19 13-0010	EA	6' x 6', 25,000 Lb. Hydraulic Dock Leveler	9,850.51	1,186.99
11 13 19 13-0011	EA	6' x 8', 25,000 Lb. Hydraulic Dock Leveler	10,534.44	1,318.89
11 13 19 13-0012	EA	6' x 10', 25,000 Lb. Hydraulic Dock Leveler	12,815.19	1,582.67
11 13 19 13-0013	EA	7' x 6', 25,000 Lb. Hydraulic Dock Leveler	10,463.23	1,318.89
11 13 19 13-0014	EA	7' x 8', 25,000 Lb. Hydraulic Dock Leveler	11,330.60	1,450.77
11 13 19 13-0015	EA	7' x 10', 25,000 Lb. Hydraulic Dock Leveler	13,738.89	1,714.55
11 13 19 13-0016		30,000 Lb. Hydraulic Dock Levelers *(11 13 19 13-0001)*		
11 13 19 13-0017	EA	6' x 6', 30,000 Lb. Hydraulic Dock Leveler	10,326.20	1,384.82
11 13 19 13-0018	EA	6' x 8', 30,000 Lb. Hydraulic Dock Leveler	10,987.71	1,582.67
11 13 19 13-0019	EA	6' x 10', 30,000 Lb. Hydraulic Dock Leveler	13,370.01	1,846.44
11 13 19 13-0020	EA	7' x 6', 30,000 Lb. Hydraulic Dock Leveler	10,987.71	1,582.67
11 13 19 13-0021	EA	7' x 8', 30,000 Lb. Hydraulic Dock Leveler	11,815.14	1,780.50
11 13 19 13-0022	EA	7' x 10', 30,000 Lb. Hydraulic Dock Leveler	14,197.43	1,912.38
11 13 19 13-0023		35,000 Lb. Hydraulic Dock Levelers *(11 13 19 13-0001)*		
11 13 19 13-0024	EA	6' x 6', 35,000 Lb. Hydraulic Dock Leveler	10,684.96	1,450.77
11 13 19 13-0025	EA	6' x 8', 35,000 Lb. Hydraulic Dock Leveler	11,349.12	1,648.60
11 13 19 13-0026	EA	6' x 10', 35,000 Lb. Hydraulic Dock Leveler	12,799.77	1,912.38
11 13 19 13-0027	EA	7' x 6', 35,000 Lb. Hydraulic Dock Leveler	11,348.46	1,648.60
11 13 19 13-0028	EA	7' x 8', 35,000 Lb. Hydraulic Dock Leveler	12,328.19	1,846.44
11 13 19 13-0029	EA	7' x 10', 35,000 Lb. Hydraulic Dock Leveler	14,767.20	1,978.33
11 13 19 13-0030		40,000 Lb. Hydraulic Dock Levelers *(11 13 19 13-0001)*		
11 13 19 13-0031	EA	6' x 6', 40,000 Lb. Hydraulic Dock Leveler	11,286.69	1,450.77
11 13 19 13-0032	EA	6' x 8', 40,000 Lb. Hydraulic Dock Leveler	11,950.85	1,648.60
11 13 19 13-0033	EA	6' x 10', 40,000 Lb. Hydraulic Dock Leveler	14,372.71	1,912.38
11 13 19 13-0034	EA	7' x 6', 40,000 Lb. Hydraulic Dock Leveler	11,950.19	1,648.60
11 13 19 13-0035	EA	7' x 8', 40,000 Lb. Hydraulic Dock Leveler	12,929.92	1,846.44
11 13 19 13-0036	EA	7' x 10', 40,000 Lb. Hydraulic Dock Leveler	15,368.93	1,978.33
11 13 19 13-0037		45,000 Lb. Hydraulic Dock Levelers *(11 13 19 13-0001)*		
11 13 19 13-0038	EA	6' x 6', 45,000 Lb. Hydraulic Dock Leveler	11,810.66	1,450.77
11 13 19 13-0039	EA	6' x 8', 45,000 Lb. Hydraulic Dock Leveler	12,485.38	1,714.55
11 13 19 13-0040	EA	6' x 10', 45,000 Lb. Hydraulic Dock Leveler	14,894.06	1,978.33
11 13 19 13-0041	EA	7' x 6', 45,000 Lb. Hydraulic Dock Leveler	12,485.38	1,714.55
11 13 19 13-0042	EA	7' x 8', 45,000 Lb. Hydraulic Dock Leveler	13,457.87	1,912.38
11 13 19 13-0043	EA	7' x 10', 45,000 Lb. Hydraulic Dock Leveler	15,879.73	2,044.27
11 13 19 13-0044		Manual Dock Levelers *(11 13 19 13)*		
11 13 19 13-0045		20,000 Lb. Manual Dock Levelers *(11 13 19 13-0044)*		
11 13 19 13-0046	EA	6' x 6', 20,000 Lb. Manual Dock Leveler	7,697.67	1,186.99
11 13 19 13-0047	EA	6' x 8', 20,000 Lb. Manual Dock Leveler	8,388.61	1,318.89
11 13 19 13-0048	EA	6' x 10', 20,000 Lb. Manual Dock Leveler	10,669.44	1,582.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 13 19 13-0049	EA	7' x 6', 20,000 Lb. Manual Dock Leveler	8,317.59	1,318.89
11 13 19 13-0050	EA	7' x 8', 20,000 Lb. Manual Dock Leveler	9,197.77	1,450.77
11 13 19 13-0051	EA	7' x 10', 20,000 Lb. Manual Dock Leveler	11,615.23	1,582.67
11 13 19 13-0052		**40,000 Lb. Manual Dock Levelers** *(11 13 19 13-0044)*		
11 13 19 13-0053	EA	6' x 6', 40,000 Lb. Manual Dock Leveler	9,500.20	1,318.89
11 13 19 13-0054	EA	6' x 8', 40,000 Lb. Manual Dock Leveler	10,162.73	1,450.77
11 13 19 13-0055	EA	6' x 10', 40,000 Lb. Manual Dock Leveler	11,067.15	1,714.55
11 13 19 13-0056	EA	7' x 6', 40,000 Lb. Manual Dock Leveler	10,162.73	1,450.77
11 13 19 13-0057	EA	7' x 8', 40,000 Lb. Manual Dock Leveler	11,547.63	1,582.67
11 13 19 13-0058	EA	7' x 10', 40,000 Lb. Manual Dock Leveler	13,582.27	1,846.44
11 13 19 13-0059		**Edge Of Dock Levelers** *(11 13 19 13)* Note: Mounted on face of dock, single torsion bar counter balance, includes bumpers.		
11 13 19 13-0060		**Hydraulic Edge Of Dock Levelers** *(11 13 19 13-0059)* Note: Excludes control panel, remote operator, and electrical wiring.		
11 13 19 13-0061	EA	66" Usable Width, 20,000 Lb. Edge Of Dock Leveler, Hydraulic (Vestil PE-2066)	4,604.91	434.28
11 13 19 13-0062	EA	72" Usable Width, 20,000 Lb. Edge Of Dock Leveler, Hydraulic (Vestil PE-2072)	4,923.33	434.28
11 13 19 13-0063	EA	66" Usable Width, 25,000 Lb. Edge Of Dock Leveler, Hydraulic (Vestil PE-2566)	4,877.25	434.28
11 13 19 13-0064	EA	72" Usable Width, 25,000 Lb. Edge Of Dock Leveler, Hydraulic (Vestil PE-2572)	5,314.38	434.28
11 13 19 13-0065	EA	66" Usable Width, 20,000 Lb. Conventional Trailer, HED Series Edge Of Dock Leveler, Hydraulic (DLM HED6620)	5,823.28	434.28
11 13 19 13-0066	EA	72" Usable Width, 20,000 Lb. Conventional Trailer, HED Series Edge Of Dock Leveler, Hydraulic (DLM HED7220)	6,139.57	434.28
11 13 19 13-0067		**Manual Edge Of Dock Levelers** *(11 13 19 13-0059)*		
11 13 19 13-0068	EA	66" Usable Width, 20,000 Lb. Edge Of Dock Leveler, Manual (Vestil FM-2066)	2,576.53	434.28
11 13 19 13-0069	EA	72" Usable Width, 20,000 Lb. Edge Of Dock Leveler, Manual (Vestil FM-2072)	2,768.36	434.28
11 13 19 13-0070	EA	66" Usable Width, 25,000 Lb. Edge Of Dock Leveler, Manual (Vestil FM-2566)	2,827.02	434.28
11 13 19 13-0071	EA	72" Usable Width, 25,000 Lb. Edge Of Dock Leveler, Manual (Vestil FM-2572)	2,970.87	434.28
11 13 19 13-0072	EA	66" Usable Width, 25,000 Lb. Conventional Trailer, Edge of Dock Leveler, Manual (Bluff Manufacturing 25EP66)	3,293.00	434.28
11 13 19 13-0073	EA	72" Usable Width, 25,000 Lb. Conventional Trailer, Edge of Dock Leveler, Manual (Bluff Manufacturing 25EP72)	3,710.42	434.28
11 13 19 13-0074	EA	78" Usable Width, 25,000 Lb. Conventional Trailer, Edge Of Dock Leveler, Manual (Bluff Manufacturing 25EP78)	4,017.51	434.28
11 13 19 13-0075	EA	72" Usable Width, 30,000 Lb. Conventional Trailer, Edge of Dock Leveler, Manual (Bluff Manufacturing 30EP72)	4,061.65	434.28
11 13 19 13-0076	EA	66" Usable Width, 20,000 Lb. Refrigerated Truck, Edge of Dock Leveler, Manual (Bluff Manufacturing 20EP66-R)	3,642.38	434.28
11 13 19 13-0077	EA	78" Usable Width, 30,000 Lb. Refrigerated Truck, Edge Of Dock Leveler, Manual (Bluff Manufacturing 30EP78-R)	4,916.72	434.28
11 13 19 13-0078	EA	72" Usable Width, 30,000 Lb. Refrigerated Truck, Edge Of Dock Leveler, Manual (Bluff Manufacturing 30EP72-R)	4,642.73	434.28
11 13 19 23		**Stationary Loading Dock Lifts** *(11 13 19)*		
11 13 19 23-0001		**Top Of Ground, Fixed Platform Lifts** *(11 13 19 23)*		
11 13 19 23-0002	EA	6' x 8', 5,500 Lb. Top Of Ground, Fixed Platform Lift	20,718.08	1,447.60
11 13 19 23-0003		**Pit Mounted, Fixed Platform Lifts** *(11 13 19 23)*		
11 13 19 23-0004	EA	6' x 8', 5,000 Lb. Fixed Platform Lift, Pit Mounted	13,629.46	1,318.89
11 13 19 23-0005	EA	6' x 8', 8,000 Lb. Fixed Platform Lift, Pit Mounted	22,854.56	1,318.89
11 13 19 23-0006	EA	7' x 12', 15,000 Lb. Fixed Platform Lift, Pit Mounted	39,667.87	2,110.22
11 13 19 23-0007	EA	8' x 20', 15,000 Lb. Fixed Platform Lift, Pit Mounted	43,011.82	3,033.44
11 13 19 26		**Loading Dock Truck Lifts** *(11 13 19)*		
11 13 19 26-0001		**Hydraulic Truck Lifts** *(11 13 19 26)*		
11 13 19 26-0002	EA	10' x 15', 60,000 Lb. Platform Truck Lift	34,224.74	1,978.33
11 13 19 26-0003	EA	10' x 20', 60,000 Lb. Platform Truck Lift	39,171.93	2,374.00
11 13 19 33		**Loading Dock Truck Restraints** *(11 13 19)*		
11 13 19 33-0001		**Truck Restraint System** *(11 13 19 33)*		
11 13 19 33-0002	EA	Electrical Operated Loading Dock Ground Mounted Vehicle Restraint (Serco SL-60) Note: Includes Integrated Control Panel & Automatic Light Communication Package, minimum 32,000 Lb. restraint capacity and Manufacturer's standard concrete anchor bolts and brackets for ground mounting to concrete apron.	11,438.50	479.64
11 13 19 33-0003	EA	Push Button Rotating Hook Trailer Restraint With Automatic Lights (Kelley Star 4) Note: Includes push button controls, warning lights, alarms, minimum 32,000 Lb. restraint capacity, all mounting plates, bolts, welds, warning signs, gasketed weatherproof box for controls, 120 V UL listed.	11,950.74	479.64
11 13 19 33-0004	EA	Truck Restraint System (Poweramp Powerstop AAL) Note: Includes push button controls, warning lights, alarms, 30,000 Lb. holding force, all mounting plates, bolts, welds, warning signs, gasketed weatherproof box for controls, 120 V UL listed.	8,401.56	479.64
11 13 23		**Portable Dock Equipment** *(11 13)*		
11 13 23 23		**Portable Dock Platforms** *(11 13 23)*		
11 13 23 23-0001	EA	6' x 6', 5,000 Lb. Capacity Portable Platform Lift	17,020.60	119.88

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

11 13 26 Loading Dock Lights *(11 13)*

11 13 26 00-0001 Communication Lights *(11 13 26)*

11 13 26 00-0002	EA	Console Controlled, Dock Communication Light, Stop And Go Red Light Style, 12 Or 24 Volt DC Or 115 Volt AC Note: Excludes control console.	394.58	84.75
11 13 26 00-0003	EA	Toggle Switch Controlled, Dock Communication Light, Stop And Go Red Light Style, With Solid State Flasher, 12 Or 24 Volt DC Or 115 Volt AC	498.89	84.75
11 13 26 00-0004	EA	Dock Guide Light For Truck Backing	208.37	67.80

11 13 26 00-0005 Communication Lights Controls *(11 13 26)*

11 13 26 00-0006	EA	Dock Communication Lights Control Console For Up To Two Docks	404.81	113.00

11 13 26 00-0007 Loading Dock Lights *(11 13 26)*

11 13 26 00-0008 Incandescent Loading Dock Lights *(11 13 26 00-0007)*

11 13 26 00-0009	EA	24" Long, Single Arm Loading Dock Light, 300W Incandescent	443.82	113.00
11 13 26 00-0010	EA	40" Long, Dual Arm Loading Dock Light, 300W Incandescent	393.92	113.00
11 13 26 00-0011	EA	60" Long, Dual Arm Loading Dock Light, 300W Incandescent	519.81	113.00

11 13 26 00-0012 Metal Halide Loading Dock Lights *(11 13 26 00-0007)*

11 13 26 00-0013	EA	24" Long, Single Arm Loading Dock Light, 100W Metal Halide	616.31	113.00
11 13 26 00-0014	EA	40" Long, Dual Arm Loading Dock Light, 100W Metal Halide	675.45	113.00
11 13 26 00-0015	EA	60" Long, Dual Arm Loading Dock Light, 100W Metal Halide	722.74	113.00

11 13 26 00-0016 Quartz Halogen Loading Dock Lights *(11 13 26 00-0007)*

11 13 26 00-0017	EA	24" Long, Single Arm Loading Dock Light, 500W Quartz Halogen	387.27	113.00
11 13 26 00-0018	EA	40" Long, Dual Arm Loading Dock Light, 500W Quartz Halogen	424.69	113.00
11 13 26 00-0019	EA	60" Long, Dual Arm Loading Dock Light, 500W Quartz Halogen	456.62	113.00

11 14 Pedestrian Control Equipment *(11 10)*

11 14 13 Pedestrian Gates *(11 14)*

11 14 13 16 Rotary Gates *(11 14 13)*

11 14 13 16-0001 Access Control Indoor Or Outdoor Impenetrability *(11 14 13 16)*

11 14 13 16-0002 Mechanical *(11 14 13 16-0001)*

11 14 13 16-0003 Galvanized Steel *(11 14 13 16-0002)*

11 14 13 16-0004	EA	One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Galvanized Steel	13,827.22	1,910.36
11 14 13 16-0005	EA	One-Way, Single 7' High Exit Rotary Gate, 4 Rotor Sections, Galvanized Steel	15,556.43	1,910.36
11 14 13 16-0006	EA	One-Way, "Handicapped" 7' High Exit Rotary Gate, 4 Rotor Sections, Galvanized Steel	30,774.27	2,850.15
11 14 13 16-0007	EA	One-Way, Double 7' High Exit Rotary Gate, 3 Or 4 Rotor Sections, Galvanized Steel	29,820.66	2,850.15

11 14 13 16-0008 Powder Coated Steel *(11 14 13 16-0002)*

11 14 13 16-0009	EA	One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Powder Coated Steel	15,578.68	1,910.36
11 14 13 16-0010	EA	One-Way, Single 7' High Exit Rotary Gate, 4 Rotor Sections, Powder Coated Steel	17,241.14	1,910.36
11 14 13 16-0011	EA	One-Way, "Handicapped" 7' High Exit Rotary Gate, 3 Rotor Sections, Powder Coated Steel	36,213.02	2,850.15
11 14 13 16-0012	EA	One-Way, Double 7' High Exit Rotary Gate, 3 Rotor Sections, Powder Coated Steel	32,694.20	2,850.15

11 14 13 16-0013 Anodized Aluminum *(11 14 13 16-0002)*

11 14 13 16-0014	EA	One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	16,338.39	1,910.36
11 14 13 16-0015	EA	One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Complete Anodized Aluminum	27,975.61	1,910.36
11 14 13 16-0016	EA	One-Way, Double 7' High Exit Rotary Gate, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	32,554.34	2,850.15
11 14 13 16-0017	EA	One-Way, Double 7' High Exit Rotary Gate, 3 Rotor Sections, Complete Anodized Aluminum	54,474.65	2,850.15

11 14 13 16-0018 Stainless Steel *(11 14 13 16-0002)*

11 14 13 16-0019	EA	One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Stainless Steel	25,540.73	1,910.36
11 14 13 16-0020	EA	One-Way, Single 7' High Exit Rotary Gate, 4 Rotor Sections, Stainless Steel	28,611.35	1,910.36
11 14 13 16-0021	EA	One-Way, "Handicapped" 7' High Exit Rotary Gate, 3 Rotor Sections, Stainless Steel	40,946.11	2,850.15
11 14 13 16-0022	EA	One-Way, Double 7' High Exit Rotary Gate, 3 Rotor Sections, Stainless Steel	50,927.22	2,850.15

11 14 13 16-0023 Transparent *(11 14 13 16-0002)*

11 14 13 16-0024	EA	One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Transparent	50,226.51	1,910.64

11 14 13 16-0025 Mechanical Options *(11 14 13 16-0001)*

11 14 13 16-0026	EA	Out-of-Use Lock Option, Add	270.19	
11 14 13 16-0027	EA	Heel Protector (Each Heel Protector), Add	190.72	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 14 13 16-0028		Electrical, One-Way *(11 14 13 16-0001)*		
11 14 13 16-0029		Galvanized Steel *(11 14 13 16-0028)*		
11 14 13 16-0030	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel	14,593.28	1,910.36
11 14 13 16-0031	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Galvanized Steel	16,325.68	1,910.36
11 14 13 16-0032	EA	One-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel	33,635.10	2,850.15
11 14 13 16-0033	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel	31,057.17	2,850.15
11 14 13 16-0034	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Galvanized Steel	33,635.10	2,850.15
11 14 13 16-0035		Powder Coated Steel *(11 14 13 16-0028)*		
11 14 13 16-0036	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel	16,341.57	1,910.36
11 14 13 16-0037	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Powder Coated Steel	18,277.40	1,910.36
11 14 13 16-0038	EA	One-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel	44,789.15	2,850.15
11 14 13 16-0039	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel	33,946.61	2,850.15
11 14 13 16-0040	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Powder Coated Steel	36,530.89	2,850.15
11 14 13 16-0041		Anodized Aluminum *(11 14 13 16-0028)*		
11 14 13 16-0042	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	16,659.44	1,910.36
11 14 13 16-0043	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	17,644.84	1,910.36
11 14 13 16-0044	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Complete Anodized Aluminum	28,929.22	1,910.36
11 14 13 16-0045	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	34,305.80	2,850.15
11 14 13 16-0046	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	38,085.28	2,850.15
11 14 13 16-0047	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Complete Anodized Aluminum	56,124.40	2,850.15
11 14 13 16-0048		Stainless Steel *(11 14 13 16-0028)*		
11 14 13 16-0049	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel	27,145.97	1,910.36
11 14 13 16-0050	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Stainless Steel	29,021.40	1,910.36
11 14 13 16-0051	EA	One-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel	46,909.35	2,850.15
11 14 13 16-0052	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel	53,378.00	2,850.15
11 14 13 16-0053	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Stainless Steel	58,778.61	2,850.15
11 14 13 16-0054		Transparent *(11 14 13 16-0028)*		
11 14 13 16-0055	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Arms	45,849.44	1,910.64
11 14 13 16-0056	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Transparent Arms	48,506.83	1,910.64
11 14 13 16-0057	EA	One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Panels	49,667.06	1,910.64
11 14 13 16-0058	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Arms	81,633.47	2,850.15
11 14 13 16-0059	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Transparent Arms	86,751.17	2,850.15
11 14 13 16-0060		Electrical, Two-Way *(11 14 13 16-0001)*		
11 14 13 16-0061		Galvanized Steel *(11 14 13 16-0060)*		
11 14 13 16-0062	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel	15,699.47	1,910.36
11 14 13 16-0063	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Galvanized Steel	17,482.72	1,910.36
11 14 13 16-0064	EA	Two-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel	39,712.77	2,850.15
11 14 13 16-0065	EA	Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel	33,031.14	2,850.15
11 14 13 16-0066		Powder Coated Steel *(11 14 13 16-0060)*		
11 14 13 16-0067	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel	17,311.07	1,910.36
11 14 13 16-0068	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Powder Coated Steel	19,358.16	1,910.36
11 14 13 16-0069	EA	Two-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel	45,749.12	2,850.15
11 14 13 16-0070	EA	Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel	35,936.47	2,850.15
11 14 13 16-0071		Anodized Aluminum *(11 14 13 16-0060)*		
11 14 13 16-0072	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	17,749.73	1,910.36
11 14 13 16-0073	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	18,690.63	1,910.36
11 14 13 16-0074	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Complete Anodized Aluminum	30,197.52	1,910.36
11 14 13 16-0075	EA	Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	36,527.71	2,850.15
11 14 13 16-0076	EA	Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Complete Anodized Aluminum	58,187.37	2,850.15
11 14 13 16-0077		Stainless Steel *(11 14 13 16-0060)*		
11 14 13 16-0078	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel	28,220.37	1,910.36
11 14 13 16-0079	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Stainless Steel	30,127.59	1,910.36
11 14 13 16-0080	EA	Two-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel	47,697.66	2,850.15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 14 13 16-0081	EA	Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel	54,967.35	2,850.15
11 14 13 16-0082	EA	Two-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Stainless Steel	60,971.92	2,850.15
11 14 13 16-0083		Transparent *(11 14 13 16-0060)*		
11 14 13 16-0084	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Arms	46,771.26	1,910.64
11 14 13 16-0085	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Transparent Arms	49,269.72	1,910.64
11 14 13 16-0086	EA	Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Panels	50,703.32	1,910.64
11 14 13 16-0087	EA	Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Arms	83,572.47	2,850.15
11 14 13 16-0088	EA	One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Transparent Arms	88,340.52	2,850.15
11 14 13 16-0089		Electrical Options *(11 14 13 16-0001)*		
11 14 13 16-0090	EA	Additional Set Of Electric Controls, Per Rotor, Add	1,058.51	
11 14 13 16-0091	EA	Indicator Lights, Set, Red/Green, Per Controlled Direction, Add	743.82	
11 14 13 16-0092	EA	Time-Out-Relay, Per Controlled Direction	244.76	
11 14 13 16-0093	EA	Pulse-Relay, Per Controlled Direction	244.76	
11 14 13 16-0094	EA	Pushbutton, Per Controlled Direction	193.90	
11 14 13 16-0095	EA	Heel Protectors, (Per Heel Protector), Add	190.72	
11 14 13 16-0096	EA	Card Reader Mounting Pad, Per Reader	174.83	
11 14 13 16-0097	EA	Hydraulic Speed Control (Per Rotor), Add	4,440.64	
11 14 13 16-0098		Relocate Rotary Gate *(11 14 13 16-0001)*		
11 14 13 16-0099	EA	Relocate Rotary Gate	5,611.61	
11 14 13 19		**Turnstiles** *(11 14 13)*		
11 14 13 19-0001		Turnstiles *(11 14 13 19)*		
11 14 13 19-0002	EA	24" Diameter Manual Turnstile, Three Arm, Two Way	3,028.62	538.71
11 14 13 19-0003	EA	24" Diameter Manual Turnstile, Three Arm, Two Way With Counter	3,923.66	538.71
11 14 16		**Pedestrian Control Devices** *(11 14)*		
11 14 16 00-0001		Retractable Barrier *(11 14 16)*		
11 14 16 00-0002	EA	Wall Mounted, Retractable Belt Barrier With Receiver; 6-1/2' (WG269387BK)	102.44	21.58
11 14 16 00-0003	EA	Wall Mounted, Retractable Belt Barrier With Receiver; 10' (WGB2093791)	186.70	21.58
11 14 16 00-0004	EA	Wall Mounted, Retractable Belt Barrier With Receiver; 15' (WGB2093770)	228.84	21.58
11 14 16 00-0005	EA	Wall Mounted, Retractable Belt Barrier With Receiver; 30' (WGB2093771)	376.31	21.58

11 80 Facility Maintenance and Operation Equipment *(11)*

11 81 Maintenance Equipment *(11 80)*

11 81 29 Facility Fall Protection *(11 81)*

11 81 29 00-0001		Safety And Tie-Back Anchors *(11 81 29)* Note: One cut sheet charge required per manufacturer order. Excludes flashing and testing by engineer after installation. See CSI section 01 22 20 00-0058 for engineering testing and inspection.		
11 81 29 00-0002		Roof Mounted, Safety And Tie-Back Anchors *(11 81 29 00-0001)* Note: Includes up to 10" high, 0.216" thick hollow structural section tube, 1018 steel forged pad eye, 8" x 8" x 1/2" base plate and hot-dipped galvanized finish.		
11 81 29 00-0003	EA	Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Mechanically Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor) Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.	873.36	107.13
		For Stainless Steel Pad Eye, Add	*40.00*	
		For Foam Insulation Filled HSS Tube, Add	*10.00*	
11 81 29 00-0004	EA	Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Epoxy Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor) Note: Includes drilling in concrete and adhesive anchor systems.	751.54	107.13
		For Stainless Steel Pad Eye, Add	*40.00*	
		For Foam Insulation Filled HSS Tube, Add	*10.00*	
11 81 29 00-0005	EA	Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Welded In Place, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor)	526.83	89.58
		For Stainless Steel Pad Eye, Add	*40.00*	
		For Foam Insulation Filled HSS Tube, Add	*10.00*	
11 81 29 00-0006		Wall Mounted, Safety And Tie-Back Anchor *(11 81 29 00-0001)* Note: Includes 1018 steel forged pad eye, 10" x 4" x 1/2" base plate and hot-dipped galvanized finish.		
11 81 29 00-0007	EA	Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Mechanically Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor) Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.	617.55	107.13
		For Stainless Steel Pad Eye, Add	*40.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 81 29 00-0008	EA	Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Epoxy Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor) Note: Includes drilling in concrete and adhesive anchor systems.	557.53	107.13
		For Stainless Steel Pad Eye, Add	*40.00*	
11 81 29 00-0009	EA	Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Welded In Place, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor)	462.45	89.58
		For Stainless Steel Pad Eye, Add	*40.00*	
11 81 29 00-0010		Safety And Tie-Back Anchor Accessories *(11 81 29 00-0001)*		
11 81 29 00-0011	EA	Mandatory Cut Sheets For Safety And Tie-Back Anchors (Summit Anchor) Note: One cut sheet required per order.	468.24	
11 81 29 00-0012		Ladder Safety And Fall Protection *(11 81 29)*		
11 81 29 00-0013	EA	Galvanized Standard Top Bracket With Mounting Hardware (Captial Safety Group-USA Lad-Saf™ 6116280)	310.03	19.76
11 81 29 00-0014	EA	Galvanized 1x7 Cable, 3/8" 24' Long (Captial Safety Group-USA Lad-Saf™ 6110024)	46.74	2.88
11 81 29 00-0015	EA	Galvanized 1x7 Cable, 3/8" 30' Long (Captial Safety Group-USA Lad-Saf™ 6110030)	58.42	7.19
11 81 29 00-0016	EA	Galvanized 1x7 Cable, 3/8" 40' Long (Captial Safety Group-USA Lad-Saf™ 6110040)	77.90	4.79
11 81 29 00-0017	EA	Galvanized 1x7 Cable, 3/8" 50' Long (Captial Safety Group-USA Lad-Saf™ 6110050)	97.37	5.99
11 81 29 00-0018	EA	Non-metallic Cable Guide With Mounting Hardware (Captial Safety Group-USA Lad-Saf™ 6110400)	63.87	4.49
11 81 29 00-0019	EA	Flexible Cable Sleeve (Captial Safety Group-USA Lad-Saf™ 6160054)	596.39	11.98
11 81 29 00-0020	EA	Galvanized Standard Bottom Bracket (Captial Safety Group-USA Lad-Saf™ 6100090)	142.64	11.86
11 81 29 00-0021		Fall-Arrest Systems *(11 81 29)*		
11 81 29 00-0022		Horizontal *(11 81 29 00-0021)*		
11 81 29 00-0023	LF	Trolley Rail Fall Arrest System Note: Price per LF of trolley rail. Includes engineering, certification, design, fabrication, delivery, installation, training materials, equipment and five year warranty.	860.17	57.47
11 81 29 00-0024		Anchor Points *(11 81 29 00-0021)*		
11 81 29 00-0025	EA	Roof Anchor, 16" x 16" Base With 12" High Post Note: Guardian CD-12 series	705.06	
11 81 29 00-0026	EA	Roof Anchor, 12" x 12" Base With 18" High Post Note: Guardian CD-18 series	821.72	
11 81 29 00-0027	EA	Bolt On Roof Anchor Note: Guardian CD-1-B series	315.80	
11 81 29 00-0028	EA	Fall Arrest Anchor Attachment To 2" x 8" Stud Note: Super Anchor ARS 2x8	151.71	
11 81 29 00-0029	EA	Fall Arrest Anchor Attachment To 2" x 12" Stud Note: Super Anchor ARS 2x12	176.56	

11 82 Facility Solid Waste Handling Equipment *(11 80)*

11 82 19 Packaged Incinerators *(11 82)*

11 82 19 00-0001		Electric Incinerator *(11 82 19)*		
11 82 19 00-0002	EA	Electric Package Incinerator, 100 Lb./Hour	43,100.50	1,160.33
11 82 19 00-0003	EA	Electric Package Incinerator, 400 Lb./Hour	88,190.02	2,320.66
11 82 19 00-0004	EA	Electric Package Incinerator, 1,000 Lb./Hour	298,223.36	3,480.99
11 82 19 00-0005		Medical Waste Incinerator *(11 82 19)*		
11 82 19 00-0006	EA	Medical Waste Incinerator, 25 Lb./Hour Size 2'-7" x 4'-0"	23,610.55	2,320.66
11 82 19 00-0007	EA	Medical Waste Incinerator, 50 Lb./Hour Size 2'-11" x 4'-11"	45,250.78	2,320.66
11 82 19 00-0008	EA	Medical Waste Incinerator, 75 Lb./Hour Size 3'-8" x 5'-0"	61,374.09	4,641.32
11 82 19 00-0009	EA	Medium Waste Incinerator, 100 Lb./Hour Size 3'-8" x 6'-0"	89,787.90	4,641.32

11 82 26 Facility Waste Compactors *(11 82)*

11 82 26 00-0001		Waste Compactors *(11 82 26)*		
11 82 26 00-0002		110 Volt Compactors *(11 82 26 00-0001)*		
11 82 26 00-0003	EA	Waste Compactor, 110 Volt At 75 Lb./Hour	23,538.23	639.53
11 82 26 00-0004	EA	Waste Compactor, 110 Volt At 250 Lb./Hour	29,582.51	1,534.85
11 82 26 00-0005		230 Volt Compactors *(11 82 26 00-0001)*		
11 82 26 00-0006	EA	Waste Compactor, 230 Volt At 600 Lb./Hour Hand Fed	29,525.21	2,046.48
11 82 26 00-0007	EA	Waste Compactor, 230 Volt At 600 Lb./Hour Chute Fed	33,292.85	2,686.00
11 82 26 00-0008		KPAC Trash Compactors *(11 82 26)*		
11 82 26 00-0009		KPAC Trash Compactors Base Models *(11 82 26 00-0008)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 82 26 00-0010	EA	KP1SC-10-15 (10-15-CY) Self-Contained Solid Waste Compactor, Height 90" / 10'-141"/11'-147"/12'-153"/13'-165"/14'-171"/15'-177"	41,806.25	
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)		
		For 78" OAH Extra Low-Profile, Add	*3,180.15*	
11 82 26 00-0011	EA	KP1SC-21 (21-CY) Self-Contained Solid Waste Compactor, Height 90" / 219"	41,806.25	
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)		
		For 78" OAH Extra Low-Profile, Add	*3,180.15*	
11 82 26 00-0012	EA	KP1SC-25 (25-CY) Self-Contained Solid Waste Compactor, Height 90" / 249"	41,806.25	
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)		
		For 78" OAH Extra Low-Profile, Add	*3,180.15*	
11 82 26 00-0013	EA	KP1SC-19 (19-CY) Self-Contained Solid Waste Compactor, Height 102" / 183"	43,565.93	
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)		
		For 78" OAH Extra Low-Profile, Add	*3,180.15*	
11 82 26 00-0014	EA	KP1SC-23 (23-CY) Self-Contained Solid Waste Compactor, Height 102" / 213"	43,565.93	
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)		
		For 78" OAH Extra Low-Profile, Add	*3,180.15*	
11 82 26 00-0015	EA	KP1SC-28 (28-CY) Self-Contained Solid Waste Compactor, Height 102" / 243"	43,565.93	
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)		
		For 78" OAH Extra Low-Profile, Add	*3,180.15*	
11 82 26 00-0016	EA	KP1SC-33 (33-CY) Self-Contained Solid Waste Compactor, Height 102" / 273"	43,565.93	
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)		
		For 78" OAH Extra Low-Profile, Add	*3,180.15*	

11 82 26 00-0017 KPAC Trash Compactors Optional Models *(11 82 26 00-0008)*

11 82 26 00-0018	EA	KP2SC-20 (20-CY) Self-Contained Solid Waste Compactor, Height 102" / 189"	44,240.13
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)	
11 82 26 00-0019	EA	KP2SC-25 (25-CY) Self-Contained Solid Waste Compactor, Height 102" / 219"	45,753.88
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)	
11 82 26 00-0020	EA	KP2SC-30 (30-CY) Self-Contained Solid Waste Compactor, Height 102" / 249"	47,341.83
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)	
11 82 26 00-0021	EA	KP2SC-35 (35-CY) Self-Contained Solid Waste Compactor, Height 102" / 279"	48,974.31
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)	
11 82 26 00-0022	EA	KP2SC-21-35 (21-35-CY) Self-Contained Solid Waste Compactor, Height 102" Special Lengths	48,974.31
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)	
11 82 26 00-0023	EA	KP2SC-20-30 (20-30-CY) Self-Contained Solid Waste Compactor, Height 90" Low Profile	50,882.40
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)	
11 82 26 00-0024	EA	KP2SC-15-20 (15-20-CY) Self-Contained Solid Waste Compactor, Height 78" Extra Low Profile	51,518.43
		Note: 10 HP, 3 Phase, 208/230/460 Trivolt Power (Parts Included For Conversion To 208 Or 460)	

11 82 26 00-0025 KPAC Trash Compactors Special Packages *(11 82 26 00-0008)*

11 82 26 00-0026	EA	KP2SC-35 DENEVE Self-Contained Solid Waste Compactor	100,032.68
		Note: Includes dock fed, single front door, 3 Phase, 10 HP, non-drip QD at dock, pressure gauge at controls, channel rails and stops, hilti stainless steel anchors 5/8" x 6", 40" hose stand, push plate, (17x44x3/8), polyurethan wheels, removable front panels, beige with optional colors.	
11 82 26 00-0027	EA	KP2SC-35 LUSKIN Self-Contained Solid Waste Compactor	125,986.94
		Note: Includes rhs hooper, 3 Phase, 10 HP, non-drip QDs, pressure gauge at power pack, channel rails and stops, hilti stainless steel anchors 5/8" x 6", hose stand, push plate (17x44x3/8), polyurethan wheels, removable front panels, Perkins D7420 lift-system for 10' high ceilings, compatible with rubbermaid 1315 1 yard carts only, (2) WG11000 winch(s), (2) mounting brackets, compactor beige with optional colors. Separate power for Perkins lift-system in lieu of compactor's power pack. Additional power disconnect for winch required.	

11 82 26 00-0028 KPAC Trash Compactors Understructures *(11 82 26 00-0008)*

11 82 26 00-0029	EA	Bay Area Designs Understructure	2,014.10

11 82 26 00-0030 KPAC Trash Compactors Enclosures (Doghouses) Factory Installed *(11 82 26 00-0008)*

Note: With interlock system

11 82 26 00-0031	EA	Left Or Right-Hand Side Door Full Enclosure (Low Profile)	5,232.41
		Note: Factory Installed With Interlock System	
11 82 26 00-0032	EA	Left Or Right-Hand Side Door Full Enclosure (Standard Height)	5,232.41
		Note: Factory Installed With Interlock System	
11 82 26 00-0033	EA	Single Front Door Full Enclosure (Low Profile)	7,140.50
		Note: Factory Installed With Interlock System	
11 82 26 00-0034	EA	Single Front Door Full Enclosure (Standard Height)	7,140.50
		Note: Factory Installed With Interlock System	
11 82 26 00-0035	EA	2-Front Doors Full Enclosure (Low Profile)	5,484.70
		Note: Factory Installed With Interlock System	
11 82 26 00-0036	EA	2-Front Doors Full Enclosure (Standard Height)	5,484.70
		Note: Factory Installed With Interlock System	
11 82 26 00-0037	EA	Two Side Doors Full Enclosure (Low Profile)	5,927.80
		Note: Factory Installed With Interlock System	
11 82 26 00-0038	EA	Two Side Doors Full Enclosure (Standard Height)	5,927.80
		Note: Factory Installed With Interlock System	
11 82 26 00-0039	EA	Angled Dock Hopper With Steel Lids (Barn Door Style)	8,823.86
		Note: Factory Installed With Interlock System	

11 82 26 00-0040 KPAC Trash Compactors Hoppers Factory Installed *(11 82 26 00-0008)*

11 82 26 00-0041	EA	Top Load Hopper (Chute Feed From Above)	4,057.87
		Note: Factory Installed	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 82 26 00-0042	EA	Rear Feed Hopper Note: Factory Installed	5,011.92	
11 82 26 00-0043	EA	Left Or Right-Side Hopper Note: Factory Installed	4,083.31	
11 82 26 00-0044	EA	Dock Hopper With Gates And Interlock System Note: Factory Installed	7,801.97	
11 82 26 00-0045		KPAC Trash Compactors Power Pack Options Factory Installed *(11 82 26 00-0008)*		
11 82 26 00-0046	EA	For No Power Option, Deduct	-6,118.59	
11 82 26 00-0047	EA	For 10 HP, Single Phase, 220 Volt, Add	2,660.73	
11 82 26 00-0048	EA	For 5 HP, Single Phase, 220 Volt, Add	2,609.84	
11 82 26 00-0049	EA	For Power Pack Hood Painted Color Other Than Black (White Rec For Desert Environment)	159.01	
11 82 26 00-0050		KPAC Trash Compactors Power Pack Photo Eye Options Factory Installed *(11 82 26 00-0008)*		
11 82 26 00-0051	EA	Photo Eye 3 Position Switch Note: Factory Installed	1,585.83	
11 82 26 00-0052	EA	Photo Eye 3 Position Switch, Lights, Siren, Alarm, And Auto-Shutdown Note: Factory Installed	3,133.51	
11 82 26 00-0053		KPAC Trash Compactors Remote Station Controls *(11 82 26 00-0008)*		
11 82 26 00-0054	EA	Remote Station Controls (12 Ft. Sealtite Standard Length)	657.23	
11 82 26 00-0055	EA	Steel Protector And Stand For Remote Station Controls	455.82	
11 82 26 00-0056		KPAC Trash Compactors Pressure Gauges And Miscellaneous Warning Options *(11 82 26 00-0008)*		
11 82 26 00-0057	EA	10 HP Pressure Gauge Mounted On Power Pack	324.38	
11 82 26 00-0058	EA	10 HP Pressure Gauge Mounted On Controls	901.04	
11 82 26 00-0059	EA	Full Light	784.44	
11 82 26 00-0060	EA	Low Oil Sensor Shutdown	1,674.88	
11 82 26 00-0061	EA	Oil Level Switch	519.42	
11 82 26 00-0062		KPAC Trash Compactors Miscellaneous Options *(11 82 26 00-0008)*		
11 82 26 00-0063	EA	Close Door Activation	371.02	
11 82 26 00-0064	EA	Push Plate (17" X 44"X 3/8")	636.03	
11 82 26 00-0065	EA	Polyurethane Wheels (Front And Rear)	4,844.43	
11 82 26 00-0066	EA	Steel Wheels At 8" Each	265.01	
11 82 26 00-0067	EA	Steel Wheels At 6" Each	307.41	
11 82 26 00-0068	EA	Hinged/Sealed Lockable Clean-Out Door For Cylinder Compartment	3,657.17	
11 82 26 00-0069	EA	Removable Panels For Cylinder Steam-Cleaning	604.23	
11 82 26 00-0070	EA	Full Seal Support Weld On Rear Door	455.82	
11 82 26 00-0071	EA	Biodegradeable Hydraulic Fluid	583.03	
11 82 26 00-0072		KPAC Trash Compactors Guide Islands And Channels *(11 82 26 00-0008)*		
11 82 26 00-0073	EA	Guide Islands With Stops, 35.5" Wide	1,390.79	
11 82 26 00-0074	EA	10 Ft Angle Iron And Stops	1,378.06	
11 82 26 00-0075	EA	Channel Rails, Butterfly Opening With Stops And Guide Alignment Plates (Yellow)	3,710.18	
11 82 26 00-0076		KPAC Trash Compactors Color Customer Choice *(11 82 26 00-0008)* Note: Standard colors included in base task; primer only, beige, brown, gray, green and blue.		
11 82 26 00-0077	EA	Stericycle Blue-Grn	159.01	
11 82 26 00-0078	EA	Optional Colors	318.02	
11 82 26 00-0079		KPAC Trash Compactors Odor Control Systems *(11 82 26 00-0008)*		
11 82 26 00-0080	MO	Odor Control System, One Location / Up To Three (3) Nozzles Note: Twelve (12) month minimum.	371.02	
11 82 26 00-0081	MO	Odor Control System, Two Locations / Up To Three (3) Nozzles Note: Per each location. Twelve (12) month minimum.	349.82	
11 82 26 00-0082	MO	Odor Control System, Three Locations / Up To Three (3) Nozzles Note: Per each location. Twelve (12) month minimum.	328.62	

11 90 Other Equipment *(11)*

11 97 Security Equipment *(11 90)*

11 97 26 Detention Gun Lockers *(11 97)*

11 97 26 00-0001		Hinged Door Gun Lock *(11 97 26)* Note: Two keys per locker with one master.		
11 97 26 00-0002	EA	8 Compartment Pistol Locker, 20-1/8" High x 15-1/8" Wide x 17-1/4" Deep, Double Welded 20 Gauge Steel Body, 10 Gauge Steel Door	3,669.53	70.44

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 97 26 00-0003		Hinged-Door Gun Locker *(11 97 26)* Note: Includes master key for each set of 4 compartments, two keys per compartment.		
11 97 26 00-0004	EA	4 Compartment Pistol Locker, 11-1/4" High x 16-1/4" Wide x 16-3/4" Deep, 16 Gauge, Foam Filled, Painted With Powder Coat Finish	1,436.00	49.31
11 97 26 00-0005	EA	8 Compartment Pistol Locker, 11-1/2" High x 32-3/4" Wide x 17-1/4" Deep, 16 Gauge, Foam Filled, Painted With Powder Coat Finish	3,262.48	70.44
11 97 26 00-0006	EA	16 Compartment Pistol Locker, 11-1/2" High x 32-3/4" Wide x 17-1/4" Deep, 16 Gauge, Foam Filled, Painted With Powder Coat Finish	5,966.32	84.52
11 97 26 00-0007	EA	24 Compartment Pistol Locker, 11-1/2" High x 32-3/4" Wide x 17-1/4" Deep, 16 Gauge, Foam Filled, Painted With Powder Coat Finish	8,641.98	84.52

END OF SECTION 11

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

13 Special Construction

13 01 Operation and Maintenance of Special Construction *(13)*

13 01 10 Operation and Maintenance of Special Facility Components *(13 01)*

13 01 11 Operation and Maintenance of Swimming Pools *(13 01 10)*

13 01 11 11 Operation and Maintenance of Swimming Pools *(13 01 11)*

13 01 11 11-0001 Pool Restoration Items *(13 01 11 11)*

13 01 11 11-0002	LF	Saw Cutting Pool Floor	15.01	
13 01 11 11-0003	SF	Demolish Pool Floor	27.29	
13 01 11 11-0004	LF	Demolish Pool Gutter Lip	38.20	
13 01 11 11-0005	LF	Demolish Pool Coping	22.74	
13 01 11 11-0006	SF	Demolish Up To 1" Thick Pool Plaster	12.24	
13 01 11 11-0007	LF	Install Pool Coping	106.50	
13 01 11 11-0008	EA	Coring For Pool Pipe Penetrations	636.75	
13 01 11 11-0009	EA	Coring For Pool Wall Inlets	218.31	
13 01 11 11-0010	EA	Coring For Pool Gutter Outlets	363.85	
13 01 11 11-0011	EA	Core And Demolish Pool Light Fixture	727.71	
13 01 11 11-0012	EA	12 Volt, LED Pool Light	932.32	
13 01 11 11-0013	EA	Bond/Set Pool Anchors	191.24	
13 01 11 11-0014	EA	Core/Install Pool Cup Anchors	549.81	
13 01 11 11-0015	LF	Form Pool Gutter	25.47	
13 01 11 11-0016	LF	Float Pool Gutter Lip	38.20	
13 01 11 11-0017	LF	Theroseal Pool Gutter	13.98	
13 01 11 11-0018	SF	Theroseal Pool Surge Tank	11.18	
13 01 11 11-0019	SF	Paint Pool, Per Coat	0.81	
13 01 11 11-0020	SF	Paint Pool, Epoxy Or Urethane Base, Per Coat	0.89	
13 01 11 11-0021	EA	Pool Start-up	11,842.83	
13 01 11 11-0022	SF	Up To 1/2" Thick Troweled Pool Plaster	5.93	
		For Radius Or Irregular Surface, Add	*2.07*	
		For Up To 25, Add	*1.37*	
		For >25 To 50, Add	*0.81*	
		For >50 To 150, Add	*0.39*	
13 01 11 11-0023	SF	>1/2" To 1" Thick Troweled Pool Plaster	8.47	
		For Radius Or Irregular Surface, Add	*2.99*	
		For Up To 25, Add	*1.97*	
		For >25 To 50, Add	*1.17*	
		For >50 To 150, Add	*0.56*	
13 01 11 11-0024	SF	1" x 1" Glass Pool Tile Sheet	21.25	2.13
13 01 11 11-0025	SF	2" x 2" Porcelain Mosaic Pool Tile Sheet	25.74	2.13
13 01 11 11-0026	SF	6" x 6" Porcelain Pool Tile	31.40	2.13

13 01 11 11-0027 Swimming Pool Plaster Restoration *(13 01 11 11)*

13 01 11 11-0028	SF	Chip, Clean And Repair Plaster Up To 10 SF On Swimming Pool	43.03	
13 01 11 11-0029	SF	Chip, Clean And Repair Plaster >10 To 50 SF On Swimming Pool	31.21	
13 01 11 11-0030	SF	Chip, Clean And Repair Plaster >50 To 250 SF On Swimming Pool	22.94	
13 01 11 11-0031	SF	Chip, Clean And Repair Plaster >250 To 1,000 SF On Swimming Pool	18.21	
13 01 11 11-0032	SF	Chip, Clean And Repair Plaster >1,000 SF On Swimming Pool	13.49	

13 30 Special Structures *(13)*

13 34 Fabricated Engineered Structures *(13 30)*

13 34 16 Grandstands and Bleachers *(13 34)*

13 34 16 13 Grandstands *(13 34 16)*

13 34 16 13-0001 Permanent Grandstands, Wood Seat, Steel Frame *(13 34 16 13)*

13 34 16 13-0002 3 To 15 Tiers *(13 34 16 13-0001)*

13 34 16 13-0003	SEA	3-15 Tier Permanent Grandstand Price Per Seat	99.36	9.58

13 34 16 13-0004 16 To 30 Tiers *(13 34 16 13-0001)*

13 34 16 13-0005	SEA	16-30 Tier Permanent Grandstand Price Per Seat	154.56	10.78

13 34 19 Metal Building Systems *(13 34)*

Note: Includes material, delivery to site, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site.

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0001		**Pre-Engineered Metal Buildings** *(13 34 19)* Note: Free-standing base buildings have a live load of 12 pounds per square foot (PSF) and a wind load of 16.4 pounds per square foot (PSF) (80 MPH). Includes anchoring and fasteners to concrete foundation. Includes design for foundation footings and piers. Includes a prime coated structural frame, painted steel wall panels 26 gauge, standing seam roof panels 26 gauge, roof 1 in 12 slope. Includes material, delivery to site, lifting equipment (crane) for erection, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site. Eave height is measured from the top of slab to the underside of the roof deck. Excludes foundations, slab and anchor bolts embedded in concrete. See CSI section 03 15 19 00-0001 for cast in concrete anchors, 03 31 13 00-0001 for concrete slab, 03 31 13 00-0010 for concrete foundations, 13 34 19 00-0109 for metal building options.		
13 34 19 00-0002		**Clear Span Rigid Frame Pre-Engineered Metal Buildings** *(13 34 19 00-0001)* Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.		
13 34 19 00-0003		**20' To 30' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings** *(13 34 19 00-0002)*		
13 34 19 00-0004	GSF	10' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	29.42	8.46
		For 20' To 29' In Length Only, Add	*2.97*	
		For 30' To 49' In Length Only, Add	*2.33*	
		For 50' To 69' In Length Only, Add	*1.36*	
		For 70' To 99' In Length Only, Add	*0.56*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.88*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.47*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.21*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.87*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.53*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.59*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*7.06*	
		For Single Slope Frame Roof, Add	*1.56*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.84*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.15*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0005	GSF	12' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	31.60	9.29
		For 20' To 29' In Length Only, Add	*3.06*	
		For 30' To 49' In Length Only, Add	*2.40*	
		For 50' To 69' In Length Only, Add	*1.40*	
		For 70' To 99' In Length Only, Add	*0.58*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.95*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.58*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.37*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.08*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.79*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*6.00*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*7.58*	
		For Single Slope Frame Roof, Add	*1.61*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.90*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.25*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0006	GSF	14' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	34.06	10.25
		For 20' To 29' In Length Only, Add	*3.14*	
		For 30' To 49' In Length Only, Add	*2.47*	
		For 50' To 69' In Length Only, Add	*1.44*	
		For 70' To 99' In Length Only, Add	*0.60*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.02*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.70*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.55*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.32*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.09*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*6.47*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*8.17*	
		For Single Slope Frame Roof, Add	*1.65*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.96*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.37*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0007	GSF	16' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	36.73	11.20
		For 20' To 29' In Length Only, Add	*3.29*	
		For 30' To 49' In Length Only, Add	*2.58*	
		For 50' To 69' In Length Only, Add	*1.51*	
		For 70' To 99' In Length Only, Add	*0.62*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.10*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.84*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.75*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.58*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.41*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*6.98*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*8.82*	
		For Single Slope Frame Roof, Add	*1.73*	
		For Each SF Of 24 Gauge Wall Panel, Add	*1.03*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.49*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0008	GSF	18' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	39.49	12.17
		For 20' To 29' In Length Only, Add	*3.46*	
		For 30' To 49' In Length Only, Add	*2.72*	
		For 50' To 69' In Length Only, Add	*1.59*	
		For 70' To 99' In Length Only, Add	*0.66*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.18*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.97*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.96*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.85*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.74*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*7.50*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*9.48*	
		For Single Slope Frame Roof, Add	*1.82*	
		For Each SF Of 24 Gauge Wall Panel, Add	*1.11*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.60*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0009	GSF	20' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	43.37	13.06
		For 20' To 29' In Length Only, Add	*3.99*	
		For 30' To 49' In Length Only, Add	*3.13*	
		For 50' To 69' In Length Only, Add	*1.83*	
		For 70' To 99' In Length Only, Add	*0.76*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.30*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*2.17*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*3.25*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*4.23*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.20*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*8.24*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*10.41*	
		For Single Slope Frame Roof, Add	*2.10*	
		For Each SF Of 24 Gauge Wall Panel, Add	*1.22*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.72*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0010	GSF	24' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	48.76	14.98
		For 20' To 29' In Length Only, Add	*4.33*	
		For 30' To 49' In Length Only, Add	*3.41*	
		For 50' To 69' In Length Only, Add	*1.99*	
		For 70' To 99' In Length Only, Add	*0.82*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.46*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*2.44*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*3.66*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*4.75*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.85*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*9.26*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*11.70*	
		For Single Slope Frame Roof, Add	*2.28*	
		For Each SF Of 24 Gauge Wall Panel, Add	*1.37*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.95*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0011 >30' To 50' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings

(13 34 19 00-0002)

13 34 19 00-0012	GSF	10' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	24.84	6.73
		For 30' To 49' In Length Only, Add	*2.18*	
		For 50' To 69' In Length Only, Add	*1.27*	
		For 70' To 99' In Length Only, Add	*0.52*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.75*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.24*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.86*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.42*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.98*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.72*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.96*	
		For Single Slope Frame Roof, Add	*1.46*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.72*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.93*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0013	GSF	12' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	26.57	7.33
		For 30' To 49' In Length Only, Add	*2.24*	
		For 50' To 69' In Length Only, Add	*1.31*	
		For 70' To 99' In Length Only, Add	*0.54*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.80*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.33*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.99*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.59*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.19*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.05*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.38*	
		For Single Slope Frame Roof, Add	*1.50*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.76*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.01*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0014	GSF	14' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	28.08	7.94
		For 30' To 49' In Length Only, Add	*2.29*	
		For 50' To 69' In Length Only, Add	*1.34*	
		For 70' To 99' In Length Only, Add	*0.55*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.84*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.40*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.11*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.74*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.37*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.34*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.74*	
		For Single Slope Frame Roof, Add	*1.53*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.80*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.08*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0015	GSF	16' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	30.19	8.65
		For 30' To 49' In Length Only, Add	*2.41*	
		For 50' To 69' In Length Only, Add	*1.41*	
		For 70' To 99' In Length Only, Add	*0.58*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.91*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.51*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.26*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.94*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.62*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.74*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*7.25*	
		For Single Slope Frame Roof, Add	*1.61*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.86*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.17*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0016	GSF	18' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	32.68	9.29
		For 30' To 49' In Length Only, Add	*2.64*	
		For 50' To 69' In Length Only, Add	*1.55*	
		For 70' To 99' In Length Only, Add	*0.64*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.98*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.63*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.45*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.19*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.92*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*6.21*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*7.84*	
		For Single Slope Frame Roof, Add	*1.77*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.94*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.25*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0017	GSF	20' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	35.00	9.92
		For 30' To 49' In Length Only, Add	*2.81*	
		For 50' To 69' In Length Only, Add	*1.64*	
		For 70' To 99' In Length Only, Add	*0.68*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.05*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.75*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.63*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.41*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.20*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*6.65*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*8.40*	
		For Single Slope Frame Roof, Add	*1.88*	
		For Each SF Of 24 Gauge Wall Panel, Add	*1.00*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.34*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0018	GSF	24' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	38.45	11.20
		For 30' To 49' In Length Only, Add	*2.97*	
		For 50' To 69' In Length Only, Add	*1.74*	
		For 70' To 99' In Length Only, Add	*0.72*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.15*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.92*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.88*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.75*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.61*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*7.31*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*9.23*	
		For Single Slope Frame Roof, Add	*1.99*	
		For Each SF Of 24 Gauge Wall Panel, Add	*1.09*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.49*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0019 >50' To 100' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings
(13 34 19 00-0002)

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0020	GSF	10' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	19.01	4.68
		For 30' To 49' In Length Only, Add	*1.90*	
		For 50' To 69' In Length Only, Add	*1.11*	
		For 70' To 99' In Length Only, Add	*0.46*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.57*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.95*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.43*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.85*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.28*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.61*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.56*	
		For Single Slope Frame Roof, Add	*1.28*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.56*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.68*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0021	GSF	12' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	19.81	4.92
		For 30' To 49' In Length Only, Add	*1.96*	
		For 50' To 69' In Length Only, Add	*1.15*	
		For 70' To 99' In Length Only, Add	*0.47*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.59*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.99*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.49*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.93*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.38*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.76*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.75*	
		For Single Slope Frame Roof, Add	*1.32*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.58*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.71*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0022	GSF	14' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	20.61	5.15
		For 30' To 49' In Length Only, Add	*2.02*	
		For 50' To 69' In Length Only, Add	*1.18*	
		For 70' To 99' In Length Only, Add	*0.49*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.62*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.03*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.55*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.01*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.47*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.92*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.95*	
		For Single Slope Frame Roof, Add	*1.35*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.61*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.74*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0023	GSF	16' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	22.93	5.95
		For 30' To 49' In Length Only, Add	*2.14*	
		For 50' To 69' In Length Only, Add	*1.25*	
		For 70' To 99' In Length Only, Add	*0.52*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.69*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.15*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.72*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.24*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.75*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.36*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.50*	
		For Single Slope Frame Roof, Add	*1.43*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.67*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.84*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0024	GSF	18' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	24.79	6.62
		For 30' To 49' In Length Only, Add	*2.21*	
		For 50' To 69' In Length Only, Add	*1.29*	
		For 70' To 99' In Length Only, Add	*0.53*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.74*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.24*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.86*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.42*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.97*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.71*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.95*	
		For Single Slope Frame Roof, Add	*1.48*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.72*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.92*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0025	GSF	20' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	26.56	7.30
		For 30' To 49' In Length Only, Add	*2.27*	
		For 50' To 69' In Length Only, Add	*1.33*	
		For 70' To 99' In Length Only, Add	*0.55*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.80*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.33*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.99*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.59*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.19*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.05*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.37*	
		For Single Slope Frame Roof, Add	*1.52*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.77*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.00*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0026	GSF	24' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	29.69	8.26
		For 30' To 49' In Length Only, Add	*2.49*	
		For 50' To 69' In Length Only, Add	*1.46*	
		For 70' To 99' In Length Only, Add	*0.60*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.89*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.48*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.23*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.89*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.56*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.64*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*7.13*	
		For Single Slope Frame Roof, Add	*1.67*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.85*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.12*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0027 Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings *(13 34 19 00-0001)*

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

13 34 19 00-0028 20' To 30' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings *(13 34 19 00-0027)*

13 34 19 00-0029	GSF	10' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	25.15	6.73
		For 20' To 29' In Length Only, Add	*2.86*	
		For 30' To 49' In Length Only, Add	*2.25*	
		For 50' To 69' In Length Only, Add	*1.31*	
		For 70' To 99' In Length Only, Add	*0.54*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.75*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.26*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.89*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.45*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.02*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.78*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.04*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.73*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.93*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0030	GSF	12' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	27.08	7.33
		For 20' To 29' In Length Only, Add	*3.02*	
		For 30' To 49' In Length Only, Add	*2.37*	
		For 50' To 69' In Length Only, Add	*1.39*	
		For 70' To 99' In Length Only, Add	*0.57*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.81*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.35*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.03*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.64*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.25*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.15*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.50*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.78*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.01*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0031	GSF	14' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	28.98	7.94
		For 20' To 29' In Length Only, Add	*3.17*	
		For 30' To 49' In Length Only, Add	*2.49*	
		For 50' To 69' In Length Only, Add	*1.46*	
		For 70' To 99' In Length Only, Add	*0.60*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.87*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.45*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.17*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.83*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.48*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.51*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.96*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.84*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.08*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0032	GSF	16' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	31.39	8.65
		For 20' To 29' In Length Only, Add	*3.41*	
		For 30' To 49' In Length Only, Add	*2.68*	
		For 50' To 69' In Length Only, Add	*1.57*	
		For 70' To 99' In Length Only, Add	*0.65*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.94*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.57*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.35*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.06*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.77*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.96*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*7.53*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.90*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.17*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0033	GSF	18' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	33.53	9.31
		For 20' To 29' In Length Only, Add	*3.59*	
		For 30' To 49' In Length Only, Add	*2.82*	
		For 50' To 69' In Length Only, Add	*1.65*	
		For 70' To 99' In Length Only, Add	*0.68*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.01*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.68*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.51*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.27*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.02*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*6.37*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*8.05*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.96*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.25*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0034	GSF	20' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	35.67	9.99
		For 20' To 29' In Length Only, Add	*3.76*	
		For 30' To 49' In Length Only, Add	*2.96*	
		For 50' To 69' In Length Only, Add	*1.73*	
		For 70' To 99' In Length Only, Add	*0.71*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.07*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.78*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.68*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.48*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.28*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*6.78*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*8.56*	
		For Each SF Of 24 Gauge Wall Panel, Add	*1.02*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.34*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0035	GSF	24' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	40.09	11.39
		For 20' To 29' In Length Only, Add	*4.12*	
		For 30' To 49' In Length Only, Add	*3.24*	
		For 50' To 69' In Length Only, Add	*1.89*	
		For 70' To 99' In Length Only, Add	*0.78*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.20*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*2.00*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*3.01*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.91*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.81*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*7.62*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*9.62*	
		For Each SF Of 24 Gauge Wall Panel, Add	*1.15*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.51*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0036 >30' To 50' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings *(13 34 19 00-0027)*

13 34 19 00-0037	GSF	10' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	22.60	5.95
		For 30' To 49' In Length Only, Add	*2.06*	
		For 50' To 69' In Length Only, Add	*1.21*	
		For 70' To 99' In Length Only, Add	*0.50*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.68*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.13*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.70*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.20*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.71*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.29*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.42*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.66*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.84*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0038	GSF	12' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	24.21	6.50
		For 30' To 49' In Length Only, Add	*2.15*	
		For 50' To 69' In Length Only, Add	*1.26*	
		For 70' To 99' In Length Only, Add	*0.52*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.73*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.21*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.82*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.36*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.91*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.60*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.81*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.70*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.90*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0039	GSF	14' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	25.81	7.04
		For 30' To 49' In Length Only, Add	*2.23*	
		For 50' To 69' In Length Only, Add	*1.31*	
		For 70' To 99' In Length Only, Add	*0.54*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.77*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.29*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.94*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.52*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.10*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.90*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.19*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.74*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.97*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0040	GSF	16' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	27.50	7.56
		For 30' To 49' In Length Only, Add	*2.35*	
		For 50' To 69' In Length Only, Add	*1.38*	
		For 70' To 99' In Length Only, Add	*0.57*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.83*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.38*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.06*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.68*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.30*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.23*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.60*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.79*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.04*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0041	GSF	18' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	29.20	8.10
		For 30' To 49' In Length Only, Add	*2.46*	
		For 50' To 69' In Length Only, Add	*1.44*	
		For 70' To 99' In Length Only, Add	*0.59*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.88*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.46*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.19*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.85*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.50*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.55*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*7.01*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.84*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.10*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0042	GSF	20' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	30.90	8.65
		For 30' To 49' In Length Only, Add	*2.57*	
		For 50' To 69' In Length Only, Add	*1.50*	
		For 70' To 99' In Length Only, Add	*0.62*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.93*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.55*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.32*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.01*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.71*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.87*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*7.42*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.89*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.17*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0043	GSF	24' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	34.72	9.86
		For 30' To 49' In Length Only, Add	*2.81*	
		For 50' To 69' In Length Only, Add	*1.64*	
		For 70' To 99' In Length Only, Add	*0.68*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*1.04*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.74*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.60*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*3.39*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.17*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*6.60*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*8.33*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.99*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*1.32*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0044		>50' To 80' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings *(13 34 19 00-0027)*		
13 34 19 00-0045	GSF	10' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	19.31	4.68
		For 30' To 49' In Length Only, Add	*1.97*	
		For 50' To 69' In Length Only, Add	*1.15*	
		For 70' To 99' In Length Only, Add	*0.48*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.58*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.97*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.45*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.88*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.32*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.67*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.63*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.57*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.68*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0046	GSF	12' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	20.41	4.99
		For 30' To 49' In Length Only, Add	*2.05*	
		For 50' To 69' In Length Only, Add	*1.20*	
		For 70' To 99' In Length Only, Add	*0.50*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.61*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.02*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.53*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.99*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.45*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.88*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.90*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.60*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.72*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0047	GSF	14' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	21.46	5.32
		For 30' To 49' In Length Only, Add	*2.13*	
		For 50' To 69' In Length Only, Add	*1.25*	
		For 70' To 99' In Length Only, Add	*0.51*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.64*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.07*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.61*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.09*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.58*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.08*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.15*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.63*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.76*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0048	GSF	16' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	22.59	5.63
		For 30' To 49' In Length Only, Add	*2.22*	
		For 50' To 69' In Length Only, Add	*1.30*	
		For 70' To 99' In Length Only, Add	*0.54*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.68*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.13*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.69*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.20*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.71*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.29*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.42*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.66*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.80*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0049	GSF	18' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	24.00	6.02
		For 30' To 49' In Length Only, Add	*2.35*	
		For 50' To 69' In Length Only, Add	*1.37*	
		For 70' To 99' In Length Only, Add	*0.57*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.72*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.20*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.80*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.34*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.88*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.56*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.76*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.70*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.84*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0050	GSF	20' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	25.28	6.34
		For 30' To 49' In Length Only, Add	*2.47*	
		For 50' To 69' In Length Only, Add	*1.44*	
		For 70' To 99' In Length Only, Add	*0.60*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.76*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.26*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.90*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.46*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.03*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.80*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.07*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.74*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.88*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0051	GSF	24' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	28.28	7.20
		For 30' To 49' In Length Only, Add	*2.71*	
		For 50' To 69' In Length Only, Add	*1.58*	
		For 70' To 99' In Length Only, Add	*0.65*	
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.85*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.41*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*2.12*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.76*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.39*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*5.37*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.79*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.83*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.99*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0052 Single Post 2-Span Frame Pre-Engineered Metal Buildings *(13 34 19 00-0001)*

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

13 34 19 00-0053 Up To 60' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings *(13 34 19 00-0052)*

13 34 19 00-0054	GSF	14' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	20.62	5.51
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.62*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.03*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.55*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.01*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.47*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.92*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.95*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.60*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.78*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0055	GSF	16' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	22.02	5.89
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.66*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.10*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.65*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.15*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.64*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.18*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.28*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.64*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.83*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0056	GSF	18' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	23.13	6.21
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.69*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.16*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.73*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.26*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.78*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.39*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.55*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.67*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.87*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0057	GSF	20' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	24.23	6.53
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.73*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.21*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.82*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.36*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.91*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.60*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.82*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.70*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.91*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0058	GSF	24' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	26.28	7.10
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.79*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.31*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.97*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.56*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.15*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.99*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*6.31*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.76*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.98*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0059 >60' To 80' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings *(13 34 19 00-0052)*

13 34 19 00-0060	GSF	14' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	18.96	4.87
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.57*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.95*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.42*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.85*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.28*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.60*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.55*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.55*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.70*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0061	GSF	16' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	20.19	5.19
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.61*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.01*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.51*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.97*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.42*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.84*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.85*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.59*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.74*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0062	GSF	18' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	21.30	5.51
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.64*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.07*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.60*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.08*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.56*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.05*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.11*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.62*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.78*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0063	GSF	20' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	22.26	5.76
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.67*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.11*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.67*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.17*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.67*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.23*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.34*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.65*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.81*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0064	GSF	24' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	24.12	6.28
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.72*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.21*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.81*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.35*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.89*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.58*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.79*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.70*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.88*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0065 >80' To 100' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings *(13 34 19 00-0052)*

13 34 19 00-0066	GSF	14' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	17.43	4.29
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.52*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.87*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.31*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.70*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.09*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.31*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.18*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.51*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.63*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0067	GSF	16' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	18.26	4.49
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.55*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.91*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.37*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.78*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.19*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.47*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.38*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.54*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.65*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0068	GSF	18' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	19.24	4.74
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.58*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.96*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.44*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.88*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.31*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.66*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.62*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.57*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.69*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0069	GSF	20' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	20.05	4.93
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.60*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.00*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.50*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.95*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.41*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.81*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.81*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.59*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.71*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0070	GSF	24' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	21.74	5.38
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.65*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.09*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.63*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.12*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.61*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*4.13*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.22*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.64*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.77*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0071 >100' To 120' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings *(13 34 19 00-0052)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0072	GSF	14' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	16.91	4.09
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.51*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.85*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.27*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.65*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.03*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.21*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.06*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.50*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.61*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0073	GSF	16' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	17.62	4.29
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.53*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.88*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.32*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.72*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.11*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.35*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.23*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.52*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.63*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0074	GSF	18' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	18.44	4.49
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.55*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.92*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.38*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.80*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.21*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.50*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.43*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.54*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.65*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0075	GSF	20' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	19.21	4.68
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.58*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.96*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.44*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.87*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.31*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.65*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.61*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.57*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.68*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0076	GSF	24' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	20.82	5.06
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.62*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.04*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.56*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*2.03*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.50*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.96*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*5.00*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.62*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.73*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0077 Double Post 3-Span Frame Pre-Engineered Metal Buildings *(13 34 19 00-0001)*

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

13 34 19 00-0078 Up To 120' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings *(13 34 19 00-0077)*

13 34 19 00-0079	GSF	14' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	16.94	4.29
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.51*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.85*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.27*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.65*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.03*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.22*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.07*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.50*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.63*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0080	GSF	16' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	17.62	4.49
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.53*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.88*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.32*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.72*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.11*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.35*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.23*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.52*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.65*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0081	GSF	18' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	17.60	4.35
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.53*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.88*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.32*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.72*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.11*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.34*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.22*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.52*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.64*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0082	GSF	20' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	18.31	4.54
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.55*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.92*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.37*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.79*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.20*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.48*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.39*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.54*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.66*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0083	GSF	24' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	20.40	4.87
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.61*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*1.02*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.53*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.99*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.45*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.88*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.90*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.60*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.70*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0084		>120' To 150' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings *(13 34 19 00-0077)*		
13 34 19 00-0085	GSF	14' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	15.89	3.90
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.48*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.79*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.19*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.55*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.91*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.02*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.81*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.47*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.58*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0086	GSF	16' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	16.43	4.04
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.49*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.82*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.23*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.60*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.97*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.12*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.94*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.48*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.60*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0087	GSF	18' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	17.06	4.19
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.51*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.85*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.28*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.66*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.05*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.24*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.09*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.50*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.62*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0088	GSF	20' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	17.67	4.35
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.53*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.88*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.33*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.72*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.12*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.36*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.24*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.52*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.64*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0089	GSF	24' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	19.75	4.68
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.59*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.99*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.48*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.93*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.37*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.75*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.74*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.59*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.68*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0090 Triple Post 4-Span Frame Pre-Engineered Metal Buildings *(13 34 19 00-0001)*

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

13 34 19 00-0091 Up To 160' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building *(13 34 19 00-0090)*

13 34 19 00-0092	GSF	14' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	15.24	3.71
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.46*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.76*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.14*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.49*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.83*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.90*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.66*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.45*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.56*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0093	GSF	16' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	15.86	3.85
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.48*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.79*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.19*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.55*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.90*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.01*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.81*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.47*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.58*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0094	GSF	18' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.40	3.97
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.49*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.82*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.23*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.60*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.97*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.12*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.94*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.48*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.59*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0095	GSF	20' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.90	4.09
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.51*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.85*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.27*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.65*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.03*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.21*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.06*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.50*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.61*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0096	GSF	24' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	19.04	4.49
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.57*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.95*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.43*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.86*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.28*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.62*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.57*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.57*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.65*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

13 34 19 00-0097 >160' To 180' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building *(13 34 19 00-0090)*

13 34 19 00-0098	GSF	14' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	14.98	3.59
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.45*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.75*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.12*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.46*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.80*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.85*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.60*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.44*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.54*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0099	GSF	16' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	15.51	3.71
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.47*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.78*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.16*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.51*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.86*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.95*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.72*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.46*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.56*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0100	GSF	18' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.08	3.85
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.48*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.80*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.21*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.57*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.93*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.06*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.86*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.48*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.58*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0101	GSF	20' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.62	3.97
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.50*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.83*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.25*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.62*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.99*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.16*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.99*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.49*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.59*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0102	GSF	24' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	18.61	4.29
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.56*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.93*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.40*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.81*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.23*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.54*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.47*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.55*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.63*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0103		**>180' To 200' Wide Triple Post 4-Span Frame Pre-Engineered Metal Buildings** *(13 34 19 00-0090)*		
13 34 19 00-0104	GSF	14' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	14.72	3.45
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.44*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.74*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.10*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.44*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.77*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.80*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.53*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.44*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.53*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0105	GSF	16' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	15.18	3.59
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.46*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.76*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.14*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.48*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.82*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.88*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.64*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.45*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.54*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0106	GSF	18' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	15.76	3.71
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.47*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.79*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.18*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.54*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.89*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.99*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.78*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.47*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.56*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0107	GSF	20' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.33	3.85
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.49*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.82*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.22*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.59*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*1.96*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.10*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*3.92*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.49*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.58*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0108	GSF	24' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	18.34	4.16
		For >1 In 12 Slope To 3 In 12 Slope, Add	*0.55*	
		For >3 In 12 Slope To 5 In 12 Slope, Add	*0.92*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 20 Pounds Per Square Foot (PSF) (90 MPH) Wind Load, Add	*1.38*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 25 Pounds Per Square Foot (PSF) (100 MPH) Wind Load, Add	*1.79*	
		For 20 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*2.20*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 30 Pounds Per Square Foot (PSF) (110 MPH) Wind Load, Add	*3.48*	
		For 30 Pounds Per Square Foot (PSF) Live Load And 35 Pounds Per Square Foot (PSF) (120 MPH) Wind Load, Add	*4.40*	
		For Each SF Of 24 Gauge Wall Panel, Add	*0.55*	
		For Each SF Of Lap Roof, Deduct	*-0.76*	
		For Each SF Of Hip Roof, Add	*0.61*	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	*-1.97*	
13 34 19 00-0109		**Metal Building Options** *(13 34 19 00-0001)* Note: For use with metal buildings only.		
13 34 19 00-0110		**Metal Framing For Rough Openings** *(13 34 19 00-0109)* Note: Excludes doors		
13 34 19 00-0111	EA	Single Door, Metal Frame Rough Opening	477.22	143.43
13 34 19 00-0112	EA	Double Door, Metal Frame Rough Opening	709.22	185.69
13 34 19 00-0113	EA	10' x 10' Overhead Door, Metal Frame Rough Opening	806.08	176.08

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0114	EA	12' x 12' Overhead Door, Metal Frame Rough Opening	865.53	179.29
13 34 19 00-0115	EA	14' x 14' Overhead Door, Metal Frame Rough Opening	915.91	185.69
13 34 19 00-0116	EA	Up To 12 SF, Window Opening, Metal Frame Rough Opening	462.57	143.43
13 34 19 00-0117	EA	>12 To 18 SF, Window Opening, Metal Frame Rough Opening	520.69	163.02
13 34 19 00-0118	LF	Additional Girts	13.38	
13 34 19 00-0119		**Wall Panel Options For Metal Buildings** *(13 34 19 00-0109)*		
		Note: Upgrade from 26 gauge wall panels.		
13 34 19 00-0120	SF	Upgrade To 2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	15.35	
		Note: 24 gauge exterior and 24 gauge interior panels.		
		For AZ-50 Aluminum-Zinc Coated Exterior, Add	*0.24*	
		For Premium Exterior Colors, Add	*0.12*	
13 34 19 00-0121	SF	Upgrade To 2-1/2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	18.50	
		Note: 24 gauge exterior and 24 gauge interior panels.		
		For AZ-50 Aluminum-Zinc Coated Exterior, Add	*0.24*	
		For Premium Exterior Colors, Add	*0.12*	
13 34 19 00-0122	SF	Upgrade To 3" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	21.29	
		Note: 24 gauge exterior and 24 gauge interior panels.		
		For AZ-50 Aluminum-Zinc Coated Exterior, Add	*0.24*	
		For Premium Exterior Colors, Add	*0.12*	
13 34 19 00-0123	SF	Upgrade To 4" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	24.48	
		Note: 24 gauge exterior and 24 gauge interior panels.		
		For AZ-50 Aluminum-Zinc Coated Exterior, Add	*0.24*	
		For Premium Exterior Colors, Add	*0.12*	
13 34 19 00-0124		**Roofing Options For Metal Buildings** *(13 34 19 00-0109)*		
		Note: Upgrade from 26 gauge standing seam roof panels.		
13 34 19 00-0125	SF	Upgrade To 24 Gauge Galvanized Steel Standing Seam Roof	1.62	
13 34 19 00-0126	SF	Upgrade To 4" Thick Insulated Roof Panel, Metal-Span III, CFR-42	26.66	
		Note: 24 gauge exterior and 24 gauge interior panels.		
		For AZ-50 Aluminum-Zinc Coated Exterior, Add	*0.24*	
		For Premium Exterior Colors, Add	*0.12*	
13 34 19 00-0127	SF	Upgrade To 5" Thick Insulated Roof Panel, Metal-Span III, CFR-42	28.34	
		Note: 24 gauge exterior and 24 gauge interior panels.		
		For AZ-50 Aluminum-Zinc Coated Exterior, Add	*0.24*	
		For Premium Exterior Colors, Add	*0.12*	
13 34 19 00-0128	SF	Upgrade To 6" Thick Insulated Roof Panel, Metal-Span III, CFR-42	29.70	
		Note: 24 gauge exterior and 24 gauge interior panels.		
		For AZ-50 Aluminum-Zinc Coated Exterior, Add	*0.24*	
		For Premium Exterior Colors, Add	*0.12*	
13 34 19 00-0129	EA	3' x 10' Translucent Fiberglass Panels	214.39	55.06
13 34 19 00-0130	LF	Vented Ridge Vent For Standing Seam Roof	27.14	
13 34 19 00-0131		**Insulation For Metal Buildings** *(13 34 19 00-0109)*		
13 34 19 00-0132	SF	1-1/2" Thick, R-5.5, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.40	0.41
13 34 19 00-0133	SF	2-1/2" Thick, R-8, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.55	0.41
13 34 19 00-0134	SF	3-1/2" Thick, R-11, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.75	0.54
13 34 19 00-0135	SF	3-1/2" Thick, R-13, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	2.00	0.54
13 34 19 00-0136	SF	6" Thick, R-19, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	2.47	0.54
13 34 19 00-0137	SF	1-1/2" Thick, R-5.5, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.67	0.41
13 34 19 00-0138	SF	2-1/2" Thick, R-8, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.82	0.41
13 34 19 00-0139	SF	3-1/2" Thick, R-11, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.96	0.54
13 34 19 00-0140	SF	3-1/2" Thick, R-13, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	2.16	0.54
13 34 19 00-0141	SF	6" Thick, R-19, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	2.56	0.54
13 34 19 00-0142	SF	1-1/2" Thick, R-5.5, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	1.59	0.41
13 34 19 00-0143	SF	2-1/2" Thick, R-8, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	1.76	0.41
13 34 19 00-0144	SF	3-1/2" Thick, R-11, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	2.07	0.54
13 34 19 00-0145	SF	3-1/2" Thick, R-13, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	2.27	0.54
13 34 19 00-0146	SF	6" Thick, R-19, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	2.64	0.54
13 34 19 00-0147	SF	2" Thick, R-6.5, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.49	0.41
13 34 19 00-0148	SF	3" Thick, R-10, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.58	0.41
13 34 19 00-0149	SF	4" Thick, R-13, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.77	0.54
13 34 19 00-0150	SF	6" Thick, R-19, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	2.18	0.54
13 34 19 00-0151	SF	2" Thick, R-6.5, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation	1.50	0.41
13 34 19 00-0152	SF	3" Thick, R-10, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation	1.60	0.41
13 34 19 00-0153	SF	4" Thick, R-13, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation	1.80	0.54
13 34 19 00-0154	SF	6" Thick, R-19, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation	2.23	0.54
13 34 19 00-0155	SF	2" Thick, R-6.5, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	1.95	0.41
13 34 19 00-0156	SF	3" Thick, R-10, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	2.08	0.41
13 34 19 00-0157	SF	4" Thick, R-13, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	2.28	0.54
13 34 19 00-0158	SF	6" Thick, R-19, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	2.71	0.54
13 34 19 00-0159		**Eave And Overhang Options For Metal Buildings** *(13 34 19 00-0109)*		
13 34 19 00-0160	LF	2' End Wall Roof Overhang And 26 Gauge Soffit	48.36	9.99
13 34 19 00-0161	LF	4' End Wall Roof Overhang And 26 Gauge Soffit	73.15	7.18
13 34 19 00-0162	SF	Up To 20 SF, Prefinished Aluminum, Wall Hung Canopy	98.79	16.00
		Note: Up to 7' projection from wall. Includes finished underside and edges.		
		For End Braced (Up To 16' Wall Projection), Add	*23.10*	
		For Overhead Braced (Up To 10' Wall Projection), Add	*13.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0163	SF	>20 To 50 SF, Prefinished Aluminum, Wall Hung Canopy Note: Up to 7' projection from wall. Includes finished underside and edges.	82.53	13.45
		For End Braced (Up To 16' Wall Projection), Add	*19.29*	
		For Overhead Braced (Up To 10' Wall Projection), Add	*11.04*	
13 34 19 00-0164	SF	>50 SF, Prefinished Aluminum, Wall Hung Canopy Note: Up to 7' projection from wall. Includes finished underside and edges.	62.68	11.53
		For End Braced (Up To 16' Wall Projection), Add	*14.52*	
		For Overhead Braced (Up To 10' Wall Projection), Add	*8.25*	
13 34 19 00-0165	SF	Up To 20 SF, Heavy-Duty, 140 MPH Winds, Prefinished Aluminum, Wall Hung Canopy Note: Up to 7' projection from wall. Includes finished underside and edges. 16 gauge internal frame, 1/2" or 3/4" support rods, 24 gauge soffit.	109.92	16.00
		For End Braced (Up To 16' Wall Projection), Add	*25.88*	
		For Overhead Braced (Up To 10' Wall Projection), Add	*14.89*	
13 34 19 00-0166	SF	>20 To 50 SF, Heavy-Duty, 140 MPH Winds, Prefinished Aluminum, Wall Hung Canopy Note: Up to 7' projection from wall. Includes finished underside and edges. 16 gauge internal frame, 1/2" or 3/4" support rods, 24 gauge soffit.	93.66	13.45
		For End Braced (Up To 16' Wall Projection), Add	*22.07*	
		For Overhead Braced (Up To 10' Wall Projection), Add	*12.70*	
13 34 19 00-0167	SF	>50 SF, Heavy-Duty, 140 MPH Winds, Prefinished Aluminum, Wall Hung Canopy Note: Up to 7' projection from wall. Includes finished underside and edges. 16 gauge internal frame, 1/2" or 3/4" support rods, 24 gauge soffit.	70.60	11.53
		For End Braced (Up To 16' Wall Projection), Add	*16.50*	
		For Overhead Braced (Up To 10' Wall Projection), Add	*9.44*	
13 34 19 00-0168	SF	Up To 50 SF, Prefinished Aluminum, Free Standing Canopy Note: Includes finished underside and edges.	120.84	24.33
13 34 19 00-0169	SF	>50 SF, Prefinished Aluminum, Free Standing Canopy Note: Includes finished underside and edges.	81.13	14.72
13 34 19 00-0170	LF	1' Standard Eave Overhang Without Soffit	47.19	
13 34 19 00-0171	LF	2' Standard Eave Overhang Without Soffit	59.05	
13 34 19 00-0172	LF	3' Standard Eave Overhang Without Soffit	71.19	
13 34 19 00-0173	LF	4' Standard Eave Overhang Without Soffit	83.14	
13 34 19 00-0174	LF	6' Standard Eave Overhang Without Soffit	106.70	
13 34 19 00-0175	LF	1' Standard Eave Overhang And 26 Gauge Soffit	62.99	
		For 24 Gauge, Add	*6.99*	
13 34 19 00-0176	LF	2' Standard Eave Overhang And 26 Gauge Soffit	78.75	
		For 24 Gauge, Add	*8.82*	
13 34 19 00-0177	LF	3' Standard Eave Overhang And 26 Gauge Soffit	94.75	
		For 24 Gauge, Add	*10.56*	
13 34 19 00-0178	LF	4' Standard Eave Overhang And 26 Gauge Soffit	110.72	
		For 24 Gauge, Add	*12.31*	
13 34 19 00-0179	LF	6' Standard Eave Overhang And 26 Gauge Soffit	141.56	
		For 24 Gauge, Add	*15.86*	

13 34 19 00-0180 Louvers And Vents For Metal Buildings *(13 34 19 00-0109)*

13 34 19 00-0181	EA	4' x 3' Fixed Louver	757.83	199.78
13 34 19 00-0182	EA	12" Rotary Vent With Damper	459.84	128.06
13 34 19 00-0183	EA	20" Rotary Vent With Damper	812.38	170.96
13 34 19 00-0184	EA	24" Rotary Vent With Damper	1,077.41	192.10
13 34 19 00-0185	EA	Gravity Ridge Ventilator With Bird Screen, 9" Throat x 10'	1,233.79	256.12
13 34 19 00-0186	EA	Gravity Ridge Ventilator With Bird Screen, 12" Throat x 10'	1,315.91	256.12
13 34 19 00-0187	EA	Ridge Ventilator - 9" Throat X 10 Ft, Manually Operated Damper With Bird Screen	1,530.87	256.12
13 34 19 00-0188	EA	Ridge Ventilator - 12" Throat X 10 Ft, Manually Operated Damper With Bird Screen	1,672.35	256.12
13 34 19 00-0189	EA	Ridge Ventilator - 15" Throat X 10 Ft, Manually Operated Damper With Bird Screen	1,827.97	256.12
13 34 19 00-0190	EA	Ridge Ventilator - 18" Throat X 10 Ft, Manually Operated Damper With Bird Screen	1,983.59	256.12
13 34 19 00-0191	EA	Ridge Ventilator - 9" Throat X 10 Ft, Motor Operated Damper With Bird Screen	2,606.80	320.15
13 34 19 00-0192	EA	Ridge Ventilator - 12" Throat X 10 Ft, Motor Operated Damper With Bird Screen	2,861.46	320.15

13 34 19 00-0193 Gutters And Downspouts For Metal Buildings *(13 34 19 00-0109)*

13 34 19 00-0194	LF	Pre-Engineered Standard Type Gutter, Painted	11.03	3.20
		For Galvanized Instead Of Painted, Deduct	*-1.16*	
13 34 19 00-0195	LF	Pre-Engineered Standard Type Downspout, Painted	10.81	4.49
		For Galvanized Instead Of Painted, Deduct	*-0.46*	

13 34 23 Fabricated Structures *(13 34)*

13 34 23 13 Portable and Mobile Buildings *(13 34 23)*

13 34 23 13-0001 Prefabricated Signal, Communication Or Electrical Building *(13 34 23 13)*

Note: Complete, includes door, roof, lights and wiring, insulation, painted.

13 34 23 13-0002	SF	15 SF To 29 SF Prefabricated Signal, Communication Or Electrical Building	472.45	
13 34 23 13-0003	SF	30 SF To 49 SF Prefabricated Signal, Communication Or Electrical Building	405.33	
13 34 23 13-0004	SF	50 SF To 79 SF Prefabricated Signal, Communication Or Electrical Building	324.45	
13 34 23 13-0005	SF	80 SF To 99 SF Prefabricated Signal, Communication Or Electrical Building	256.69	
13 34 23 13-0006	SF	100 SF To 144 SF Prefabricated Signal, Communication Or Electrical Building	229.36	

13 34 23 13-0007 Temporary Trailers 1 To 6 Years Life *(13 34 23 13)*

Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, phone jacks, two wooden landings, stairs, and handrails. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 23 13-0008	SF	Single Trailer Up To 14' x 73'	71.60	
		For Each Delivery And Set-up (Block And Level), Add	*1,528.10*	
		For Each Knock-Down And Pick-Up, Add	*1,248.10*	
		For Each Anchoring Into Asphalt Or Concrete, Add	*110.00*	
13 34 23 13-0009	SF	Modular Trailers, Connected	100.24	
		For Each Anchoring Into Asphalt Or Concrete, Add	*110.00*	
		For Each Delivery And Set-up (Block And Level), Add	*3,389.47*	
		For Each Knock-Down And Pick-Up, Add	*2,739.47*	
13 34 23 13-0010	EA	Add Per Additional Exterior Door With Frame And Hardware	1,073.98	
13 34 23 13-0011		**Portable and Mobile Trailer Accessories** *(13 34 23 13)*		
13 34 23 13-0012		**Skirting** *(13 34 23 13-0011)*		
		Note: Includes 2" x 4" wood framing 16" on center.		
13 34 23 13-0013		**Vinyl Covered, Exterior Only** *(13 34 23 13-0012)*		
13 34 23 13-0014	SF	1'-8" High Vinyl Covered Skirt	6.20	2.44
13 34 23 13-0015	SF	3' High Vinyl Covered Skirt	9.16	4.02
13 34 23 13-0016		**Fiberglass, Exterior Only** *(13 34 23 13-0012)*		
13 34 23 13-0017	SF	1'-8" High Fiberglass Skirt	11.59	4.60
13 34 23 13-0018	SF	3' High Fiberglass Skirt	13.48	5.60
13 34 23 13-0019		**Plywood, Exterior Only** *(13 34 23 13-0012)*		
13 34 23 13-0020	SF	1'-8" High 5/8" Plywood Skirt	10.81	4.88
13 34 23 13-0021	SF	3' High 5/8" Plywood Skirt	12.81	5.89
13 34 23 13-0022		**Steel, Painted, Exterior Only** *(13 34 23 13-0012)*		
13 34 23 13-0023	SF	1'-8" High 26 Gauge Steel Skirt	12.17	4.60
13 34 23 13-0024	SF	3' High 26 Gauge Steel Skirt	14.17	5.60
13 34 23 13-0025		**14" x 14" Access Hatch** *(13 34 23 13-0011)*		
		Note: Simple design.		
13 34 23 13-0026	EA	14" x 14" Vinyl Covered Access Hatch	305.69	107.85
13 34 23 13-0027	EA	14" x 14" Fiberglass Access Hatch	273.45	107.85
13 34 23 13-0028	EA	14" x 14" Plywood Access Hatch	303.65	107.85
13 34 23 13-0029	EA	14" x 14" 26 Gauge Steel Access Hatch	305.32	107.85
13 34 23 13-0030		**Pole Anchor** *(13 34 23 13-0011)*		
		Note: Joslyn.		
13 34 23 13-0031	EA	Pole Anchor, 4" Helix, 3/4" x 54" Shaft	72.89	30.69
13 34 23 13-0032	EA	Pole Anchor, 6" Helix, 3/4" x 66" Shaft	82.81	30.69
13 34 23 13-0033	EA	Pole Anchor, 8" Helix, 1" x 66" Shaft	110.93	34.52
13 34 23 13-0034	EA	Pole Anchor, 10" Helix, 1-1/4" x 66" Shaft	156.64	38.37
13 34 23 13-0035	EA	Pole Anchor, 10" Helix, 1-1/4" x 8' Shaft	179.03	42.20
13 34 23 13-0036	EA	Pole Anchor, 16" Helix, 1-1/4" x 8' Shaft	288.01	57.54
13 34 23 13-0037		**Aluminum Modular Access Ramp** *(13 34 23 13-0011)*		
		Note: Includes picketed guardrails, inside grab rails, legs and hardware.		
13 34 23 13-0038	EA	72" Long x 52-1/4" Wide Ramp Section, Aluminum Modular Access Ramp	3,919.12	35.91
13 34 23 13-0039	EA	60-1/4" Long x 61-3/4" Wide Door Landing Section, Aluminum Modular Access Ramp	3,962.23	46.69
13 34 23 13-0040	EA	60-1/4" Long x 123-1/2" Wide Switchback Landing Section, Aluminum Modular Access Ramp	8,149.44	71.83
13 34 23 13-0041	EA	110-3/4" Long x 72" Wide Switchback Landing Section, Aluminum Modular Access Ramp	8,779.67	71.83
13 34 23 13-0042	EA	60-1/4" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp	4,119.79	46.69
13 34 23 13-0043	EA	71-3/4" Long x 52-1/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp	4,076.68	35.91
13 34 23 13-0044	EA	84-1/2" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp	5,691.43	46.69
13 34 23 13-0045	EA	30" High x 82" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	4,042.98	46.69
13 34 23 13-0046	EA	35" High x 96" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	4,042.98	46.69
13 34 23 13-0047	EA	42" High x 110" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	4,600.34	46.69
13 34 23 13-0048	EA	49" High x 124" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	5,153.76	46.69
13 34 23 13-0049		**Relocate Portable And Mobile Trailer** *(13 34 23 13)*		
		Note: Excludes anchors, skirting, steps, ramps, utility hook-ups and foundation. See CSI section 01 22 16 00-0002 for reimbursable permit fees, 13 34 23 13-0012 for skirting, 13 34 23 13-0030 for anchors.		
13 34 23 13-0050	EA	Prepare, Up To 12' Wide, Single Trailer For Transportation Note: Includes securing interior, mounting tires, and mounting trailer hitch	966.94	
13 34 23 13-0051	EA	Separate, 24' Wide Double Trailer And Prepare For Transportation Note: Includes separating trailers, securing interior, installing plastic and boards to open side of each (2) trailers, mounting tires, and mounting trailer hitch.	4,703.56	
13 34 23 13-0052	EA	Remove Blocking From 8' Wide x Up To 35' Long Trailer Note: Per trailer	425.45	
13 34 23 13-0053	EA	Remove Blocking From 10' Wide x 40' To 50' Long Trailer Note: Per trailer	541.49	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 23 13-0054	EA	Remove Blocking From 12' Wide x 45' To 60' Long Note: Per trailer	657.52	
13 34 23 13-0055	EA	Remove Blocking From 24' Wide x 45' To 60' Long Note: Per trailer	1,315.04	
13 34 23 13-0056	MI	Transportation And Delivery Of Trailer	20.85	
13 34 23 13-0057	EA	Re-connect 24' Wide Double Trailer Note: Includes removal of temporary plastic and boards, caulking, installation of flooring, ceiling and roofing seams. Excludes blocking and leveling. See CSI section 13 34 23 13-0060 for blocking and leveling of each section.	9,296.00	
13 34 23 13-0058	EA	Set-up (Block And Level) Trailer, 8' Wide x Up To 35' Long Note: Per trailer	531.82	
13 34 23 13-0059	EA	Set-up (Block And Level) Trailer, 10' Wide x 40' To 50' Long Note: Per trailer	676.86	
13 34 23 13-0060	EA	Set-up (Block And Level) Trailer, 12' Wide x 45' To 60' Long Note: Per trailer	821.90	
13 34 23 13-0061	EA	Set-up (Block And Level) Trailer, 24' Wide x 45' To 60' Long Note: Per trailer	1,643.80	
13 34 23 13-0062	EA	Connection Straps To Anchor Note: Includes straps per each anchor See CSI section 13 34 23 13-0030 for anchors.	24.18	

13 34 23 14 Fabricated Classroom Buildings *(13 34 23)*

13 34 23 14-0001 Semi-Permanent Modular Transportable Buildings *(13 34 23 14)*

13 34 23 14-0002	SF	Portable Classrooms, Complete With Doors, Windows, Fixtures, Toilets And Workroom	106.68	
		For Each Anchoring Into Asphalt Or Concrete, Add	*110.00*	
		For Each Delivery And Set-up (Block And Level), Add	*3,389.47*	
		For Each Knock-Down And Pick-Up, Add	*2,739.47*	
13 34 23 14-0003	SF	Modular Classroom, Connected, Complete With Doors, Windows, Fixtures, Toilets And Teachers Work Room	109.84	
		For Each Anchoring Into Asphalt Or Concrete, Add	*110.00*	
		For Each Delivery And Set-up (Block And Level), Add	*3,389.47*	
		For Each Knock-Down And Pick-Up, Add	*2,739.47*	

13 34 23 16 Fabricated Control Booths *(13 34 23)*

13 34 23 16-0001 Fabricated Parking Attendant Booths *(13 34 23 16)*

Note: Excludes foundations and slab.

13 34 23 16-0002	EA	Parking Booth For Attendant	2,155.41	

13 34 23 31 Fabricated Pavilion Style Buildings *(13 34 23)*

13 34 23 31-0001 Pavilion Style Metal Shelter Structures *(13 34 23 31)*

Note: Prefabricated open structure system, complete with all necessary hardware. Hip roof, steel structural rafters and columns, urethane/polyester (TGIC) powder finish, aluminum roof decking, 8' height at perimeter. Excludes foundations and slab. Americana or equal.

13 34 23 31-0002	EA	12' x 12', 8' Eve Height, Pavilion Style Metal Shelter Structure	13,731.52	3,416.68
		For >90 To 100 MPH Wind Load, Add	*1,167.18*	
		For >100 To 110 MPH Wind Load, Add	*1,338.82*	
		For >110 To 120 MPH Wind Load, Add	*1,716.44*	
		For >8' To 10' Eve Height At Perimeter, Add	*899.65*	
		For >10' To 12' Eve Height At Perimeter, Add	*1,678.35*	
		For >12' To 14' Eve Height At Perimeter, Add	*2,586.18*	
13 34 23 31-0003	EA	16' x 16', 8' Eve Height, Pavilion Style Metal Shelter Structure	16,723.79	4,097.97
		For >90 To 100 MPH Wind Load, Add	*1,421.52*	
		For >100 To 110 MPH Wind Load, Add	*1,630.57*	
		For >110 To 120 MPH Wind Load, Add	*2,090.47*	
		For >8' To 10' Eve Height At Perimeter, Add	*1,090.65*	
		For >10' To 12' Eve Height At Perimeter, Add	*2,031.24*	
		For >12' To 14' Eve Height At Perimeter, Add	*3,130.48*	
13 34 23 31-0004	EA	16' x 32', 8' Eve Height, Pavilion Style Metal Shelter Structure	23,486.86	6,146.95
		For >90 To 100 MPH Wind Load, Add	*1,996.38*	
		For >100 To 110 MPH Wind Load, Add	*2,289.97*	
		For >110 To 120 MPH Wind Load, Add	*2,935.86*	
		For >8' To 10' Eve Height At Perimeter, Add	*1,564.03*	
		For >10' To 12' Eve Height At Perimeter, Add	*2,934.94*	
		For >12' To 14' Eve Height At Perimeter, Add	*4,519.84*	
13 34 23 31-0005	EA	20' x 20', 8' Eve Height, Pavilion Style Metal Shelter Structure	20,966.24	5,122.46
		For >90 To 100 MPH Wind Load, Add	*1,782.13*	
		For >100 To 110 MPH Wind Load, Add	*2,044.21*	
		For >110 To 120 MPH Wind Load, Add	*2,620.78*	
		For >8' To 10' Eve Height At Perimeter, Add	*1,366.08*	
		For >10' To 12' Eve Height At Perimeter, Add	*2,543.35*	
		For >12' To 14' Eve Height At Perimeter, Add	*3,919.86*	
13 34 23 31-0006	EA	20' x 30', 8' Eve Height, Pavilion Style Metal Shelter Structure	26,576.76	6,403.08
		For >90 To 100 MPH Wind Load, Add	*2,259.02*	
		For >100 To 110 MPH Wind Load, Add	*2,591.23*	
		For >110 To 120 MPH Wind Load, Add	*3,322.10*	
		For >8' To 10' Eve Height At Perimeter, Add	*1,724.21*	
		For >10' To 12' Eve Height At Perimeter, Add	*3,205.02*	
		For >12' To 14' Eve Height At Perimeter, Add	*4,940.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 23 31-0007	EA	20' x 40', 8' Eve Height, Pavilion Style Metal Shelter Structure	32,689.36	7,862.98
		For >90 To 100 MPH Wind Load, Add	*2,778.60*	
		For >100 To 110 MPH Wind Load, Add	*3,187.21*	
		For >110 To 120 MPH Wind Load, Add	*4,086.17*	
		For >8' To 10' Eve Height At Perimeter, Add	*2,119.01*	
		For >10' To 12' Eve Height At Perimeter, Add	*3,937.69*	
		For >12' To 14' Eve Height At Perimeter, Add	*6,069.98*	
13 34 23 31-0008	EA	24' x 24', 8' Eve Height, Pavilion Style Metal Shelter Structure	26,192.57	6,146.95
		For >90 To 100 MPH Wind Load, Add	*2,226.37*	
		For >100 To 110 MPH Wind Load, Add	*2,553.78*	
		For >110 To 120 MPH Wind Load, Add	*3,274.07*	
		For >8' To 10' Eve Height At Perimeter, Add	*1,685.79*	
		For >10' To 12' Eve Height At Perimeter, Add	*3,124.34*	
		For >12' To 14' Eve Height At Perimeter, Add	*4,817.47*	
13 34 23 31-0009	EA	24' x 48', 8' Eve Height, Pavilion Style Metal Shelter Structure	42,600.85	9,566.20
		For >90 To 100 MPH Wind Load, Add	*3,621.07*	
		For >100 To 110 MPH Wind Load, Add	*4,153.58*	
		For >110 To 120 MPH Wind Load, Add	*5,325.11*	
		For >8' To 10' Eve Height At Perimeter, Add	*2,705.90*	
		For >10' To 12' Eve Height At Perimeter, Add	*4,990.06*	
		For >12' To 14' Eve Height At Perimeter, Add	*7,698.10*	
13 34 23 31-0010	EA	30' x 30', 8' Eve Height, Pavilion Style Metal Shelter Structure	37,497.40	7,683.70
		For >90 To 100 MPH Wind Load, Add	*3,187.28*	
		For >100 To 110 MPH Wind Load, Add	*3,656.00*	
		For >110 To 120 MPH Wind Load, Add	*4,687.18*	
		For >8' To 10' Eve Height At Perimeter, Add	*2,321.29*	
		For >10' To 12' Eve Height At Perimeter, Add	*4,238.39*	
		For >12' To 14' Eve Height At Perimeter, Add	*6,545.08*	
13 34 23 31-0011	EA	30' x 60', 8' Eve Height, Pavilion Style Metal Shelter Structure	71,456.24	13,881.87
		For >90 To 100 MPH Wind Load, Add	*6,073.78*	
		For >100 To 110 MPH Wind Load, Add	*6,966.98*	
		For >110 To 120 MPH Wind Load, Add	*8,932.03*	
		For >8' To 10' Eve Height At Perimeter, Add	*4,377.69*	
		For >10' To 12' Eve Height At Perimeter, Add	*7,960.16*	
		For >12' To 14' Eve Height At Perimeter, Add	*12,297.52*	
13 34 23 31-0012	EA	40' x 40', 8' Eve Height, Pavilion Style Metal Shelter Structure	63,005.39	12,300.31
		For >90 To 100 MPH Wind Load, Add	*5,355.46*	
		For >100 To 110 MPH Wind Load, Add	*6,143.03*	
		For >110 To 120 MPH Wind Load, Add	*7,875.67*	
		For >8' To 10' Eve Height At Perimeter, Add	*3,849.49*	
		For >10' To 12' Eve Height At Perimeter, Add	*6,992.10*	
		For >12' To 14' Eve Height At Perimeter, Add	*10,803.18*	
13 34 23 31-0013	EA	40' x 60', 8' Eve Height, Pavilion Style Metal Shelter Structure	92,713.73	17,083.41
		For >90 To 100 MPH Wind Load, Add	*7,880.67*	
		For >100 To 110 MPH Wind Load, Add	*9,039.59*	
		For >110 To 120 MPH Wind Load, Add	*11,589.22*	
		For >8' To 10' Eve Height At Perimeter, Add	*5,580.79*	
		For >10' To 12' Eve Height At Perimeter, Add	*10,075.68*	
		For >12' To 14' Eve Height At Perimeter, Add	*15,577.09*	

13 40 Integrated Construction *(13)*

13 42 Building Modules *(13 40)*

13 42 63 Detention Cell Modules *(13 42)*

13 42 63 16 Steel Detention Cell Modules *(13 42 63)*

13 42 63 16-0001	EA	Bar Front, Rolling, 7/8" Bars, 4" On Center, 7' High, 5' Wide Note: With hardware.	13,653.85	969.81
13 42 63 16-0002	EA	Cells, Prefabricated, 5'-6' Wide, 7'-8' High, Bar Front, Cot Note: Not including plumbing.	32,370.54	1,298.59
13 42 63 16-0003	SF	Temporary Holding Cell, 1/4" Woven Rod Panels On 2" Centers Note: Includes 12 gauge steel frame and concealment plates.	137.70	9.19
13 42 63 16-0004	SF	Solid Security Ceiling, 14 Gauge Formed Steel Channels Note: 20" wide, 14 gauge galvannealed steel face sheet, 10 gauge steel wall angle, backed polyester powder finish.	103.52	9.19
13 42 63 16-0005	SF	Perforated Metal Crime Shield	99.46	3.80

13 46 Lightning Protection Systems *(13 40)*

13 46 13 Lightning Protection for Structures *(13 46)*

13 46 13 00-0001 Lightning Protection *(13 46 13)*
See CSI section 26 05 26 00-0001 for conductors.

13 46 13 00-0002 Air Terminals For Lightning Protection *(13 46 13 00-0001)*
See CSI section 13 46 13 00-0015 for air terminal base.

13 46 13 00-0003 Copper Lightning Protection Air Terminals *(13 46 13 00-0002)*

13 46 13 00-0004	EA	3/8" x 10" Copper Lightning Protection Air Terminal	52.20	11.28
13 46 13 00-0005	EA	1/2" x 12" Copper Lightning Protection Air Terminal	65.34	11.28
13 46 13 00-0006	EA	5/8" x 12" Copper Lightning Protection Air Terminal	83.68	11.28
13 46 13 00-0007	EA	1/2" x 24" Copper Lightning Protection Air Terminal	93.22	11.28
13 46 13 00-0008	EA	1/2" x 60" Copper Lightning Protection Air Terminal	178.03	22.56

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 46 13 00-0009		**Aluminum Lightning Protection Air Terminals** *(13 46 13 00-0002)*		
13 46 13 00-0010	EA	3/8" x 10" Aluminum Lightning Protection Air Terminal	40.17	11.28
13 46 13 00-0011	EA	1/2" x 12" Aluminum Lightning Protection Air Terminal	51.81	11.28
13 46 13 00-0012	EA	5/8" x 12" Aluminum Lightning Protection Air Terminal	63.50	11.28
13 46 13 00-0013	EA	1/2" x 24" Aluminum Lightning Protection Air Terminal	70.94	11.28
13 46 13 00-0014	EA	1/2" x 60" Aluminum Lightning Protection Air Terminal	132.17	22.56
13 46 13 00-0015		**Terminal Bases For Lightning Protection** *(13 46 13 00-0001)*		
		See CSI section 13 46 13 00-0002 for air terminal rod.		
13 46 13 00-0016		**Copper Lightning Protection Terminal Bases** *(13 46 13 00-0015)*		
13 46 13 00-0017	EA	Adhesive Base For Copper Lightning Protection Terminal	111.56	33.84
13 46 13 00-0018	EA	Bolted Base For Copper Lightning Protection Terminal	133.71	45.12
13 46 13 00-0019	EA	Hinged Base For Copper Lightning Protection Terminal	187.95	56.40
13 46 13 00-0020	EA	Side Mounted Base For Copper Lightning Protection Terminal	133.71	45.12
13 46 13 00-0021	EA	Offset Point Support For Copper Lightning Protection Terminal	147.90	45.12
13 46 13 00-0022	EA	Concealed Base Assembly For Copper Lightning Protection Terminal	254.26	90.24
13 46 13 00-0023	EA	36" Tripod Base For 60" Copper Lightning Protection Terminal	184.23	56.40
13 46 13 00-0024	EA	Intermediate Base For Copper Lightning Protection Terminal	111.56	33.84
13 46 13 00-0025		**Aluminum Lightning Protection Terminal Bases** *(13 46 13 00-0015)*		
13 46 13 00-0026	EA	Adhesive Base For Aluminum Lightning Protection Terminal	72.33	33.84
13 46 13 00-0027	EA	Bolted Base For Aluminum Lightning Protection Terminal	106.55	45.12
13 46 13 00-0028	EA	Hinged Base For Aluminum Lightning Protection Terminal	138.44	56.40
13 46 13 00-0029	EA	Side Mounted Base For Aluminum Lightning Protection Terminal	106.72	45.12
13 46 13 00-0030	EA	Offset Point Support For Aluminum Lightning Protection Terminal	109.20	45.12
13 46 13 00-0031	EA	Concealed Base Assembly For Aluminum Lightning Protection Terminal	201.56	90.24
13 46 13 00-0032	EA	36" Tripod Base For 60" Aluminum Lightning Protection Terminal	142.86	56.40
13 46 13 00-0033	EA	Intermediate Base For Aluminum Lightning Protection Terminal	72.33	33.84
13 46 13 00-0034		**Connectors** *(13 46 13 00-0001)*		
13 46 13 00-0035		**Copper Cable Connectors** *(13 46 13 00-0034)*		
13 46 13 00-0036	EA	Thru Wall Cable Connector For Copper Lightning Protection System	225.50	56.40
13 46 13 00-0037	EA	Thru Roof Adapter Assembly For Copper Lightning Protection System	292.59	90.24
13 46 13 00-0038	EA	Beam Connector For Copper Lightning Protection System	190.53	56.40
13 46 13 00-0039	EA	Double Bolt Cable Connector For Copper Lightning Protection System	49.75	11.28
13 46 13 00-0040	EA	Cable To Bar Connector For Copper Lightning Protection System	53.00	11.28
13 46 13 00-0041	EA	Tee Connector For Copper Lightning Protection Terminal	157.67	33.84
13 46 13 00-0042		**Aluminum Cable Connectors** *(13 46 13 00-0034)*		
13 46 13 00-0043	EA	Thru Wall Cable Connector For Aluminum Lightning Protection System	146.05	56.40
13 46 13 00-0044	EA	Thru Roof Adapter Assembly For Aluminum Lightning Protection System	211.73	90.24
13 46 13 00-0045	EA	Beam Connector For Aluminum Lightning Protection System	140.74	56.40
13 46 13 00-0046	EA	Double Bolt Cable Connector For Aluminum Lightning Protection System	30.93	11.28
13 46 13 00-0047	EA	Tee Connector For Aluminum Lightning Protection Terminal	91.99	33.84
13 46 13 00-0048		**Bonding Plates** *(13 46 13 00-0001)*		
13 46 13 00-0049		**Copper Bonding Plates** *(13 46 13 00-0048)*		
13 46 13 00-0050	EA	8" Square I Beam Bonding Plate For Copper Lightning Protection System	156.73	56.40
13 46 13 00-0051	EA	8" Square Purlin Bonding Plate For Copper Lightning Protection System	165.40	56.40
13 46 13 00-0052	EA	16" Square Bonding Plate For Copper Lightning Protection System	240.38	90.24
13 46 13 00-0053		**Aluminum Bonding Plates** *(13 46 13 00-0048)*		
13 46 13 00-0054	EA	8" Square I Beam Bonding Plate For Aluminum Lightning Protection System	129.25	56.40
13 46 13 00-0055	EA	8" Square Purlin Bonding Plate For Aluminum Lightning Protection System	132.08	56.40
13 46 13 00-0056	EA	16" Square Bonding Plate For Aluminum Lightning Protection System	194.31	90.24
13 46 13 00-0057		**Cable Supports** *(13 46 13 00-0001)*		
13 46 13 00-0058		**Copper Cable Supports** *(13 46 13 00-0057)*		
13 46 13 00-0059	EA	Loop Fastener, Copper Cable Supports For Lightning Protection System	29.38	11.28
13 46 13 00-0060	EA	Adhesive Cable Holder, Copper Cable Support For Lightning Protection System	31.02	11.28
13 46 13 00-0061		**Aluminum Cable Supports** *(13 46 13 00-0057)*		
13 46 13 00-0062	EA	Loop Fastener, Aluminum Cable Supports For Lightning Protection System	25.54	11.28
13 46 13 00-0063	EA	Adhesive Cable Holder, Aluminum Cable Support For Lightning Protection System	25.35	11.28

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 46 13 00-0064		Bonding Straps *(13 46 13 00-0001)*		
13 46 13 00-0065		Copper Bonding Straps *(13 46 13 00-0064)*		
13 46 13 00-0066	EA	3/4" x 9-1/2" Flex Braided Strap For Copper Lightning Protection System	85.50	33.84
13 46 13 00-0067		Aluminum Bonding Straps *(13 46 13 00-0064)*		
13 46 13 00-0068	EA	3/4" x 9-1/2" Flex Braided Strap For Aluminum Lightning Protection System	66.32	33.84
13 46 13 00-0069		Accessories For Lightning Protection *(13 46 13 00-0001)* See CSI section 26 05 26 00-0001 for conductors straps and conduit jumpers.		
13 46 13 00-0070		Copper Adapters *(13 46 13 00-0069)*		
13 46 13 00-0071	EA	Swivel Adapters For Copper Lightning Protection System	42.77	5.64
13 46 13 00-0072		Aluminum Adapters *(13 46 13 00-0069)*		
13 46 13 00-0073	EA	Swivel Adapters For Aluminum Lightning Protection System	21.68	5.64
13 46 13 00-0074	EA	Floor Ground Receptacle For Aluminum Lightning Protection System	179.63	56.40

13 47 Facility Protection *(13 40)*

13 47 13 Cathodic Protection *(13 47)*

13 47 13 13 Cathodic Protection for Underground and Submerged Piping *(13 47 13)*

13 47 13 13-0001		Cathodic Joint Bond *(13 47 13 13)* Note: Includes thermite welds with #4 or #6 AWG copper cable as indication per standard details.		
13 47 13 13-0002	EA	Cathodic Pipe Joint Bond	239.81	
13 47 13 13-0003	EA	Cathodic Fitting Joint Bond	418.98	
13 47 13 13-0004	EA	Cathodic Valve Joint Bond	359.25	
13 47 13 13-0005	EA	Cathodic Vault Joint Bond	299.54	
13 47 13 13-0006	EA	Cathodic Fire Hydrant Joint Bond	239.81	
13 47 13 13-0007		Anodes *(13 47 13 13)*		
13 47 13 13-0008		Magnesium Type, Conventional *(13 47 13 13-0007)*		
13 47 13 13-0009	EA	9 Lb. Magnesium Type Anodes	386.32	166.37
13 47 13 13-0010	EA	17 Lb. Magnesium Type Anodes	574.75	240.45
13 47 13 13-0011	EA	32 Lb. Magnesium Type Anode	789.35	309.34
13 47 13 13-0012	EA	48 Lb. Magnesium Type Anode	1,125.73	432.81
13 47 13 13-0013		Graphite Type *(13 47 13 13-0007)* Note: Includes epoxy cap.		
13 47 13 13-0014	EA	3" x 60", 32 Lb., Graphite Type Anodes With Epoxy Cap	572.02	228.77
13 47 13 13-0015	EA	4" x 80", 68 Lb., Graphite Type Anodes With Epoxy Cap	903.10	319.46
13 47 13 13-0016	EA	6" x 36", 45 Lb., Graphite Type Anodes With Epoxy Cap	692.90	199.92
13 47 13 13-0017	EA	6" x 72", 80 Lb., Graphite Type Anodes With Epoxy Cap	1,074.86	266.90
13 47 13 13-0018		Rectifiers *(13 47 13 13)*		
13 47 13 13-0019		Air-Cooled, Silicon Type *(13 47 13 13-0018)*		
13 47 13 13-0020	EA	Air-Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type	2,210.05	324.86
13 47 13 13-0021	EA	Air-Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type	2,404.69	324.86
13 47 13 13-0022		Oil Immersed, Silicon Type *(13 47 13 13-0018)*		
13 47 13 13-0023	EA	Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type	3,391.26	375.62
13 47 13 13-0024	EA	Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type	3,599.80	375.62
13 47 13 13-0025		Anode Backfill *(13 47 13 13)*		
13 47 13 13-0026	LB	Anode Backfill, Coke Breeze	1.10	0.41
13 47 13 13-0027		Cathodic Protection Cable *(13 47 13 13)*		
13 47 13 13-0028	MLF	Cathodic Protection Cable, OR2 - No 8	2,488.15	799.67
13 47 13 13-0029	MLF	Cathodic Protection Cable, OR2 - No 6	2,882.56	799.67
13 47 13 13-0030	MLF	Cathodic Protection Cable, OR2 - No 4	3,474.17	799.67
13 47 13 13-0031	MLF	Cathodic Protection Cable, OR2 - No 2	4,460.19	799.67
13 47 13 13-0032	MLF	Cathodic Protection Cable, OR2 - No 1	5,703.12	881.08
13 47 13 13-0033	MLF	Cathodic Protection Cable, OR2-No 1/0	6,442.64	881.08
13 47 13 13-0034	MLF	Cathodic Protection Cable, OR2-No 2/0	7,675.17	881.08
13 47 13 13-0035	MLF	Cathodic Protection Cable, OR2-No 4/0	10,791.23	960.43

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 47 13 13-0036		Cathodic Test Stations *(13 47 13 13)*		
13 47 13 13-0037		Flush Curb Box Type With Lockable Cover And Terminal Box *(13 47 13 13-0036)*		
13 47 13 13-0038	EA	Cathodic Test Station, Flush Curb Type With Lockable Cover	301.70	93.62

13 47 13 16 Cathodic Protection for Underground Storage Tanks *(13 47 13)*

See CSI section 13 47 13 13-0000 for Cathodic protection for tanks.

13 48 Sound, Vibration, and Seismic Control *(13 40)*

13 48 53 Manufactured Seismic Control Components *(13 48)*

13 48 53 00-0001		Seismic Bracing Assembly *(13 48 53)*		
13 48 53 00-0002	EA	4-Bolt Deck Anchor Connection For Seismic Brace Note: Includes drilling into concrete, bolts, anchor plate, seismic bracket attached with bolt, nut and washer.	198.31	
13 48 53 00-0003	EA	2 Cable Seismic Brace With Center Threaded Rod Stiffener Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.	188.85	
13 48 53 00-0004	EA	3 Cable Seismic Brace With Center Threaded Rod Stiffener Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.	284.76	
13 48 53 00-0005	EA	4 Cable Seismic Brace With Center Threaded Rod Stiffener Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.	369.86	
13 48 53 00-0006	EA	2 Channel Seismic Brace With Center Threaded Rod Stiffener Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.	386.91	
13 48 53 00-0007	EA	3 Channel Seismic Brace With Center Threaded Rod Stiffener Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.	576.45	
13 48 53 00-0008	EA	4 Channel Seismic Brace With Center Threaded Rod Stiffener Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.	765.98	
13 48 53 00-0009	EA	2 Rod Seismic Brace With Center Threaded Rod Stiffener Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.	220.62	
13 48 53 00-0010	EA	3 Rod Seismic Brace With Center Threaded Rod Stiffener Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.	327.01	
13 48 53 00-0011	EA	4 Rod Seismic Brace With Center Threaded Rod Stiffener Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.	433.41	
13 48 53 00-0012		Seismic Brace Components *(13 48 53)*		
13 48 53 00-0013	EA	1/8" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-1) Note: To be used with 7x19 stranded cable.	36.08	
13 48 53 00-0014	EA	3/16" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-2) Note: To be used with 7x19 stranded cable.	50.04	
13 48 53 00-0015	EA	1/4" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-3) Note: To be used with 7x19 stranded cable.	66.81	
13 48 53 00-0016	EA	3/8" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-4) Note: To be used with 7x19 stranded cable.	91.92	
13 48 53 00-0017	EA	Seismic Solid Brace Swivel Anchor (Mason SSB-1) Note: To be used with angle or channel.	33.80	
13 48 53 00-0018	EA	Seismic Solid Brace Swivel Anchor (Mason SSB-2) Note: To be used with angle or channel.	46.09	
13 48 53 00-0019	EA	Seismic Solid Brace Swivel Anchor (Mason SSB-3) Note: To be used with angle or channel.	61.02	
13 48 53 00-0020	EA	Seismic Solid Brace Swivel Anchor (Mason SSB-4) Note: To be used with angle or channel.	82.96	
13 48 53 00-0021	EA	1/8" Cable Diameter Seismic Cable Brace Hook Anchor (Mason SCBH-1) Note: To be used with 7x19 stranded cable.	41.26	
13 48 53 00-0022	EA	3/16" Cable Diameter Seismic Cable Brace Hook Anchor (Mason SCBH-2) Note: To be used with 7x19 stranded cable.	54.87	
13 48 53 00-0023	EA	1/4" Cable Diameter Seismic Cable Brace Hook Anchor (Mason SCBH-3) Note: To be used with 7x19 stranded cable.	76.82	
13 48 53 00-0024	EA	1/8" Cable Diameter Seismic Cable Brace Vise Anchor (Mason SCBV-1) Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.	73.31	
13 48 53 00-0025	EA	3/16" Cable Diameter Seismic Cable Brace Vise Anchor (Mason SCBV-2) Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.	103.60	
13 48 53 00-0026	EA	1/4" Cable Diameter Seismic Cable Brace Vise Anchor (Mason SCBV-3) Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.	141.79	
13 48 53 00-0027	EA	Seismic Rod Clamp (Mason SRC-1) Note: To be used on 3/8" through 5/8" rod. 1" x 1" x 1/4" Angle or Stiffener not included.	30.82	
13 48 53 00-0028	EA	Seismic Rod Clamp (Mason SRC-1 1/2) Note: To be used on 3/8" through 1" rod. 1-1/2" x 1-1/2" x 1/4" Angle or Stiffener not included.	37.84	
13 48 53 00-0029	EA	Seismic Rod Clamp (Mason SRC-2) Note: To be used on 3/8" through 1-1/4" rod. 2" x 2" x 1/4" Angle or Stiffener not included.	47.50	

13 48 63 Fabricated Seismic Control Assemblies *(13 48)*

13 48 63 00-0001		Seismic Restraints *(13 48 63)*		
13 48 63 00-0002	EA	1" x 1" Seismic Fastener, Gray, Drilled With 0.187 Diameter Hole Note: Adhesive applied.	6.08	1.43
13 48 63 00-0003	EA	1" x 1" Seismic Fastener, Gray, Adhesive Applied	4.66	0.71
13 48 63 00-0004	EA	1" x 2" Seismic Fastener, Gray, Drilled With (2) 0.187 Diameter Hole Note: Adhesive applied.	7.94	1.79
13 48 63 00-0005	EA	1" x 2" Seismic Fastener, Gray, Adhesive Applied	5.94	0.89
13 48 63 00-0006	EA	2" x 2" Seismic Fastener, Gray, Adhesive Applied	7.50	1.04
13 48 63 00-0007	EA	2" x 3" Seismic Fastener, Gray, Adhesive Applied	12.53	1.26

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 48 63 00-0008	LF	3/4" Wide Seismic Strap, Gray	5.41	1.08
13 48 63 00-0009	LF	1" Wide Seismic Strap, Gray	7.87	1.08
13 48 63 00-0010	EA	3/4" Wide x 4" Long Seismic Strap, Gray	2.64	0.71
13 48 63 00-0011	EA	3/4" Wide x 12" Long Seismic Strap, Gray	11.74	2.14
13 48 63 00-0012	LF	Seismic Chord, Black	3.32	1.08
13 48 63 00-0013	LF	SAFELOK Seismic Fastener, Black	4.34	1.08

13 48 63 00-0014 ISAT Seismic Restraint Kits *(13 48 63)*

Note: Pipe/Conduit restraint kit includes hanger, pipe clamp, channel, threaded rod, washers, nuts, bracket, brace arm and deck anchors. Trapeze rack restraint kits include Unistrut, channel, threaded rod, washers, nuts, bracket, brace arm and deck anchors.

13 48 63 00-0015 Trapeze Rack Restraints *(13 48 63 00-0014)*

13 48 63 00-0016	EA	1-Way Rigid Seismic Brace, ISAT Kit Number 1R3-N4-TR	274.61	
13 48 63 00-0017	EA	3-Way Rigid Seismic Brace, ISAT Kit Number 3R3-N4-TR	604.25	
13 48 63 00-0018	EA	4-Way Rigid Seismic Brace, ISAT Kit Number 4R3-N4-TR	764.26	
13 48 63 00-0019	EA	2-Way Rigid Seismic Brace, ISAT Kit Number 2R7-N5-TR	444.24	
13 48 63 00-0020	EA	2-Way Rigid Seismic Brace, ISAT Kit Number 2R7-N7-TR	448.37	
13 48 63 00-0021	EA	1-Way Rigid Seismic Brace, ISAT Kit Number 1R7-N4-TR	274.61	
13 48 63 00-0022	EA	4-Way Rigid Seismic Brace, ISAT Kit Number 4R10-N8-TR	772.50	
13 48 63 00-0023	EA	3-Way Rigid Seismic Brace, ISAT Kit Number 3R7-N4-TR	604.25	

13 48 63 00-0024 Single Hung Pipe Restraints *(13 48 63 00-0014)*

13 48 63 00-0025	EA	1-Way Rigid Seismic Brace For 1" Diameter Pipe, ISAT Kit Number 1R1-N4-1"-SH	243.48	
13 48 63 00-0026	EA	2-Way Rigid Seismic Brace For 1" Diameter Pipe, ISAT Kit Number 1R1-N4-1"-SH	387.33	
13 48 63 00-0027	EA	1-Way Rigid Seismic Brace For 1.25" Diameter Pipe, ISAT Kit Number 1R1-N4-1.25"-SH	259.32	
13 48 63 00-0028	EA	2-Way Rigid Seismic Brace For 1.25" Diameter Pipe, ISAT Kit Number 1R1-N4-1.25"-SH	403.18	
13 48 63 00-0029	EA	1-Way Rigid Seismic Brace For 1.5" Diameter Pipe, ISAT Kit Number 1R1-N4-1.5"-SH	273.71	
13 48 63 00-0030	EA	2-Way Rigid Seismic Brace For 1.5" Diameter Pipe, ISAT Kit Number 1R1-N4-1.5"-SH	417.55	
13 48 63 00-0031	EA	1-Way Rigid Seismic Brace For 2" Diameter Pipe, ISAT Kit Number 1R1-N4-2"-SH	290.62	
13 48 63 00-0032	EA	2-Way Rigid Seismic Brace For 2" Diameter Pipe, ISAT Kit Number 1R1-N4-2"-SH	434.48	
13 48 63 00-0033	EA	1-Way Rigid Seismic Brace For 2.5" Diameter Pipe, ISAT Kit Number 1R3-N4-2.5"-SH	311.15	
13 48 63 00-0034	EA	2-Way Rigid Seismic Brace For 2.5" Diameter Pipe, ISAT Kit Number 2R3-N4-2.5"-SH	455.00	
13 48 63 00-0035	EA	1-Way Rigid Seismic Brace For 3" Diameter Pipe, ISAT Kit Number 1R3-N4-3"-SH	327.54	
13 48 63 00-0036	EA	2-Way Rigid Seismic Brace For 3" Diameter Pipe, ISAT Kit Number 2R3-N4-3"-SH	471.39	
13 48 63 00-0037	EA	1-Way Rigid Seismic Brace For 4" Diameter Pipe, ISAT Kit Number 1R7-N4-4"-SH	352.48	
13 48 63 00-0038	EA	1-Way Rigid Seismic Brace For 4" Diameter Pipe, ISAT Kit Number 1R7-N7-4"-SH	354.54	
13 48 63 00-0039	EA	2-Way Rigid Seismic Brace For 4" Diameter Pipe, ISAT Kit Number 2R7-N7-4"-SH	500.46	
13 48 63 00-0040	EA	1-Way Rigid Seismic Brace For 6" Diameter Pipe, ISAT Kit Number 1R11-N7-6"-SH	402.18	
13 48 63 00-0041	EA	1-Way Rigid Seismic Brace For 6" Diameter Pipe, ISAT Kit Number 1R11-N8-6"-SH	404.24	
13 48 63 00-0042	EA	2-Way Rigid Seismic Brace For 6" Diameter Pipe, ISAT Kit Number 2R11-N8-6"-SH	550.16	
13 48 63 00-0043	EA	1-Way Rigid Seismic Brace For 8" Diameter Pipe, ISAT Kit Number 1R17-N5-8"-SH	432.38	
13 48 63 00-0044	EA	1-Way Rigid Seismic Brace For 8" Diameter Pipe, ISAT Kit Number 1R19-N8-8"-SH	434.44	
13 48 63 00-0045	EA	2-Way Rigid Seismic Brace For 8" Diameter Pipe, ISAT Kit Number 2R19-N8-8"-SH	580.35	

13 48 63 00-0046 Single Hung Cast Iron Pipe Restraints *(13 48 63 00-0014)*

13 48 63 00-0047	EA	1-Way Rigid Seismic Brace For 2.5" Diameter Pipe, ISAT Kit Number 1R3-N4-2.5"-CI	311.15	
13 48 63 00-0048	EA	2-Way Rigid Seismic Brace For 2.5" Diameter Pipe, ISAT Kit Number 2R3-N4-2.5"-CI	455.00	
13 48 63 00-0049	EA	1-Way Rigid Seismic Brace For 3" Diameter Pipe, ISAT Kit Number 1R3-N4-3"-CI	327.54	
13 48 63 00-0050	EA	2-Way Rigid Seismic Brace For 3" Diameter Pipe, ISAT Kit Number 2R3-N4-3"-CI	471.39	
13 48 63 00-0051	EA	1-Way Rigid Seismic Brace For 4" Diameter Pipe, ISAT Kit Number 1R7-N4-4"-CI	352.48	
13 48 63 00-0052	EA	2-Way Rigid Seismic Brace For 4" Diameter Pipe, ISAT Kit Number 2R7-N4-4"-CI	494.38	
13 48 63 00-0053	EA	1-Way Rigid Seismic Brace For 6" Diameter Pipe, ISAT Kit Number 1R11-N4-6"-CI	402.18	
13 48 63 00-0054	EA	2-Way Rigid Seismic Brace For 6" Diameter Pipe, ISAT Kit Number 2R11-N4-6"-SH	550.16	

13 48 63 00-0055 Single Hung Rigid Conduit Restraints *(13 48 63 00-0014)*

13 48 63 00-0056	EA	1-Way Rigid Seismic Brace For 3" Conduit, ISAT Kit Number 1R3-N4-3"-SC	327.54	
13 48 63 00-0057	EA	2-Way Rigid Seismic Brace For 3" Conduit, ISAT Kit Number 2R3-N4-3"-SC	471.39	

13 49 Radiation Protection *(13 40)*

13 49 13 Integrated X-Ray Shielding Assemblies *(13 49)*

13 49 13 00-0001 Lead Shielding *(13 49 13)*

13 49 13 00-0002	SF	1/16" Sheet Lead Shielding	49.00	8.57
13 49 13 00-0003	SF	1/8" Sheet Lead Shielding	82.28	9.28
13 49 13 00-0004	SF	1/4" Sheet Lead Shielding	145.32	9.99
13 49 13 00-0005	SF	1/2" Sheet Lead Shielding	276.26	12.86

13 49 16 Modular X-Ray Shielding Rooms *(13 49)*

13 49 16 00-0001 X-Ray Barriers, Modular *(13 49 16)*

Note: Panels mounted within framework for attaching to floor, wall or ceiling, upper portion is clear lead plastic window panels 48" high, lower portion is opaque leaded steel panels 36" high. Excludes structural supports.

13 49 16 00-0002 36" Wide x 84" High, 1-Section Barrier, Modular X-Ray Barriers *(13 49 16 00-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 49 16 00-0003	EA	0.5mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High	12,345.70	176.09
13 49 16 00-0004	EA	0.8mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High	13,114.51	176.09
13 49 16 00-0005	EA	1.0mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High	13,492.48	211.31
13 49 16 00-0006	EA	1.5mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High	14,415.06	211.31
13 49 16 00-0007		72" Wide x 84" High, 2-Section Barrier, Modular X-Ray Barriers *(13 49 16 00-0001)*		
13 49 16 00-0008	EA	0.5mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H	26,549.44	281.75
13 49 16 00-0009	EA	0.8mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H	27,625.79	281.75
13 49 16 00-0010	EA	1.0mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H	28,465.10	316.97
13 49 16 00-0011	EA	1.5mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H	30,688.16	352.18
13 49 16 00-0012		108" Wide x 84" High, 3-Section Barrier, Modular X-Ray Barriers *(13 49 16 00-0001)*		
13 49 16 00-0013	EA	0.5mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H	40,375.23	352.18
13 49 16 00-0014	EA	0.8mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H	42,374.15	352.18
13 49 16 00-0015	EA	1.0mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H	43,283.84	422.62
13 49 16 00-0016	EA	1.5mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H	46,429.42	457.84
13 49 16 00-0017		X-Ray Barriers, Mobile *(13 49 16)* Note: Mounted within framework with casters on bottom, clear lead plastic window panels on upper portion, opaque on lower.		
13 49 16 00-0018		30" Wide x 75" High, Mobile X-Ray Barriers *(13 49 16 00-0017)* Note: Includes Framework		
13 49 16 00-0019	EA	24" H Upper With 0.5mm LE, 48" H Lower With 0.8mm LE Mobile X-Ray Barriers	8,528.38	35.71
13 49 16 00-0020		48" Wide x 75" High, Mobile X-Ray Barriers *(13 49 16 00-0017)* Note: Includes Framework		
13 49 16 00-0021	EA	36"H Upper With 0.5mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers	15,140.19	35.71
13 49 16 00-0022	EA	36"H Upper With 1.0mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers	18,215.45	35.71
13 49 16 00-0023		72" Wide x 75" High, Mobile X-Ray Barriers *(13 49 16 00-0017)* Note: Includes Framework		
13 49 16 00-0024	EA	36"H Upper With 0.5mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers	17,907.92	35.71
13 49 16 00-0025	EA	36"H Upper With 1.0mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers	22,674.58	35.71
13 49 19		**Lead-Lined Materials** *(13 49)*		
13 49 19 16		**Lead-Lined Drywall** *(13 49 19)*		
13 49 19 16-0001		Lead Lined Drywall *(13 49 19 16)*		
13 49 19 16-0002	SF	1/32" Lead Lined 5/8" Fire Rated Drywall	26.80	1.87
13 49 19 16-0003	SF	1/16" Lead Lined 5/8" Fire Rated Drywall	46.54	2.24
13 49 19 16-0004	SF	1/8" Lead Lined 5/8" Fire Rated Drywall	84.18	2.69

END OF SECTION 13

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 01 Operation and Maintenance of Plumbing *(22)*

22 01 10 Operation and Maintenance of Plumbing Piping and Pumps *(22 01)*

22 01 10 61 Plumbing Piping Repairs *(22 01 10)*

22 01 10 61-0001 Pipe Repair Clamps *(22 01 10 61)*

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	48.37
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	50.34
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	55.34
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	59.04
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	63.95
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	81.52
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	103.63
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	120.32
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	137.89
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	76.45
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	80.58
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	89.19
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	98.02
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	108.06
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	139.55
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	169.25
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	192.68
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	218.48
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	108.71
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	113.09
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	124.96
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	137.06
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	154.76
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	189.19
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	222.07
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	267.53
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	329.62
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	338.04
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	362.34

22 01 10 61-0031 Replace Drain Covers *(22 01 10 61)*

22 01 10 61-0032	EA	4-3/4" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	61.43
22 01 10 61-0033	EA	4-7/8" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	61.45
22 01 10 61-0034	EA	5" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	44.05
22 01 10 61-0035	EA	5-1/4" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	69.99
22 01 10 61-0036	EA	5-1/2" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	69.86
22 01 10 61-0037	EA	6" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	52.79
22 01 10 61-0038	EA	6-1/4" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	60.87
22 01 10 61-0039	EA	6-3/8" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	84.72
22 01 10 61-0040	EA	6-1/2" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	67.26
22 01 10 61-0041	EA	6-5/8" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	68.26

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 01 10 61-0042	EA	6-3/4" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	70.45	
22 01 10 61-0043	EA	6-7/8" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	92.45	
22 01 10 61-0044	EA	7" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	75.76	
22 01 10 61-0045	EA	7-1/4" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	79.36	
22 01 10 61-0046	EA	7-1/2" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	84.62	
22 01 10 61-0047	EA	7-3/4" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	87.93	
22 01 10 61-0048	EA	7-7/8" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	111.83	
22 01 10 61-0049	EA	8" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	95.09	
22 01 10 61-0050	EA	8-1/4" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	99.79	
22 01 10 61-0051	EA	8-1/2" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	103.37	
22 01 10 61-0052	EA	8-3/4" Diameter, 1/4" Thick, Cast Iron Drain Cover Replacement	114.75	
22 01 10 61-0053	EA	9" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	135.18	
22 01 10 61-0054	EA	9-1/4" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	148.30	
22 01 10 61-0055	EA	9-1/2" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	156.55	
22 01 10 61-0056	EA	9-5/8" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	184.07	
22 01 10 61-0057	EA	9-3/4" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	166.70	
22 01 10 61-0058	EA	10" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	168.18	
22 01 10 61-0059	EA	10-1/4" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	190.97	
22 01 10 61-0060	EA	10-3/8" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	191.24	
22 01 10 61-0061	EA	10-1/2" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	191.70	
22 01 10 61-0062	EA	10-3/4" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	193.45	
22 01 10 61-0063	EA	10-7/8" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	193.25	
22 01 10 61-0064	EA	11" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	192.17	
22 01 10 61-0065	EA	11-3/8" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	192.10	
22 01 10 61-0066	EA	11-1/2" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	191.48	
22 01 10 61-0067	EA	12" Diameter, 5/16" Thick, Cast Iron Drain Cover Replacement	174.45	
22 01 10 61-0068	EA	4" Diameter, 0.15" Thick, Slotted Polished Cast Brass Drain Cover Replacement	50.36	
22 01 10 61-0069	EA	4-1/4" Diameter, 0.15" Thick, Slotted Polished Cast Brass Drain Cover Replacement	54.57	
22 01 10 61-0070	EA	4-3/4" Diameter, 0.15" Thick, Slotted Polished Cast Brass Drain Cover Replacement	64.43	
22 01 10 61-0071	EA	5-1/2" Diameter, 0.15" Thick, Slotted Polished Cast Brass Drain Cover Replacement	84.92	
22 01 10 61-0072	EA	7-1/2" Diameter, 0.15" Thick, Slotted Polished Cast Brass Drain Cover Replacement	127.47	
22 01 10 61-0073	EA	9-1/2" Diameter, 0.15" Thick, Slotted Polished Cast Brass Drain Cover Replacement	191.41	
22 01 10 61-0074		Repair And Tape Pipe Insulation Seam *(22 01 10 61)*		
22 01 10 61-0075	LF	Repair and Taping Of Damaged Pipe Insulation Seam	1.35	

22 01 40 Operation and Maintenance of Plumbing Fixtures *(22 01)*

22 01 40 81 Plumbing Fixtures Replacement *(22 01 40)*

22 01 40 81-0001 Removal And Replacement Of Fixture And/or Trim *(22 01 40 81)*
Note: Includes removal of existing item(s) and installation of new item(s).

22 01 40 81-0002	EA	Removal And Replacement Of 3/8" To 1/2" Diameter Compression Shut-off Valve With 15" Polybutylene Supply Tube	67.18	
22 01 40 81-0003	EA	Removal And Replacement Of 3/8" Diameter Compression x 1/2" Diameter FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory	24.32	
22 01 40 81-0004	EA	Removal And Replacement Of Chrome Supply Lines To Sink/Lavatory, Pair	32.60	
22 01 40 81-0005	EA	Removal And Replacement Of Single Bowl Sink/Lavatory Drain Line	45.59	
22 01 40 81-0006	EA	Removal And Replacement Of Double Bowl Sink/Lavatory Drain Line	70.80	
22 01 40 81-0007	EA	Removal And Replacement Of Shower Head, Polished Chrome	45.63	
22 01 40 81-0008	EA	Removal And Replacement Of Shower Arm	52.65	
22 01 40 81-0009	EA	Removal And Replacement Of Shower Head	65.18	
22 01 40 81-0010	EA	Removal And Replacement Of Shower Knob	48.33	
22 01 40 81-0011	EA	Removal And Replacement Of Shower and Tub Control Trim Note: Excludes balancing valve.	127.49	
22 01 40 81-0012	EA	Removal And Replacement Of Sink Basket Strainer	35.01	
22 01 40 81-0013	EA	Removal And Replacement Of 1-1/2" Sink Drain Without Stopper	18.74	
22 01 40 81-0014	EA	Removal And Replacement Of 4-1/2" Sink Drain Without Stopper	19.69	
22 01 40 81-0015	EA	Removal And Replacement Of 1-1/2" Sink Drain With Stopper	18.74	
22 01 40 81-0016	EA	Removal And Replacement Of 1" Sink Rubber Stopper	10.33	
22 01 40 81-0017	EA	Removal And Replacement Of Sink Tailpiece Extension, 1-1/2" Diameter x 8"	29.97	
22 01 40 81-0018	EA	Removal And Replacement Of Sink Trap, Adjustable, 1-1/2" Diameter	49.97	
22 01 40 81-0019	EA	Removal And Replacement Of Lavatory Pop-Up Rod	42.36	
22 01 40 81-0020	EA	Removal And Replacement Of Lavatory Pop-up Drain Stopper	35.89	
22 01 40 81-0021	EA	Removal And Replacement Of Faucet Handle	40.49	
22 01 40 81-0022	EA	Removal And Replacement Of Faucet O-Ring	30.34	
22 01 40 81-0023	EA	Removal And Replacement Of 1-1/2" Diameter Faucet Hole Cover	22.59	
22 01 40 81-0024	EA	Removal And Replacement Of Toilet Ballcock	42.90	
22 01 40 81-0025	EA	Removal And Replacement Of Toilet Bowl Ring, Flat Wax Note: Excludes removal of toilet.	10.79	
22 01 40 81-0026	EA	Removal And Replacement Of Toilet Tank	169.86	
22 01 40 81-0027	EA	Removal And Replacement Of 10" Toilet Bowl	213.92	
22 01 40 81-0028	EA	Removal And Replacement Of 10", Low-Flush Watersaver, Toilet Bowl	229.79	
22 01 40 81-0029	EA	Removal And Replacement Of 12" Toilet Bowl	245.11	
22 01 40 81-0030	EA	Removal And Replacement Of 18", Elongated, Toilet Bowl	219.26	
22 01 40 81-0031	EA	Removal And Replacement Of Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers	26.63	
22 01 40 81-0032	EA	Removal And Replacement Of Toilet Flapper With Chain	19.65	
22 01 40 81-0033	EA	Removal And Replacement Of Toilet Flush Tank Lever	21.21	
22 01 40 81-0034	EA	Removal And Replacement Of Elongated Toilet Seat With Lid	78.15	
22 01 40 81-0035	EA	Removal And Replacement Of Elongated Toilet Seat Without Lid	80.16	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 01 40 81-0036	EA	Removal And Replacement Of Open Front Elongated Toilet Seat (American Standard 5901.100)	59.99	
22 01 40 81-0037	EA	Removal And Replacement Of Open Front Elongated Toilet Seat With Self-Sustaining Hinge (American Standard 5901.100SS)	64.30	
22 01 40 81-0038	EA	Removal And Replacement Of Open Front Elongated Toilet Seat With EverClean® Surface (American Standard 5901.110)	67.05	
22 01 40 81-0039	EA	Removal And Replacement Of Open Front Elongated Heavy-Duty Toilet Seat (American Standard 5905.100)	67.69	
22 01 40 81-0040	EA	Removal And Replacement Of Open Front Elongated Heavy-Duty Toilet Seat With Self-Sustaining Hinge (American Standard 5905.100SS)	70.88	
22 01 40 81-0041	EA	Removal And Replacement Of Open Front Elongated Heavy-Duty Toilet Seat With EverClean® Surface (American Standard 5905.110)	74.71	
22 01 40 81-0042	EA	Removal And Replacement Of Open Front Elongated Extra Heavy-Duty Toilet Seat (American Standard 5910.100)	75.98	
22 01 40 81-0043	EA	Removal And Replacement Of Open Front Elongated Extra Heavy-Duty Toilet Seat With EverClean® Surface (American Standard 5910.110)	83.64	
22 01 40 81-0044	EA	Removal And Replacement Of Handicap Toilet Seat, Complete With Rails	335.60	
22 01 40 81-0045	EA	Removal And Replacement Of Diverter Tub Spout	80.99	
22 01 40 81-0046	EA	Removal And Replacement Of Tub Spout	54.60	
22 01 40 81-0047	EA	Removal And Replacement Of 2" Tub Stopper	12.06	
22 01 40 81-0048	EA	Removal And Replacement Of Tub Waste/Overflow	82.99	
22 01 40 81-0049	EA	Removal And Replacement Of Tub Stem Bonnet Assembly	42.77	
22 01 40 81-0050	EA	Removal And Replacement Of Faucet Bonnet	47.10	
22 01 40 81-0051	EA	Removal And Replacement Of Faucet Diverter Stem	29.58	
22 01 40 81-0052	EA	Removal And Replacement Of Faucet Diverter Stem And Bonnet	39.22	
22 01 40 81-0053	EA	Removal And Replacement Of Faucet Spout	44.45	
22 01 40 81-0054	EA	Removal And Replacement Of Faucet Stem	32.72	
22 01 40 81-0055	EA	Removal And Replacement Of Plastic, Chrome Plated Drinking Fountain Bubbler Valve With Flexible Bubbler Guard	296.15	
22 01 40 81-0056	EA	Removal And Replacement Of Brass, Chrome Plated Drinking Fountain Bubbler Valve	376.99	
22 01 40 81-0057	EA	Removal And Replacement Of Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve	221.83	
22 01 40 81-0058	EA	Removal And Replacement Of Sink Basket Strainer (Just Manufacturing Co. J-35-SSF)	69.83	

22 05 Common Work Results for Plumbing *(22)*

22 05 19 Meters and Gages for Plumbing Piping *(22 05)*

See CSI section 33 19 00 00-0000 for water utility service metering.

22 05 23 General-Duty Valves for Plumbing Piping *(22 05)*

22 05 23 00-0001 Gate Valves *(22 05 23)*

22 05 23 00-0002 Class 125 Brazed Or Soldered Bronze Gate Valves *(22 05 23 00-0001)*

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)

22 05 23 00-0003	EA	1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	101.48	12.99
		For 150 Lb. Rating, Add	*6.36*	
		For 200 Lb. Rating, Add	*9.55*	
		For Work In Restricted Working Space, Add	*11.35*	
22 05 23 00-0004	EA	3/8" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	103.46	12.99
		For 150 Lb. Rating, Add	*6.36*	
		For 200 Lb. Rating, Add	*9.55*	
		For Work In Restricted Working Space, Add	*11.95*	
22 05 23 00-0005	EA	1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	105.93	12.99
		For 150 Lb. Rating, Add	*6.40*	
		For 200 Lb. Rating, Add	*9.60*	
		For Work In Restricted Working Space, Add	*12.58*	
22 05 23 00-0006	EA	3/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	125.28	14.30
		For 150 Lb. Rating, Add	*6.88*	
		For 200 Lb. Rating, Add	*10.32*	
		For Work In Restricted Working Space, Add	*16.95*	
22 05 23 00-0007	EA	1" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	152.66	16.24
		For 150 Lb. Rating, Add	*8.43*	
		For 200 Lb. Rating, Add	*12.64*	
		For Work In Restricted Working Space, Add	*20.52*	
22 05 23 00-0008	EA	1-1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	224.22	17.29
		For 150 Lb. Rating, Add	*13.76*	
		For 200 Lb. Rating, Add	*20.64*	
		For Work In Restricted Working Space, Add	*25.99*	
22 05 23 00-0009	EA	1-1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	249.50	20.01
		For 150 Lb. Rating, Add	*14.95*	
		For 200 Lb. Rating, Add	*22.43*	
		For Work In Restricted Working Space, Add	*29.99*	
22 05 23 00-0010	EA	2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	299.30	23.65
		For 150 Lb. Rating, Add	*18.12*	
		For 200 Lb. Rating, Add	*27.18*	
		For Work In Restricted Working Space, Add	*35.44*	
22 05 23 00-0011	EA	2-1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	685.04	31.95
		For 150 Lb. Rating, Add	*52.55*	
		For 200 Lb. Rating, Add	*78.83*	
		For Work In Restricted Working Space, Add	*47.86*	
		For Chain Operated Type, Add	*236.48*	
22 05 23 00-0012	EA	3" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	804.19	37.09
		For 150 Lb. Rating, Add	*62.01*	
		For 200 Lb. Rating, Add	*93.02*	
		For Work In Restricted Working Space, Add	*55.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0013		Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves *(22 05 23 00-0001)*		
		Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, NIBCO T113-LF)		
22 05 23 00-0014	EA	1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	122.68	12.99
		For 150 Lb. Rating, Add	*8.48*	
		For 200 Lb. Rating, Add	*12.73*	
		For Work In Restricted Working Space, Add	*11.35*	
22 05 23 00-0015	EA	3/8" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	124.48	12.99
		For 150 Lb. Rating, Add	*8.47*	
		For 200 Lb. Rating, Add	*12.70*	
		For Work In Restricted Working Space, Add	*11.95*	
22 05 23 00-0016	EA	1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	145.11	12.99
		For 150 Lb. Rating, Add	*10.32*	
		For 200 Lb. Rating, Add	*15.48*	
		For Work In Restricted Working Space, Add	*12.58*	
22 05 23 00-0017	EA	3/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	164.47	14.30
		For 150 Lb. Rating, Add	*10.80*	
		For 200 Lb. Rating, Add	*16.20*	
		For Work In Restricted Working Space, Add	*16.95*	
22 05 23 00-0018	EA	1" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	197.37	16.24
		For 150 Lb. Rating, Add	*12.90*	
		For 200 Lb. Rating, Add	*19.35*	
		For Work In Restricted Working Space, Add	*20.52*	
22 05 23 00-0019	EA	1-1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	285.37	17.29
		For 150 Lb. Rating, Add	*19.87*	
		For 200 Lb. Rating, Add	*29.81*	
		For Work In Restricted Working Space, Add	*25.99*	
22 05 23 00-0020	EA	1-1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	326.42	20.01
		For 150 Lb. Rating, Add	*22.65*	
		For 200 Lb. Rating, Add	*33.97*	
		For Work In Restricted Working Space, Add	*29.99*	
22 05 23 00-0021	EA	2" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	418.15	23.65
		For 150 Lb. Rating, Add	*30.00*	
		For 200 Lb. Rating, Add	*45.00*	
		For Work In Restricted Working Space, Add	*35.44*	
22 05 23 00-0022		200 PSI, Non-Rising Stem, Crimped Bronze Gate Valves *(22 05 23 00-0001)*		
		Note: 200 psi cold working pressure.		
22 05 23 00-0023	EA	1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	140.19	12.99
		For Work In Restricted Working Space, Add	*8.77*	
22 05 23 00-0024	EA	3/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	157.87	14.30
		For Work In Restricted Working Space, Add	*9.99*	
22 05 23 00-0025	EA	1" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	207.56	16.24
		For Work In Restricted Working Space, Add	*11.94*	
22 05 23 00-0026	EA	1-1/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	283.22	17.29
		For Work In Restricted Working Space, Add	*13.16*	
22 05 23 00-0027	EA	1-1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	328.36	20.01
		For Work In Restricted Working Space, Add	*14.62*	
22 05 23 00-0028	EA	2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	452.14	23.65
		For Work In Restricted Working Space, Add	*17.54*	
22 05 23 00-0029		Ball Valves *(22 05 23)*		
22 05 23 00-0030		Crimped Bronze, Ball Valves *(22 05 23 00-0029)*		
22 05 23 00-0031		Crimped Bronze, 250 PSI, Ball Valves *(22 05 23 00-0030)*		
		Note: NIBCO		
22 05 23 00-0032	EA	1/2" Diameter, Crimped Bronze, 250 PSI, Ball Valve	96.25	12.99
		For Work In Restricted Working Space, Add	*8.77*	
22 05 23 00-0033	EA	3/4" Diameter, Crimped Bronze, 250 PSI, Ball Valve	124.61	14.30
		For Work In Restricted Working Space, Add	*9.99*	
22 05 23 00-0034	EA	1" Diameter, Crimped Bronze, 250 PSI, Ball Valve	159.99	16.24
		For Work In Restricted Working Space, Add	*11.94*	
22 05 23 00-0035	EA	1-1/4" Diameter, Crimped Bronze, 250 PSI, Ball Valve	258.85	17.29
		For Work In Restricted Working Space, Add	*13.16*	
22 05 23 00-0036	EA	1-1/2" Diameter, Crimped Bronze, 250 PSI, Ball Valve	342.28	20.01
		For Work In Restricted Working Space, Add	*14.62*	
22 05 23 00-0037	EA	2" Diameter, Crimped Bronze, 250 PSI, Ball Valve	516.14	23.65
		For Work In Restricted Working Space, Add	*17.54*	
22 05 23 00-0038		Crimped Bronze, 200 PSI, Full Port Ball Valves *(22 05 23 00-0030)*		
22 05 23 00-0039	EA	1/2" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	58.47	12.99
		For Work In Restricted Working Space, Add	*8.77*	
22 05 23 00-0040	EA	3/4" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	74.37	14.30
		For Work In Restricted Working Space, Add	*9.99*	
22 05 23 00-0041	EA	1" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	90.35	16.24
		For Work In Restricted Working Space, Add	*11.94*	
22 05 23 00-0042	EA	1-1/4" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	126.03	17.29
		For Work In Restricted Working Space, Add	*13.16*	
22 05 23 00-0043	EA	1-1/2" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	162.49	20.01
		For Work In Restricted Working Space, Add	*14.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0044	EA	2" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	240.18	23.65
		For Work In Restricted Working Space, Add	*17.54*	

22 05 23 00-0045 Crimped Bronze, 250 PSI, Full Port Ball Valves *(22 05 23 00-0030)*

22 05 23 00-0046	EA	1/2" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	67.16	12.99
		For Work In Restricted Working Space, Add	*8.77*	
22 05 23 00-0047	EA	3/4" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	80.69	14.30
		For Work In Restricted Working Space, Add	*9.99*	
22 05 23 00-0048	EA	1" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	100.46	16.24
		For Work In Restricted Working Space, Add	*11.94*	
22 05 23 00-0049	EA	1-1/4" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	157.62	17.29
		For Work In Restricted Working Space, Add	*13.16*	
22 05 23 00-0050	EA	1-1/2" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	230.43	20.01
		For Work In Restricted Working Space, Add	*14.62*	
22 05 23 00-0051	EA	2" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	319.18	23.65
		For Work In Restricted Working Space, Add	*17.54*	

22 05 23 00-0052 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves *(22 05 23 00-0030)*

22 05 23 00-0053	EA	1/2" Diameter, Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	64.79	12.99
		For Work In Restricted Working Space, Add	*8.77*	
22 05 23 00-0054	EA	3/4" Diameter, Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	78.48	14.30
		For Work In Restricted Working Space, Add	*9.99*	
22 05 23 00-0055	EA	1" Diameter, Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	95.40	16.24
		For Work In Restricted Working Space, Add	*11.94*	

22 05 23 00-0056 Check Valves *(22 05 23)*

22 05 23 00-0057 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves *(22 05 23 00-0056)*

Note: NIBCO

22 05 23 00-0058	EA	1/2" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve	184.10	12.99
		For Work In Restricted Working Space, Add	*8.77*	
22 05 23 00-0059	EA	3/4" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve	234.39	14.30
		For Work In Restricted Working Space, Add	*9.99*	
22 05 23 00-0060	EA	1" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve	324.09	16.24
		For Work In Restricted Working Space, Add	*11.94*	
22 05 23 00-0061	EA	1-1/4" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve	432.17	17.29
		For Work In Restricted Working Space, Add	*13.16*	
22 05 23 00-0062	EA	1-1/2" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve	515.63	20.01
		For Work In Restricted Working Space, Add	*14.62*	
22 05 23 00-0063	EA	2" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve	738.04	23.65
		For Work In Restricted Working Space, Add	*17.54*	

22 05 23 00-0064 Crimped Bronze, 250 PSI, In-Line, Check Valves *(22 05 23 00-0056)*

22 05 23 00-0065	EA	1/2" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve	51.80	12.99
		For Work In Restricted Working Space, Add	*8.77*	
22 05 23 00-0066	EA	3/4" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve	62.16	14.30
		For Work In Restricted Working Space, Add	*9.99*	
22 05 23 00-0067	EA	1" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve	73.06	16.24
		For Work In Restricted Working Space, Add	*11.94*	
22 05 23 00-0068	EA	1-1/4" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve	91.97	17.29
		For Work In Restricted Working Space, Add	*13.16*	
22 05 23 00-0069	EA	1-1/2" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve	117.03	20.01
		For Work In Restricted Working Space, Add	*14.62*	
22 05 23 00-0070	EA	2" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve	182.78	23.65
		For Work In Restricted Working Space, Add	*17.54*	

22 05 23 00-0071 Butterfly Valves *(22 05 23)*

22 05 23 00-0072 Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve *(22 05 23 00-0071)*

22 05 23 00-0073	EA	2-1/2" Diameter, Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve	1,376.77	34.69
		For Work In Restricted Working Space, Add	*20.47*	
22 05 23 00-0074	EA	3" Diameter, Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve	1,490.44	40.29
		For Work In Restricted Working Space, Add	*24.37*	
22 05 23 00-0075	EA	4" Diameter, Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve	1,863.12	45.48
		For Work In Restricted Working Space, Add	*32.16*	

22 05 23 00-0076 Earthquake-Sensitive Gas Shut-Off Valves *(22 05 23)*

22 05 23 00-0077 0.5 PSI Threaded Earthquake Gas Shutoff Valves *(22 05 23 00-0076)*

22 05 23 00-0078	EA	3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve	200.36	14.30
22 05 23 00-0079	EA	1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve	226.78	16.24

22 05 23 00-0080 7 PSI Threaded Earthquake Gas Shutoff Valves *(22 05 23 00-0076)*

22 05 23 00-0081	EA	1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve	264.82	17.29
22 05 23 00-0082	EA	1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve	357.34	20.01

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0083		60 PSI Threaded Earthquake Gas Shutoff Valves *(22 05 23 00-0076)*		
22 05 23 00-0084	EA	3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	247.88	14.30
22 05 23 00-0085	EA	1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	259.78	16.24
22 05 23 00-0086	EA	1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	291.21	17.29
22 05 23 00-0087	EA	1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	396.94	20.01
22 05 23 00-0088	EA	2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	910.07	23.65
22 05 23 00-0089	EA	2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,082.91	31.83
22 05 23 00-0090	EA	3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,404.98	37.09
22 05 23 00-0091	EA	4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,628.28	41.87
22 05 23 00-0092		60 PSI Flanged Earthquake Gas Shutoff Valves *(22 05 23 00-0076)*		
22 05 23 00-0093	EA	2" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	1,272.49	173.22
22 05 23 00-0094	EA	3" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	1,567.86	203.40
22 05 23 00-0095	EA	4" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	2,209.17	340.99
22 05 23 00-0096	EA	6" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	3,611.95	406.70
22 05 23 00-0097	EA	8" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	9,752.85	519.67

22 05 76 Facility Drainage Piping Cleanouts *(22 05)*

22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover *(22 05 76)*
Note: For floor installation.

22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover *(22 05 76 00-0001)*

22 05 76 00-0003	EA	2" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	873.43	69.13
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	
22 05 76 00-0004	EA	3" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	939.00	86.67
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	
22 05 76 00-0005	EA	4" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,173.85	104.73
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	
22 05 76 00-0006	EA	5" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,698.17	117.20
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	
22 05 76 00-0007	EA	6" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	2,097.28	126.95
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	

22 05 76 00-0008 Cast Iron Heavy-Duty Cleanout With Plug And Round Cover *(22 05 76 00-0001)*

22 05 76 00-0009	EA	2" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,010.87	69.13
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0010	EA	3" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,078.62	86.67
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	
22 05 76 00-0011	EA	4" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,313.47	104.73
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	
22 05 76 00-0012	EA	5" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,837.80	117.20
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	
22 05 76 00-0013	EA	6" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	2,236.90	126.95
		For Vandal Proof, Add	*19.50*	
		For Galvanized Ferrule, Add	*45.00*	
		For Carpet Marker, Add	*16.00*	
		For Carpet Flange, Add	*58.50*	
		For Wide Flange, Add	*97.00*	
		For Satin Bronze Top, Deduct	*-24.00*	

22 05 76 00-0014 Wall Cover For Cleanout *(22 05 76)*

Note: Cover and screw only.

22 05 76 00-0015 Round Access Cover, Bronze Polished Top *(22 05 76 00-0014)*

Note: Cover and screw only.

22 05 76 00-0016	EA	4-1/4" Diameter Wall Cover For Cleanout, Screwed	116.34	21.70
		For Stainless Steel, Add	*9.00*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0017	EA	5-1/2" Diameter Wall Cover For Cleanout, Screwed	125.01	25.99
		For Stainless Steel, Add	*9.00*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0018	EA	7" Diameter Wall Cover For Cleanout, Screwed	160.33	29.24
		For Stainless Steel, Add	*9.00*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0019	EA	9-1/4" Diameter Wall Cover For Cleanout, Screwed	274.44	32.49
		For Stainless Steel, Add	*9.00*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0020	EA	11-1/4" Diameter Wall Cover For Cleanout, Screwed	415.46	35.74
		For Stainless Steel, Add	*9.00*	
		For Vandal Proof Screws, Add	*19.50*	

22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top *(22 05 76 00-0014)*

Note: Cover and screw only.

22 05 76 00-0022	EA	7" x 7" Bronze Wall Or Floor Access Cover	592.17	21.70
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0023	EA	9" x 9" Bronze Wall Or Floor Access Cover	853.52	22.74
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0024	EA	10" x 10" Bronze Wall Or Floor Access Cover	912.01	24.04
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0025	EA	14" x 14" Bronze Wall Or Floor Access Cover	1,020.15	27.29
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	

22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top *(22 05 76 00-0014)*

Note: Cover and screw only.

22 05 76 00-0027	EA	6" x 6" Bronze Secured Wall Access Panel	602.66	21.70
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0028	EA	8" x 8" Bronze Secured Wall Access Panel	868.97	22.74
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0029	EA	10" x 10" Bronze Secured Wall Access Panel	928.54	24.04
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0030	EA	12" x 12" Bronze Secured Wall Access Panel	1,038.62	27.29
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0031		Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated *(22 05 76 00-0014)*		
		Note: Cover and screw only.		
22 05 76 00-0032	EA	6" x 6" Bronze Secured Hinged Access Panel, Scoriated	584.54	21.70
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0033	EA	8" x 8" Bronze Secured Hinged Access Panel, Scoriated	809.41	22.74
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0034	EA	10" x 10" Bronze Secured Hinged Access Panel, Scoriated	1,148.66	24.04
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0035	EA	12" x 12" Bronze Secured Hinged Access Panel, Scoriated	1,390.80	27.29
		For Vandal Proof Screws, Add	*19.50*	
		For Nickel Bronze, Add	*22.50*	
22 05 76 00-0036		Cast Iron Cleanout Tee *(22 05 76)*		
22 05 76 00-0037		Cast Iron Cleanout Tee And Round Access Cover *(22 05 76 00-0036)*		
		Note: Satin smooth secured cover.		
22 05 76 00-0038	EA	2" Diameter, Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover	627.13	69.13
		For Galvanized Cast Iron Parts, Add	*88.80*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0039	EA	3" Diameter, Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover	713.05	86.54
		For Galvanized Cast Iron Parts, Add	*88.80*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0040	EA	4" Diameter, Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover	934.83	104.73
		For Galvanized Cast Iron Parts, Add	*88.80*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0041	EA	6" Diameter, Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover	2,290.50	126.95
		For Galvanized Cast Iron Parts, Add	*88.80*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0042		Cast Iron Cleanout Tee And Square Access Cover *(22 05 76 00-0036)*		
		Note: Satin smooth secured cover.		
22 05 76 00-0043	EA	2" Diameter, Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	1,116.04	69.13
		For Galvanized Cast Iron Parts, Add	*88.80*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0044	EA	3" Diameter, Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	1,201.95	86.54
		For Galvanized Cast Iron Parts, Add	*88.80*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0045	EA	4" Diameter, Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	1,391.29	104.73
		For Galvanized Cast Iron Parts, Add	*88.80*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0046	EA	6" Diameter, Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	2,950.87	126.95
		For Galvanized Cast Iron Parts, Add	*88.80*	
		For Vandal Proof Screws, Add	*19.50*	
22 05 76 00-0047		Cast Iron Cleanout Tee With Brass Plug *(22 05 76 00-0036)*		
22 05 76 00-0048	EA	2" Diameter, Cleanout Tee With Cast Bronze Screw Plug	513.78	56.52
22 05 76 00-0049	EA	3" Diameter, Cleanout Tee With Cast Bronze Screw Plug	575.13	61.73
22 05 76 00-0050	EA	4" Diameter, Cleanout Tee With Cast Bronze Screw Plug	767.00	81.22
22 05 76 00-0051	EA	5" Diameter, Cleanout Tee With Cast Bronze Screw Plug	1,165.18	96.16
22 05 76 00-0052	EA	6" Diameter, Cleanout Tee With Cast Bronze Screw Plug	2,011.00	113.70
22 05 76 00-0053		Removable Cleanout Plug *(22 05 76)*		
22 05 76 00-0054		Threaded Bronze Plugs *(22 05 76 00-0053)*		
22 05 76 00-0055	EA	1-1/4", 1-1/2" Or 2" Diameter, Threaded Bronze Plug	86.52	16.24
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0056	EA	2-1/2" Diameter, Threaded Bronze Plug	103.84	17.67
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0057	EA	3" Diameter, Threaded Bronze Plug	178.76	19.49
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0058	EA	3-1/2" Diameter, Threaded Bronze Plug	199.98	22.74
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0059	EA	4" Diameter, Threaded Bronze Plug	226.09	25.99
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0060	EA	5" Diameter, Threaded Bronze Plug	318.38	29.24
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0061	EA	6" Diameter, Threaded Bronze Plug	469.49	32.49
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0062	EA	8" Diameter, Threaded Bronze Plug	794.50	35.74
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0063	EA	10" Diameter, Threaded Bronze Plug	1,144.13	38.98
		For Plug Tapped For Center Screw, Add	*9.50*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0064		Threaded Brass Plugs *(22 05 76 00-0053)*		
22 05 76 00-0065	EA	1-1/2" Threaded Brass Plug, Raised Head	35.95	16.24
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0066	EA	2" Threaded Brass Plug, Raised Head	36.56	16.24
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0067	EA	2-1/2" Threaded Brass Plug, Raised Head	39.84	17.67
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0068	EA	3" Threaded Brass Plug, Raised Head	45.05	19.49
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0069	EA	3-1/2" Threaded Brass Plug, Raised Head	53.18	22.74
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0070	EA	4" Threaded Brass Plug, Raised Head	62.41	25.99
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0071	EA	4-1/2" Threaded Brass Plug, Raised Head	67.01	27.37
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0072	EA	5" Threaded Brass Plug, Raised Head	71.98	29.24
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0073	EA	6" Threaded Brass Plug, Raised Head	93.10	32.48
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0074	EA	1-1/2" Threaded Brass Plug, Countersunk Head	35.48	16.24
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0075	EA	2" Threaded Brass Plug, Countersunk Head	36.15	16.24
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0076	EA	2-1/2" Threaded Brass Plug, Countersunk Head	41.15	17.67
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0077	EA	3" Threaded Brass Plug, Countersunk Head	45.24	19.49
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0078	EA	3-1/2" Threaded Brass Plug, Countersunk Head	52.62	22.74
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0079	EA	4" Threaded Brass Plug, Countersunk Head	61.52	25.99
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0080	EA	5" Threaded Brass Plug, Countersunk Head	71.50	29.24
		For Plug Tapped For Center Screw, Add	*9.50*	
22 05 76 00-0081	EA	6" Threaded Brass Plug, Countersunk Head	85.25	32.49
		For Plug Tapped For Center Screw, Add	*9.50*	

22 07 Plumbing Insulation *(22)*

22 07 16 Plumbing Equipment Insulation *(22 07)*

22 07 16 00-0001		Lavatory Insulation *(22 07 16)*		
22 07 16 00-0002	EA	Neoprene Insulation Kit For Under Lavatories	387.28	30.74

22 07 19 Plumbing Piping Insulation *(22 07)*

22 07 19 00-0001 Fiberglass (Glass Fiber) Pipe Insulation *(22 07 19)*

Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0002		1/2" Thick Fiberglass Pipe Insulation *(22 07 19 00-0001)*		
22 07 19 00-0003	LF	1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	9.84	3.01
		For Single Layer Of Felt Finish, Add	*0.18*	
		For Work In Restricted Working Space, Add	*2.44*	
22 07 19 00-0004	LF	3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	10.02	3.01
		For Single Layer Of Felt Finish, Add	*0.20*	
		For Work In Restricted Working Space, Add	*2.44*	
22 07 19 00-0005	LF	1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	10.65	3.14
		For Single Layer Of Felt Finish, Add	*0.21*	
		For Work In Restricted Working Space, Add	*2.59*	
22 07 19 00-0006	LF	1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	11.02	3.28
		For Single Layer Of Felt Finish, Add	*0.24*	
		For Work In Restricted Working Space, Add	*2.63*	
22 07 19 00-0007	LF	1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	11.31	3.28
		For Single Layer Of Felt Finish, Add	*0.25*	
		For Work In Restricted Working Space, Add	*2.68*	
22 07 19 00-0008	LF	2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	11.98	3.42
		For Single Layer Of Felt Finish, Add	*0.27*	
		For Work In Restricted Working Space, Add	*2.83*	
22 07 19 00-0009	LF	2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	12.52	3.55
		For Single Layer Of Felt Finish, Add	*0.31*	
		For Work In Restricted Working Space, Add	*2.88*	
22 07 19 00-0010	LF	3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	13.18	3.69
		For Single Layer Of Felt Finish, Add	*0.34*	
		For Work In Restricted Working Space, Add	*2.98*	
22 07 19 00-0011	LF	4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	14.91	3.96
		For Single Layer Of Felt Finish, Add	*0.44*	
		For Work In Restricted Working Space, Add	*3.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0012	LF	6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	17.58	4.65
		For Single Layer Of Felt Finish, Add	*0.53*	
		For Work In Restricted Working Space, Add	*3.76*	

22 07 19 00-0013 1" Thick Fiberglass Pipe Insulation *(22 07 19 00-0001)*

22 07 19 00-0014	LF	1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	13.26	4.09
		For Single Layer Of Felt Finish, Add	*0.21*	
		For Work In Restricted Working Space, Add	*3.37*	
22 07 19 00-0015	LF	3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	13.56	4.09
		For Single Layer Of Felt Finish, Add	*0.24*	
		For Work In Restricted Working Space, Add	*3.37*	
22 07 19 00-0016	LF	1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	13.76	4.09
		For Single Layer Of Felt Finish, Add	*0.25*	
		For Work In Restricted Working Space, Add	*3.42*	
22 07 19 00-0017	LF	1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	14.24	4.23
		For Single Layer Of Felt Finish, Add	*0.28*	
		For Work In Restricted Working Space, Add	*3.47*	
22 07 19 00-0018	LF	1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	14.60	4.23
		For Single Layer Of Felt Finish, Add	*0.30*	
		For Work In Restricted Working Space, Add	*3.51*	
22 07 19 00-0019	LF	2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	15.18	4.38
		For Single Layer Of Felt Finish, Add	*0.33*	
		For Work In Restricted Working Space, Add	*3.61*	
22 07 19 00-0020	LF	2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	16.00	4.65
		For Single Layer Of Felt Finish, Add	*0.37*	
		For Work In Restricted Working Space, Add	*3.76*	
22 07 19 00-0021	LF	3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	16.77	4.78
		For Single Layer Of Felt Finish, Add	*0.41*	
		For Work In Restricted Working Space, Add	*3.85*	
22 07 19 00-0022	LF	4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	18.88	5.06
		For Single Layer Of Felt Finish, Add	*0.53*	
		For Work In Restricted Working Space, Add	*4.15*	
22 07 19 00-0023	LF	6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	21.78	5.87
		For Single Layer Of Felt Finish, Add	*0.65*	
		For Work In Restricted Working Space, Add	*4.68*	
22 07 19 00-0024	LF	8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	26.73	6.56
		For Single Layer Of Felt Finish, Add	*0.93*	
		For Work In Restricted Working Space, Add	*5.36*	
22 07 19 00-0025	LF	10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	31.46	7.79
		For Single Layer Of Felt Finish, Add	*1.08*	
		For Work In Restricted Working Space, Add	*6.34*	
22 07 19 00-0026	LF	12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	36.11	8.88
		For Single Layer Of Felt Finish, Add	*1.23*	
		For Work In Restricted Working Space, Add	*7.32*	
22 07 19 00-0027	LF	14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	38.83	9.70
		For Single Layer Of Felt Finish, Add	*1.43*	
		For Work In Restricted Working Space, Add	*7.58*	

22 07 19 00-0028 1-1/2" Thick Fiberglass Pipe Insulation *(22 07 19 00-0001)*

22 07 19 00-0029	LF	1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	15.83	4.22
		For Single Layer Of Felt Finish, Add	*0.43*	
		For Work In Restricted Working Space, Add	*3.51*	
22 07 19 00-0030	LF	3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	16.02	4.22
		For Single Layer Of Felt Finish, Add	*0.45*	
		For Work In Restricted Working Space, Add	*3.51*	
22 07 19 00-0031	LF	1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	16.92	4.47
		For Single Layer Of Felt Finish, Add	*0.48*	
		For Work In Restricted Working Space, Add	*3.72*	
22 07 19 00-0032	LF	1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	17.49	4.57
		For Single Layer Of Felt Finish, Add	*0.51*	
		For Work In Restricted Working Space, Add	*3.79*	
22 07 19 00-0033	LF	1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	17.99	4.65
		For Single Layer Of Felt Finish, Add	*0.54*	
		For Work In Restricted Working Space, Add	*3.86*	
22 07 19 00-0034	LF	2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	19.17	4.89
		For Single Layer Of Felt Finish, Add	*0.59*	
		For Work In Restricted Working Space, Add	*4.07*	
22 07 19 00-0035	LF	2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	19.96	4.97
		For Single Layer Of Felt Finish, Add	*0.65*	
		For Work In Restricted Working Space, Add	*4.14*	
22 07 19 00-0036	LF	3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	20.61	5.15
		For Single Layer Of Felt Finish, Add	*0.67*	
		For Work In Restricted Working Space, Add	*4.28*	
22 07 19 00-0037	LF	4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	22.70	5.57
		For Single Layer Of Felt Finish, Add	*0.76*	
		For Work In Restricted Working Space, Add	*4.63*	
22 07 19 00-0038	LF	6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	26.30	6.50
		For Single Layer Of Felt Finish, Add	*0.87*	
		For Work In Restricted Working Space, Add	*5.40*	
22 07 19 00-0039	LF	8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	29.40	6.86
		For Single Layer Of Felt Finish, Add	*1.09*	
		For Work In Restricted Working Space, Add	*5.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0040	LF	10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	35.86	8.21
		For Single Layer Of Felt Finish, Add	*1.38*	
		For Work In Restricted Working Space, Add	*6.82*	
22 07 19 00-0041	LF	12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	40.76	9.57
		For Single Layer Of Felt Finish, Add	*1.50*	
		For Work In Restricted Working Space, Add	*7.94*	
22 07 19 00-0042	LF	14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket	45.56	10.48
		For Single Layer Of Felt Finish, Add	*1.74*	
		For Work In Restricted Working Space, Add	*8.71*	

22 07 19 00-0043 2" Thick Fiberglass Pipe Insulation *(22 07 19 00-0001)*

22 07 19 00-0044	LF	1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	19.31	4.65
		For Single Layer Of Felt Finish, Add	*0.68*	
		For Work In Restricted Working Space, Add	*3.85*	
22 07 19 00-0045	LF	3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	19.53	4.65
		For Single Layer Of Felt Finish, Add	*0.70*	
		For Work In Restricted Working Space, Add	*3.85*	
22 07 19 00-0046	LF	1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	20.17	4.78
		For Single Layer Of Felt Finish, Add	*0.75*	
		For Work In Restricted Working Space, Add	*3.90*	
22 07 19 00-0047	LF	1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	20.74	4.78
		For Single Layer Of Felt Finish, Add	*0.79*	
		For Work In Restricted Working Space, Add	*3.95*	
22 07 19 00-0048	LF	1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	21.33	4.92
		For Single Layer Of Felt Finish, Add	*0.84*	
		For Work In Restricted Working Space, Add	*4.00*	
22 07 19 00-0049	LF	2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	22.12	5.06
		For Single Layer Of Felt Finish, Add	*0.87*	
		For Work In Restricted Working Space, Add	*4.15*	
22 07 19 00-0050	LF	2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	23.24	5.19
		For Single Layer Of Felt Finish, Add	*0.94*	
		For Work In Restricted Working Space, Add	*4.29*	
22 07 19 00-0051	LF	3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	24.42	5.46
		For Single Layer Of Felt Finish, Add	*1.01*	
		For Work In Restricted Working Space, Add	*4.44*	
22 07 19 00-0052	LF	4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	26.63	5.73
		For Single Layer Of Felt Finish, Add	*1.16*	
		For Work In Restricted Working Space, Add	*4.68*	
22 07 19 00-0053	LF	6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	31.54	6.74
		For Single Layer Of Felt Finish, Add	*1.35*	
		For Work In Restricted Working Space, Add	*5.62*	
22 07 19 00-0054	LF	8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	35.59	7.12
		For Single Layer Of Felt Finish, Add	*1.66*	
		For Work In Restricted Working Space, Add	*5.93*	
22 07 19 00-0055	LF	10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	42.60	8.51
		For Single Layer Of Felt Finish, Add	*1.99*	
		For Work In Restricted Working Space, Add	*7.10*	
22 07 19 00-0056	LF	12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	49.13	10.21
		For Single Layer Of Felt Finish, Add	*2.18*	
		For Work In Restricted Working Space, Add	*8.50*	
22 07 19 00-0057	LF	14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	63.06	11.13
		For Single Layer Of Felt Finish, Add	*2.47*	
		For Work In Restricted Working Space, Add	*11.86*	
22 07 19 00-0058	LF	16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	66.32	13.05
		For Single Layer Of Felt Finish, Add	*2.81*	
		For Work In Restricted Working Space, Add	*11.86*	
22 07 19 00-0059	LF	18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	73.32	13.70
		For Single Layer Of Felt Finish, Add	*3.34*	
		For Work In Restricted Working Space, Add	*12.45*	
22 07 19 00-0060	LF	20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	83.15	15.65
		For Single Layer Of Felt Finish, Add	*3.75*	
		For Work In Restricted Working Space, Add	*14.24*	
22 07 19 00-0061	LF	24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket	96.90	18.92
		For Single Layer Of Felt Finish, Add	*4.16*	
		For Work In Restricted Working Space, Add	*17.20*	

22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation *(22 07 19 00-0001)*

22 07 19 00-0063	LF	1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	23.82	5.46
		For Single Layer Of Felt Finish, Add	*0.95*	
		For Work In Restricted Working Space, Add	*4.45*	
22 07 19 00-0064	LF	3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	24.13	5.46
		For Single Layer Of Felt Finish, Add	*0.98*	
		For Work In Restricted Working Space, Add	*4.45*	
22 07 19 00-0065	LF	1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	25.04	5.46
		For Single Layer Of Felt Finish, Add	*1.05*	
		For Work In Restricted Working Space, Add	*4.52*	
22 07 19 00-0066	LF	1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	25.71	5.60
		For Single Layer Of Felt Finish, Add	*1.11*	
		For Work In Restricted Working Space, Add	*4.55*	
22 07 19 00-0067	LF	1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	26.42	5.60
		For Single Layer Of Felt Finish, Add	*1.17*	
		For Work In Restricted Working Space, Add	*4.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0068	LF	2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	27.50	5.87
		For Single Layer Of Felt Finish, Add	*1.22*	
		For Work In Restricted Working Space, Add	*4.77*	
22 07 19 00-0069	LF	2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	29.01	6.01
		For Single Layer Of Felt Finish, Add	*1.32*	
		For Work In Restricted Working Space, Add	*4.94*	
22 07 19 00-0070	LF	3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	30.39	6.29
		For Single Layer Of Felt Finish, Add	*1.40*	
		For Work In Restricted Working Space, Add	*5.11*	
22 07 19 00-0071	LF	4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	33.51	6.56
		For Single Layer Of Felt Finish, Add	*1.63*	
		For Work In Restricted Working Space, Add	*5.39*	
22 07 19 00-0072	LF	6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	38.40	6.97
		For Single Layer Of Felt Finish, Add	*1.89*	
		For Work In Restricted Working Space, Add	*6.13*	
22 07 19 00-0073	LF	8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	50.73	8.33
		For Single Layer Of Felt Finish, Add	*2.94*	
		For Work In Restricted Working Space, Add	*6.83*	
22 07 19 00-0074	LF	10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	60.47	9.57
		For Single Layer Of Felt Finish, Add	*3.59*	
		For Work In Restricted Working Space, Add	*7.88*	
22 07 19 00-0075	LF	12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	69.07	11.89
		For Single Layer Of Felt Finish, Add	*3.83*	
		For Work In Restricted Working Space, Add	*9.79*	
22 07 19 00-0076	LF	14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	77.96	13.12
		For Single Layer Of Felt Finish, Add	*4.44*	
		For Work In Restricted Working Space, Add	*10.69*	
22 07 19 00-0077	LF	16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	92.17	16.67
		For Single Layer Of Felt Finish, Add	*4.90*	
		For Work In Restricted Working Space, Add	*13.66*	
22 07 19 00-0078	LF	18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	98.99	17.48
		For Single Layer Of Felt Finish, Add	*5.37*	
		For Work In Restricted Working Space, Add	*14.34*	
22 07 19 00-0079	LF	20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	112.39	19.95
		For Single Layer Of Felt Finish, Add	*6.06*	
		For Work In Restricted Working Space, Add	*16.40*	
22 07 19 00-0080	LF	24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket	132.40	24.10
		For Single Layer Of Felt Finish, Add	*6.97*	
		For Work In Restricted Working Space, Add	*19.81*	

22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation *(22 07 19 00-0001)*

22 07 19 00-0082	LF	1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	26.28	6.04
		For Single Layer Of Felt Finish, Add	*1.04*	
		For Work In Restricted Working Space, Add	*4.92*	
22 07 19 00-0083	LF	3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	26.62	6.04
		For Single Layer Of Felt Finish, Add	*1.07*	
		For Work In Restricted Working Space, Add	*4.92*	
22 07 19 00-0084	LF	1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	27.53	6.10
		For Single Layer Of Felt Finish, Add	*1.15*	
		For Work In Restricted Working Space, Add	*4.97*	
22 07 19 00-0085	LF	1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	28.25	6.14
		For Single Layer Of Felt Finish, Add	*1.21*	
		For Work In Restricted Working Space, Add	*5.00*	
22 07 19 00-0086	LF	1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	29.08	6.21
		For Single Layer Of Felt Finish, Add	*1.28*	
		For Work In Restricted Working Space, Add	*5.06*	
22 07 19 00-0087	LF	2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	30.20	6.44
		For Single Layer Of Felt Finish, Add	*1.34*	
		For Work In Restricted Working Space, Add	*5.24*	
22 07 19 00-0088	LF	2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	31.85	6.65
		For Single Layer Of Felt Finish, Add	*1.45*	
		For Work In Restricted Working Space, Add	*5.42*	
22 07 19 00-0089	LF	3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	33.38	6.90
		For Single Layer Of Felt Finish, Add	*1.54*	
		For Work In Restricted Working Space, Add	*5.62*	
22 07 19 00-0090	LF	4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	36.83	7.28
		For Single Layer Of Felt Finish, Add	*1.79*	
		For Work In Restricted Working Space, Add	*5.93*	
22 07 19 00-0091	LF	6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	42.19	8.27
		For Single Layer Of Felt Finish, Add	*2.07*	
		For Work In Restricted Working Space, Add	*6.74*	
22 07 19 00-0092	LF	8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	55.72	9.20
		For Single Layer Of Felt Finish, Add	*3.22*	
		For Work In Restricted Working Space, Add	*7.51*	
22 07 19 00-0093	LF	10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	66.44	10.63
		For Single Layer Of Felt Finish, Add	*3.94*	
		For Work In Restricted Working Space, Add	*8.66*	
22 07 19 00-0094	LF	12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	75.89	13.21
		For Single Layer Of Felt Finish, Add	*4.20*	
		For Work In Restricted Working Space, Add	*10.77*	
22 07 19 00-0095	LF	14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	85.65	14.42
		For Single Layer Of Felt Finish, Add	*4.88*	
		For Work In Restricted Working Space, Add	*11.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0096	LF	16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	101.27	18.43
		For Single Layer Of Felt Finish, Add	*5.37*	
		For Work In Restricted Working Space, Add	*15.02*	
22 07 19 00-0097	LF	18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	108.76	19.36
		For Single Layer Of Felt Finish, Add	*5.90*	
		For Work In Restricted Working Space, Add	*15.78*	
22 07 19 00-0098	LF	20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	123.51	22.13
		For Single Layer Of Felt Finish, Add	*6.65*	
		For Work In Restricted Working Space, Add	*18.04*	
22 07 19 00-0099	LF	24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket	145.48	26.72
		For Single Layer Of Felt Finish, Add	*7.65*	
		For Work In Restricted Working Space, Add	*21.79*	
22 07 19 00-0100		**3-1/2" Thick Fiberglass Pipe Insulation** *(22 07 19 00-0001)*		
22 07 19 00-0101	LF	1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	28.36	6.56
		For Single Layer Of Felt Finish, Add	*1.09*	
		For Work In Restricted Working Space, Add	*5.39*	
22 07 19 00-0102	LF	3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	28.76	6.56
		For Single Layer Of Felt Finish, Add	*1.13*	
		For Work In Restricted Working Space, Add	*5.39*	
22 07 19 00-0103	LF	1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	30.08	6.56
		For Single Layer Of Felt Finish, Add	*1.26*	
		For Work In Restricted Working Space, Add	*5.42*	
22 07 19 00-0104	LF	1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	30.85	6.70
		For Single Layer Of Felt Finish, Add	*1.33*	
		For Work In Restricted Working Space, Add	*5.46*	
22 07 19 00-0105	LF	1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	31.79	6.70
		For Single Layer Of Felt Finish, Add	*1.40*	
		For Work In Restricted Working Space, Add	*5.53*	
22 07 19 00-0106	LF	2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	32.95	6.97
		For Single Layer Of Felt Finish, Add	*1.46*	
		For Work In Restricted Working Space, Add	*5.72*	
22 07 19 00-0107	LF	2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	34.76	7.24
		For Single Layer Of Felt Finish, Add	*1.58*	
		For Work In Restricted Working Space, Add	*5.92*	
22 07 19 00-0108	LF	3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	36.34	7.51
		For Single Layer Of Felt Finish, Add	*1.67*	
		For Work In Restricted Working Space, Add	*6.13*	
22 07 19 00-0109	LF	4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	40.24	7.93
		For Single Layer Of Felt Finish, Add	*1.96*	
		For Work In Restricted Working Space, Add	*6.48*	
22 07 19 00-0110	LF	6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	46.05	9.01
		For Single Layer Of Felt Finish, Add	*2.26*	
		For Work In Restricted Working Space, Add	*7.35*	
22 07 19 00-0111	LF	8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	60.84	9.97
		For Single Layer Of Felt Finish, Add	*3.52*	
		For Work In Restricted Working Space, Add	*8.19*	
22 07 19 00-0112	LF	10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	72.57	11.48
		For Single Layer Of Felt Finish, Add	*4.31*	
		For Work In Restricted Working Space, Add	*9.45*	
22 07 19 00-0113	LF	12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	82.88	14.34
		For Single Layer Of Felt Finish, Add	*4.59*	
		For Work In Restricted Working Space, Add	*11.75*	
22 07 19 00-0114	LF	14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	93.56	15.71
		For Single Layer Of Felt Finish, Add	*5.34*	
		For Work In Restricted Working Space, Add	*12.83*	
22 07 19 00-0115	LF	16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	110.63	19.95
		For Single Layer Of Felt Finish, Add	*5.88*	
		For Work In Restricted Working Space, Add	*16.39*	
22 07 19 00-0116	LF	18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	118.78	21.04
		For Single Layer Of Felt Finish, Add	*6.45*	
		For Work In Restricted Working Space, Add	*17.21*	
22 07 19 00-0117	LF	20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	134.93	24.04
		For Single Layer Of Felt Finish, Add	*7.28*	
		For Work In Restricted Working Space, Add	*19.69*	
22 07 19 00-0118	LF	24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket	158.90	28.96
		For Single Layer Of Felt Finish, Add	*8.37*	
		For Work In Restricted Working Space, Add	*23.77*	
22 07 19 00-0119		**4" Thick Fiberglass Pipe Insulation** *(22 07 19 00-0001)*		
22 07 19 00-0120	LF	1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	32.11	7.37
		For Single Layer Of Felt Finish, Add	*1.28*	
		For Work In Restricted Working Space, Add	*5.99*	
22 07 19 00-0121	LF	3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	32.54	7.37
		For Single Layer Of Felt Finish, Add	*1.32*	
		For Work In Restricted Working Space, Add	*5.99*	
22 07 19 00-0122	LF	1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	33.78	7.37
		For Single Layer Of Felt Finish, Add	*1.41*	
		For Work In Restricted Working Space, Add	*6.09*	
22 07 19 00-0123	LF	1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	34.78	7.51
		For Single Layer Of Felt Finish, Add	*1.50*	
		For Work In Restricted Working Space, Add	*6.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0124	LF	1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	36.20	7.79
		For Single Layer Of Felt Finish, Add	*1.58*	
		For Work In Restricted Working Space, Add	*6.35*	
22 07 19 00-0125	LF	2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	37.50	8.06
		For Single Layer Of Felt Finish, Add	*1.64*	
		For Work In Restricted Working Space, Add	*6.55*	
22 07 19 00-0126	LF	2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	39.11	8.06
		For Single Layer Of Felt Finish, Add	*1.78*	
		For Work In Restricted Working Space, Add	*6.65*	
22 07 19 00-0127	LF	3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	41.03	8.47
		For Single Layer Of Felt Finish, Add	*1.89*	
		For Work In Restricted Working Space, Add	*6.90*	
22 07 19 00-0128	LF	4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	45.24	8.88
		For Single Layer Of Felt Finish, Add	*2.20*	
		For Work In Restricted Working Space, Add	*7.28*	
22 07 19 00-0129	LF	6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	51.80	10.11
		For Single Layer Of Felt Finish, Add	*2.55*	
		For Work In Restricted Working Space, Add	*8.26*	
22 07 19 00-0130	LF	8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	68.45	10.93
		For Single Layer Of Felt Finish, Add	*3.96*	
		For Work In Restricted Working Space, Add	*9.21*	
22 07 19 00-0131	LF	10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	81.66	12.98
		For Single Layer Of Felt Finish, Add	*4.85*	
		For Work In Restricted Working Space, Add	*10.64*	
22 07 19 00-0132	LF	12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	93.27	16.12
		For Single Layer Of Felt Finish, Add	*5.17*	
		For Work In Restricted Working Space, Add	*13.22*	
22 07 19 00-0133	LF	14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	105.29	17.62
		For Single Layer Of Felt Finish, Add	*6.00*	
		For Work In Restricted Working Space, Add	*14.44*	
22 07 19 00-0134	LF	16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	124.52	22.54
		For Single Layer Of Felt Finish, Add	*6.61*	
		For Work In Restricted Working Space, Add	*18.46*	
22 07 19 00-0135	LF	18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	133.57	23.64
		For Single Layer Of Felt Finish, Add	*7.25*	
		For Work In Restricted Working Space, Add	*19.34*	
22 07 19 00-0136	LF	20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	149.98	27.05
		For Single Layer Of Felt Finish, Add	*8.00*	
		For Work In Restricted Working Space, Add	*22.14*	
22 07 19 00-0137	LF	24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	178.78	32.65
		For Single Layer Of Felt Finish, Add	*9.41*	
		For Work In Restricted Working Space, Add	*26.75*	
22 07 19 00-0138	LF	26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	204.53	38.52
		For Single Layer Of Felt Finish, Add	*10.44*	
		For Work In Restricted Working Space, Add	*31.52*	
22 07 19 00-0139	LF	28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	231.18	45.35
		For Single Layer Of Felt Finish, Add	*11.28*	
		For Work In Restricted Working Space, Add	*37.12*	
22 07 19 00-0140	LF	30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	261.54	53.55
		For Single Layer Of Felt Finish, Add	*12.07*	
		For Work In Restricted Working Space, Add	*43.97*	
22 07 19 00-0141	LF	36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	316.98	68.08
		For Single Layer Of Felt Finish, Add	*13.71*	
		For Work In Restricted Working Space, Add	*55.91*	
22 07 19 00-0142	LF	42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	372.43	82.92
		For Single Layer Of Felt Finish, Add	*15.36*	
		For Work In Restricted Working Space, Add	*67.85*	
22 07 19 00-0143	LF	44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	401.19	91.12
		For Single Layer Of Felt Finish, Add	*15.95*	
		For Work In Restricted Working Space, Add	*74.79*	
22 07 19 00-0144	LF	46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket	426.92	98.09
		For Single Layer Of Felt Finish, Add	*16.59*	
		For Work In Restricted Working Space, Add	*80.67*	

22 07 19 00-0145 Foamglas (Cellular Glass) Pipe Insulation, Rigid, Closed Cell *(22 07 19)*

Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0146 1" Thick Foamglas Pipe Insulation *(22 07 19 00-0145)*

22 07 19 00-0147	LF	1/2" Diameter Pipe, 1" Thick Foamglas Insulation	23.76	6.67
		For Work In Restricted Working Space, Add	*6.06*	
22 07 19 00-0148	LF	3/4" Diameter Pipe, 1" Thick Foamglas Insulation	24.66	6.67
		For Work In Restricted Working Space, Add	*6.06*	
22 07 19 00-0149	LF	1" Diameter Pipe, 1" Thick Foamglas Insulation	25.87	6.76
		For Work In Restricted Working Space, Add	*6.14*	
22 07 19 00-0150	LF	1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation	26.47	6.86
		For Work In Restricted Working Space, Add	*6.23*	
22 07 19 00-0151	LF	1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	27.38	6.95
		For Work In Restricted Working Space, Add	*6.32*	
22 07 19 00-0152	LF	2" Diameter Pipe, 1" Thick Foamglas Insulation	29.12	7.14
		For Work In Restricted Working Space, Add	*6.50*	
22 07 19 00-0153	LF	2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	31.30	7.44
		For Work In Restricted Working Space, Add	*6.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0154	LF	3" Diameter Pipe, 1" Thick Foamglas Insulation	33.66	7.63
		For Work In Restricted Working Space, Add	*6.94*	
22 07 19 00-0155	LF	4" Diameter Pipe, 1" Thick Foamglas Insulation	38.76	8.21
		For Work In Restricted Working Space, Add	*7.47*	
22 07 19 00-0156	LF	6" Diameter Pipe, 1" Thick Foamglas Insulation	49.04	9.26
		For Work In Restricted Working Space, Add	*8.42*	
22 07 19 00-0157		**1-1/2" Thick Foamglas Pipe Insulation** *(22 07 19 00-0145)*		
22 07 19 00-0158	LF	1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	27.97	7.39
		For Work In Restricted Working Space, Add	*6.50*	
22 07 19 00-0159	LF	3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	28.54	7.39
		For Work In Restricted Working Space, Add	*6.50*	
22 07 19 00-0160	LF	1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	29.41	7.48
		For Work In Restricted Working Space, Add	*6.59*	
22 07 19 00-0161	LF	1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	30.10	7.58
		For Work In Restricted Working Space, Add	*6.67*	
22 07 19 00-0162	LF	1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	30.76	7.68
		For Work In Restricted Working Space, Add	*6.76*	
22 07 19 00-0163	LF	2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	33.27	7.94
		For Work In Restricted Working Space, Add	*6.98*	
22 07 19 00-0164	LF	2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	37.50	8.24
		For Work In Restricted Working Space, Add	*7.25*	
22 07 19 00-0165	LF	3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	41.27	8.48
		For Work In Restricted Working Space, Add	*7.47*	
22 07 19 00-0166	LF	4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	46.61	9.03
		For Work In Restricted Working Space, Add	*7.95*	
22 07 19 00-0167	LF	6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	54.80	10.23
		For Work In Restricted Working Space, Add	*9.00*	
22 07 19 00-0168	LF	8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	61.27	11.41
		For Work In Restricted Working Space, Add	*10.04*	
22 07 19 00-0169	LF	10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	74.18	13.16
		For Work In Restricted Working Space, Add	*11.57*	
22 07 19 00-0170	LF	12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	88.19	16.35
		For Work In Restricted Working Space, Add	*14.38*	
22 07 19 00-0171	LF	14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	97.91	17.20
		For Work In Restricted Working Space, Add	*15.63*	
22 07 19 00-0172	LF	16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	107.85	19.21
		For Work In Restricted Working Space, Add	*17.46*	
22 07 19 00-0173	LF	18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	122.44	22.72
		For Work In Restricted Working Space, Add	*20.66*	
22 07 19 00-0174	LF	20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	136.73	25.15
		For Work In Restricted Working Space, Add	*22.87*	
22 07 19 00-0175	LF	24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation	169.95	27.87
		For Work In Restricted Working Space, Add	*25.33*	
22 07 19 00-0176		**2" Thick Foamglas Pipe Insulation** *(22 07 19 00-0145)*		
22 07 19 00-0177	LF	1/2" Diameter Pipe, 2" Thick Foamglas Insulation	31.36	7.63
		For Work In Restricted Working Space, Add	*6.94*	
22 07 19 00-0178	LF	3/4" Diameter Pipe, 2" Thick Foamglas Insulation	32.25	7.63
		For Work In Restricted Working Space, Add	*6.94*	
22 07 19 00-0179	LF	1" Diameter Pipe, 2" Thick Foamglas Insulation	33.41	7.71
		For Work In Restricted Working Space, Add	*7.03*	
22 07 19 00-0180	LF	1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation	35.09	7.83
		For Work In Restricted Working Space, Add	*7.11*	
22 07 19 00-0181	LF	1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	36.80	7.93
		For Work In Restricted Working Space, Add	*7.20*	
22 07 19 00-0182	LF	2" Diameter Pipe, 2" Thick Foamglas Insulation	41.01	8.21
		For Work In Restricted Working Space, Add	*7.47*	
22 07 19 00-0183	LF	2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	42.98	8.51
		For Work In Restricted Working Space, Add	*7.73*	
22 07 19 00-0184	LF	3" Diameter Pipe, 2" Thick Foamglas Insulation	46.05	8.78
		For Work In Restricted Working Space, Add	*7.99*	
22 07 19 00-0185	LF	4" Diameter Pipe, 2" Thick Foamglas Insulation	51.72	9.27
		For Work In Restricted Working Space, Add	*8.43*	
22 07 19 00-0186	LF	6" Diameter Pipe, 2" Thick Foamglas Insulation	61.75	10.53
		For Work In Restricted Working Space, Add	*9.57*	
22 07 19 00-0187	LF	8" Diameter Pipe, 2" Thick Foamglas Insulation	68.75	11.75
		For Work In Restricted Working Space, Add	*10.68*	
22 07 19 00-0188	LF	10" Diameter Pipe, 2" Thick Foamglas Insulation	83.51	13.54
		For Work In Restricted Working Space, Add	*12.31*	
22 07 19 00-0189	LF	12" Diameter Pipe, 2" Thick Foamglas Insulation	103.46	16.83
		For Work In Restricted Working Space, Add	*15.30*	
22 07 19 00-0190	LF	14" Diameter Pipe, 2" Thick Foamglas Insulation	110.60	18.38
		For Work In Restricted Working Space, Add	*16.70*	
22 07 19 00-0191	LF	16" Diameter Pipe, 2" Thick Foamglas Insulation	131.11	23.49
		For Work In Restricted Working Space, Add	*21.35*	
22 07 19 00-0192	LF	18" Diameter Pipe, 2" Thick Foamglas Insulation	142.75	24.65
		For Work In Restricted Working Space, Add	*22.41*	
22 07 19 00-0193	LF	20" Diameter Pipe, 2" Thick Foamglas Insulation	158.11	28.18
		For Work In Restricted Working Space, Add	*25.62*	
22 07 19 00-0194	LF	24" Diameter Pipe, 2" Thick Foamglas Insulation	198.06	34.05
		For Work In Restricted Working Space, Add	*30.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0195		**2-1/2" Thick Foamglas Pipe Insulation** *(22 07 19 00-0145)*		
22 07 19 00-0196	LF	1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	37.89	8.28
		For Work In Restricted Working Space, Add	*7.53*	
22 07 19 00-0197	LF	3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	39.38	8.27
		For Work In Restricted Working Space, Add	*7.52*	
22 07 19 00-0198	LF	1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	41.33	8.40
		For Work In Restricted Working Space, Add	*7.64*	
22 07 19 00-0199	LF	1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	43.03	8.47
		For Work In Restricted Working Space, Add	*7.70*	
22 07 19 00-0200	LF	1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	44.75	8.54
		For Work In Restricted Working Space, Add	*7.76*	
22 07 19 00-0201	LF	2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	47.92	8.88
		For Work In Restricted Working Space, Add	*8.08*	
22 07 19 00-0202	LF	2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	50.94	9.19
		For Work In Restricted Working Space, Add	*8.36*	
22 07 19 00-0203	LF	3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	55.24	9.51
		For Work In Restricted Working Space, Add	*8.65*	
22 07 19 00-0204	LF	4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	61.79	10.03
		For Work In Restricted Working Space, Add	*9.12*	
22 07 19 00-0205	LF	6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	73.77	11.41
		For Work In Restricted Working Space, Add	*10.37*	
22 07 19 00-0206	LF	8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	82.20	12.71
		For Work In Restricted Working Space, Add	*11.56*	
22 07 19 00-0207	LF	10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	93.82	14.65
		For Work In Restricted Working Space, Add	*13.33*	
22 07 19 00-0208	LF	12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	116.82	18.23
		For Work In Restricted Working Space, Add	*16.57*	
22 07 19 00-0209	LF	14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	121.97	19.89
		For Work In Restricted Working Space, Add	*18.09*	
22 07 19 00-0210	LF	16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	144.15	25.43
		For Work In Restricted Working Space, Add	*23.11*	
22 07 19 00-0211	LF	18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	156.59	26.69
		For Work In Restricted Working Space, Add	*24.27*	
22 07 19 00-0212	LF	20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	180.00	30.51
		For Work In Restricted Working Space, Add	*27.74*	
22 07 19 00-0213	LF	24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	225.21	36.87
		For Work In Restricted Working Space, Add	*33.51*	
22 07 19 00-0214		**3" Thick Foamglas Pipe Insulation** *(22 07 19 00-0145)*		
22 07 19 00-0215	LF	1/2" Diameter Pipe, 3" Thick Foamglas Insulation	45.56	8.80
		For Work In Restricted Working Space, Add	*8.00*	
22 07 19 00-0216	LF	3/4" Diameter Pipe, 3" Thick Foamglas Insulation	46.47	8.80
		For Work In Restricted Working Space, Add	*8.00*	
22 07 19 00-0217	LF	1" Diameter Pipe, 3" Thick Foamglas Insulation	47.83	8.95
		For Work In Restricted Working Space, Add	*8.13*	
22 07 19 00-0218	LF	1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation	48.92	9.00
		For Work In Restricted Working Space, Add	*8.19*	
22 07 19 00-0219	LF	1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation	50.06	9.08
		For Work In Restricted Working Space, Add	*8.25*	
22 07 19 00-0220	LF	2" Diameter Pipe, 3" Thick Foamglas Insulation	53.76	9.45
		For Work In Restricted Working Space, Add	*8.60*	
22 07 19 00-0221	LF	2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation	57.29	9.78
		For Work In Restricted Working Space, Add	*8.89*	
22 07 19 00-0222	LF	3" Diameter Pipe, 3" Thick Foamglas Insulation	64.93	10.12
		For Work In Restricted Working Space, Add	*9.20*	
22 07 19 00-0223	LF	4" Diameter Pipe, 3" Thick Foamglas Insulation	73.96	10.67
		For Work In Restricted Working Space, Add	*9.70*	
22 07 19 00-0224	LF	6" Diameter Pipe, 3" Thick Foamglas Insulation	81.06	12.13
		For Work In Restricted Working Space, Add	*11.03*	
22 07 19 00-0225	LF	8" Diameter Pipe, 3" Thick Foamglas Insulation	91.53	13.53
		For Work In Restricted Working Space, Add	*12.30*	
22 07 19 00-0226	LF	10" Diameter Pipe, 3" Thick Foamglas Insulation	109.11	15.60
		For Work In Restricted Working Space, Add	*14.18*	
22 07 19 00-0227	LF	12" Diameter Pipe, 3" Thick Foamglas Insulation	126.92	19.38
		For Work In Restricted Working Space, Add	*17.62*	
22 07 19 00-0228	LF	14" Diameter Pipe, 3" Thick Foamglas Insulation	135.95	21.16
		For Work In Restricted Working Space, Add	*19.24*	
22 07 19 00-0229	LF	16" Diameter Pipe, 3" Thick Foamglas Insulation	162.59	27.05
		For Work In Restricted Working Space, Add	*24.59*	
22 07 19 00-0230	LF	18" Diameter Pipe, 3" Thick Foamglas Insulation	173.96	28.40
		For Work In Restricted Working Space, Add	*25.82*	
22 07 19 00-0231	LF	20" Diameter Pipe, 3" Thick Foamglas Insulation	203.75	32.46
		For Work In Restricted Working Space, Add	*29.51*	
22 07 19 00-0232	LF	24" Diameter Pipe, 3" Thick Foamglas Insulation	249.02	39.22
		For Work In Restricted Working Space, Add	*35.65*	
22 07 19 00-0233		**3-1/2" Thick Foamglas Pipe Insulation** *(22 07 19 00-0145)*		
22 07 19 00-0234	LF	1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	54.89	10.67
		For Work In Restricted Working Space, Add	*9.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0235	LF	3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	56.03	10.67
		For Work In Restricted Working Space, Add	*9.70*	
22 07 19 00-0236	LF	1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	57.38	10.74
		For Work In Restricted Working Space, Add	*9.77*	
22 07 19 00-0237	LF	1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	58.73	10.80
		For Work In Restricted Working Space, Add	*9.83*	
22 07 19 00-0238	LF	1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	60.29	10.94
		For Work In Restricted Working Space, Add	*9.95*	
22 07 19 00-0239	LF	2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	66.24	11.33
		For Work In Restricted Working Space, Add	*10.29*	
22 07 19 00-0240	LF	2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	72.25	11.72
		For Work In Restricted Working Space, Add	*10.65*	
22 07 19 00-0241	LF	3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	76.28	12.13
		For Work In Restricted Working Space, Add	*11.03*	
22 07 19 00-0242	LF	4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	81.68	12.82
		For Work In Restricted Working Space, Add	*11.66*	
22 07 19 00-0243	LF	6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	93.99	14.56
		For Work In Restricted Working Space, Add	*13.23*	
22 07 19 00-0244	LF	8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	106.83	16.21
		For Work In Restricted Working Space, Add	*14.74*	
22 07 19 00-0245	LF	10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	127.71	18.72
		For Work In Restricted Working Space, Add	*17.01*	
22 07 19 00-0246	LF	12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	151.03	23.26
		For Work In Restricted Working Space, Add	*21.15*	
22 07 19 00-0247	LF	14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	157.69	25.40
		For Work In Restricted Working Space, Add	*23.09*	
22 07 19 00-0248	LF	16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	189.28	32.46
		For Work In Restricted Working Space, Add	*29.51*	
22 07 19 00-0249	LF	18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	207.85	34.09
		For Work In Restricted Working Space, Add	*30.98*	
22 07 19 00-0250	LF	20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	236.65	38.98
		For Work In Restricted Working Space, Add	*35.44*	
22 07 19 00-0251	LF	24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	290.51	47.06
		For Work In Restricted Working Space, Add	*42.79*	

22 07 19 00-0252 4" Thick Foamglas Pipe Insulation *(22 07 19 00-0145)*

22 07 19 00-0253	LF	1/2" Diameter Pipe, 4" Thick Foamglas Insulation	66.85	13.12
		For Work In Restricted Working Space, Add	*11.92*	
22 07 19 00-0254	LF	3/4" Diameter Pipe, 4" Thick Foamglas Insulation	68.32	13.12
		For Work In Restricted Working Space, Add	*11.92*	
22 07 19 00-0255	LF	1" Diameter Pipe, 4" Thick Foamglas Insulation	70.48	13.34
		For Work In Restricted Working Space, Add	*12.13*	
22 07 19 00-0256	LF	1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation	72.42	13.50
		For Work In Restricted Working Space, Add	*12.27*	
22 07 19 00-0257	LF	1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation	75.18	13.92
		For Work In Restricted Working Space, Add	*12.65*	
22 07 19 00-0258	LF	2" Diameter Pipe, 4" Thick Foamglas Insulation	81.14	14.34
		For Work In Restricted Working Space, Add	*13.04*	
22 07 19 00-0259	LF	2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation	86.46	14.57
		For Work In Restricted Working Space, Add	*13.25*	
22 07 19 00-0260	LF	3" Diameter Pipe, 4" Thick Foamglas Insulation	90.74	15.11
		For Work In Restricted Working Space, Add	*13.73*	
22 07 19 00-0261	LF	4" Diameter Pipe, 4" Thick Foamglas Insulation	99.20	16.85
		For Work In Restricted Working Space, Add	*15.32*	
22 07 19 00-0262	LF	6" Diameter Pipe, 4" Thick Foamglas Insulation	114.61	18.08
		For Work In Restricted Working Space, Add	*16.45*	
22 07 19 00-0263	LF	8" Diameter Pipe, 4" Thick Foamglas Insulation	129.31	19.61
		For Work In Restricted Working Space, Add	*17.83*	
22 07 19 00-0264	LF	10" Diameter Pipe, 4" Thick Foamglas Insulation	148.20	23.31
		For Work In Restricted Working Space, Add	*21.19*	
22 07 19 00-0265	LF	12" Diameter Pipe, 4" Thick Foamglas Insulation	173.31	28.95
		For Work In Restricted Working Space, Add	*26.31*	
22 07 19 00-0266	LF	14" Diameter Pipe, 4" Thick Foamglas Insulation	188.46	31.61
		For Work In Restricted Working Space, Add	*28.75*	
22 07 19 00-0267	LF	16" Diameter Pipe, 4" Thick Foamglas Insulation	223.99	40.42
		For Work In Restricted Working Space, Add	*36.75*	
22 07 19 00-0268	LF	18" Diameter Pipe, 4" Thick Foamglas Insulation	248.95	42.37
		For Work In Restricted Working Space, Add	*38.51*	
22 07 19 00-0269	LF	20" Diameter Pipe, 4" Thick Foamglas Insulation	279.16	48.48
		For Work In Restricted Working Space, Add	*44.08*	
22 07 19 00-0270	LF	24" Diameter Pipe, 4" Thick Foamglas Insulation	353.79	58.58
		For Work In Restricted Working Space, Add	*53.25*	

22 07 19 00-0271 Polyisocyanurate Pipe Insulation *(22 07 19)*

Note: Dow Trymer insulation with Saran vapor wrap. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0272 1/2" Thick Polyisocyanurate Pipe Insulation *(22 07 19 00-0271)*

22 07 19 00-0273	LF	1/2" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	11.98	3.14
22 07 19 00-0274	LF	3/4" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	13.23	3.28

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0275	LF	1" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	13.95	3.55
22 07 19 00-0276	LF	1-1/4" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	14.68	3.69
22 07 19 00-0277	LF	1-1/2" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	15.13	3.69
22 07 19 00-0278	LF	2" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	15.95	3.82
22 07 19 00-0279	LF	2-1/2" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	17.10	3.96
22 07 19 00-0280	LF	3" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	18.22	4.23
22 07 19 00-0281	LF	4" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	21.49	5.06
22 07 19 00-0282	LF	6" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	25.66	5.73
22 07 19 00-0283	LF	8" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	30.35	6.70
22 07 19 00-0284	LF	10" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	34.19	7.24
22 07 19 00-0285	LF	12" Diameter Pipe, 1/2" Thick Polyisocyanurate Insulation	40.68	8.88
22 07 19 00-0286		**1" Thick Polyisocyanurate Pipe Insulation** *(22 07 19 00-0271)*		
22 07 19 00-0287	LF	1/2" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	13.99	3.28
22 07 19 00-0288	LF	3/4" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	15.71	3.55
22 07 19 00-0289	LF	1" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	16.57	3.69
22 07 19 00-0290	LF	1-1/4" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	17.48	3.82
22 07 19 00-0291	LF	1-1/2" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	18.25	3.96
22 07 19 00-0292	LF	2" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	19.30	3.96
22 07 19 00-0293	LF	2-1/2" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	20.75	4.23
22 07 19 00-0294	LF	3" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	22.32	4.51
22 07 19 00-0295	LF	4" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	26.41	5.33
22 07 19 00-0296	LF	6" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	33.36	6.70
22 07 19 00-0297	LF	8" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	40.12	7.93
22 07 19 00-0298	LF	10" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	45.86	8.88
22 07 19 00-0299	LF	12" Diameter Pipe, 1" Thick Polyisocyanurate Insulation	51.83	9.97
22 07 19 00-0300		**1-1/2" Thick Polyisocyanurate Pipe Insulation** *(22 07 19 00-0271)*		
22 07 19 00-0301	LF	3/4" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	17.69	3.69
22 07 19 00-0302	LF	1" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	18.70	3.82
22 07 19 00-0303	LF	1-1/4" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	19.85	3.96
22 07 19 00-0304	LF	1-1/2" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	20.72	4.09
22 07 19 00-0305	LF	2" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	22.00	4.23
22 07 19 00-0306	LF	2-1/2" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	23.82	4.51
22 07 19 00-0307	LF	3" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	25.62	4.65
22 07 19 00-0308	LF	4" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	30.38	5.73
22 07 19 00-0309	LF	6" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	38.85	7.24
22 07 19 00-0310	LF	8" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	47.30	8.88
22 07 19 00-0311	LF	10" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	54.39	9.97
22 07 19 00-0312	LF	12" Diameter Pipe, 1-1/2" Thick Polyisocyanurate Insulation	59.95	10.65
22 07 19 00-0313		**2" Thick Polyisocyanurate Pipe Insulation** *(22 07 19 00-0271)*		
22 07 19 00-0314	LF	3/4" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	22.56	3.82
22 07 19 00-0315	LF	1" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	23.97	3.96
22 07 19 00-0316	LF	1-1/4" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	25.25	4.23
22 07 19 00-0317	LF	1-1/2" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	26.30	4.23
22 07 19 00-0318	LF	2" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	27.30	4.51
22 07 19 00-0319	LF	2-1/2" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	29.62	4.78
22 07 19 00-0320	LF	3" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	31.13	5.06
22 07 19 00-0321	LF	4" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	37.13	6.15
22 07 19 00-0322	LF	6" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	45.33	7.93
22 07 19 00-0323	LF	8" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	59.20	9.97
22 07 19 00-0324	LF	10" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	63.15	11.48
22 07 19 00-0325	LF	12" Diameter Pipe, 2" Thick Polyisocyanurate Insulation	68.75	12.29
22 07 19 00-0326		**Flexible Polyethylene Tubing Closed Cell Foam Insulation** *(22 07 19)* Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0327		**3/8" Wall Flexible Polyethylene Tubing Foam Insulation** *(22 07 19 00-0326)*		
22 07 19 00-0328	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.75	4.08
		For Work In Restricted Working Space, Add	*2.46*	
22 07 19 00-0329	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.76	4.08
		For Work In Restricted Working Space, Add	*2.46*	
22 07 19 00-0330	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.12	4.23
		For Work In Restricted Working Space, Add	*2.54*	
22 07 19 00-0331	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.50	4.38
		For Work In Restricted Working Space, Add	*2.63*	
22 07 19 00-0332	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.85	4.46
		For Work In Restricted Working Space, Add	*2.67*	
22 07 19 00-0333	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.26	4.53
		For Work In Restricted Working Space, Add	*2.71*	
22 07 19 00-0334	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.43	4.53
		For Work In Restricted Working Space, Add	*2.72*	
22 07 19 00-0335	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.90	4.53
		For Work In Restricted Working Space, Add	*2.74*	
22 07 19 00-0336	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.82	4.66
		For Work In Restricted Working Space, Add	*2.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0337	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.24	4.74
		For Work In Restricted Working Space, Add	*2.86*	

22 07 19 00-0338 1/2" Wall Flexible Polyethylene Tubing Foam Insulation *(22 07 19 00-0326)*

22 07 19 00-0339	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.72	4.46
		For Work In Restricted Working Space, Add	*2.67*	
22 07 19 00-0340	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.83	4.46
		For Work In Restricted Working Space, Add	*2.69*	
22 07 19 00-0341	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.00	4.53
		For Work In Restricted Working Space, Add	*2.71*	
22 07 19 00-0342	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.20	4.55
		For Work In Restricted Working Space, Add	*2.73*	
22 07 19 00-0343	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.72	4.66
		For Work In Restricted Working Space, Add	*2.80*	
22 07 19 00-0344	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.16	4.74
		For Work In Restricted Working Space, Add	*2.84*	
22 07 19 00-0345	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.66	4.81
		For Work In Restricted Working Space, Add	*2.89*	
22 07 19 00-0346	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.28	4.88
		For Work In Restricted Working Space, Add	*2.93*	
22 07 19 00-0347	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	13.34	5.03
		For Work In Restricted Working Space, Add	*3.01*	
22 07 19 00-0348	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	14.45	5.10
		For Work In Restricted Working Space, Add	*3.06*	
22 07 19 00-0349	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	15.50	5.16
		For Work In Restricted Working Space, Add	*3.10*	
22 07 19 00-0350	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	16.13	5.23
		For Work In Restricted Working Space, Add	*3.14*	

22 07 19 00-0351 3/4" Wall Flexible Polyethylene Tubing Foam Insulation *(22 07 19 00-0326)*

22 07 19 00-0352	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.84	4.81
		For Work In Restricted Working Space, Add	*2.89*	
22 07 19 00-0353	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.98	4.88
		For Work In Restricted Working Space, Add	*2.93*	
22 07 19 00-0354	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.69	5.03
		For Work In Restricted Working Space, Add	*3.01*	
22 07 19 00-0355	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.02	5.10
		For Work In Restricted Working Space, Add	*3.06*	
22 07 19 00-0356	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.91	5.23
		For Work In Restricted Working Space, Add	*3.14*	
22 07 19 00-0357	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	13.83	5.31
		For Work In Restricted Working Space, Add	*3.18*	
22 07 19 00-0358	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	14.25	5.34
		For Work In Restricted Working Space, Add	*3.20*	
22 07 19 00-0359	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	15.93	5.38
		For Work In Restricted Working Space, Add	*3.23*	
22 07 19 00-0360	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	18.27	5.52
		For Work In Restricted Working Space, Add	*3.32*	
22 07 19 00-0361	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	18.40	5.60
		For Work In Restricted Working Space, Add	*3.35*	
22 07 19 00-0362	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	20.08	5.67
		For Work In Restricted Working Space, Add	*3.40*	
22 07 19 00-0363	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	20.78	5.73
		For Work In Restricted Working Space, Add	*3.44*	

22 07 19 00-0364 1" Wall Flexible Polyethylene Tubing Foam Insulation *(22 07 19 00-0326)*

22 07 19 00-0365	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.35	5.31
		For Work In Restricted Working Space, Add	*3.18*	
22 07 19 00-0366	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.67	5.38
		For Work In Restricted Working Space, Add	*3.23*	
22 07 19 00-0367	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	13.70	5.52
		For Work In Restricted Working Space, Add	*3.32*	
22 07 19 00-0368	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	14.01	5.60
		For Work In Restricted Working Space, Add	*3.35*	
22 07 19 00-0369	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	15.57	5.73
		For Work In Restricted Working Space, Add	*3.44*	
22 07 19 00-0370	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	16.33	5.88
		For Work In Restricted Working Space, Add	*3.53*	
22 07 19 00-0371	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	16.64	5.95
		For Work In Restricted Working Space, Add	*3.57*	
22 07 19 00-0372	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	18.14	6.02
		For Work In Restricted Working Space, Add	*3.62*	
22 07 19 00-0373	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	19.20	6.18
		For Work In Restricted Working Space, Add	*3.70*	
22 07 19 00-0374	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	20.13	6.25
		For Work In Restricted Working Space, Add	*3.74*	

22 07 19 00-0375 Flexible Elastomeric Tubing Closed Cell Foam Insulation *(22 07 19)*

Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0376		3/8" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) *(22 07 19 00-0375)*		
22 07 19 00-0377	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.84	4.08
		For Work In Restricted Working Space, Add	*2.46*	
22 07 19 00-0378	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.95	4.08
		For Work In Restricted Working Space, Add	*2.46*	
22 07 19 00-0379	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.29	4.23
		For Work In Restricted Working Space, Add	*2.54*	
22 07 19 00-0380	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.49	4.30
		For Work In Restricted Working Space, Add	*2.58*	
22 07 19 00-0381	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.70	4.38
		For Work In Restricted Working Space, Add	*2.63*	
22 07 19 00-0382	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.96	4.46
		For Work In Restricted Working Space, Add	*2.67*	
22 07 19 00-0383	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.20	4.53
		For Work In Restricted Working Space, Add	*2.71*	
22 07 19 00-0384	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.41	4.53
		For Work In Restricted Working Space, Add	*2.72*	
22 07 19 00-0385	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.60	4.53
		For Work In Restricted Working Space, Add	*2.74*	
22 07 19 00-0386	LF	2" I.D. (2-1/8" O.D.)Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.80	4.59
		For Work In Restricted Working Space, Add	*2.75*	
22 07 19 00-0387	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.10	4.66
		For Work In Restricted Working Space, Add	*2.80*	
22 07 19 00-0388	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.34	4.66
		For Work In Restricted Working Space, Add	*2.82*	
22 07 19 00-0389	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.52	4.74
		For Work In Restricted Working Space, Add	*2.84*	
22 07 19 00-0390	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.78	4.74
		For Work In Restricted Working Space, Add	*2.86*	
22 07 19 00-0391	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.30	4.81
		For Work In Restricted Working Space, Add	*2.89*	
22 07 19 00-0392	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.93	4.88
		For Work In Restricted Working Space, Add	*2.93*	
22 07 19 00-0393	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.60	4.91
		For Work In Restricted Working Space, Add	*2.95*	
22 07 19 00-0394		1/2" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) *(22 07 19 00-0375)*		
22 07 19 00-0395	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.87	4.46
		For Work In Restricted Working Space, Add	*2.67*	
22 07 19 00-0396	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.00	4.46
		For Work In Restricted Working Space, Add	*2.69*	
22 07 19 00-0397	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.14	4.53
		For Work In Restricted Working Space, Add	*2.71*	
22 07 19 00-0398	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.31	4.53
		For Work In Restricted Working Space, Add	*2.72*	
22 07 19 00-0399	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.45	4.53
		For Work In Restricted Working Space, Add	*2.73*	
22 07 19 00-0400	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.83	4.66
		For Work In Restricted Working Space, Add	*2.80*	
22 07 19 00-0401	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.17	4.74
		For Work In Restricted Working Space, Add	*2.84*	
22 07 19 00-0402	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.48	4.81
		For Work In Restricted Working Space, Add	*2.89*	
22 07 19 00-0403	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.78	4.85
		For Work In Restricted Working Space, Add	*2.91*	
22 07 19 00-0404	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.02	4.88
		For Work In Restricted Working Space, Add	*2.93*	
22 07 19 00-0405	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.90	4.96
		For Work In Restricted Working Space, Add	*2.97*	
22 07 19 00-0406	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.44	5.03
		For Work In Restricted Working Space, Add	*3.01*	
22 07 19 00-0407	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.84	5.07
		For Work In Restricted Working Space, Add	*3.04*	
22 07 19 00-0408	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.18	5.10
		For Work In Restricted Working Space, Add	*3.06*	
22 07 19 00-0409	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.43	5.14
		For Work In Restricted Working Space, Add	*3.08*	
22 07 19 00-0410	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.65	5.16
		For Work In Restricted Working Space, Add	*3.10*	
22 07 19 00-0411	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.66	5.23
		For Work In Restricted Working Space, Add	*3.14*	
22 07 19 00-0412	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.90	5.27
		For Work In Restricted Working Space, Add	*3.16*	
22 07 19 00-0413	LF	5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.86	5.31
		For Work In Restricted Working Space, Add	*3.18*	
22 07 19 00-0414	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.05	5.45
		For Work In Restricted Working Space, Add	*3.27*	
22 07 19 00-0415	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.37	5.60
		For Work In Restricted Working Space, Add	*3.35*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0416		3/4" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) *(22 07 19 00-0375)*		
22 07 19 00-0417	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.20	4.81
		For Work In Restricted Working Space, Add	*2.89*	
22 07 19 00-0418	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.48	4.88
		For Work In Restricted Working Space, Add	*2.93*	
22 07 19 00-0419	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.91	5.03
		For Work In Restricted Working Space, Add	*3.01*	
22 07 19 00-0420	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.14	5.07
		For Work In Restricted Working Space, Add	*3.04*	
22 07 19 00-0421	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.26	5.10
		For Work In Restricted Working Space, Add	*3.06*	
22 07 19 00-0422	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.87	5.23
		For Work In Restricted Working Space, Add	*3.14*	
22 07 19 00-0423	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.32	5.31
		For Work In Restricted Working Space, Add	*3.18*	
22 07 19 00-0424	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.77	5.38
		For Work In Restricted Working Space, Add	*3.23*	
22 07 19 00-0425	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.89	5.38
		For Work In Restricted Working Space, Add	*3.23*	
22 07 19 00-0426	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.07	5.42
		For Work In Restricted Working Space, Add	*3.25*	
22 07 19 00-0427	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.58	5.45
		For Work In Restricted Working Space, Add	*3.27*	
22 07 19 00-0428	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.89	5.52
		For Work In Restricted Working Space, Add	*3.32*	
22 07 19 00-0429	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.48	5.56
		For Work In Restricted Working Space, Add	*3.34*	
22 07 19 00-0430	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.87	5.60
		For Work In Restricted Working Space, Add	*3.35*	
22 07 19 00-0431	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.49	5.64
		For Work In Restricted Working Space, Add	*3.38*	
22 07 19 00-0432	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.74	5.67
		For Work In Restricted Working Space, Add	*3.40*	
22 07 19 00-0433	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.68	5.73
		For Work In Restricted Working Space, Add	*3.44*	
22 07 19 00-0434	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.41	5.77
		For Work In Restricted Working Space, Add	*3.47*	
22 07 19 00-0435	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.61	5.80
		For Work In Restricted Working Space, Add	*3.48*	
22 07 19 00-0436	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.92	5.88
		For Work In Restricted Working Space, Add	*3.53*	
22 07 19 00-0437	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation	22.53	6.02
		For Work In Restricted Working Space, Add	*3.62*	
22 07 19 00-0438		1" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) *(22 07 19 00-0375)*		
22 07 19 00-0439	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.92	5.30
		For Work In Restricted Working Space, Add	*3.18*	
22 07 19 00-0440	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.26	5.38
		For Work In Restricted Working Space, Add	*3.23*	
22 07 19 00-0441	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.72	5.52
		For Work In Restricted Working Space, Add	*3.32*	
22 07 19 00-0442	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.06	5.56
		For Work In Restricted Working Space, Add	*3.34*	
22 07 19 00-0443	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.35	5.60
		For Work In Restricted Working Space, Add	*3.35*	
22 07 19 00-0444	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.92	5.73
		For Work In Restricted Working Space, Add	*3.44*	
22 07 19 00-0445	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.75	5.88
		For Work In Restricted Working Space, Add	*3.53*	
22 07 19 00-0446	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.18	5.88
		For Work In Restricted Working Space, Add	*3.57*	
22 07 19 00-0447	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.71	5.95
		For Work In Restricted Working Space, Add	*3.59*	
22 07 19 00-0448	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.92	6.02
		For Work In Restricted Working Space, Add	*3.62*	
22 07 19 00-0449	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.06	6.11
		For Work In Restricted Working Space, Add	*3.66*	
22 07 19 00-0450	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.95	6.18
		For Work In Restricted Working Space, Add	*3.70*	
22 07 19 00-0451	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.06	6.22
		For Work In Restricted Working Space, Add	*3.73*	
22 07 19 00-0452	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.39	6.25
		For Work In Restricted Working Space, Add	*3.74*	
22 07 19 00-0453	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.99	6.29
		For Work In Restricted Working Space, Add	*3.77*	
22 07 19 00-0454	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	21.29	6.31
		For Work In Restricted Working Space, Add	*3.79*	
22 07 19 00-0455	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	23.44	6.46
		For Work In Restricted Working Space, Add	*3.87*	
22 07 19 00-0456	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	24.90	6.53
		For Work In Restricted Working Space, Add	*3.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0457	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	27.01	6.60
		For Work In Restricted Working Space, Add	*3.96*	
22 07 19 00-0458	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	29.29	6.75
		For Work In Restricted Working Space, Add	*4.04*	
22 07 19 00-0459		1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) *(22 07 19 00-0375)*		
22 07 19 00-0460	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.46	5.94
		For Work In Restricted Working Space, Add	*3.57*	
22 07 19 00-0461	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.92	6.07
		For Work In Restricted Working Space, Add	*3.65*	
22 07 19 00-0462	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.26	6.11
		For Work In Restricted Working Space, Add	*3.67*	
22 07 19 00-0463	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.60	6.17
		For Work In Restricted Working Space, Add	*3.68*	
22 07 19 00-0464	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.13	6.30
		For Work In Restricted Working Space, Add	*3.77*	
22 07 19 00-0465	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	21.01	6.53
		For Work In Restricted Working Space, Add	*3.91*	
22 07 19 00-0466	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	22.07	6.44
		For Work In Restricted Working Space, Add	*3.95*	
22 07 19 00-0467	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	23.00	6.59
		For Work In Restricted Working Space, Add	*4.00*	
22 07 19 00-0468	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	23.60	6.75
		For Work In Restricted Working Space, Add	*4.04*	
22 07 19 00-0469	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	25.36	6.83
		For Work In Restricted Working Space, Add	*4.09*	
22 07 19 00-0470	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	27.02	6.91
		For Work In Restricted Working Space, Add	*4.13*	
22 07 19 00-0471	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	27.80	6.94
		For Work In Restricted Working Space, Add	*4.16*	
22 07 19 00-0472	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	28.58	6.95
		For Work In Restricted Working Space, Add	*4.18*	
22 07 19 00-0473	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	29.49	6.99
		For Work In Restricted Working Space, Add	*4.20*	
22 07 19 00-0474	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	30.07	7.02
		For Work In Restricted Working Space, Add	*4.22*	
22 07 19 00-0475	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	33.23	7.28
		For Work In Restricted Working Space, Add	*4.36*	
22 07 19 00-0476	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	34.93	7.39
		For Work In Restricted Working Space, Add	*4.43*	
22 07 19 00-0477	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	38.93	7.50
		For Work In Restricted Working Space, Add	*4.50*	
22 07 19 00-0478	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	42.97	7.73
		For Work In Restricted Working Space, Add	*4.64*	
22 07 19 00-0479		2" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) *(22 07 19 00-0375)*		
22 07 19 00-0480	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	25.50	6.56
		For Work In Restricted Working Space, Add	*3.94*	
22 07 19 00-0481	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	26.44	6.65
		For Work In Restricted Working Space, Add	*4.02*	
22 07 19 00-0482	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	27.91	6.71
		For Work In Restricted Working Space, Add	*4.03*	
22 07 19 00-0483	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	28.42	6.76
		For Work In Restricted Working Space, Add	*4.04*	
22 07 19 00-0484	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	29.75	6.90
		For Work In Restricted Working Space, Add	*4.13*	
22 07 19 00-0485	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	31.48	7.22
		For Work In Restricted Working Space, Add	*4.33*	
22 07 19 00-0486	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	32.40	7.05
		For Work In Restricted Working Space, Add	*4.36*	
22 07 19 00-0487	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	34.08	7.29
		For Work In Restricted Working Space, Add	*4.44*	
22 07 19 00-0488	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	35.71	7.54
		For Work In Restricted Working Space, Add	*4.53*	
22 07 19 00-0489	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	36.77	7.63
		For Work In Restricted Working Space, Add	*4.57*	
22 07 19 00-0490	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	38.92	7.73
		For Work In Restricted Working Space, Add	*4.61*	
22 07 19 00-0491	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	39.20	7.74
		For Work In Restricted Working Space, Add	*4.64*	
22 07 19 00-0492	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	41.21	7.75
		For Work In Restricted Working Space, Add	*4.67*	
22 07 19 00-0493	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	42.59	7.79
		For Work In Restricted Working Space, Add	*4.68*	
22 07 19 00-0494	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	44.06	7.83
		For Work In Restricted Working Space, Add	*4.69*	
22 07 19 00-0495	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	49.12	8.20
		For Work In Restricted Working Space, Add	*4.90*	
22 07 19 00-0496	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	52.06	8.36
		For Work In Restricted Working Space, Add	*5.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0497	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	53.00	8.52
		For Work In Restricted Working Space, Add	*5.12*	
22 07 19 00-0498	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	59.07	8.86
		For Work In Restricted Working Space, Add	*5.32*	

22 07 19 00-0499 Flexible Polyolefin Tubing Closed Cell Foam Insulation *(22 07 19)*

Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.

22 07 19 00-0500 3/8" Wall Flexible Polyolefin Tubing Foam Insulation *(22 07 19 00-0499)*

22 07 19 00-0501	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.86	4.08
		For Work In Restricted Working Space, Add	*2.46*	
22 07 19 00-0502	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.96	4.08
		For Work In Restricted Working Space, Add	*2.46*	
22 07 19 00-0503	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.29	4.23
		For Work In Restricted Working Space, Add	*2.54*	
22 07 19 00-0504	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.70	4.38
		For Work In Restricted Working Space, Add	*2.63*	
22 07 19 00-0505	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.95	4.46
		For Work In Restricted Working Space, Add	*2.67*	
22 07 19 00-0506	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.41	4.53
		For Work In Restricted Working Space, Add	*2.71*	
22 07 19 00-0507	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.75	4.53
		For Work In Restricted Working Space, Add	*2.72*	
22 07 19 00-0508	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.00	4.66
		For Work In Restricted Working Space, Add	*2.74*	
22 07 19 00-0509	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.12	4.66
		For Work In Restricted Working Space, Add	*2.82*	
22 07 19 00-0510	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.12	4.74
		For Work In Restricted Working Space, Add	*2.86*	
22 07 19 00-0511	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.68	4.88
		For Work In Restricted Working Space, Add	*2.93*	

22 07 19 00-0512 1/2" Wall Flexible Polyolefin Tubing Foam Insulation *(22 07 19 00-0499)*

22 07 19 00-0513	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.92	4.46
		For Work In Restricted Working Space, Add	*2.67*	
22 07 19 00-0514	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.02	4.46
		For Work In Restricted Working Space, Add	*2.69*	
22 07 19 00-0515	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.22	4.53
		For Work In Restricted Working Space, Add	*2.71*	
22 07 19 00-0516	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.51	4.53
		For Work In Restricted Working Space, Add	*2.73*	
22 07 19 00-0517	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.85	4.66
		For Work In Restricted Working Space, Add	*2.80*	
22 07 19 00-0518	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.34	4.74
		For Work In Restricted Working Space, Add	*2.84*	
22 07 19 00-0519	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.90	4.81
		For Work In Restricted Working Space, Add	*2.89*	
22 07 19 00-0520	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.43	4.88
		For Work In Restricted Working Space, Add	*2.93*	
22 07 19 00-0521	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.62	5.03
		For Work In Restricted Working Space, Add	*3.01*	
22 07 19 00-0522	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.68	5.10
		For Work In Restricted Working Space, Add	*3.06*	
22 07 19 00-0523	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	16.70	5.23
		For Work In Restricted Working Space, Add	*3.14*	

22 07 19 00-0524 3/4" Wall Flexible Polyolefin Tubing Foam Insulation *(22 07 19 00-0499)*

22 07 19 00-0525	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.17	4.81
		For Work In Restricted Working Space, Add	*2.89*	
22 07 19 00-0526	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.55	4.88
		For Work In Restricted Working Space, Add	*2.93*	
22 07 19 00-0527	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.01	5.03
		For Work In Restricted Working Space, Add	*3.01*	
22 07 19 00-0528	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.74	5.10
		For Work In Restricted Working Space, Add	*3.06*	
22 07 19 00-0529	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.42	5.23
		For Work In Restricted Working Space, Add	*3.14*	
22 07 19 00-0530	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.58	5.31
		For Work In Restricted Working Space, Add	*3.18*	
22 07 19 00-0531	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.35	5.31
		For Work In Restricted Working Space, Add	*3.20*	
22 07 19 00-0532	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	16.22	5.38
		For Work In Restricted Working Space, Add	*3.23*	
22 07 19 00-0533	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	17.91	5.52
		For Work In Restricted Working Space, Add	*3.32*	
22 07 19 00-0534	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	19.43	5.60
		For Work In Restricted Working Space, Add	*3.35*	
22 07 19 00-0535	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	22.37	5.73
		For Work In Restricted Working Space, Add	*3.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0536		**1" Wall Flexible Polyolefin Tubing Foam Insulation** *(22 07 19 00-0499)*		
22 07 19 00-0537	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.31	5.31
		For Work In Restricted Working Space, Add	*3.18*	
22 07 19 00-0538	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.52	5.38
		For Work In Restricted Working Space, Add	*3.23*	
22 07 19 00-0539	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.99	5.52
		For Work In Restricted Working Space, Add	*3.32*	
22 07 19 00-0540	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.03	5.60
		For Work In Restricted Working Space, Add	*3.35*	
22 07 19 00-0541	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.91	5.73
		For Work In Restricted Working Space, Add	*3.44*	
22 07 19 00-0542	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	16.80	5.88
		For Work In Restricted Working Space, Add	*3.53*	
22 07 19 00-0543	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	17.66	5.88
		For Work In Restricted Working Space, Add	*3.57*	
22 07 19 00-0544	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	19.60	6.02
		For Work In Restricted Working Space, Add	*3.62*	
22 07 19 00-0545	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	22.19	6.18
		For Work In Restricted Working Space, Add	*3.70*	
22 07 19 00-0546	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	24.04	6.25
		For Work In Restricted Working Space, Add	*3.74*	
22 07 19 00-0547		**Flexible Elastomeric Unicellular Insulation** *(22 07 19)* Note: For refrigeration piping. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0548		**3/8" Wall Flexible Elastomeric Unicellular Insulation** *(22 07 19 00-0547)*		
22 07 19 00-0549	LF	3/8" I.D. (1/2" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	9.95	4.08
		For Work In Restricted Working Space, Add	*2.45*	
22 07 19 00-0550	LF	1/2" I.D. (5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	10.52	4.23
		For Work In Restricted Working Space, Add	*2.54*	
22 07 19 00-0551	LF	3/4" I.D. (7/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	11.04	4.39
		For Work In Restricted Working Space, Add	*2.63*	
22 07 19 00-0552	LF	1" I.D. (1-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	11.48	4.46
		For Work In Restricted Working Space, Add	*2.67*	
22 07 19 00-0553	LF	1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	11.97	4.53
		For Work In Restricted Working Space, Add	*2.71*	
22 07 19 00-0554	LF	1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	12.72	4.55
		For Work In Restricted Working Space, Add	*2.72*	
22 07 19 00-0555	LF	2" I.D. (2-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	13.66	4.67
		For Work In Restricted Working Space, Add	*2.80*	
22 07 19 00-0556	LF	2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	15.92	4.70
		For Work In Restricted Working Space, Add	*2.82*	
22 07 19 00-0557	LF	3" I.D. (3-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	17.56	4.77
		For Work In Restricted Working Space, Add	*2.86*	
22 07 19 00-0558		**1/2" Wall Flexible Elastomeric Unicellular Insulation** *(22 07 19 00-0547)*		
22 07 19 00-0559	LF	3/8" I.D. (1/2" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	11.46	4.39
		For Work In Restricted Working Space, Add	*2.63*	
22 07 19 00-0560	LF	1/2" I.D. (5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	12.01	4.53
		For Work In Restricted Working Space, Add	*2.71*	
22 07 19 00-0561	LF	3/4" I.D. (7/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	12.42	4.53
		For Work In Restricted Working Space, Add	*2.73*	
22 07 19 00-0562	LF	1" I.D. (1-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	13.04	4.66
		For Work In Restricted Working Space, Add	*2.80*	
22 07 19 00-0563	LF	1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	13.54	4.74
		For Work In Restricted Working Space, Add	*2.84*	
22 07 19 00-0564	LF	1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	14.31	4.81
		For Work In Restricted Working Space, Add	*2.89*	
22 07 19 00-0565	LF	2" I.D. (2-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	15.75	4.88
		For Work In Restricted Working Space, Add	*2.93*	
22 07 19 00-0566	LF	2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	18.13	5.03
		For Work In Restricted Working Space, Add	*3.01*	
22 07 19 00-0567	LF	3" I.D. (3-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	19.69	5.10
		For Work In Restricted Working Space, Add	*3.06*	
22 07 19 00-0568	LF	3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	22.86	5.16
		For Work In Restricted Working Space, Add	*3.10*	
22 07 19 00-0569	LF	4" I.D. (4-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	24.34	5.23
		For Work In Restricted Working Space, Add	*3.14*	
22 07 19 00-0570		**3/4" Wall Flexible Elastomeric Unicellular Insulation** *(22 07 19 00-0547)*		
22 07 19 00-0571	LF	3/8" I.D. (1/2" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	13.69	4.78
		For Work In Restricted Working Space, Add	*2.87*	
22 07 19 00-0572	LF	1/2" I.D. (5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	14.55	5.03
		For Work In Restricted Working Space, Add	*3.01*	
22 07 19 00-0573	LF	3/4" I.D. (7/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	15.58	5.10
		For Work In Restricted Working Space, Add	*3.06*	
22 07 19 00-0574	LF	1" I.D. (1-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	17.07	5.25
		For Work In Restricted Working Space, Add	*3.14*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0575	LF	1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	18.13	5.31
		For Work In Restricted Working Space, Add	*3.18*	
22 07 19 00-0576	LF	1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	20.75	5.38
		For Work In Restricted Working Space, Add	*3.23*	
22 07 19 00-0577	LF	2" I.D. (2-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	22.99	5.42
		For Work In Restricted Working Space, Add	*3.25*	
22 07 19 00-0578	LF	2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	26.39	5.53
		For Work In Restricted Working Space, Add	*3.32*	
22 07 19 00-0579	LF	3" I.D. (3-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	28.73	5.60
		For Work In Restricted Working Space, Add	*3.35*	
22 07 19 00-0580	LF	3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	32.61	5.67
		For Work In Restricted Working Space, Add	*3.40*	
22 07 19 00-0581	LF	4" I.D. (4-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation	34.39	5.73
		For Work In Restricted Working Space, Add	*3.44*	

22 07 19 00-0582 1" Wall Flexible Elastomeric Unicellular Insulation *(22 07 19 00-0547)*

22 07 19 00-0583	LF	3/8" I.D. (1/2" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	18.19	5.31
		For Work In Restricted Working Space, Add	*3.18*	
22 07 19 00-0584	LF	1/2" I.D. (5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	19.12	5.53
		For Work In Restricted Working Space, Add	*3.32*	
22 07 19 00-0585	LF	3/4" I.D. (7/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	21.14	5.60
		For Work In Restricted Working Space, Add	*3.35*	
22 07 19 00-0586	LF	1" I.D. (1-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	23.57	5.73
		For Work In Restricted Working Space, Add	*3.44*	
22 07 19 00-0587	LF	1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	25.78	5.88
		For Work In Restricted Working Space, Add	*3.53*	
22 07 19 00-0588	LF	1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	27.44	5.95
		For Work In Restricted Working Space, Add	*3.57*	
22 07 19 00-0589	LF	2" I.D. (2-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	30.74	6.02
		For Work In Restricted Working Space, Add	*3.62*	
22 07 19 00-0590	LF	2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	38.71	6.18
		For Work In Restricted Working Space, Add	*3.70*	
22 07 19 00-0591	LF	3" I.D. (3-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	44.46	6.25
		For Work In Restricted Working Space, Add	*3.74*	
22 07 19 00-0592	LF	3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	47.56	6.31
		For Work In Restricted Working Space, Add	*3.79*	
22 07 19 00-0593	LF	4" I.D. (4-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation	53.94	6.46
		For Work In Restricted Working Space, Add	*3.87*	

22 07 19 00-0594 Insulation Protective Jacketing *(22 07 19)*

Note: Jacketing only and to be added to insulation prices when required. ID = inside diameter.

22 07 19 00-0595 Aluminum Insulation Protective Jacketing With Bands *(22 07 19 00-0594)*

22 07 19 00-0596 Aluminum Roll, Insulation Protective Jacketing With Bands *(22 07 19 00-0595)*

22 07 19 00-0597	SF	0.006" Aluminum Insulation Jacket With Bands	20.58	8.74
22 07 19 00-0598	SF	0.010" Aluminum Insulation Jacket With Bands	20.95	8.74
22 07 19 00-0599	SF	0.016" Aluminum Insulation Jacket With Bands	21.29	8.74
22 07 19 00-0600	SF	0.024" Aluminum Insulation Jacket With Bands	21.90	8.74
22 07 19 00-0601	SF	0.020" Aluminum Insulation Jacket With Bands	21.61	8.74

22 07 19 00-0602 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands *(22 07 19 00-0595)*

22 07 19 00-0603	LF	1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	10.74	2.48
		For Stucco Embossed, Add	*0.01*	
		For Corrugated, Add	*0.02*	
22 07 19 00-0604	LF	3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	11.21	2.54
		For Stucco Embossed, Add	*0.01*	
		For Corrugated, Add	*0.03*	
22 07 19 00-0605	LF	1" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	11.69	2.61
		For Stucco Embossed, Add	*0.01*	
		For Corrugated, Add	*0.03*	
22 07 19 00-0606	LF	1-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	12.18	2.67
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.04*	
22 07 19 00-0607	LF	1-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	12.57	2.71
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.04*	
22 07 19 00-0608	LF	1-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	12.97	2.75
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.05*	
22 07 19 00-0609	LF	2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	13.43	2.81
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.06*	
22 07 19 00-0610	LF	2-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	13.92	2.86
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.06*	
22 07 19 00-0611	LF	2-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	14.42	2.93
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0612	LF	2-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	14.85	2.97
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.07*	
22 07 19 00-0613	LF	3" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	15.38	3.04
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.08*	
22 07 19 00-0614	LF	3-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	15.90	3.11
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.09*	
22 07 19 00-0615	LF	3-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	16.41	3.18
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.09*	
22 07 19 00-0616	LF	3-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	16.89	3.23
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.10*	
22 07 19 00-0617	LF	4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	17.44	3.31
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.10*	
22 07 19 00-0618	LF	4-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	18.01	3.39
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.11*	
22 07 19 00-0619	LF	4-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	18.61	3.48
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.12*	
22 07 19 00-0620	LF	4-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	19.12	3.55
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.12*	
22 07 19 00-0621	LF	5" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	19.74	3.64
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.13*	
22 07 19 00-0622	LF	5-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	20.38	3.74
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.14*	
22 07 19 00-0623	LF	5-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	20.93	3.82
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.14*	
22 07 19 00-0624	LF	5-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	21.63	3.93
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.15*	
22 07 19 00-0625	LF	6" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	22.34	4.04
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.15*	
22 07 19 00-0626	LF	6-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	22.83	4.10
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.16*	
22 07 19 00-0627	LF	6-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	23.31	4.17
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.17*	
22 07 19 00-0628	LF	7" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	24.15	4.26
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.18*	
22 07 19 00-0629	LF	7-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	24.79	4.38
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.18*	
22 07 19 00-0630	LF	7-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	25.32	4.45
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.19*	
22 07 19 00-0631	LF	8" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	26.09	4.52
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.20*	
22 07 19 00-0632	LF	8-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	26.87	4.60
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.21*	
22 07 19 00-0633	LF	9" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	27.81	4.71
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.22*	
22 07 19 00-0634	LF	9-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	28.65	4.80
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.24*	
22 07 19 00-0635	LF	10" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	29.46	4.88
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.25*	
22 07 19 00-0636	LF	10-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	30.30	4.97
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.26*	
22 07 19 00-0637	LF	11" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	31.33	5.11
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.27*	
22 07 19 00-0638	LF	11-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	32.23	5.20
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.29*	
22 07 19 00-0639	LF	12" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	33.10	5.30
		For Stucco Embossed, Add	*0.12*	
		For Corrugated, Add	*0.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0640	LF	12-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	34.22	5.46
		For Stucco Embossed, Add	*0.12*	
		For Corrugated, Add	*0.31*	
22 07 19 00-0641	LF	13" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	34.91	5.52
		For Stucco Embossed, Add	*0.13*	
		For Corrugated, Add	*0.32*	
22 07 19 00-0642	LF	14" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	36.11	5.57
		For Stucco Embossed, Add	*0.14*	
		For Corrugated, Add	*0.35*	
22 07 19 00-0643	LF	15" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	37.53	5.69
		For Stucco Embossed, Add	*0.15*	
		For Corrugated, Add	*0.37*	
22 07 19 00-0644	LF	16" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	38.74	5.75
		For Stucco Embossed, Add	*0.16*	
		For Corrugated, Add	*0.39*	
22 07 19 00-0645	LF	17" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	40.20	5.87
		For Stucco Embossed, Add	*0.17*	
		For Corrugated, Add	*0.42*	
22 07 19 00-0646	LF	18" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	41.11	5.93
		For Stucco Embossed, Add	*0.17*	
		For Corrugated, Add	*0.43*	
22 07 19 00-0647	LF	19" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	42.91	6.08
		For Stucco Embossed, Add	*0.19*	
		For Corrugated, Add	*0.47*	
22 07 19 00-0648	LF	20" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	44.17	6.14
		For Stucco Embossed, Add	*0.20*	
		For Corrugated, Add	*0.49*	
22 07 19 00-0649	LF	21" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	45.69	6.28
		For Stucco Embossed, Add	*0.21*	
		For Corrugated, Add	*0.51*	
22 07 19 00-0650	LF	22" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	46.93	6.36
		For Stucco Embossed, Add	*0.22*	
		For Corrugated, Add	*0.54*	
22 07 19 00-0651	LF	23" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	48.51	6.51
		For Stucco Embossed, Add	*0.22*	
		For Corrugated, Add	*0.56*	
22 07 19 00-0652	LF	24" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	49.77	6.59
		For Stucco Embossed, Add	*0.23*	
		For Corrugated, Add	*0.59*	

22 07 19 00-0653 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands *(22 07 19 00-0595)*

22 07 19 00-0654	LF	1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	11.95	2.74
		For Stucco Embossed, Add	*0.01*	
		For Corrugated, Add	*0.03*	
22 07 19 00-0655	LF	3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	12.50	2.80
		For Stucco Embossed, Add	*0.01*	
		For Corrugated, Add	*0.03*	
22 07 19 00-0656	LF	1" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	13.07	2.87
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.04*	
22 07 19 00-0657	LF	1-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	13.65	2.94
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.05*	
22 07 19 00-0658	LF	1-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	14.13	2.98
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.06*	
22 07 19 00-0659	LF	1-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	14.61	3.02
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.06*	
22 07 19 00-0660	LF	2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	15.16	3.08
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.07*	
22 07 19 00-0661	LF	2-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	15.72	3.15
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.08*	
22 07 19 00-0662	LF	2-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	16.32	3.22
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.09*	
22 07 19 00-0663	LF	2-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	16.84	3.27
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.09*	
22 07 19 00-0664	LF	3" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	17.47	3.34
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.10*	
22 07 19 00-0665	LF	3-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	18.07	3.42
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.11*	
22 07 19 00-0666	LF	3-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	18.70	3.49
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.12*	
22 07 19 00-0667	LF	3-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	19.24	3.56
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0668	LF	4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	19.89	3.64
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.13*	
22 07 19 00-0669	LF	4-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	20.56	3.73
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.14*	
22 07 19 00-0670	LF	4-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	21.28	3.83
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.15*	
22 07 19 00-0671	LF	4-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	21.87	3.90
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.16*	
22 07 19 00-0672	LF	5" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	22.59	4.00
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.16*	
22 07 19 00-0673	LF	5-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	23.34	4.11
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.17*	
22 07 19 00-0674	LF	5-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	23.99	4.20
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.18*	
22 07 19 00-0675	LF	5-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	24.81	4.33
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.19*	
22 07 19 00-0676	LF	6" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	25.62	4.46
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.20*	
22 07 19 00-0677	LF	6-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	26.18	4.52
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.20*	
22 07 19 00-0678	LF	6-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	26.77	4.59
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.21*	
22 07 19 00-0679	LF	7" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	27.76	4.70
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.22*	
22 07 19 00-0680	LF	7-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	28.51	4.81
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.23*	
22 07 19 00-0681	LF	7-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	29.12	4.89
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.24*	
22 07 19 00-0682	LF	8" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	30.08	4.97
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.25*	
22 07 19 00-0683	LF	8-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	31.00	5.05
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.27*	
22 07 19 00-0684	LF	9" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	32.12	5.18
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.28*	
22 07 19 00-0685	LF	9-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	33.12	5.27
		For Stucco Embossed, Add	*0.12*	
		For Corrugated, Add	*0.30*	
22 07 19 00-0686	LF	10" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	34.10	5.37
		For Stucco Embossed, Add	*0.13*	
		For Corrugated, Add	*0.32*	
22 07 19 00-0687	LF	10-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	35.10	5.46
		For Stucco Embossed, Add	*0.13*	
		For Corrugated, Add	*0.33*	
22 07 19 00-0688	LF	11" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	36.32	5.61
		For Stucco Embossed, Add	*0.14*	
		For Corrugated, Add	*0.35*	
22 07 19 00-0689	LF	11-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	37.39	5.72
		For Stucco Embossed, Add	*0.14*	
		For Corrugated, Add	*0.36*	
22 07 19 00-0690	LF	12" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	38.44	5.83
		For Stucco Embossed, Add	*0.15*	
		For Corrugated, Add	*0.38*	
22 07 19 00-0691	LF	12-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	39.73	6.01
		For Stucco Embossed, Add	*0.16*	
		For Corrugated, Add	*0.39*	
22 07 19 00-0692	LF	13" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	40.59	6.08
		For Stucco Embossed, Add	*0.16*	
		For Corrugated, Add	*0.41*	
22 07 19 00-0693	LF	14" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	42.07	6.14
		For Stucco Embossed, Add	*0.18*	
		For Corrugated, Add	*0.44*	
22 07 19 00-0694	LF	15" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	43.80	6.26
		For Stucco Embossed, Add	*0.19*	
		For Corrugated, Add	*0.47*	
22 07 19 00-0695	LF	16" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	45.30	6.33
		For Stucco Embossed, Add	*0.20*	
		For Corrugated, Add	*0.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0696	LF	17" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	47.05	6.47
		For Stucco Embossed, Add	*0.21*	
		For Corrugated, Add	*0.53*	
22 07 19 00-0697	LF	18" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	48.16	6.54
		For Stucco Embossed, Add	*0.22*	
		For Corrugated, Add	*0.55*	
22 07 19 00-0698	LF	19" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	50.36	6.68
		For Stucco Embossed, Add	*0.24*	
		For Corrugated, Add	*0.59*	
22 07 19 00-0699	LF	20" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	51.92	6.75
		For Stucco Embossed, Add	*0.25*	
		For Corrugated, Add	*0.62*	
22 07 19 00-0700	LF	21" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	53.75	6.91
		For Stucco Embossed, Add	*0.26*	
		For Corrugated, Add	*0.65*	
22 07 19 00-0701	LF	22" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	55.27	6.99
		For Stucco Embossed, Add	*0.27*	
		For Corrugated, Add	*0.68*	
22 07 19 00-0702	LF	23" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	57.19	7.15
		For Stucco Embossed, Add	*0.29*	
		For Corrugated, Add	*0.71*	
22 07 19 00-0703	LF	24" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing	58.74	7.24
		For Stucco Embossed, Add	*0.30*	
		For Corrugated, Add	*0.74*	

22 07 19 00-0704 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands *(22 07 19 00-0595)*

22 07 19 00-0705	LF	1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	13.14	2.98
		For Stucco Embossed, Add	*0.01*	
		For Corrugated, Add	*0.03*	
22 07 19 00-0706	LF	3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	13.78	3.05
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.04*	
22 07 19 00-0707	LF	1" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	14.43	3.12
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.05*	
22 07 19 00-0708	LF	1-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	15.09	3.20
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.06*	
22 07 19 00-0709	LF	1-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	15.65	3.25
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.07*	
22 07 19 00-0710	LF	1-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	16.21	3.30
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.08*	
22 07 19 00-0711	LF	2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	16.84	3.36
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.08*	
22 07 19 00-0712	LF	2-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	17.48	3.43
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.09*	
22 07 19 00-0713	LF	2-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	18.17	3.51
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.10*	
22 07 19 00-0714	LF	2-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	18.77	3.56
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.11*	
22 07 19 00-0715	LF	3" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	19.49	3.64
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.12*	
22 07 19 00-0716	LF	3-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	20.19	3.72
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.13*	
22 07 19 00-0717	LF	3-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	20.89	3.81
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.14*	
22 07 19 00-0718	LF	3-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	21.53	3.88
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.15*	
22 07 19 00-0719	LF	4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	22.26	3.97
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.16*	
22 07 19 00-0720	LF	4-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	23.02	4.07
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.17*	
22 07 19 00-0721	LF	4-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	23.84	4.17
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.18*	
22 07 19 00-0722	LF	4-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	24.53	4.25
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.19*	
22 07 19 00-0723	LF	5" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	25.34	4.38
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0724	LF	5-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	26.18	4.50
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.21*	
22 07 19 00-0725	LF	5-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	26.93	4.59
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.21*	
22 07 19 00-0726	LF	5-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	27.86	4.72
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.22*	
22 07 19 00-0727	LF	6" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	28.78	4.86
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.23*	
22 07 19 00-0728	LF	6-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	29.43	4.93
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.24*	
22 07 19 00-0729	LF	6-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	30.10	5.01
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.25*	
22 07 19 00-0730	LF	7" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	31.24	5.12
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.27*	
22 07 19 00-0731	LF	7-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	32.09	5.25
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.28*	
22 07 19 00-0732	LF	7-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	32.79	5.33
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.29*	
22 07 19 00-0733	LF	8" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	33.89	5.42
		For Stucco Embossed, Add	*0.12*	
		For Corrugated, Add	*0.30*	
22 07 19 00-0734	LF	8-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	34.95	5.51
		For Stucco Embossed, Add	*0.13*	
		For Corrugated, Add	*0.32*	
22 07 19 00-0735	LF	9" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	36.25	5.65
		For Stucco Embossed, Add	*0.14*	
		For Corrugated, Add	*0.34*	
22 07 19 00-0736	LF	9-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	37.40	5.75
		For Stucco Embossed, Add	*0.14*	
		For Corrugated, Add	*0.36*	
22 07 19 00-0737	LF	10" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	38.55	5.85
		For Stucco Embossed, Add	*0.15*	
		For Corrugated, Add	*0.38*	
22 07 19 00-0738	LF	10-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	39.70	5.96
		For Stucco Embossed, Add	*0.16*	
		For Corrugated, Add	*0.40*	
22 07 19 00-0739	LF	11" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	41.08	6.13
		For Stucco Embossed, Add	*0.17*	
		For Corrugated, Add	*0.41*	
22 07 19 00-0740	LF	11-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	42.31	6.25
		For Stucco Embossed, Add	*0.17*	
		For Corrugated, Add	*0.43*	
22 07 19 00-0741	LF	12" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	43.53	6.37
		For Stucco Embossed, Add	*0.18*	
		For Corrugated, Add	*0.45*	
22 07 19 00-0742	LF	12-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	45.01	6.56
		For Stucco Embossed, Add	*0.19*	
		For Corrugated, Add	*0.47*	
22 07 19 00-0743	LF	13" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	46.00	6.63
		For Stucco Embossed, Add	*0.20*	
		For Corrugated, Add	*0.49*	
22 07 19 00-0744	LF	14" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	47.77	6.69
		For Stucco Embossed, Add	*0.21*	
		For Corrugated, Add	*0.53*	
22 07 19 00-0745	LF	15" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	49.76	6.83
		For Stucco Embossed, Add	*0.22*	
		For Corrugated, Add	*0.56*	
22 07 19 00-0746	LF	16" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	51.54	6.90
		For Stucco Embossed, Add	*0.24*	
		For Corrugated, Add	*0.60*	
22 07 19 00-0747	LF	17" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	53.58	7.05
		For Stucco Embossed, Add	*0.25*	
		For Corrugated, Add	*0.63*	
22 07 19 00-0748	LF	18" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	54.88	7.13
		For Stucco Embossed, Add	*0.26*	
		For Corrugated, Add	*0.66*	
22 07 19 00-0749	LF	19" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	57.45	7.28
		For Stucco Embossed, Add	*0.28*	
		For Corrugated, Add	*0.71*	
22 07 19 00-0750	LF	20" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	59.27	7.37
		For Stucco Embossed, Add	*0.30*	
		For Corrugated, Add	*0.75*	
22 07 19 00-0751	LF	21" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	61.38	7.53
		For Stucco Embossed, Add	*0.31*	
		For Corrugated, Add	*0.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0752	LF	22" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	63.19	7.62
		For Stucco Embossed, Add	*0.33*	
		For Corrugated, Add	*0.82*	
22 07 19 00-0753	LF	23" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	65.40	7.81
		For Stucco Embossed, Add	*0.34*	
		For Corrugated, Add	*0.85*	
22 07 19 00-0754	LF	24" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	67.22	7.90
		For Stucco Embossed, Add	*0.36*	
		For Corrugated, Add	*0.89*	

22 07 19 00-0755 32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands *(22 07 19 00-0595)*

22 07 19 00-0756	LF	1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	14.86	3.30
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.04*	
22 07 19 00-0757	LF	3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	15.64	3.38
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.05*	
22 07 19 00-0758	LF	1" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	16.45	3.46
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.07*	
22 07 19 00-0759	LF	1-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	17.27	3.54
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.08*	
22 07 19 00-0760	LF	1-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	17.97	3.60
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.09*	
22 07 19 00-0761	LF	1-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	18.66	3.65
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.10*	
22 07 19 00-0762	LF	2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	19.45	3.73
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.11*	
22 07 19 00-0763	LF	2-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	20.25	3.80
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.13*	
22 07 19 00-0764	LF	2-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	21.13	3.88
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.14*	
22 07 19 00-0765	LF	2-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	21.86	3.95
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.15*	
22 07 19 00-0766	LF	3" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	22.76	4.03
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.17*	
22 07 19 00-0767	LF	3-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	23.61	4.13
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.18*	
22 07 19 00-0768	LF	3-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	24.47	4.22
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.19*	
22 07 19 00-0769	LF	3-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	25.26	4.30
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.20*	
22 07 19 00-0770	LF	4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	26.16	4.41
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.21*	
22 07 19 00-0771	LF	4-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	27.08	4.52
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.23*	
22 07 19 00-0772	LF	4-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	28.09	4.63
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.24*	
22 07 19 00-0773	LF	4-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	28.94	4.72
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.25*	
22 07 19 00-0774	LF	5" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	29.92	4.85
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.26*	
22 07 19 00-0775	LF	5-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	30.95	4.98
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.28*	
22 07 19 00-0776	LF	5-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	31.84	5.08
		For Stucco Embossed, Add	*0.12*	
		For Corrugated, Add	*0.29*	
22 07 19 00-0777	LF	5-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	32.97	5.23
		For Stucco Embossed, Add	*0.12*	
		For Corrugated, Add	*0.30*	
22 07 19 00-0778	LF	6" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	34.07	5.38
		For Stucco Embossed, Add	*0.13*	
		For Corrugated, Add	*0.31*	
22 07 19 00-0779	LF	6-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	34.89	5.46
		For Stucco Embossed, Add	*0.13*	
		For Corrugated, Add	*0.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0780	LF	6-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	35.70	5.55
		For Stucco Embossed, Add	*0.14*	
		For Corrugated, Add	*0.34*	
22 07 19 00-0781	LF	7" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	37.13	5.67
		For Stucco Embossed, Add	*0.14*	
		For Corrugated, Add	*0.36*	
22 07 19 00-0782	LF	7-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	38.16	5.81
		For Stucco Embossed, Add	*0.15*	
		For Corrugated, Add	*0.37*	
22 07 19 00-0783	LF	7-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	39.03	5.90
		For Stucco Embossed, Add	*0.15*	
		For Corrugated, Add	*0.38*	
22 07 19 00-0784	LF	8" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	40.40	6.01
		For Stucco Embossed, Add	*0.16*	
		For Corrugated, Add	*0.41*	
22 07 19 00-0785	LF	8-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	41.76	6.11
		For Stucco Embossed, Add	*0.17*	
		For Corrugated, Add	*0.43*	
22 07 19 00-0786	LF	9" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	43.37	6.27
		For Stucco Embossed, Add	*0.18*	
		For Corrugated, Add	*0.46*	
22 07 19 00-0787	LF	9-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	44.83	6.38
		For Stucco Embossed, Add	*0.19*	
		For Corrugated, Add	*0.48*	
22 07 19 00-0788	LF	10" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	46.26	6.49
		For Stucco Embossed, Add	*0.20*	
		For Corrugated, Add	*0.51*	
22 07 19 00-0789	LF	10-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	47.69	6.61
		For Stucco Embossed, Add	*0.21*	
		For Corrugated, Add	*0.53*	
22 07 19 00-0790	LF	11" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	49.41	6.79
		For Stucco Embossed, Add	*0.22*	
		For Corrugated, Add	*0.56*	
22 07 19 00-0791	LF	11-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	50.96	6.92
		For Stucco Embossed, Add	*0.23*	
		For Corrugated, Add	*0.58*	
22 07 19 00-0792	LF	12" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	52.46	7.06
		For Stucco Embossed, Add	*0.24*	
		For Corrugated, Add	*0.61*	
22 07 19 00-0793	LF	12-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	54.28	7.27
		For Stucco Embossed, Add	*0.25*	
		For Corrugated, Add	*0.63*	
22 07 19 00-0794	LF	13" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	55.54	7.34
		For Stucco Embossed, Add	*0.26*	
		For Corrugated, Add	*0.65*	
22 07 19 00-0795	LF	14" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	57.84	7.41
		For Stucco Embossed, Add	*0.28*	
		For Corrugated, Add	*0.70*	
22 07 19 00-0796	LF	15" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	60.41	7.57
		For Stucco Embossed, Add	*0.30*	
		For Corrugated, Add	*0.75*	
22 07 19 00-0797	LF	16" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	62.72	7.65
		For Stucco Embossed, Add	*0.32*	
		For Corrugated, Add	*0.80*	
22 07 19 00-0798	LF	17" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	65.32	7.82
		For Stucco Embossed, Add	*0.34*	
		For Corrugated, Add	*0.85*	
22 07 19 00-0799	LF	18" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	66.98	7.90
		For Stucco Embossed, Add	*0.35*	
		For Corrugated, Add	*0.88*	
22 07 19 00-0800	LF	19" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	70.30	8.08
		For Stucco Embossed, Add	*0.38*	
		For Corrugated, Add	*0.95*	
22 07 19 00-0801	LF	20" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	72.65	8.17
		For Stucco Embossed, Add	*0.40*	
		For Corrugated, Add	*1.00*	
22 07 19 00-0802	LF	21" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	75.34	8.36
		For Stucco Embossed, Add	*0.42*	
		For Corrugated, Add	*1.05*	
22 07 19 00-0803	LF	22" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	77.68	8.45
		For Stucco Embossed, Add	*0.44*	
		For Corrugated, Add	*1.10*	
22 07 19 00-0804	LF	23" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	80.48	8.65
		For Stucco Embossed, Add	*0.46*	
		For Corrugated, Add	*1.15*	
22 07 19 00-0805	LF	24" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	82.83	8.76
		For Stucco Embossed, Add	*0.48*	
		For Corrugated, Add	*1.20*	

22 07 19 00-0806 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands *(22 07 19 00-0595)*

22 07 19 00-0807	LF	1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	17.25	3.80
		For Stucco Embossed, Add	*0.02*	
		For Corrugated, Add	*0.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0808	LF	3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	18.21	3.89
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.07*	
22 07 19 00-0809	LF	1" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	19.19	3.98
		For Stucco Embossed, Add	*0.03*	
		For Corrugated, Add	*0.08*	
22 07 19 00-0810	LF	1-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	20.19	4.07
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.10*	
22 07 19 00-0811	LF	1-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	21.05	4.13
		For Stucco Embossed, Add	*0.04*	
		For Corrugated, Add	*0.11*	
22 07 19 00-0812	LF	1-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	21.91	4.20
		For Stucco Embossed, Add	*0.05*	
		For Corrugated, Add	*0.13*	
22 07 19 00-0813	LF	2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	22.85	4.28
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.14*	
22 07 19 00-0814	LF	2-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	23.82	4.38
		For Stucco Embossed, Add	*0.06*	
		For Corrugated, Add	*0.16*	
22 07 19 00-0815	LF	2-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	24.88	4.47
		For Stucco Embossed, Add	*0.07*	
		For Corrugated, Add	*0.18*	
22 07 19 00-0816	LF	2-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	25.78	4.55
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.19*	
22 07 19 00-0817	LF	3" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	26.87	4.65
		For Stucco Embossed, Add	*0.08*	
		For Corrugated, Add	*0.21*	
22 07 19 00-0818	LF	3-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	27.90	4.75
		For Stucco Embossed, Add	*0.09*	
		For Corrugated, Add	*0.22*	
22 07 19 00-0819	LF	3-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	28.95	4.86
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.24*	
22 07 19 00-0820	LF	3-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	29.89	4.95
		For Stucco Embossed, Add	*0.10*	
		For Corrugated, Add	*0.25*	
22 07 19 00-0821	LF	4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	30.99	5.07
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.27*	
22 07 19 00-0822	LF	4-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	32.10	5.19
		For Stucco Embossed, Add	*0.11*	
		For Corrugated, Add	*0.28*	
22 07 19 00-0823	LF	4-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	33.32	5.32
		For Stucco Embossed, Add	*0.12*	
		For Corrugated, Add	*0.30*	
22 07 19 00-0824	LF	4-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	34.34	5.43
		For Stucco Embossed, Add	*0.13*	
		For Corrugated, Add	*0.32*	
22 07 19 00-0825	LF	5" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	35.53	5.57
		For Stucco Embossed, Add	*0.13*	
		For Corrugated, Add	*0.33*	
22 07 19 00-0826	LF	5-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	36.74	5.72
		For Stucco Embossed, Add	*0.14*	
		For Corrugated, Add	*0.35*	
22 07 19 00-0827	LF	5-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	37.84	5.84
		For Stucco Embossed, Add	*0.14*	
		For Corrugated, Add	*0.36*	
22 07 19 00-0828	LF	5-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	39.19	6.01
		For Stucco Embossed, Add	*0.15*	
		For Corrugated, Add	*0.38*	
22 07 19 00-0829	LF	6" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	40.51	6.20
		For Stucco Embossed, Add	*0.16*	
		For Corrugated, Add	*0.39*	
22 07 19 00-0830	LF	6-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	41.50	6.29
		For Stucco Embossed, Add	*0.16*	
		For Corrugated, Add	*0.41*	
22 07 19 00-0831	LF	6-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	42.49	6.39
		For Stucco Embossed, Add	*0.17*	
		For Corrugated, Add	*0.42*	
22 07 19 00-0832	LF	7" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	44.22	6.53
		For Stucco Embossed, Add	*0.18*	
		For Corrugated, Add	*0.45*	
22 07 19 00-0833	LF	7-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	45.47	6.69
		For Stucco Embossed, Add	*0.19*	
		For Corrugated, Add	*0.47*	
22 07 19 00-0834	LF	7-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	46.51	6.80
		For Stucco Embossed, Add	*0.19*	
		For Corrugated, Add	*0.48*	
22 07 19 00-0835	LF	8" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	48.19	6.91
		For Stucco Embossed, Add	*0.21*	
		For Corrugated, Add	*0.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0836	LF	8-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	49.85	7.02
		For Stucco Embossed, Add	*0.22*	
		For Corrugated, Add	*0.54*	
22 07 19 00-0837	LF	9" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	51.80	7.21
		For Stucco Embossed, Add	*0.23*	
		For Corrugated, Add	*0.57*	
22 07 19 00-0838	LF	9-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	53.59	7.33
		For Stucco Embossed, Add	*0.24*	
		For Corrugated, Add	*0.61*	
22 07 19 00-0839	LF	10" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	55.34	7.46
		For Stucco Embossed, Add	*0.25*	
		For Corrugated, Add	*0.64*	
22 07 19 00-0840	LF	10-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	57.09	7.60
		For Stucco Embossed, Add	*0.27*	
		For Corrugated, Add	*0.67*	
22 07 19 00-0841	LF	11" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	59.16	7.82
		For Stucco Embossed, Add	*0.28*	
		For Corrugated, Add	*0.70*	
22 07 19 00-0842	LF	11-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	61.04	7.97
		For Stucco Embossed, Add	*0.29*	
		For Corrugated, Add	*0.73*	
22 07 19 00-0843	LF	12" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	62.89	8.12
		For Stucco Embossed, Add	*0.30*	
		For Corrugated, Add	*0.76*	
22 07 19 00-0844	LF	12-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	65.07	8.36
		For Stucco Embossed, Add	*0.32*	
		For Corrugated, Add	*0.79*	
22 07 19 00-0845	LF	13" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	66.63	8.45
		For Stucco Embossed, Add	*0.33*	
		For Corrugated, Add	*0.82*	
22 07 19 00-0846	LF	14" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	69.49	8.53
		For Stucco Embossed, Add	*0.35*	
		For Corrugated, Add	*0.88*	
22 07 19 00-0847	LF	15" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	72.62	8.71
		For Stucco Embossed, Add	*0.38*	
		For Corrugated, Add	*0.94*	
22 07 19 00-0848	LF	16" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	75.50	8.80
		For Stucco Embossed, Add	*0.40*	
		For Corrugated, Add	*1.01*	
22 07 19 00-0849	LF	17" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	78.70	8.99
		For Stucco Embossed, Add	*0.43*	
		For Corrugated, Add	*1.07*	
22 07 19 00-0850	LF	18" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	80.76	9.08
		For Stucco Embossed, Add	*0.44*	
		For Corrugated, Add	*1.11*	
22 07 19 00-0851	LF	19" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	84.84	9.29
		For Stucco Embossed, Add	*0.48*	
		For Corrugated, Add	*1.19*	
22 07 19 00-0852	LF	20" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	87.77	9.39
		For Stucco Embossed, Add	*0.50*	
		For Corrugated, Add	*1.25*	
22 07 19 00-0853	LF	21" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	91.06	9.61
		For Stucco Embossed, Add	*0.53*	
		For Corrugated, Add	*1.32*	
22 07 19 00-0854	LF	22" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	93.95	9.73
		For Stucco Embossed, Add	*0.55*	
		For Corrugated, Add	*1.38*	
22 07 19 00-0855	LF	23" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	97.38	9.96
		For Stucco Embossed, Add	*0.58*	
		For Corrugated, Add	*1.44*	
22 07 19 00-0856	LF	24" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	100.29	10.07
		For Stucco Embossed, Add	*0.60*	
		For Corrugated, Add	*1.50*	

22 07 19 00-0857 Aluminum Insulation Protective Jacketing For Fittings *(22 07 19 00-0595)*

22 07 19 00-0858	EA	1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	27.67	3.90
22 07 19 00-0859	EA	1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	28.25	4.04
22 07 19 00-0860	EA	2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.00	4.20
22 07 19 00-0861	EA	2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.26	4.26
22 07 19 00-0862	EA	2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.53	4.34
22 07 19 00-0863	EA	2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.95	4.45
22 07 19 00-0864	EA	3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	34.68	4.56
22 07 19 00-0865	EA	3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	35.14	4.67
22 07 19 00-0866	EA	3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	38.47	4.75
22 07 19 00-0867	EA	3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	39.30	4.84
22 07 19 00-0868	EA	4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	40.75	4.97
22 07 19 00-0869	EA	4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	41.72	5.06
22 07 19 00-0870	EA	4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	42.10	5.15
22 07 19 00-0871	EA	4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	42.50	5.25
22 07 19 00-0872	EA	5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	45.63	5.36
22 07 19 00-0873	EA	5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	49.78	5.46
22 07 19 00-0874	EA	5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	57.31	5.63
22 07 19 00-0875	EA	5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	57.78	5.75

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0876	EA	6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	53.44	5.93
22 07 19 00-0877	EA	6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	53.97	6.08
22 07 19 00-0878	EA	6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	60.87	6.28
22 07 19 00-0879	EA	7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	69.09	6.43
22 07 19 00-0880	EA	7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	69.39	6.51
22 07 19 00-0881	EA	7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	90.11	6.59
22 07 19 00-0882	EA	8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	74.21	6.67
22 07 19 00-0883	EA	8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	115.19	6.83
22 07 19 00-0884	EA	9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	115.89	7.00
22 07 19 00-0885	EA	9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	93.02	7.10
22 07 19 00-0886	EA	10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	93.40	7.19
22 07 19 00-0887	EA	10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	95.17	7.28
22 07 19 00-0888	EA	11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	95.57	7.38
22 07 19 00-0889	EA	11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	105.42	7.59
22 07 19 00-0890	EA	12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	105.85	7.69
22 07 19 00-0891	EA	12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	165.28	7.92
22 07 19 00-0892	EA	13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	165.76	8.04
22 07 19 00-0893	EA	14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	212.29	8.28
22 07 19 00-0894	EA	15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	221.47	8.54
22 07 19 00-0895	EA	16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	239.03	8.67
22 07 19 00-0896	EA	2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	29.89	4.34
22 07 19 00-0897	EA	2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	30.31	4.45
22 07 19 00-0898	EA	3" ID, Aluminum 45 Degree Elbow Insulation Jacketing	32.39	4.56
22 07 19 00-0899	EA	3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	32.85	4.67
22 07 19 00-0900	EA	3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing	35.17	4.75
22 07 19 00-0901	EA	3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	35.50	4.84
22 07 19 00-0902	EA	4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	36.30	4.97
22 07 19 00-0903	EA	4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	38.98	5.06
22 07 19 00-0904	EA	4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.36	5.15
22 07 19 00-0905	EA	4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.76	5.25
22 07 19 00-0906	EA	5" ID, Aluminum 45 Degree Elbow Insulation Jacketing	43.43	5.36
22 07 19 00-0907	EA	5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	43.87	5.46
22 07 19 00-0908	EA	5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	45.61	5.63
22 07 19 00-0909	EA	6" ID, Aluminum 45 Degree Elbow Insulation Jacketing	46.84	5.93
22 07 19 00-0910	EA	6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.00	6.28
22 07 19 00-0911	EA	7" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.59	6.43
22 07 19 00-0912	EA	7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	58.50	6.59
22 07 19 00-0913	EA	8" ID, Aluminum 45 Degree Elbow Insulation Jacketing	58.82	6.67
22 07 19 00-0914	EA	8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	67.33	6.83
22 07 19 00-0915	EA	9" ID, Aluminum 45 Degree Elbow Insulation Jacketing	68.03	7.00
22 07 19 00-0916	EA	9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	83.93	7.10
22 07 19 00-0917	EA	10" ID, Aluminum 45 Degree Elbow Insulation Jacketing	84.31	7.19
22 07 19 00-0918	EA	10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	81.09	7.28
22 07 19 00-0919	EA	11" ID, Aluminum 45 Degree Elbow Insulation Jacketing	81.49	7.38
22 07 19 00-0920	EA	11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	92.77	7.59
22 07 19 00-0921	EA	12" ID, Aluminum 45 Degree Elbow Insulation Jacketing	93.20	7.69
22 07 19 00-0922	EA	13" ID, Aluminum 45 Degree Elbow Insulation Jacketing	105.40	8.04
22 07 19 00-0923	EA	14" ID, Aluminum 45 Degree Elbow Insulation Jacketing	123.00	8.28
22 07 19 00-0924	EA	15" ID, Aluminum 45 Degree Elbow Insulation Jacketing	172.63	8.54
22 07 19 00-0925	EA	16" ID, Aluminum 45 Degree Elbow Insulation Jacketing	184.82	8.67
22 07 19 00-0926	EA	17" ID, Aluminum 45 Degree Elbow Insulation Jacketing	181.84	8.81
22 07 19 00-0927	EA	18" ID, Aluminum 45 Degree Elbow Insulation Jacketing	203.04	8.96
22 07 19 00-0928	EA	19" ID, Aluminum 45 Degree Elbow Insulation Jacketing	240.68	9.10
22 07 19 00-0929	EA	20" ID, Aluminum 45 Degree Elbow Insulation Jacketing	234.58	9.26
22 07 19 00-0930	EA	21" ID, Aluminum 45 Degree Elbow Insulation Jacketing	250.94	9.42
22 07 19 00-0931	EA	2-1/2" ID, Aluminum Tee Insulation Jacketing	110.92	6.21
22 07 19 00-0932	EA	2-3/4" ID, Aluminum Tee Insulation Jacketing	111.51	6.36
22 07 19 00-0933	EA	3" ID, Aluminum Tee Insulation Jacketing	123.27	6.51
22 07 19 00-0934	EA	3-1/4" ID, Aluminum Tee Insulation Jacketing	123.90	6.67
22 07 19 00-0935	EA	3-1/2" ID Aluminum Tee Insulation Jacketing	129.24	6.83
22 07 19 00-0936	EA	4" ID, Aluminum Tee Insulation Jacketing	131.04	7.00
22 07 19 00-0937	EA	4-1/4" ID, Aluminum Tee Insulation Jacketing	137.72	7.19
22 07 19 00-0938	EA	4-1/2" ID, Aluminum Tee Insulation Jacketing	137.61	7.38
22 07 19 00-0939	EA	4-3/4" ID, Aluminum Tee Insulation Jacketing	138.43	7.59
22 07 19 00-0940	EA	5" ID, Aluminum Tee Insulation Jacketing	143.33	7.81
22 07 19 00-0941	EA	5-1/4" ID, Aluminum Tee Insulation Jacketing	144.26	8.04
22 07 19 00-0942	EA	5-1/2" ID, Aluminum Tee Insulation Jacketing	150.18	8.28
22 07 19 00-0943	EA	6" ID, Aluminum Tee Insulation Jacketing	151.22	8.54
22 07 19 00-0944	EA	6-1/2" ID, Aluminum Tee Insulation Jacketing	165.02	9.10
22 07 19 00-0945	EA	7" ID, Aluminum Tee Insulation Jacketing	166.28	9.42
22 07 19 00-0946	EA	7-1/2" ID, Aluminum Tee Insulation Jacketing	182.03	9.76
22 07 19 00-0947	EA	8" ID, Aluminum Tee Insulation Jacketing	183.47	10.12
22 07 19 00-0948	EA	8-1/2" ID, Aluminum Tee Insulation Jacketing	188.80	10.51
22 07 19 00-0949	EA	9" ID, Aluminum Tee Insulation Jacketing	190.48	10.93
22 07 19 00-0950	EA	9-1/2" ID, Aluminum Tee Insulation Jacketing	153.54	11.15
22 07 19 00-0951	EA	10" ID, Aluminum Tee Insulation Jacketing	154.46	11.39
22 07 19 00-0952	EA	10-1/2" ID, Aluminum Tee Insulation Jacketing	162.54	11.63
22 07 19 00-0953	EA	11" ID, Aluminum Tee Insulation Jacketing	163.55	11.88
22 07 19 00-0954	EA	11-1/2" ID, Aluminum Tee Insulation Jacketing	170.92	12.14
22 07 19 00-0955	EA	12" ID, Aluminum Tee Insulation Jacketing	172.03	12.42
22 07 19 00-0956	EA	13" ID, Aluminum Tee Insulation Jacketing	179.27	12.70

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0957	EA	14" ID, Aluminum Tee Insulation Jacketing	186.78	13.01
22 07 19 00-0958	EA	15" ID, Aluminum Tee Insulation Jacketing	199.04	13.33
22 07 19 00-0959	EA	16" ID, Aluminum Tee Insulation Jacketing	204.04	13.66
22 07 19 00-0960	EA	17" ID, Aluminum Tee Insulation Jacketing	227.79	14.01
22 07 19 00-0961	EA	18" ID, Aluminum Tee Insulation Jacketing	235.96	14.38
22 07 19 00-0962	EA	19" ID, Aluminum Tee Insulation Jacketing	256.40	14.77
22 07 19 00-0963	EA	20" ID, Aluminum Tee Insulation Jacketing	262.35	15.18
22 07 19 00-0964	EA	22" ID, Aluminum Tee Insulation Jacketing	318.95	15.61
22 07 19 00-0965	EA	23" ID, Aluminum Tee Insulation Jacketing	327.91	16.07
22 07 19 00-0966	EA	24" ID, Aluminum Tee Insulation Jacketing	341.00	17.62
22 07 19 00-0967		Stainless Steel Insulation Protective Jacketing With Bands *(22 07 19 00-0594)*		
22 07 19 00-0968		Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands *(22 07 19 00-0967)*		
22 07 19 00-0969	SF	0.010" Stainless Steel Insulation Jacket With Bands	25.61	10.25
22 07 19 00-0970	SF	0.016" Stainless Steel Insulation Jacket With Bands	31.43	12.29
22 07 19 00-0971		10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands *(22 07 19 00-0967)*		
22 07 19 00-0972	LF	2-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	13.09	2.18
22 07 19 00-0973	LF	2-3/4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	13.66	2.23
22 07 19 00-0974	LF	3" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	14.22	2.27
22 07 19 00-0975	LF	3-1/4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	14.82	2.32
22 07 19 00-0976	LF	3-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	15.42	2.37
22 07 19 00-0977	LF	3-3/4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	16.01	2.42
22 07 19 00-0978	LF	4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	16.62	2.48
22 07 19 00-0979	LF	4-1/4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	17.23	2.54
22 07 19 00-0980	LF	4-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	17.85	2.61
22 07 19 00-0981	LF	5" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	19.16	2.74
22 07 19 00-0982	LF	5-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	20.51	2.88
22 07 19 00-0983	LF	6" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	21.91	3.04
22 07 19 00-0984	LF	6-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	23.03	3.12
22 07 19 00-0985	LF	7" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	24.17	3.22
22 07 19 00-0986	LF	7-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	25.42	3.33
22 07 19 00-0987	LF	8" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	26.44	3.39
22 07 19 00-0988	LF	8-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	27.46	3.46
22 07 19 00-0989	LF	9" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	28.51	3.53
22 07 19 00-0990	LF	9-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	29.56	3.59
22 07 19 00-0991	LF	10" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	30.62	3.67
22 07 19 00-0992	LF	10-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	31.71	3.74
22 07 19 00-0993	LF	11" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	32.79	3.82
22 07 19 00-0994	LF	12" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	34.99	3.99
22 07 19 00-0995	LF	13" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	37.16	4.14
22 07 19 00-0996	LF	14" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	38.95	4.20
22 07 19 00-0997		16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands *(22 07 19 00-0967)*		
22 07 19 00-0998	LF	2-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	17.94	2.91
22 07 19 00-0999	LF	2-3/4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	18.74	2.97
22 07 19 00-1000	LF	3" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	19.54	3.03
22 07 19 00-1001	LF	3-1/4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	20.38	3.09
22 07 19 00-1002	LF	3-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	21.20	3.16
22 07 19 00-1003	LF	3-3/4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	22.03	3.23
22 07 19 00-1004	LF	4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	22.90	3.30
22 07 19 00-1005	LF	4-1/4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	23.76	3.38
22 07 19 00-1006	LF	4-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	24.64	3.46
22 07 19 00-1007	LF	5" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	26.46	3.63
22 07 19 00-1008	LF	5-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	28.35	3.82
22 07 19 00-1009	LF	6" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	30.31	4.03
22 07 19 00-1010	LF	6-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	31.90	4.15
22 07 19 00-1011	LF	7" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	33.52	4.27
22 07 19 00-1012	LF	7-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	35.25	4.44
22 07 19 00-1013	LF	8" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	36.70	4.52
22 07 19 00-1014	LF	8-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	38.16	4.60
22 07 19 00-1015	LF	9" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	39.66	4.69
22 07 19 00-1016	LF	9-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	41.13	4.78
22 07 19 00-1017	LF	10" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	42.64	4.88
22 07 19 00-1018	LF	10-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	44.19	4.98
22 07 19 00-1019	LF	11" ID, 0.0106 Thick (16 Mil), Stainless Steel Insulation Jacketing	45.71	5.08
22 07 19 00-1020	LF	12" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	48.83	5.30
22 07 19 00-1021	LF	13" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	51.88	5.50
22 07 19 00-1022	LF	14" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	54.46	5.59
22 07 19 00-1023		Type 316 Stainless Steel Insulation Protective Jacketing For Fittings *(22 07 19 00-0967)*		
22 07 19 00-1024	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	36.58	4.34

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1025	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	37.00	4.45
22 07 19 00-1026	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	38.32	4.56
22 07 19 00-1027	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	38.78	4.67
22 07 19 00-1028	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	40.13	4.75
22 07 19 00-1029	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	41.66	4.84
22 07 19 00-1030	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	44.40	4.97
22 07 19 00-1031	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	52.85	5.06
22 07 19 00-1032	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	53.23	5.15
22 07 19 00-1033	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	54.78	5.36
22 07 19 00-1034	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	72.26	5.63
22 07 19 00-1035	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	78.35	5.93
22 07 19 00-1036	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	100.27	6.28
22 07 19 00-1037	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	100.86	6.43
22 07 19 00-1038	EA	7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	114.07	6.59
22 07 19 00-1039	EA	8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	115.06	6.83
22 07 19 00-1040	EA	8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	118.04	6.83
22 07 19 00-1041	EA	9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	166.01	7.00
22 07 19 00-1042	EA	9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	163.97	7.10
22 07 19 00-1043	EA	10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	164.35	7.19
22 07 19 00-1044	EA	10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	191.37	7.28
22 07 19 00-1045	EA	11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	184.41	7.38
22 07 19 00-1046	EA	12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	206.61	7.69
22 07 19 00-1047	EA	13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	275.74	8.04
22 07 19 00-1048	EA	14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	278.35	8.28
22 07 19 00-1049	EA	2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	33.38	4.34
22 07 19 00-1050	EA	2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	33.80	4.45
22 07 19 00-1051	EA	3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	35.46	4.56
22 07 19 00-1052	EA	3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	35.92	4.67
22 07 19 00-1053	EA	3-1/2" ID Stainless Steel 45 Degree Elbow Insulation Jacketing	36.47	4.75
22 07 19 00-1054	EA	3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	36.80	4.84
22 07 19 00-1055	EA	4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	42.31	4.97
22 07 19 00-1056	EA	4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	51.74	5.06
22 07 19 00-1057	EA	4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	52.12	5.15
22 07 19 00-1058	EA	4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	52.52	5.25
22 07 19 00-1059	EA	5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	53.46	5.36
22 07 19 00-1060	EA	5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	54.57	5.63
22 07 19 00-1061	EA	6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	61.77	5.93
22 07 19 00-1062	EA	6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	63.14	6.28
22 07 19 00-1063	EA	7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	90.03	6.43
22 07 19 00-1064	EA	7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	91.97	6.59
22 07 19 00-1065	EA	8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	92.29	6.67
22 07 19 00-1066	EA	8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	104.12	6.83
22 07 19 00-1067	EA	9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	104.82	7.00
22 07 19 00-1068	EA	9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	118.55	7.10
22 07 19 00-1069	EA	10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	118.93	7.19
22 07 19 00-1070	EA	10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	137.51	7.28
22 07 19 00-1071	EA	11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	137.91	7.38
22 07 19 00-1072	EA	12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	148.48	7.69
22 07 19 00-1073	EA	13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	170.63	8.04

22 07 19 00-1074 Polyvinyl Chloride (PVC) Insulation Protective Jacketing *(22 07 19 00-0594)*

22 07 19 00-1075 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing *(22 07 19 00-1074)*

22 07 19 00-1076	LF	1-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	9.36	2.02
22 07 19 00-1077	LF	2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	10.10	2.10
22 07 19 00-1078	LF	2-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	10.74	2.18
22 07 19 00-1079	LF	3" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	11.52	2.27
22 07 19 00-1080	LF	3-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	12.25	2.37
22 07 19 00-1081	LF	4" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	13.05	2.48
22 07 19 00-1082	LF	4-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	13.89	2.61
22 07 19 00-1083	LF	5" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	14.72	2.74
22 07 19 00-1084	LF	5-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	15.67	2.88
22 07 19 00-1085	LF	6" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	16.67	3.04
22 07 19 00-1086	LF	6-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	17.39	3.12
22 07 19 00-1087	LF	7" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	18.07	3.22
22 07 19 00-1088	LF	7-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	18.97	3.33
22 07 19 00-1089	LF	8" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	19.53	3.39
22 07 19 00-1090	LF	8-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	20.15	3.46
22 07 19 00-1091	LF	9" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	20.79	3.53
22 07 19 00-1092	LF	9-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	21.44	3.59
22 07 19 00-1093	LF	10" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	22.05	3.67
22 07 19 00-1094	LF	10-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	22.72	3.74
22 07 19 00-1095	LF	11" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	23.41	3.82
22 07 19 00-1096	LF	11-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	24.09	3.90
22 07 19 00-1097	LF	12" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	24.75	3.99
22 07 19 00-1098	LF	12-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	25.53	4.07
22 07 19 00-1099	LF	13" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	26.10	4.14
22 07 19 00-1100	LF	13-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	26.47	4.14
22 07 19 00-1101	LF	14" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	27.10	4.20
22 07 19 00-1102	LF	15" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	28.09	4.26

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1103	LF	16" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	29.05	4.34
22 07 19 00-1104	LF	17" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	30.06	4.41
22 07 19 00-1105	LF	18" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	31.08	4.48
22 07 19 00-1106	LF	19" ID, 0.02" Thick (20 Mil), Chloride (PVC) Insulation Jacketing	32.08	4.56
22 07 19 00-1107	LF	20" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	33.13	4.63
22 07 19 00-1108	LF	21" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	34.12	4.71
22 07 19 00-1109	LF	22" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	35.19	4.80
22 07 19 00-1110	LF	23" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	36.21	4.88
22 07 19 00-1111	LF	24" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	37.31	4.97
22 07 19 00-1112	LF	25" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	38.42	5.06
22 07 19 00-1113	LF	26" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	39.49	5.15
22 07 19 00-1114	LF	27" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	40.62	5.25
22 07 19 00-1115	LF	28" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	41.71	5.36
22 07 19 00-1116	LF	29" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	42.89	5.46
22 07 19 00-1117	LF	30" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	44.06	5.57
22 07 19 00-1118		30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing *(22 07 19 00-1074)*		
22 07 19 00-1119	LF	2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	10.89	2.10
22 07 19 00-1120	LF	2-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	11.74	2.18
22 07 19 00-1121	LF	3" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	12.68	2.27
22 07 19 00-1122	LF	3-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	13.57	2.37
22 07 19 00-1123	LF	4" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	14.52	2.48
22 07 19 00-1124	LF	4-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	15.52	2.61
22 07 19 00-1125	LF	5" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	16.57	2.74
22 07 19 00-1126	LF	5-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	17.68	2.88
22 07 19 00-1127	LF	6" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	18.83	3.04
22 07 19 00-1128	LF	6-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	19.71	3.12
22 07 19 00-1129	LF	7" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	20.60	3.22
22 07 19 00-1130	LF	7-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	21.66	3.33
22 07 19 00-1131	LF	8" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	22.43	3.39
22 07 19 00-1132	LF	8-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	23.21	3.46
22 07 19 00-1133	LF	9" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	24.01	3.53
22 07 19 00-1134	LF	9-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	24.81	3.59
22 07 19 00-1135	LF	10" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	25.63	3.67
22 07 19 00-1136	LF	10-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	26.46	3.74
22 07 19 00-1137	LF	11" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	27.30	3.82
22 07 19 00-1138	LF	11-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	28.15	3.90
22 07 19 00-1139	LF	12" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	29.02	3.99
22 07 19 00-1140	LF	12-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	29.96	4.07
22 07 19 00-1141	LF	13" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	30.74	4.14
22 07 19 00-1142	LF	13-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	31.26	4.14
22 07 19 00-1143	LF	14" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	32.05	4.20
22 07 19 00-1144	LF	15" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	33.36	4.26
22 07 19 00-1145	LF	16" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	34.69	4.34
22 07 19 00-1146	LF	17" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	36.01	4.41
22 07 19 00-1147	LF	18" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	37.41	4.48
22 07 19 00-1148	LF	19" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	38.77	4.56
22 07 19 00-1149	LF	20" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	40.14	4.63
22 07 19 00-1150	LF	21" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	41.50	4.71
22 07 19 00-1151	LF	22" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	42.88	4.80
22 07 19 00-1152	LF	23" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	44.28	4.88
22 07 19 00-1153	LF	24" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	45.69	4.97
22 07 19 00-1154	LF	25" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	47.17	5.06
22 07 19 00-1155	LF	26" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	48.60	5.15
22 07 19 00-1156	LF	27" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	50.06	5.25
22 07 19 00-1157	LF	28" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	51.51	5.36
22 07 19 00-1158	LF	29" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	53.00	5.46
22 07 19 00-1159	LF	30" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	54.50	5.57
22 07 19 00-1160		Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings *(22 07 19 00-1074)*		
22 07 19 00-1161	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.09	4.04
22 07 19 00-1162	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	20.40	4.20
22 07 19 00-1163	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.08	4.26
22 07 19 00-1164	EA	2-1/2"ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.78	4.34
22 07 19 00-1165	EA	2-3/4"ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	22.57	4.45
22 07 19 00-1166	EA	3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	23.28	4.56
22 07 19 00-1167	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.58	4.71
22 07 19 00-1168	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	25.77	4.84
22 07 19 00-1169	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	27.99	4.97
22 07 19 00-1170	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	30.62	5.20
22 07 19 00-1171	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	33.30	5.46
22 07 19 00-1172	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	38.07	5.75
22 07 19 00-1173	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	49.43	6.08
22 07 19 00-1174	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	51.58	6.28
22 07 19 00-1175	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	58.87	6.43
22 07 19 00-1176	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	61.11	6.59
22 07 19 00-1177	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	72.06	6.83
22 07 19 00-1178	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	88.14	7.10

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1179	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	96.25	7.38
22 07 19 00-1180	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	107.25	7.69
22 07 19 00-1181	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	128.69	8.04
22 07 19 00-1182	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	143.46	8.28
22 07 19 00-1183	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	152.72	8.54
22 07 19 00-1184	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	164.11	8.67
22 07 19 00-1185	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	178.85	8.81
22 07 19 00-1186	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	221.06	8.96
22 07 19 00-1187	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	287.90	9.10
22 07 19 00-1188	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	360.23	9.26
22 07 19 00-1189	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.09	4.04
22 07 19 00-1190	EA	2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	20.40	4.20
22 07 19 00-1191	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.08	4.26
22 07 19 00-1192	EA	2-1/2"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.78	4.34
22 07 19 00-1193	EA	2-3/4"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	22.57	4.45
22 07 19 00-1194	EA	3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	23.28	4.56
22 07 19 00-1195	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.58	4.71
22 07 19 00-1196	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	25.77	4.84
22 07 19 00-1197	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	27.99	4.97
22 07 19 00-1198	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	30.62	5.20
22 07 19 00-1199	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	33.30	5.46
22 07 19 00-1200	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	38.07	5.75
22 07 19 00-1201	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	49.43	6.08
22 07 19 00-1202	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	51.58	6.28
22 07 19 00-1203	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	58.87	6.43
22 07 19 00-1204	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	61.11	6.59
22 07 19 00-1205	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	72.06	6.83
22 07 19 00-1206	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	88.14	7.10
22 07 19 00-1207	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	96.20	7.38
22 07 19 00-1208	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	104.30	7.69
22 07 19 00-1209	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	114.20	8.04
22 07 19 00-1210	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	126.86	8.28
22 07 19 00-1211	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	134.75	8.54
22 07 19 00-1212	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	149.57	8.67
22 07 19 00-1213	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	164.62	8.81
22 07 19 00-1214	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	193.92	8.96
22 07 19 00-1215	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	252.07	9.10
22 07 19 00-1216	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	281.29	9.26
22 07 19 00-1217	EA	1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	28.25	5.69
22 07 19 00-1218	EA	2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	29.47	5.81
22 07 19 00-1219	EA	2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	30.77	6.00
22 07 19 00-1220	EA	2-1/2"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	32.21	6.21
22 07 19 00-1221	EA	2-3/4"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	33.84	6.43
22 07 19 00-1222	EA	3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	35.45	6.67
22 07 19 00-1223	EA	3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	37.79	6.92
22 07 19 00-1224	EA	3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	40.25	7.19
22 07 19 00-1225	EA	4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	43.54	7.48
22 07 19 00-1226	EA	4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	48.14	7.81
22 07 19 00-1227	EA	5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	52.96	8.16
22 07 19 00-1228	EA	5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	61.72	8.67
22 07 19 00-1229	EA	6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	71.95	9.10
22 07 19 00-1230	EA	6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	80.99	9.26
22 07 19 00-1231	EA	7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	109.38	9.59
22 07 19 00-1232	EA	7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	118.36	10.12
22 07 19 00-1233	EA	8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	136.78	10.51
22 07 19 00-1234	EA	9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	155.43	10.93
22 07 19 00-1235	EA	10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	158.57	11.39
22 07 19 00-1236	EA	11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	172.09	11.63
22 07 19 00-1237	EA	12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	185.64	11.88
22 07 19 00-1238	EA	14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	199.34	12.14
22 07 19 00-1239	EA	15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	212.94	12.42
22 07 19 00-1240	EA	16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	226.68	12.70
22 07 19 00-1241	EA	17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	240.33	13.01
22 07 19 00-1242	EA	18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	260.57	13.33
22 07 19 00-1243	EA	19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	280.77	13.66
22 07 19 00-1244	EA	20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	305.19	14.01
22 07 19 00-1245	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	38.53	3.90
22 07 19 00-1246	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	38.53	3.90
22 07 19 00-1247	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	45.23	4.04
22 07 19 00-1248	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	45.23	4.04
22 07 19 00-1249	EA	2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	62.61	4.20
22 07 19 00-1250	EA	2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	68.33	4.38
22 07 19 00-1251	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	75.19	4.56
22 07 19 00-1252	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	84.93	4.75
22 07 19 00-1253	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	93.33	4.97
22 07 19 00-1254	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	113.18	5.46
22 07 19 00-1255	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	159.19	6.08
22 07 19 00-1256	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	174.24	6.83
22 07 19 00-1257	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	217.11	7.28
22 07 19 00-1258	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	302.49	8.04
22 07 19 00-1259	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	304.44	8.41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1260	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	402.99	8.67
22 07 19 00-1261	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	542.35	8.96
22 07 19 00-1262	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	36.00	3.90
22 07 19 00-1263	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	36.00	3.90
22 07 19 00-1264	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	42.17	4.04
22 07 19 00-1265	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	42.17	4.04
22 07 19 00-1266	EA	2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	57.61	4.20
22 07 19 00-1267	EA	2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	62.75	4.38
22 07 19 00-1268	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	69.07	4.56
22 07 19 00-1269	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	72.66	4.75
22 07 19 00-1270	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	85.21	4.97
22 07 19 00-1271	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	103.12	5.46
22 07 19 00-1272	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	144.39	6.08
22 07 19 00-1273	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	158.01	6.83
22 07 19 00-1274	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	196.45	7.28
22 07 19 00-1275	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	272.92	8.04
22 07 19 00-1276	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	346.81	8.41
22 07 19 00-1277	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	414.11	8.67
22 07 19 00-1278	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	483.65	8.96
22 07 19 00-1279	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	53.39	5.87
22 07 19 00-1280	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	53.39	5.87
22 07 19 00-1281	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	62.02	6.08
22 07 19 00-1282	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	62.02	6.08
22 07 19 00-1283	EA	2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	84.62	6.28
22 07 19 00-1284	EA	2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	92.21	6.51
22 07 19 00-1285	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	101.36	6.83
22 07 19 00-1286	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	106.85	7.10
22 07 19 00-1287	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	125.74	7.48
22 07 19 00-1288	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	138.17	8.16
22 07 19 00-1289	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	192.57	9.10
22 07 19 00-1290	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	209.73	10.12
22 07 19 00-1291	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	288.12	10.93
22 07 19 00-1292	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	398.85	11.88
22 07 19 00-1293	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	475.20	12.70
22 07 19 00-1294	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	561.09	13.01
22 07 19 00-1295	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	614.11	13.33

22 07 19 00-1296 Insulation Foam Rubber *(22 07 19)*

22 07 19 00-1297 Covering 4x6 Sheet *(22 07 19 00-1296)*

22 07 19 00-1298	SF	1" Thick Foam Rubber Sheet Insulation	27.51	9.70

22 08 Commissioning of Plumbing *(22)*

See CSI section 01 91 13 00-0001 for commissioning.

22 10 Plumbing Piping *(22)*

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution *(22 10)*

22 11 16 Domestic Water Piping *(22 11)*

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies *(22 11 16)*

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Includes cutting and threading to length where necessary. Not for use where detail is available.

22 11 16 00-0002	LF	1/2" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	21.03	4.78
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*5.50*	
		For ASTM 120, Deduct	*-0.77*	
		For Work In Restricted Working Space, Add	*4.76*	
22 11 16 00-0003	LF	3/4" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	23.14	5.14
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*6.22*	
		For ASTM 120, Deduct	*-0.95*	
		For Work In Restricted Working Space, Add	*5.04*	
22 11 16 00-0004	LF	1" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	26.37	5.63
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*7.38*	
		For ASTM 120, Deduct	*-1.26*	
		For Work In Restricted Working Space, Add	*5.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0005	LF	1-1/4" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	31.01	5.86
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*9.19*	
		For ASTM 120, Deduct	*-1.79*	
		For Work In Restricted Working Space, Add	*5.72*	
22 11 16 00-0006	LF	1-1/2" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	33.42	6.94
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*10.07*	
		For ASTM 120, Deduct	*-2.03*	
		For Work In Restricted Working Space, Add	*5.96*	
22 11 16 00-0007	LF	2" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	40.34	8.37
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*12.50*	
		For ASTM 120, Deduct	*-2.66*	
		For Work In Restricted Working Space, Add	*6.79*	
22 11 16 00-0008	LF	2-1/2" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	57.21	9.93
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*19.12*	
		For ASTM 120, Deduct	*-4.61*	
		For Work In Restricted Working Space, Add	*7.95*	
22 11 16 00-0009	LF	3" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	71.14	13.28
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*23.98*	
		For ASTM 120, Deduct	*-5.85*	
		For Work In Restricted Working Space, Add	*9.64*	
22 11 16 00-0010	LF	4" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	102.63	15.02
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*37.41*	
		For ASTM 120, Deduct	*-10.13*	
		For Work In Restricted Working Space, Add	*10.53*	
22 11 16 00-0011	LF	5" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	180.59	19.20
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*70.67*	
		For ASTM 120, Deduct	*-20.73*	
		For Work In Restricted Working Space, Add	*12.72*	
22 11 16 00-0012	LF	6" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	201.85	22.71
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	*78.79*	
		For ASTM 120, Deduct	*-23.05*	
		For Work In Restricted Working Space, Add	*14.45*	

22 11 16 00-0013 Galvanized Steel Pipe And Threaded Fittings *(22 11 16)*

Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.

22 11 16 00-0014 Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe *(22 11 16 00-0013)*

Note: ASTM A-53. Welded pipe has a weld bead on the inside. Includes coupling. Includes cutting and threading to length where necessary.

22 11 16 00-0015	LF	1/2" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	10.31	4.78
		For Schedule 80 Pipe, Add	*2.19*	
		For ASTM 120, Deduct	*-0.46*	
		For Work In Restricted Working Space, Add	*2.18*	
22 11 16 00-0016	LF	3/4" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	11.77	5.14
		For Schedule 80 Pipe, Add	*2.72*	
		For ASTM 120, Deduct	*-0.61*	
		For Work In Restricted Working Space, Add	*2.32*	
22 11 16 00-0017	LF	1" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	14.37	5.63
		For Schedule 80 Pipe, Add	*3.72*	
		For ASTM 120, Deduct	*-0.90*	
		For Work In Restricted Working Space, Add	*2.51*	
22 11 16 00-0018	LF	1-1/4" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	16.99	5.86
		For Schedule 80 Pipe, Add	*4.79*	
		For ASTM 120, Deduct	*-1.22*	
		For Work In Restricted Working Space, Add	*2.66*	
22 11 16 00-0019	LF	1-1/2" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	20.13	6.94
		For Schedule 80 Pipe, Add	*5.71*	
		For ASTM 120, Deduct	*-1.46*	
		For Work In Restricted Working Space, Add	*3.12*	
22 11 16 00-0020	LF	2" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	25.65	8.37
		For Schedule 80 Pipe, Add	*7.53*	
		For ASTM 120, Deduct	*-1.96*	
		For Work In Restricted Working Space, Add	*3.78*	
22 11 16 00-0021	LF	2-1/2" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	35.67	9.93
		For Schedule 80 Pipe, Add	*11.44*	
		For ASTM 120, Deduct	*-3.11*	
		For Work In Restricted Working Space, Add	*4.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0022	LF	3" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	47.05	13.28
		For Schedule 80 Pipe, Add	*15.01*	
		For ASTM 120, Deduct	*-4.07*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0023	LF	4" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	61.20	15.02
		For Schedule 80 Pipe, Add	*20.79*	
		For ASTM 120, Deduct	*-5.79*	
		For Work In Restricted Working Space, Add	*6.78*	
22 11 16 00-0024	LF	5" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	80.52	19.20
		For Schedule 80 Pipe, Add	*27.72*	
		For ASTM 120, Deduct	*-7.77*	
		For Work In Restricted Working Space, Add	*8.63*	
22 11 16 00-0025	LF	6" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	101.16	22.71
		For Schedule 80 Pipe, Add	*35.63*	
		For ASTM 120, Deduct	*-10.07*	
		For Work In Restricted Working Space, Add	*10.20*	
22 11 16 00-0026	LF	8" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	113.62	27.45
		For Schedule 80 Pipe, Add	*38.93*	
		For ASTM 120, Deduct	*-10.88*	
		For Work In Restricted Working Space, Add	*12.32*	

22 11 16 00-0027 Seamless, Threaded And Coupled, Galvanized Steel Pipe *(22 11 16 00-0013)*

Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.

22 11 16 00-0028	LF	1/2" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	14.46	4.78
		For Schedule 80 Pipe, Add	*4.19*	
		For ASTM 120, Deduct	*-1.08*	
		For Work In Restricted Working Space, Add	*2.18*	
22 11 16 00-0029	LF	3/4" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	16.36	5.14
		For Schedule 80 Pipe, Add	*4.92*	
		For ASTM 120, Deduct	*-1.30*	
		For Work In Restricted Working Space, Add	*2.32*	
22 11 16 00-0030	LF	1" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	18.41	5.63
		For Schedule 80 Pipe, Add	*5.66*	
		For ASTM 120, Deduct	*-1.51*	
		For Work In Restricted Working Space, Add	*2.51*	
22 11 16 00-0031	LF	1-1/4" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	21.49	5.86
		For Schedule 80 Pipe, Add	*6.95*	
		For ASTM 120, Deduct	*-1.89*	
		For Work In Restricted Working Space, Add	*2.66*	
22 11 16 00-0032	LF	1-1/2" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	24.83	6.94
		For Schedule 80 Pipe, Add	*7.96*	
		For ASTM 120, Deduct	*-2.16*	
		For Work In Restricted Working Space, Add	*3.12*	
22 11 16 00-0033	LF	2" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	29.02	8.37
		For Schedule 80 Pipe, Add	*9.15*	
		For ASTM 120, Deduct	*-2.46*	
		For Work In Restricted Working Space, Add	*3.78*	
22 11 16 00-0034	LF	2-1/2" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	42.45	9.93
		For Schedule 80 Pipe, Add	*14.69*	
		For ASTM 120, Deduct	*-4.12*	
		For Work In Restricted Working Space, Add	*4.49*	
22 11 16 00-0035	LF	3" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	53.55	13.28
		For Schedule 80 Pipe, Add	*18.13*	
		For ASTM 120, Deduct	*-5.04*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0036	LF	4" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	70.66	15.02
		For Schedule 80 Pipe, Add	*25.33*	
		For ASTM 120, Deduct	*-7.21*	
		For Work In Restricted Working Space, Add	*6.78*	
22 11 16 00-0037	LF	5" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	91.48	19.20
		For Schedule 80 Pipe, Add	*32.99*	
		For ASTM 120, Deduct	*-9.41*	
		For Work In Restricted Working Space, Add	*8.63*	
22 11 16 00-0038	LF	6" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	114.25	22.71
		For Schedule 80 Pipe, Add	*41.92*	
		For ASTM 120, Deduct	*-12.04*	
		For Work In Restricted Working Space, Add	*10.20*	

22 11 16 00-0039 Galvanized Malleable Iron 90 Degree Elbows *(22 11 16 00-0013)*

22 11 16 00-0040	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	35.71	21.30
		For 300 Lb. Rating, Add	*14.83*	
		For ASTM 120, Deduct	*-0.57*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0041	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	40.37	23.81
		For 300 Lb. Rating, Add	*17.99*	
		For ASTM 120, Deduct	*-0.70*	
		For Work In Restricted Working Space, Add	*10.71*	
22 11 16 00-0042	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	48.52	26.56
		For 300 Lb. Rating, Add	*31.77*	
		For ASTM 120, Deduct	*-1.30*	
		For Work In Restricted Working Space, Add	*11.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0043	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	58.79	30.15
		For 300 Lb. Rating, Add	*49.12*	
		For ASTM 120, Deduct	*-2.05*	
		For Work In Restricted Working Space, Add	*13.54*	
22 11 16 00-0044	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	68.73	33.98
		For 300 Lb. Rating, Add	*63.64*	
		For ASTM 120, Deduct	*-2.67*	
		For Work In Restricted Working Space, Add	*15.27*	
22 11 16 00-0045	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	93.86	43.19
		For 300 Lb. Rating, Add	*103.13*	
		For ASTM 120, Deduct	*-4.38*	
		For Work In Restricted Working Space, Add	*19.40*	
22 11 16 00-0046	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	172.09	63.89
		For 300 Lb. Rating, Add	*265.43*	
		For ASTM 120, Deduct	*-11.46*	
		For Work In Restricted Working Space, Add	*28.71*	
22 11 16 00-0047	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	251.86	83.99
		For 300 Lb. Rating, Add	*435.68*	
		For ASTM 120, Deduct	*-18.89*	
		For Work In Restricted Working Space, Add	*37.78*	
22 11 16 00-0048	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	353.90	87.89
		For 300 Lb. Rating, Add	*763.05*	
		For ASTM 120, Deduct	*-33.32*	
		For Work In Restricted Working Space, Add	*39.54*	
22 11 16 00-0049	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	1,096.65	91.73
		For 300 Lb. Rating, Add	*3,269.26*	
		For ASTM 120, Deduct	*-143.87*	
		For Work In Restricted Working Space, Add	*41.26*	
22 11 16 00-0050	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	1,027.98	95.91
		For 300 Lb. Rating, Add	*3,014.91*	
		For ASTM 120, Deduct	*-132.63*	
		For Work In Restricted Working Space, Add	*43.13*	
22 11 16 00-0051	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	1,216.98	100.22
		For 300 Lb. Rating, Add	*3,635.90*	
		For ASTM 120, Deduct	*-160.01*	
		For Work In Restricted Working Space, Add	*45.08*	

22 11 16 00-0052 Galvanized Malleable Iron Reducing 90 Degree Elbows *(22 11 16 00-0013)*

22 11 16 00-0053	EA	3/4" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	41.92	22.50
		For ASTM 120, Deduct	*-1.22*	
		For Work In Restricted Working Space, Add	*10.14*	
22 11 16 00-0054	EA	1" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	48.21	25.24
		For ASTM 120, Deduct	*-1.56*	
		For Work In Restricted Working Space, Add	*11.34*	
22 11 16 00-0055	EA	1" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	46.93	23.93
		For ASTM 120, Deduct	*-1.66*	
		For Work In Restricted Working Space, Add	*10.77*	
22 11 16 00-0056	EA	1-1/4" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	59.97	28.35
		For ASTM 120, Deduct	*-2.62*	
		For Work In Restricted Working Space, Add	*12.75*	
22 11 16 00-0057	EA	1-1/4" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	61.39	26.92
		For ASTM 120, Deduct	*-3.15*	
		For Work In Restricted Working Space, Add	*12.13*	
22 11 16 00-0058	EA	1-1/4" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	60.74	25.73
		For ASTM 120, Deduct	*-3.33*	
		For Work In Restricted Working Space, Add	*11.56*	
22 11 16 00-0059	EA	1-1/2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	75.92	32.07
		For ASTM 120, Deduct	*-4.19*	
		For Work In Restricted Working Space, Add	*14.41*	
22 11 16 00-0060	EA	1-1/2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	73.30	30.27
		For ASTM 120, Deduct	*-4.19*	
		For Work In Restricted Working Space, Add	*13.62*	
22 11 16 00-0061	EA	1-1/2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	71.21	28.84
		For ASTM 120, Deduct	*-4.19*	
		For Work In Restricted Working Space, Add	*12.99*	
22 11 16 00-0062	EA	2" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	90.38	38.52
		For ASTM 120, Deduct	*-4.89*	
		For Work In Restricted Working Space, Add	*17.34*	
22 11 16 00-0063	EA	2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	92.27	36.61
		For ASTM 120, Deduct	*-5.60*	
		For Work In Restricted Working Space, Add	*16.47*	
22 11 16 00-0064	EA	2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	91.04	34.82
		For ASTM 120, Deduct	*-5.82*	
		For Work In Restricted Working Space, Add	*15.68*	
22 11 16 00-0065	EA	2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	79.60	33.50
		For ASTM 120, Deduct	*-4.41*	
		For Work In Restricted Working Space, Add	*15.06*	
22 11 16 00-0066	EA	2-1/2" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	190.67	53.48
		For ASTM 120, Deduct	*-16.57*	
		For Work In Restricted Working Space, Add	*24.06*	
22 11 16 00-0067	EA	2-1/2" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	196.40	48.94
		For ASTM 120, Deduct	*-18.46*	
		For Work In Restricted Working Space, Add	*22.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0068	EA	3" x 2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	311.61	73.94
		For ASTM 120, Deduct	*-30.12*	
		For Work In Restricted Working Space, Add	*33.25*	
22 11 16 00-0069	EA	3" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	269.70	63.53
		For ASTM 120, Deduct	*-26.16*	
		For Work In Restricted Working Space, Add	*28.59*	
22 11 16 00-0070	EA	4" x 3" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	579.71	83.60
		For ASTM 120, Deduct	*-68.15*	
		For Work In Restricted Working Space, Add	*37.61*	

22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow *(22 11 16 00-0013)*

22 11 16 00-0072	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	36.64	21.30
		For 300 Lb. Rating, Add	*18.00*	
		For ASTM 120, Deduct	*-0.71*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0073	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	42.51	23.81
		For 300 Lb. Rating, Add	*25.26*	
		For ASTM 120, Deduct	*-1.02*	
		For Work In Restricted Working Space, Add	*10.71*	
22 11 16 00-0074	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	47.56	26.56
		For 300 Lb. Rating, Add	*28.50*	
		For ASTM 120, Deduct	*-1.15*	
		For Work In Restricted Working Space, Add	*11.96*	
22 11 16 00-0075	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	59.49	30.15
		For 300 Lb. Rating, Add	*51.50*	
		For ASTM 120, Deduct	*-2.15*	
		For Work In Restricted Working Space, Add	*13.54*	
22 11 16 00-0076	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	67.76	33.98
		For 300 Lb. Rating, Add	*60.34*	
		For ASTM 120, Deduct	*-2.53*	
		For Work In Restricted Working Space, Add	*15.27*	
22 11 16 00-0077	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	89.61	43.19
		For 300 Lb. Rating, Add	*88.68*	
		For ASTM 120, Deduct	*-3.74*	
		For Work In Restricted Working Space, Add	*19.40*	
22 11 16 00-0078	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	182.48	63.89
		For 300 Lb. Rating, Add	*300.76*	
		For ASTM 120, Deduct	*-13.02*	
		For Work In Restricted Working Space, Add	*28.71*	
22 11 16 00-0079	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	252.14	83.99
		For 300 Lb. Rating, Add	*436.64*	
		For ASTM 120, Deduct	*-18.93*	
		For Work In Restricted Working Space, Add	*37.78*	
22 11 16 00-0080	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	343.37	87.89
		For 300 Lb. Rating, Add	*727.25*	
		For ASTM 120, Deduct	*-31.74*	
		For Work In Restricted Working Space, Add	*39.54*	
22 11 16 00-0081	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	992.45	91.73
		For 300 Lb. Rating, Add	*2,914.98*	
		For ASTM 120, Deduct	*-128.24*	
		For Work In Restricted Working Space, Add	*41.26*	
22 11 16 00-0082	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	1,174.61	95.91
		For 300 Lb. Rating, Add	*3,513.45*	
		For ASTM 120, Deduct	*-154.62*	
		For Work In Restricted Working Space, Add	*43.13*	
22 11 16 00-0083	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	1,392.10	100.22
		For 300 Lb. Rating, Add	*4,231.31*	
		For ASTM 120, Deduct	*-186.28*	
		For Work In Restricted Working Space, Add	*45.08*	

22 11 16 00-0084 Galvanized Malleable Iron Tees *(22 11 16 00-0013)*

22 11 16 00-0085	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Tee	44.80	26.56
		For 300 Lb. Rating, Add	*19.12*	
		For ASTM 120, Deduct	*-0.74*	
		For Work In Restricted Working Space, Add	*11.96*	
22 11 16 00-0086	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Tee	54.13	30.75
		For 300 Lb. Rating, Add	*30.34*	
		For ASTM 120, Deduct	*-1.22*	
		For Work In Restricted Working Space, Add	*13.81*	
22 11 16 00-0087	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Tee	67.50	36.26
		For 300 Lb. Rating, Add	*47.87*	
		For ASTM 120, Deduct	*-1.97*	
		For Work In Restricted Working Space, Add	*16.31*	
22 11 16 00-0088	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Tee	85.49	43.19
		For 300 Lb. Rating, Add	*74.67*	
		For ASTM 120, Deduct	*-3.12*	
		For Work In Restricted Working Space, Add	*19.40*	
22 11 16 00-0089	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Tee	103.07	51.45
		For 300 Lb. Rating, Add	*92.62*	
		For ASTM 120, Deduct	*-3.88*	
		For Work In Restricted Working Space, Add	*23.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0090	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Tee	137.77	63.89
		For 300 Lb. Rating, Add	*148.75*	
		For ASTM 120, Deduct	*-6.31*	
		For Work In Restricted Working Space, Add	*28.71*	
22 11 16 00-0091	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Tee	222.46	69.39
		For 300 Lb. Rating, Add	*408.87*	
		For ASTM 120, Deduct	*-17.76*	
		For Work In Restricted Working Space, Add	*31.21*	
22 11 16 00-0092	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Tee	264.81	83.99
		For 300 Lb. Rating, Add	*479.71*	
		For ASTM 120, Deduct	*-20.83*	
		For Work In Restricted Working Space, Add	*37.78*	
22 11 16 00-0093	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Tee	494.99	111.05
		For 300 Lb. Rating, Add	*1,126.92*	
		For ASTM 120, Deduct	*-49.28*	
		For Work In Restricted Working Space, Add	*49.94*	
22 11 16 00-0094	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Tee	1,230.33	131.84
		For 300 Lb. Rating, Add	*3,522.80*	
		For ASTM 120, Deduct	*-154.89*	
		For Work In Restricted Working Space, Add	*59.31*	
22 11 16 00-0095	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Tee	1,397.18	150.70
		For 300 Lb. Rating, Add	*3,995.77*	
		For ASTM 120, Deduct	*-175.69*	
		For Work In Restricted Working Space, Add	*67.78*	
22 11 16 00-0096	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron Tee	1,662.78	178.94
		For 300 Lb. Rating, Add	*4,747.88*	
		For ASTM 120, Deduct	*-208.75*	
		For Work In Restricted Working Space, Add	*81.34*	

22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee *(22 11 16 00-0013)*

22 11 16 00-0098	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	51.32	26.56
		For 300 Lb. Rating, Add	*41.29*	
		For ASTM 120, Deduct	*-1.72*	
		For Work In Restricted Working Space, Add	*11.96*	
22 11 16 00-0099	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	57.30	30.75
		For 300 Lb. Rating, Add	*41.11*	
		For ASTM 120, Deduct	*-1.69*	
		For Work In Restricted Working Space, Add	*13.81*	
22 11 16 00-0100	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	70.23	36.26
		For 300 Lb. Rating, Add	*57.15*	
		For ASTM 120, Deduct	*-2.38*	
		For Work In Restricted Working Space, Add	*16.31*	
22 11 16 00-0101	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	89.24	43.19
		For 300 Lb. Rating, Add	*87.42*	
		For ASTM 120, Deduct	*-3.69*	
		For Work In Restricted Working Space, Add	*19.40*	
22 11 16 00-0102	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	107.54	51.45
		For 300 Lb. Rating, Add	*107.82*	
		For ASTM 120, Deduct	*-4.55*	
		For Work In Restricted Working Space, Add	*23.16*	
22 11 16 00-0103	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	140.02	63.89
		For 300 Lb. Rating, Add	*156.40*	
		For ASTM 120, Deduct	*-6.65*	
		For Work In Restricted Working Space, Add	*28.71*	
22 11 16 00-0104	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	260.88	69.63
		For 300 Lb. Rating, Add	*538.40*	
		For ASTM 120, Deduct	*-23.48*	
		For Work In Restricted Working Space, Add	*31.31*	
22 11 16 00-0105	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	330.91	85.31
		For 300 Lb. Rating, Add	*697.81*	
		For ASTM 120, Deduct	*-30.45*	
		For Work In Restricted Working Space, Add	*38.38*	
22 11 16 00-0106	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	754.89	111.05
		For 300 Lb. Rating, Add	*2,010.58*	
		For ASTM 120, Deduct	*-88.26*	
		For Work In Restricted Working Space, Add	*49.94*	
22 11 16 00-0107	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	1,562.11	131.84
		For 300 Lb. Rating, Add	*4,650.86*	
		For ASTM 120, Deduct	*-204.66*	
		For Work In Restricted Working Space, Add	*59.31*	
22 11 16 00-0108	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	1,773.96	150.70
		For 300 Lb. Rating, Add	*5,276.82*	
		For ASTM 120, Deduct	*-232.20*	
		For Work In Restricted Working Space, Add	*67.78*	
22 11 16 00-0109	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	2,126.34	173.05
		For 300 Lb. Rating, Add	*6,361.72*	
		For ASTM 120, Deduct	*-279.98*	
		For Work In Restricted Working Space, Add	*77.95*	

22 11 16 00-0110 Galvanized Malleable Iron Couplings *(22 11 16 00-0013)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0111	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	41.15	21.30
		For 300 Lb. Rating, Add	*33.33*	
		For ASTM 120, Deduct	*-1.39*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0112	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	46.36	23.81
		For 300 Lb. Rating, Add	*38.35*	
		For ASTM 120, Deduct	*-1.60*	
		For Work In Restricted Working Space, Add	*10.71*	
22 11 16 00-0113	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	57.33	26.56
		For 300 Lb. Rating, Add	*61.72*	
		For ASTM 120, Deduct	*-2.62*	
		For Work In Restricted Working Space, Add	*11.96*	
22 11 16 00-0114	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	69.76	30.15
		For 300 Lb. Rating, Add	*86.42*	
		For ASTM 120, Deduct	*-3.69*	
		For Work In Restricted Working Space, Add	*13.54*	
22 11 16 00-0115	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	78.89	33.98
		For 300 Lb. Rating, Add	*98.19*	
		For ASTM 120, Deduct	*-4.20*	
		For Work In Restricted Working Space, Add	*15.27*	
22 11 16 00-0116	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	105.58	43.19
		For 300 Lb. Rating, Add	*142.97*	
		For ASTM 120, Deduct	*-6.14*	
		For Work In Restricted Working Space, Add	*19.40*	
22 11 16 00-0117	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	220.94	63.89
		For 300 Lb. Rating, Add	*431.52*	
		For ASTM 120, Deduct	*-18.78*	
		For Work In Restricted Working Space, Add	*28.71*	
22 11 16 00-0118	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	293.32	83.99
		For 300 Lb. Rating, Add	*576.65*	
		For ASTM 120, Deduct	*-25.11*	
		For Work In Restricted Working Space, Add	*37.78*	
22 11 16 00-0119	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	487.28	87.89
		For 300 Lb. Rating, Add	*1,216.54*	
		For ASTM 120, Deduct	*-53.32*	
		For Work In Restricted Working Space, Add	*39.54*	
22 11 16 00-0120	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	1,138.47	91.73
		For 300 Lb. Rating, Add	*3,411.45*	
		For ASTM 120, Deduct	*-150.14*	
		For Work In Restricted Working Space, Add	*41.26*	
22 11 16 00-0121	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	1,284.12	95.91
		For 300 Lb. Rating, Add	*3,885.78*	
		For ASTM 120, Deduct	*-171.05*	
		For Work In Restricted Working Space, Add	*43.13*	
22 11 16 00-0122	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	1,524.60	100.22
		For 300 Lb. Rating, Add	*4,681.81*	
		For ASTM 120, Deduct	*-206.15*	
		For Work In Restricted Working Space, Add	*45.08*	

22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings *(22 11 16 00-0013)*

22 11 16 00-0124	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	43.12	21.30
		For 300 Lb. Rating, Add	*40.03*	
		For ASTM 120, Deduct	*-1.68*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0125	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	47.70	23.81
		For 300 Lb. Rating, Add	*42.91*	
		For ASTM 120, Deduct	*-1.80*	
		For Work In Restricted Working Space, Add	*10.71*	
22 11 16 00-0126	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	59.86	26.56
		For 300 Lb. Rating, Add	*70.32*	
		For ASTM 120, Deduct	*-3.00*	
		For Work In Restricted Working Space, Add	*11.96*	
22 11 16 00-0127	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	70.97	30.15
		For 300 Lb. Rating, Add	*90.53*	
		For ASTM 120, Deduct	*-3.87*	
		For Work In Restricted Working Space, Add	*13.54*	
22 11 16 00-0128	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	84.23	33.98
		For 300 Lb. Rating, Add	*116.34*	
		For ASTM 120, Deduct	*-5.00*	
		For Work In Restricted Working Space, Add	*15.27*	
22 11 16 00-0129	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	110.12	43.19
		For 300 Lb. Rating, Add	*158.41*	
		For ASTM 120, Deduct	*-6.82*	
		For Work In Restricted Working Space, Add	*19.40*	
22 11 16 00-0130	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	222.53	63.89
		For 300 Lb. Rating, Add	*436.93*	
		For ASTM 120, Deduct	*-19.02*	
		For Work In Restricted Working Space, Add	*28.71*	
22 11 16 00-0131	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	288.57	83.99
		For 300 Lb. Rating, Add	*560.50*	
		For ASTM 120, Deduct	*-24.39*	
		For Work In Restricted Working Space, Add	*37.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0132	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	496.43	87.89
		For 300 Lb. Rating, Add	*1,247.65*	
		For ASTM 120, Deduct	*-54.69*	
		For Work In Restricted Working Space, Add	*39.54*	
22 11 16 00-0133	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	1,191.16	91.73
		For 300 Lb. Rating, Add	*3,590.59*	
		For ASTM 120, Deduct	*-158.04*	
		For Work In Restricted Working Space, Add	*41.26*	
22 11 16 00-0134	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	1,344.14	95.91
		For 300 Lb. Rating, Add	*4,089.85*	
		For ASTM 120, Deduct	*-180.05*	
		For Work In Restricted Working Space, Add	*43.13*	
22 11 16 00-0135	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling	1,597.47	100.22
		For 300 Lb. Rating, Add	*4,929.56*	
		For ASTM 120, Deduct	*-217.08*	
		For Work In Restricted Working Space, Add	*45.08*	

22 11 16 00-0136 Galvanized Malleable Iron Caps *(22 11 16 00-0013)*

22 11 16 00-0137	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Cap	17.05	9.93
		For 300 Lb. Rating, Add	*8.00*	
		For ASTM 120, Deduct	*-0.31*	
		For Work In Restricted Working Space, Add	*4.49*	
22 11 16 00-0138	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Cap	18.84	10.65
		For 300 Lb. Rating, Add	*10.78*	
		For ASTM 120, Deduct	*-0.43*	
		For Work In Restricted Working Space, Add	*4.79*	
22 11 16 00-0139	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Cap	22.00	12.32
		For 300 Lb. Rating, Add	*13.31*	
		For ASTM 120, Deduct	*-0.54*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0140	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Cap	24.02	12.92
		For 300 Lb. Rating, Add	*17.21*	
		For ASTM 120, Deduct	*-0.71*	
		For Work In Restricted Working Space, Add	*5.79*	
22 11 16 00-0141	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Cap	23.72	12.92
		For 300 Lb. Rating, Add	*16.19*	
		For ASTM 120, Deduct	*-0.66*	
		For Work In Restricted Working Space, Add	*5.79*	
22 11 16 00-0142	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Cap	35.19	17.11
		For 300 Lb. Rating, Add	*33.71*	
		For ASTM 120, Deduct	*-1.42*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0143	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Cap	53.14	21.30
		For 300 Lb. Rating, Add	*74.10*	
		For ASTM 120, Deduct	*-3.18*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0144	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Cap	68.82	25.73
		For 300 Lb. Rating, Add	*105.10*	
		For ASTM 120, Deduct	*-4.53*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0145	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Cap	101.70	30.16
		For 300 Lb. Rating, Add	*194.85*	
		For ASTM 120, Deduct	*-8.48*	
		For Work In Restricted Working Space, Add	*13.56*	
22 11 16 00-0146	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Cap	244.09	37.73
		For 300 Lb. Rating, Add	*641.26*	
		For ASTM 120, Deduct	*-28.14*	
		For Work In Restricted Working Space, Add	*16.94*	
22 11 16 00-0147	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Cap	303.74	44.85
		For 300 Lb. Rating, Add	*807.93*	
		For ASTM 120, Deduct	*-35.47*	
		For Work In Restricted Working Space, Add	*20.19*	
22 11 16 00-0148	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron Cap	381.55	50.11
		For 300 Lb. Rating, Add	*1,046.34*	
		For ASTM 120, Deduct	*-45.96*	
		For Work In Restricted Working Space, Add	*22.54*	

22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions *(22 11 16 00-0013)*

22 11 16 00-0150	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Union	53.72	26.56
		For Work In Restricted Working Space, Add	*11.96*	
22 11 16 00-0151	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Union	61.92	30.75
		For Work In Restricted Working Space, Add	*13.81*	
22 11 16 00-0152	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Union	75.20	36.26
		For Work In Restricted Working Space, Add	*16.31*	
22 11 16 00-0153	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Union	94.77	43.19
		For Work In Restricted Working Space, Add	*19.40*	
22 11 16 00-0154	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Union	113.66	51.45
		For Work In Restricted Working Space, Add	*23.16*	
22 11 16 00-0155	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Union	137.64	63.89
		For Work In Restricted Working Space, Add	*28.71*	
22 11 16 00-0156	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Union	286.95	94.16
		For Work In Restricted Working Space, Add	*42.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0157	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Union	389.77	123.84
		For Work In Restricted Working Space, Add	*55.77*	
22 11 16 00-0158	EA	1/2" Diameter, 250 Lb., Galvanized Malleable Iron Union	68.02	26.56
		For Work In Restricted Working Space, Add	*11.96*	
22 11 16 00-0159	EA	3/4" Diameter, 250 Lb., Galvanized Malleable Iron Union	71.58	30.75
		For Work In Restricted Working Space, Add	*13.81*	
22 11 16 00-0160	EA	1" Diameter, 250 Lb., Galvanized Malleable Iron Union	86.07	36.26
		For Work In Restricted Working Space, Add	*16.31*	
22 11 16 00-0161	EA	1-1/4" Diameter, 250 Lb., Galvanized Malleable Iron Union	112.67	43.19
		For Work In Restricted Working Space, Add	*19.40*	
22 11 16 00-0162	EA	1-1/2" Diameter, 250 Lb., Galvanized Malleable Iron Union	132.45	51.45
		For Work In Restricted Working Space, Add	*23.16*	
22 11 16 00-0163	EA	2" Diameter, 250 Lb., Galvanized Malleable Iron Union	173.75	63.89
		For Work In Restricted Working Space, Add	*28.71*	
22 11 16 00-0164	EA	2-1/2" Diameter, 250 Lb., Galvanized Malleable Iron Union	346.58	94.16
		For Work In Restricted Working Space, Add	*42.39*	
22 11 16 00-0165	EA	3" Diameter, 250 Lb., Galvanized Malleable Iron Union	500.87	123.84
		For Work In Restricted Working Space, Add	*55.77*	
22 11 16 00-0166	EA	4" Diameter, 250 Lb., Galvanized Malleable Iron Union	688.63	129.68
		For Work In Restricted Working Space, Add	*58.37*	
22 11 16 00-0167	EA	1/2" Diameter, 300 Lb., Galvanized Malleable Iron Union	71.94	26.56
		For Work In Restricted Working Space, Add	*11.96*	
22 11 16 00-0168	EA	3/4" Diameter, 300 Lb., Galvanized Malleable Iron Union	80.79	30.75
		For Work In Restricted Working Space, Add	*13.81*	
22 11 16 00-0169	EA	1" Diameter, 300 Lb., Galvanized Malleable Iron Union	100.49	36.26
		For Work In Restricted Working Space, Add	*16.31*	
22 11 16 00-0170	EA	1-1/4" Diameter, 300 Lb., Galvanized Malleable Iron Union	128.98	43.19
		For Work In Restricted Working Space, Add	*19.40*	
22 11 16 00-0171	EA	1-1/2" Diameter, 300 Lb., Galvanized Malleable Iron Union	154.62	51.45
		For Work In Restricted Working Space, Add	*23.16*	
22 11 16 00-0172	EA	2" Diameter, 300 Lb., Galvanized Malleable Iron Union	188.65	63.89
		For Work In Restricted Working Space, Add	*28.71*	
22 11 16 00-0173	EA	2-1/2" Diameter, 300 Lb., Galvanized Malleable Iron Union	400.55	94.16
		For Work In Restricted Working Space, Add	*42.39*	
22 11 16 00-0174	EA	3" Diameter, 300 Lb., Galvanized Malleable Iron Union	624.37	123.84
		For Work In Restricted Working Space, Add	*55.77*	
22 11 16 00-0175	EA	4" Diameter, 300 Lb., Galvanized Malleable Iron Union	1,294.24	129.68
		For Work In Restricted Working Space, Add	*58.37*	

22 11 16 00-0176 Galvanized Steel Nipples *(22 11 16 00-0013)*

Note: ASTM A-53.

22 11 16 00-0177	EA	3/8" Diameter x Close, Schedule 40 Galvanized Steel Nipple	18.93	11.36
		For Schedule 80 Nipples, Add	*2.10*	
		For ASTM 120, Deduct	*-0.28*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0178	EA	1/2" Diameter x Close, Schedule 40 Galvanized Steel Nipple	18.58	11.36
		For Schedule 80 Nipples, Add	*1.70*	
		For ASTM 120, Deduct	*-0.22*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0179	EA	3/4" Diameter x Close, Schedule 40 Galvanized Steel Nipple	18.90	11.36
		For Schedule 80 Nipples, Add	*2.06*	
		For ASTM 120, Deduct	*-0.27*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0180	EA	1" Diameter x Close, Schedule 40 Galvanized Steel Nipple	20.90	12.32
		For Schedule 80 Nipples, Add	*2.84*	
		For ASTM 120, Deduct	*-0.37*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0181	EA	1-1/4" Diameter x Close, Schedule 40 Galvanized Steel Nipple	23.28	13.28
		For Schedule 80 Nipples, Add	*3.81*	
		For ASTM 120, Deduct	*-0.50*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0182	EA	1-1/2" Diameter x Close, Schedule 40 Galvanized Steel Nipple	23.85	13.28
		For Schedule 80 Nipples, Add	*4.46*	
		For ASTM 120, Deduct	*-0.59*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0183	EA	2" Diameter x Close, Schedule 40 Galvanized Steel Nipple	31.25	17.11
		For Schedule 80 Nipples, Add	*6.29*	
		For ASTM 120, Deduct	*-0.83*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0184	EA	2-1/2" Diameter x Close, Schedule 40 Galvanized Steel Nipple	48.33	21.30
		For Schedule 80 Nipples, Add	*18.72*	
		For ASTM 120, Deduct	*-2.46*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0185	EA	3" Diameter x Close, Schedule 40 Galvanized Steel Nipple	58.27	25.73
		For Schedule 80 Nipples, Add	*22.44*	
		For ASTM 120, Deduct	*-2.95*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0186	EA	4" Diameter x Close, Schedule 40 Galvanized Steel Nipple	74.68	30.16
		For Schedule 80 Nipples, Add	*33.62*	
		For ASTM 120, Deduct	*-4.42*	
		For Work In Restricted Working Space, Add	*13.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0187	EA	3/8" Diameter x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.21	11.36
		For Schedule 80 Nipples, Add	*2.42*	
		For ASTM 120, Deduct	*-0.32*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0188	EA	1/2" Diameter x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	18.66	11.36
		For Schedule 80 Nipples, Add	*1.79*	
		For ASTM 120, Deduct	*-0.24*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0189	EA	3/4" Diameter x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.06	11.36
		For Schedule 80 Nipples, Add	*2.25*	
		For ASTM 120, Deduct	*-0.30*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0190	EA	3/8"Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	19.21	11.36
		For Schedule 80 Nipples, Add	*2.42*	
		For ASTM 120, Deduct	*-0.32*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0191	EA	1/2" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	18.66	11.36
		For Schedule 80 Nipples, Add	*1.79*	
		For ASTM 120, Deduct	*-0.24*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0192	EA	3/4" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	19.06	11.36
		For Schedule 80 Nipples, Add	*2.25*	
		For ASTM 120, Deduct	*-0.30*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0193	EA	1" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	21.34	12.32
		For Schedule 80 Nipples, Add	*3.34*	
		For ASTM 120, Deduct	*-0.44*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0194	EA	1-1/4" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	23.52	13.28
		For Schedule 80 Nipples, Add	*4.08*	
		For ASTM 120, Deduct	*-0.54*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0195	EA	1-1/2" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	24.14	13.28
		For Schedule 80 Nipples, Add	*4.79*	
		For ASTM 120, Deduct	*-0.63*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0196	EA	3/8" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.91	11.36
		For Schedule 80 Nipples, Add	*3.21*	
		For ASTM 120, Deduct	*-0.42*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0197	EA	1/2" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	18.93	11.36
		For Schedule 80 Nipples, Add	*2.10*	
		For ASTM 120, Deduct	*-0.28*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0198	EA	3/4" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.27	11.36
		For Schedule 80 Nipples, Add	*2.49*	
		For ASTM 120, Deduct	*-0.33*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0199	EA	1" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.59	12.32
		For Schedule 80 Nipples, Add	*3.63*	
		For ASTM 120, Deduct	*-0.48*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0200	EA	1-1/4" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.87	13.28
		For Schedule 80 Nipples, Add	*4.48*	
		For ASTM 120, Deduct	*-0.59*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0201	EA	1-1/2" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.62	13.28
		For Schedule 80 Nipples, Add	*5.34*	
		For ASTM 120, Deduct	*-0.70*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0202	EA	2" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	31.94	17.11
		For Schedule 80 Nipples, Add	*7.08*	
		For ASTM 120, Deduct	*-0.93*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0203	EA	3/8" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple	19.91	11.36
		For Schedule 80 Nipples, Add	*3.21*	
		For ASTM 120, Deduct	*-0.42*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0204	EA	1/2" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple	18.93	11.36
		For Schedule 80 Nipples, Add	*2.10*	
		For ASTM 120, Deduct	*-0.28*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0205	EA	3/4" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple	19.27	11.36
		For Schedule 80 Nipples, Add	*2.49*	
		For ASTM 120, Deduct	*-0.33*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0206	EA	1" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple	21.59	12.32
		For Schedule 80 Nipples, Add	*3.63*	
		For ASTM 120, Deduct	*-0.48*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0207	EA	1-1/4" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple	23.87	13.28
		For Schedule 80 Nipples, Add	*4.48*	
		For ASTM 120, Deduct	*-0.59*	
		For Work In Restricted Working Space, Add	*5.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0208	EA	1-1/2" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple	24.62	13.28
		For Schedule 80 Nipples, Add	*5.34*	
		For ASTM 120, Deduct	*-0.70*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0209	EA	2" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple	31.94	17.11
		For Schedule 80 Nipples, Add	*7.08*	
		For ASTM 120, Deduct	*-0.93*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0210	EA	2-1/2" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple	48.96	21.30
		For Schedule 80 Nipples, Add	*19.44*	
		For ASTM 120, Deduct	*-2.56*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0211	EA	3" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple	60.98	25.73
		For Schedule 80 Nipples, Add	*25.52*	
		For ASTM 120, Deduct	*-3.36*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0212	EA	3/8" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.44	11.36
		For Schedule 80 Nipples, Add	*3.82*	
		For ASTM 120, Deduct	*-0.50*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0213	EA	1/2" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.37	11.36
		For Schedule 80 Nipples, Add	*2.60*	
		For ASTM 120, Deduct	*-0.34*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0214	EA	3/4" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.91	11.36
		For Schedule 80 Nipples, Add	*3.21*	
		For ASTM 120, Deduct	*-0.42*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0215	EA	1" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.23	12.32
		For Schedule 80 Nipples, Add	*4.35*	
		For ASTM 120, Deduct	*-0.57*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0216	EA	1-1/4" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.62	13.28
		For Schedule 80 Nipples, Add	*5.34*	
		For ASTM 120, Deduct	*-0.70*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0217	EA	1-1/2" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	25.86	13.28
		For Schedule 80 Nipples, Add	*6.75*	
		For ASTM 120, Deduct	*-0.89*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0218	EA	2" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	33.27	17.11
		For Schedule 80 Nipples, Add	*8.60*	
		For ASTM 120, Deduct	*-1.13*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0219	EA	2-1/2" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	51.70	21.30
		For Schedule 80 Nipples, Add	*22.56*	
		For ASTM 120, Deduct	*-2.97*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0220	EA	3" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	64.86	25.73
		For Schedule 80 Nipples, Add	*29.95*	
		For ASTM 120, Deduct	*-3.94*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0221	EA	3/8" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	20.44	11.36
		For Schedule 80 Nipples, Add	*3.82*	
		For ASTM 120, Deduct	*-0.50*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0222	EA	1/2" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	19.37	11.36
		For Schedule 80 Nipples, Add	*2.60*	
		For ASTM 120, Deduct	*-0.34*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0223	EA	3/4" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	20.44	11.36
		For Schedule 80 Nipples, Add	*3.82*	
		For ASTM 120, Deduct	*-0.50*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0224	EA	1" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	22.23	12.32
		For Schedule 80 Nipples, Add	*4.35*	
		For ASTM 120, Deduct	*-0.57*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0225	EA	1-1/4" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	24.62	13.28
		For Schedule 80 Nipples, Add	*5.34*	
		For ASTM 120, Deduct	*-0.70*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0226	EA	1-1/2" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	25.86	13.28
		For Schedule 80 Nipples, Add	*6.75*	
		For ASTM 120, Deduct	*-0.89*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0227	EA	2" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	33.33	17.11
		For Schedule 80 Nipples, Add	*8.66*	
		For ASTM 120, Deduct	*-1.14*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0228	EA	2-1/2" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	51.70	21.30
		For Schedule 80 Nipples, Add	*22.56*	
		For ASTM 120, Deduct	*-2.97*	
		For Work In Restricted Working Space, Add	*9.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0229	EA	3" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	64.86	25.73
		For Schedule 80 Nipples, Add	*29.95*	
		For ASTM 120, Deduct	*-3.94*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0230	EA	4" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple	80.45	30.16
		For Schedule 80 Nipples, Add	*40.20*	
		For ASTM 120, Deduct	*-5.29*	
		For Work In Restricted Working Space, Add	*13.56*	
22 11 16 00-0231	EA	3/8" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.71	11.36
		For Schedule 80 Nipples, Add	*5.27*	
		For ASTM 120, Deduct	*-0.69*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0232	EA	1/2" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.83	11.36
		For Schedule 80 Nipples, Add	*3.12*	
		For ASTM 120, Deduct	*-0.41*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0233	EA	3/4" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.46	11.36
		For Schedule 80 Nipples, Add	*3.84*	
		For ASTM 120, Deduct	*-0.51*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0234	EA	1" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.09	12.32
		For Schedule 80 Nipples, Add	*5.34*	
		For ASTM 120, Deduct	*-0.70*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0235	EA	1-1/4" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	25.73	13.28
		For Schedule 80 Nipples, Add	*6.60*	
		For ASTM 120, Deduct	*-0.87*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0236	EA	1-1/2" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	27.09	13.28
		For Schedule 80 Nipples, Add	*8.15*	
		For ASTM 120, Deduct	*-1.07*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0237	EA	2" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	35.35	17.11
		For Schedule 80 Nipples, Add	*10.97*	
		For ASTM 120, Deduct	*-1.44*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0238	EA	2-1/2" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	53.97	21.30
		For Schedule 80 Nipples, Add	*25.15*	
		For ASTM 120, Deduct	*-3.31*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0239	EA	3" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	69.20	25.73
		For Schedule 80 Nipples, Add	*34.90*	
		For ASTM 120, Deduct	*-4.59*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0240	EA	4" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	84.73	30.16
		For Schedule 80 Nipples, Add	*45.08*	
		For ASTM 120, Deduct	*-5.93*	
		For Work In Restricted Working Space, Add	*13.56*	
22 11 16 00-0241	EA	3/8" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	21.71	11.36
		For Schedule 80 Nipples, Add	*5.27*	
		For ASTM 120, Deduct	*-0.69*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0242	EA	1/2" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	19.83	11.36
		For Schedule 80 Nipples, Add	*3.12*	
		For ASTM 120, Deduct	*-0.41*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0243	EA	3/4" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	20.46	11.36
		For Schedule 80 Nipples, Add	*3.84*	
		For ASTM 120, Deduct	*-0.51*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0244	EA	1" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	23.09	12.32
		For Schedule 80 Nipples, Add	*5.34*	
		For ASTM 120, Deduct	*-0.70*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0245	EA	1-1/4" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	25.73	13.28
		For Schedule 80 Nipples, Add	*6.60*	
		For ASTM 120, Deduct	*-0.87*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0246	EA	1-1/2" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	27.09	13.28
		For Schedule 80 Nipples, Add	*8.15*	
		For ASTM 120, Deduct	*-1.07*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0247	EA	2" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	35.35	17.11
		For Schedule 80 Nipples, Add	*10.97*	
		For ASTM 120, Deduct	*-1.44*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0248	EA	2-1/2" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	53.97	21.30
		For Schedule 80 Nipples, Add	*25.15*	
		For ASTM 120, Deduct	*-3.31*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0249	EA	3" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	69.20	25.73
		For Schedule 80 Nipples, Add	*34.90*	
		For ASTM 120, Deduct	*-4.59*	
		For Work In Restricted Working Space, Add	*11.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0250	EA	4" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple	84.73	30.16
		For Schedule 80 Nipples, Add	*45.08*	
		For ASTM 120, Deduct	*-5.93*	
		For Work In Restricted Working Space, Add	*13.56*	
22 11 16 00-0251	EA	3/8" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	22.22	11.36
		For Schedule 80 Nipples, Add	*5.85*	
		For ASTM 120, Deduct	*-0.77*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0252	EA	1/2" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	20.20	11.36
		For Schedule 80 Nipples, Add	*3.55*	
		For ASTM 120, Deduct	*-0.47*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0253	EA	3/4" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	21.13	11.36
		For Schedule 80 Nipples, Add	*4.61*	
		For ASTM 120, Deduct	*-0.61*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0254	EA	1" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	23.72	12.32
		For Schedule 80 Nipples, Add	*6.05*	
		For ASTM 120, Deduct	*-0.80*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0255	EA	1-1/4" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	26.66	13.28
		For Schedule 80 Nipples, Add	*7.66*	
		For ASTM 120, Deduct	*-1.01*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0256	EA	1-1/2" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	27.99	13.28
		For Schedule 80 Nipples, Add	*9.18*	
		For ASTM 120, Deduct	*-1.21*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0257	EA	2" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	36.91	17.11
		For Schedule 80 Nipples, Add	*12.75*	
		For ASTM 120, Deduct	*-1.68*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0258	EA	2-1/2" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	56.16	21.30
		For Schedule 80 Nipples, Add	*27.65*	
		For ASTM 120, Deduct	*-3.64*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0259	EA	3" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	70.97	25.73
		For Schedule 80 Nipples, Add	*36.91*	
		For ASTM 120, Deduct	*-4.86*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0260	EA	4" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple	88.90	30.16
		For Schedule 80 Nipples, Add	*49.83*	
		For ASTM 120, Deduct	*-6.56*	
		For Work In Restricted Working Space, Add	*13.56*	
22 11 16 00-0261	EA	3/8" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	37.60	11.36
		For Schedule 80 Nipples, Add	*23.38*	
		For ASTM 120, Deduct	*-3.08*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0262	EA	1/2" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	22.57	11.36
		For Schedule 80 Nipples, Add	*6.25*	
		For ASTM 120, Deduct	*-0.82*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0263	EA	3/4" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	24.10	11.36
		For Schedule 80 Nipples, Add	*7.99*	
		For ASTM 120, Deduct	*-1.05*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0264	EA	1" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	27.29	12.32
		For Schedule 80 Nipples, Add	*10.12*	
		For ASTM 120, Deduct	*-1.33*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0265	EA	1-1/4" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	30.83	13.28
		For Schedule 80 Nipples, Add	*12.41*	
		For ASTM 120, Deduct	*-1.63*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0266	EA	1-1/2" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	32.43	13.28
		For Schedule 80 Nipples, Add	*14.24*	
		For ASTM 120, Deduct	*-1.87*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0267	EA	2" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	43.95	17.11
		For Schedule 80 Nipples, Add	*20.77*	
		For ASTM 120, Deduct	*-2.73*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0268	EA	2-1/2" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	63.12	21.30
		For Schedule 80 Nipples, Add	*35.58*	
		For ASTM 120, Deduct	*-4.68*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0269	EA	3" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	82.21	25.73
		For Schedule 80 Nipples, Add	*49.73*	
		For ASTM 120, Deduct	*-6.54*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0270	EA	4" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	97.35	30.16
		For Schedule 80 Nipples, Add	*59.46*	
		For ASTM 120, Deduct	*-7.82*	
		For Work In Restricted Working Space, Add	*13.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0271	EA	3/8" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	26.87	11.36
		For Schedule 80 Nipples, Add	*11.15*	
		For ASTM 120, Deduct	*-1.47*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0272	EA	1/2" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	23.60	11.36
		For Schedule 80 Nipples, Add	*7.42*	
		For ASTM 120, Deduct	*-0.98*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0273	EA	3/4" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	24.87	11.36
		For Schedule 80 Nipples, Add	*8.87*	
		For ASTM 120, Deduct	*-1.17*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0274	EA	1" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	28.56	12.32
		For Schedule 80 Nipples, Add	*11.57*	
		For ASTM 120, Deduct	*-1.52*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0275	EA	1-1/4" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	32.96	13.28
		For Schedule 80 Nipples, Add	*14.84*	
		For ASTM 120, Deduct	*-1.95*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0276	EA	1-1/2" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	34.50	13.28
		For Schedule 80 Nipples, Add	*16.60*	
		For ASTM 120, Deduct	*-2.18*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0277	EA	2" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	47.04	17.11
		For Schedule 80 Nipples, Add	*24.29*	
		For ASTM 120, Deduct	*-3.20*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0278	EA	2-1/2" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	67.48	21.30
		For Schedule 80 Nipples, Add	*40.55*	
		For ASTM 120, Deduct	*-5.34*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0279	EA	3" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	88.35	25.73
		For Schedule 80 Nipples, Add	*56.73*	
		For ASTM 120, Deduct	*-7.46*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0280	EA	4" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	105.64	30.16
		For Schedule 80 Nipples, Add	*68.91*	
		For ASTM 120, Deduct	*-9.07*	
		For Work In Restricted Working Space, Add	*13.56*	
22 11 16 00-0281	EA	3/8" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	27.93	11.36
		For Schedule 80 Nipples, Add	*12.36*	
		For ASTM 120, Deduct	*-1.63*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0282	EA	1/2" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	24.50	11.36
		For Schedule 80 Nipples, Add	*8.45*	
		For ASTM 120, Deduct	*-1.11*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0283	EA	3/4" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	25.81	11.36
		For Schedule 80 Nipples, Add	*9.94*	
		For ASTM 120, Deduct	*-1.31*	
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0284	EA	1" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	30.23	12.32
		For Schedule 80 Nipples, Add	*13.47*	
		For ASTM 120, Deduct	*-1.77*	
		For Work In Restricted Working Space, Add	*5.52*	
22 11 16 00-0285	EA	1-1/4" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	35.57	13.28
		For Schedule 80 Nipples, Add	*17.82*	
		For ASTM 120, Deduct	*-2.34*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0286	EA	1-1/2" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	36.60	13.28
		For Schedule 80 Nipples, Add	*18.99*	
		For ASTM 120, Deduct	*-2.50*	
		For Work In Restricted Working Space, Add	*5.98*	
22 11 16 00-0287	EA	2" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	50.18	17.11
		For Schedule 80 Nipples, Add	*27.87*	
		For ASTM 120, Deduct	*-3.67*	
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0288	EA	2-1/2" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	71.71	21.30
		For Schedule 80 Nipples, Add	*45.37*	
		For ASTM 120, Deduct	*-5.97*	
		For Work In Restricted Working Space, Add	*9.57*	
22 11 16 00-0289	EA	3" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	94.54	25.73
		For Schedule 80 Nipples, Add	*63.78*	
		For ASTM 120, Deduct	*-8.39*	
		For Work In Restricted Working Space, Add	*11.58*	
22 11 16 00-0290	EA	4" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	114.01	30.16
		For Schedule 80 Nipples, Add	*78.45*	
		For ASTM 120, Deduct	*-10.32*	
		For Work In Restricted Working Space, Add	*13.56*	

22 11 16 00-0291 Galvanized Steel Dielectric Nipples With Polyethylene Liner *(22 11 16 00-0013)*

See CSI section 22 11 16 00-0844 for dielectric unions.

22 11 16 00-0292	EA	1/2" Diameter Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	20.02	11.36
		For Work In Restricted Working Space, Add	*5.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0293	EA	1/2" Diameter Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	20.46	11.36
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0294	EA	3/4" Diameter Threaded x 2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	20.87	11.36
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0295	EA	3/4" Diameter Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	22.34	11.36
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0296	EA	3/4" Diameter Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	23.86	11.36
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0297	EA	3/4" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	24.77	11.36
		For Work In Restricted Working Space, Add	*5.13*	
22 11 16 00-0298	EA	1" Diameter Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	24.02	12.32
		For Work In Restricted Working Space, Add	*5.53*	
22 11 16 00-0299	EA	1" Diameter Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	24.50	12.32
		For Work In Restricted Working Space, Add	*5.53*	
22 11 16 00-0300	EA	1" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	31.86	12.32
		For Work In Restricted Working Space, Add	*5.53*	
22 11 16 00-0301	EA	1-1/4" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	34.50	13.28
		For Work In Restricted Working Space, Add	*5.99*	
22 11 16 00-0302	EA	1-1/2" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	38.55	13.28
		For Work In Restricted Working Space, Add	*5.99*	
22 11 16 00-0303	EA	2" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	51.56	17.11
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-0304	EA	2-1/2" Diameter Threaded x 6" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	61.33	21.30
		For Work In Restricted Working Space, Add	*9.59*	
22 11 16 00-0305	EA	3" Diameter Threaded x 6" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple	97.83	25.73
		For Work In Restricted Working Space, Add	*11.59*	

22 11 16 00-0306 Galvanized Malleable Iron Square Head Plugs *(22 11 16 00-0013)*

22 11 16 00-0307	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	19.96	8.50
		For 300 Lb. Rating, Add	*25.25*	
		For Work In Restricted Working Space, Add	*3.83*	
22 11 16 00-0308	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	21.48	9.57
		For 300 Lb. Rating, Add	*25.34*	
		For Work In Restricted Working Space, Add	*4.28*	
22 11 16 00-0309	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	23.84	10.65
		For 300 Lb. Rating, Add	*27.82*	
		For Work In Restricted Working Space, Add	*4.78*	
22 11 16 00-0310	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	30.21	12.09
		For 300 Lb. Rating, Add	*42.39*	
		For Work In Restricted Working Space, Add	*5.42*	
22 11 16 00-0311	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	36.72	13.52
		For 300 Lb. Rating, Add	*56.85*	
		For Work In Restricted Working Space, Add	*6.11*	
22 11 16 00-0312	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	46.67	17.23
		For 300 Lb. Rating, Add	*72.27*	
		For Work In Restricted Working Space, Add	*7.76*	
22 11 16 00-0313	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	78.86	25.49
		For 300 Lb. Rating, Add	*140.24*	
		For Work In Restricted Working Space, Add	*11.49*	
22 11 16 00-0314	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	107.94	33.62
		For 300 Lb. Rating, Add	*198.73*	
		For Work In Restricted Working Space, Add	*15.11*	
22 11 16 00-0315	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	172.22	35.13
		For 300 Lb. Rating, Add	*409.46*	
		For Work In Restricted Working Space, Add	*15.82*	
22 11 16 00-0316	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	274.26	36.71
		For 300 Lb. Rating, Add	*748.72*	
		For Work In Restricted Working Space, Add	*16.51*	
22 11 16 00-0317	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug	294.54	38.29
		For 300 Lb. Rating, Add	*809.32*	
		For Work In Restricted Working Space, Add	*17.26*	

22 11 16 00-0318 Galvanized Malleable Iron Bushing *(22 11 16 00-0013)*

22 11 16 00-0319	EA	3/4" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	43.00	22.50
		For Work In Restricted Working Space, Add	*10.14*	
22 11 16 00-0320	EA	1" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	46.89	23.93
		For Work In Restricted Working Space, Add	*10.77*	
22 11 16 00-0321	EA	1" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	48.22	25.24
		For Work In Restricted Working Space, Add	*11.34*	
22 11 16 00-0322	EA	1-1/4" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	53.92	25.73
		For Work In Restricted Working Space, Add	*11.56*	
22 11 16 00-0323	EA	1-1/4" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	54.42	26.92
		For Work In Restricted Working Space, Add	*12.13*	
22 11 16 00-0324	EA	1-1/4" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	56.51	28.35
		For Work In Restricted Working Space, Add	*12.75*	
22 11 16 00-0325	EA	1-1/2" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	61.76	27.64
		For Work In Restricted Working Space, Add	*12.42*	
22 11 16 00-0326	EA	1-1/2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	63.66	28.84
		For Work In Restricted Working Space, Add	*12.99*	
22 11 16 00-0327	EA	1-1/2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	63.75	30.27
		For Work In Restricted Working Space, Add	*13.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0328	EA	1-1/2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	64.95	32.07
		For Work In Restricted Working Space, Add	*14.41*	
22 11 16 00-0329	EA	2" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	73.70	32.18
		For Work In Restricted Working Space, Add	*14.49*	
22 11 16 00-0330	EA	2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	73.84	33.50
		For Work In Restricted Working Space, Add	*15.06*	
22 11 16 00-0331	EA	2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	74.63	34.82
		For Work In Restricted Working Space, Add	*15.68*	
22 11 16 00-0332	EA	2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	77.27	36.61
		For Work In Restricted Working Space, Add	*16.47*	
22 11 16 00-0333	EA	2" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	77.40	38.52
		For Work In Restricted Working Space, Add	*17.34*	
22 11 16 00-0334	EA	2-1/2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	102.49	43.79
		For Work In Restricted Working Space, Add	*19.72*	
22 11 16 00-0335	EA	2-1/2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	104.57	45.23
		For Work In Restricted Working Space, Add	*20.34*	
22 11 16 00-0336	EA	2-1/2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	107.21	46.91
		For Work In Restricted Working Space, Add	*21.13*	
22 11 16 00-0337	EA	2-1/2" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	109.41	48.94
		For Work In Restricted Working Space, Add	*22.00*	
22 11 16 00-0338	EA	2-1/2" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	112.18	53.48
		For Work In Restricted Working Space, Add	*24.06*	
22 11 16 00-0339	EA	3" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	129.38	53.84
		For Work In Restricted Working Space, Add	*24.25*	
22 11 16 00-0340	EA	3" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	131.45	55.28
		For Work In Restricted Working Space, Add	*24.87*	
22 11 16 00-0341	EA	3" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	134.09	57.07
		For Work In Restricted Working Space, Add	*25.67*	
22 11 16 00-0342	EA	3" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	136.02	58.98
		For Work In Restricted Working Space, Add	*26.53*	
22 11 16 00-0343	EA	3" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	138.46	63.53
		For Work In Restricted Working Space, Add	*28.59*	
22 11 16 00-0344	EA	3" x 2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	156.47	73.94
		For Work In Restricted Working Space, Add	*33.25*	
22 11 16 00-0345	EA	4" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	184.51	55.13
		For Work In Restricted Working Space, Add	*24.83*	
22 11 16 00-0346	EA	4" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	186.47	56.48
		For Work In Restricted Working Space, Add	*25.42*	
22 11 16 00-0347	EA	4" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	188.95	58.18
		For Work In Restricted Working Space, Add	*26.16*	
22 11 16 00-0348	EA	4" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	191.68	59.99
		For Work In Restricted Working Space, Add	*26.98*	
22 11 16 00-0349	EA	4" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	186.18	64.28
		For Work In Restricted Working Space, Add	*28.93*	
22 11 16 00-0350	EA	4" x 2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	212.83	74.11
		For Work In Restricted Working Space, Add	*33.33*	
22 11 16 00-0351	EA	4" x 3" Diameter, 150 Lb., Galvanized Malleable Iron Bushing	220.37	83.60
		For Work In Restricted Working Space, Add	*37.61*	

22 11 16 00-0352 Galvanized Malleable Iron Floor Flange *(22 11 16 00-0013)*

Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.

22 11 16 00-0353	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange	73.64	43.72
22 11 16 00-0354	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange	80.49	47.86
22 11 16 00-0355	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange	92.42	54.08
22 11 16 00-0356	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange	96.05	56.00
22 11 16 00-0357	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange	104.53	60.90
22 11 16 00-0358	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange	112.52	63.53

22 11 16 00-0359 Galvanized Cast Iron Flanges *(22 11 16 00-0013)*

Note: Excludes bolt and gasket sets

22 11 16 00-0360	EA	3/4" Diameter, 125 Lb., Galvanized Cast Iron Flange	139.67	47.86
		For Work In Restricted Working Space, Add	*21.54*	
22 11 16 00-0361	EA	1" Diameter, 125 Lb., Galvanized Cast Iron Flange	133.67	54.08
		For Work In Restricted Working Space, Add	*24.33*	
22 11 16 00-0362	EA	1-1/4" Diameter, 125 Lb., Galvanized Cast Iron Flange	111.73	56.00
		For Work In Restricted Working Space, Add	*25.19*	
22 11 16 00-0363	EA	1-1/2" Diameter, 125 Lb., Galvanized Cast Iron Flange	132.36	60.90
		For Work In Restricted Working Space, Add	*27.40*	
22 11 16 00-0364	EA	2" Diameter, 125 Lb., Galvanized Cast Iron Flange	149.60	63.53
		For Work In Restricted Working Space, Add	*28.60*	
22 11 16 00-0365	EA	2-1/2" Diameter, 125 Lb., Galvanized Cast Iron Flange	173.76	73.58
		For Work In Restricted Working Space, Add	*33.08*	
22 11 16 00-0366	EA	3" Diameter, 125 Lb., Galvanized Cast Iron Flange	311.40	93.32
		For Work In Restricted Working Space, Add	*41.97*	
22 11 16 00-0367	EA	4" Diameter, 125 Lb., Galvanized Cast Iron Flange	414.29	120.54
		For Work In Restricted Working Space, Add	*54.21*	
22 11 16 00-0368	EA	5" Diameter, 125 Lb., Galvanized Cast Iron Flange	581.82	143.47
		For Work In Restricted Working Space, Add	*64.54*	
22 11 16 00-0369	EA	6" Diameter, 125 Lb., Galvanized Cast Iron Flange	639.07	164.83
		For Work In Restricted Working Space, Add	*74.14*	
22 11 16 00-0370	EA	8" Diameter, 125 Lb., Galvanized Cast Iron Flange	588.86	188.38
		For Work In Restricted Working Space, Add	*84.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0371		**Cut And Thread Existing In-Place Galvanized Steel Pipe** *(22 11 16 00-0013)*		
		Note: For use when connecting pipe to an existing in-place system.		
22 11 16 00-0372	EA	1/2" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	38.98	
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0373	EA	3/4" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	42.88	
		For Work In Restricted Working Space, Add	*12.86*	
22 11 16 00-0374	EA	1" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	46.78	
		For Work In Restricted Working Space, Add	*14.03*	
22 11 16 00-0375	EA	1-1/4" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	50.68	
		For Work In Restricted Working Space, Add	*15.20*	
22 11 16 00-0376	EA	1-1/2" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	53.27	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0377	EA	2" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	55.87	
		For Work In Restricted Working Space, Add	*16.76*	
22 11 16 00-0378	EA	2-1/2" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	58.48	
		For Work In Restricted Working Space, Add	*17.54*	
22 11 16 00-0379	EA	3" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	61.07	
		For Work In Restricted Working Space, Add	*18.32*	
22 11 16 00-0380	EA	4" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	63.67	
		For Work In Restricted Working Space, Add	*19.10*	
22 11 16 00-0381	EA	6" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	68.87	
		For Work In Restricted Working Space, Add	*20.66*	
22 11 16 00-0382	EA	8" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe	74.06	
		For Work In Restricted Working Space, Add	*22.22*	
22 11 16 00-0383		**Galvanized Malleable Iron Welded Plain End Half Coupling** *(22 11 16 00-0013)*		
		Note: Threaded Female x Butt Weld Straight Adapter		
22 11 16 00-0384	EA	1/2" Diameter, 3,000 Lb., Galvanzied Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	67.65	43.41
		For 300 Lb. Rating, Add	*12.51*	
		For ASTM 120, Deduct	*-0.38*	
		For Work In Restricted Working Space, Add	*19.54*	
22 11 16 00-0385	EA	3/4" Diameter, 3,000 Lb., Galvanzied Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	79.31	50.45
		For 300 Lb. Rating, Add	*16.92*	
		For ASTM 120, Deduct	*-0.55*	
		For Work In Restricted Working Space, Add	*22.70*	
22 11 16 00-0386	EA	1" Diameter, 3,000 Lb., Galvanzied Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	85.88	53.97
		For 300 Lb. Rating, Add	*21.82*	
		For ASTM 120, Deduct	*-0.75*	
		For Work In Restricted Working Space, Add	*24.27*	
22 11 16 00-0387	EA	1-1/4" Diameter, 3,000 Lb., Galvanzied Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	101.08	61.37
		For 300 Lb. Rating, Add	*36.23*	
		For ASTM 120, Deduct	*-1.35*	
		For Work In Restricted Working Space, Add	*27.62*	
22 11 16 00-0388	EA	1-1/2" Diameter, 3,000 Lb., Galvanzied Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	112.42	66.94
		For 300 Lb. Rating, Add	*46.86*	
		For ASTM 120, Deduct	*-1.80*	
		For Work In Restricted Working Space, Add	*30.12*	
22 11 16 00-0389	EA	2" Diameter, 3,000 Lb., Galvanzied Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	145.92	86.59
		For 300 Lb. Rating, Add	*62.70*	
		For ASTM 120, Deduct	*-2.42*	
		For Work In Restricted Working Space, Add	*38.93*	
22 11 16 00-0390		**Copper Pipe And Fittings** *(22 11 16)*		
		Note: Excludes hangers. See CSI section 22 11 16 00-0921 for pipe with fittings assembly.		
22 11 16 00-0391		**Copper Tube/Pipe** *(22 11 16 00-0390)*		
		Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0392		**Hard Drawn Type L Copper Tube/Pipe** *(22 11 16 00-0391)*		
22 11 16 00-0393	LF	1/4" Diameter, Hard Drawn Type L Copper Tube/Pipe	6.05	2.93
		For Medical/Oxygen Service Tubing, Add	*0.13*	
		For Up To 20, Add	*0.65*	
		For >200, Deduct	*-0.17*	
		For Work In Restricted Working Space, Add	*1.31*	
22 11 16 00-0394	LF	3/8" Diameter, Hard Drawn Type L Copper Tube/Pipe	7.01	3.04
		For Medical/Oxygen Service Tubing, Add	*0.20*	
		For Up To 20, Add	*0.76*	
		For >200, Deduct	*-0.24*	
		For Work In Restricted Working Space, Add	*1.37*	
22 11 16 00-0395	LF	1/2" Diameter, Hard Drawn Type L Copper Tube/Pipe	7.66	3.17
		For Medical/Oxygen Service Tubing, Add	*0.23*	
		For Up To 20, Add	*0.84*	
		For >200, Deduct	*-0.29*	
		For Work In Restricted Working Space, Add	*1.43*	
22 11 16 00-0396	LF	3/4" Diameter, Hard Drawn Type L Copper Tube/Pipe	9.77	3.36
		For Medical/Oxygen Service Tubing, Add	*0.38*	
		For Up To 20, Add	*1.10*	
		For >200, Deduct	*-0.47*	
		For Work In Restricted Working Space, Add	*1.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0397	LF	1" Diameter, Hard Drawn Type L Copper Tube/Pipe	12.50	3.78
		For Medical/Oxygen Service Tubing, Add	*0.55*	
		For Up To 20, Add	*1.42*	
		For >200, Deduct	*-0.68*	
		For Work In Restricted Working Space, Add	*1.70*	
22 11 16 00-0398	LF	1-1/4" Diameter, Hard Drawn Type L Copper Tube/Pipe	17.84	5.62
		For Medical/Oxygen Service Tubing, Add	*0.75*	
		For Up To 20, Add	*2.02*	
		For >200, Deduct	*-0.94*	
		For Work In Restricted Working Space, Add	*2.53*	
22 11 16 00-0399	LF	1-1/2" Diameter, Hard Drawn Type L Copper Tube/Pipe	21.52	6.28
		For Medical/Oxygen Service Tubing, Add	*0.97*	
		For Up To 20, Add	*2.45*	
		For >200, Deduct	*-1.21*	
		For Work In Restricted Working Space, Add	*2.82*	
22 11 16 00-0400	LF	2" Diameter, Hard Drawn Type L Copper Tube/Pipe	30.75	7.75
		For Medical/Oxygen Service Tubing, Add	*1.53*	
		For Up To 20, Add	*3.55*	
		For >200, Deduct	*-1.92*	
		For Work In Restricted Working Space, Add	*3.48*	
22 11 16 00-0401	LF	2-1/2" Diameter, Hard Drawn Type L Copper Tube/Pipe	55.01	9.11
		For Medical/Oxygen Service Tubing, Add	*2.21*	
		For Up To 20, Add	*6.19*	
		For >200, Deduct	*-2.77*	
		For Work In Restricted Working Space, Add	*8.21*	
22 11 16 00-0402	LF	3" Diameter, Hard Drawn Type L Copper Tube/Pipe	69.07	10.73
		For Medical/Oxygen Service Tubing, Add	*2.95*	
		For Up To 20, Add	*7.83*	
		For >200, Deduct	*-3.69*	
		For Work In Restricted Working Space, Add	*9.65*	
22 11 16 00-0403	LF	4" Diameter, Hard Drawn Type L Copper Tube/Pipe	102.05	12.11
		For Medical/Oxygen Service Tubing, Add	*5.26*	
		For Up To 20, Add	*11.85*	
		For >200, Deduct	*-6.58*	
		For Work In Restricted Working Space, Add	*10.89*	
22 11 16 00-0404	LF	5" Diameter, Hard Drawn Type L Copper Tube/Pipe	157.84	13.90
		For Medical/Oxygen Service Tubing, Add	*9.29*	
		For Up To 20, Add	*18.69*	
		For >200, Deduct	*-11.61*	
		For Work In Restricted Working Space, Add	*12.51*	
22 11 16 00-0405	LF	6" Diameter, Hard Drawn Type L Copper Tube/Pipe	217.40	21.55
		For Medical/Oxygen Service Tubing, Add	*12.22*	
		For Up To 20, Add	*25.56*	
		For >200, Deduct	*-15.28*	
		For Work In Restricted Working Space, Add	*19.38*	
22 11 16 00-0406	LF	8" Diameter, Hard Drawn Type L Copper Tube/Pipe	359.78	23.96
		For Medical/Oxygen Service Tubing, Add	*23.04*	
		For Up To 20, Add	*43.18*	
		For >200, Deduct	*-28.80*	
		For Work In Restricted Working Space, Add	*21.55*	
22 11 16 00-0407		Hard Drawn Type K Copper Tube/Pipe *(22 11 16 00-0391)*		
22 11 16 00-0408	LF	1/4" Diameter, Hard Drawn Type K Copper Tube/Pipe	6.58	3.15
		For Medical/Oxygen Service Tubing, Add	*0.15*	
		For Up To 20, Add	*0.70*	
		For >200, Deduct	*-0.19*	
		For Work In Restricted Working Space, Add	*1.41*	
22 11 16 00-0409	LF	3/8" Diameter, Hard Drawn Type K Copper Tube/Pipe	8.74	3.27
		For Medical/Oxygen Service Tubing, Add	*0.27*	
		For Up To 20, Add	*0.96*	
		For >200, Deduct	*-0.34*	
		For Work In Restricted Working Space, Add	*1.61*	
22 11 16 00-0410	LF	1/2" Diameter, Hard Drawn Type K Copper Tube/Pipe	9.20	3.40
		For Medical/Oxygen Service Tubing, Add	*0.32*	
		For Up To 20, Add	*1.02*	
		For >200, Deduct	*-0.40*	
		For Work In Restricted Working Space, Add	*1.58*	
22 11 16 00-0411	LF	3/4" Diameter, Hard Drawn Type K Copper Tube/Pipe	13.20	3.61
		For Medical/Oxygen Service Tubing, Add	*0.57*	
		For Up To 20, Add	*1.50*	
		For >200, Deduct	*-0.71*	
		For Work In Restricted Working Space, Add	*1.82*	
22 11 16 00-0412	LF	1" Diameter, Hard Drawn Type K Copper Tube/Pipe	15.93	4.06
		For Medical/Oxygen Service Tubing, Add	*0.76*	
		For Up To 20, Add	*1.83*	
		For >200, Deduct	*-0.95*	
		For Work In Restricted Working Space, Add	*1.94*	
22 11 16 00-0413	LF	1-1/4" Diameter, Hard Drawn Type K Copper Tube/Pipe	20.95	6.05
		For Medical/Oxygen Service Tubing, Add	*0.94*	
		For Up To 20, Add	*2.39*	
		For >200, Deduct	*-1.18*	
		For Work In Restricted Working Space, Add	*2.75*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0414	LF	1-1/2" Diameter, Hard Drawn Type K Copper Tube/Pipe	25.39	6.74
		For Medical/Oxygen Service Tubing, Add	*1.21*	
		For Up To 20, Add	*2.92*	
		For >200, Deduct	*-1.51*	
		For Work In Restricted Working Space, Add	*3.09*	
22 11 16 00-0415	LF	2" Diameter, Hard Drawn Type K Copper Tube/Pipe	35.81	8.33
		For Medical/Oxygen Service Tubing, Add	*1.85*	
		For Up To 20, Add	*4.16*	
		For >200, Deduct	*-2.32*	
		For Work In Restricted Working Space, Add	*3.79*	
22 11 16 00-0416	LF	2-1/2" Diameter, Hard Drawn Type K Copper Tube/Pipe	62.01	9.78
		For Medical/Oxygen Service Tubing, Add	*2.76*	
		For Up To 20, Add	*7.06*	
		For >200, Deduct	*-3.45*	
		For Work In Restricted Working Space, Add	*8.24*	
22 11 16 00-0417	LF	3" Diameter, Hard Drawn Type K Copper Tube/Pipe	82.62	11.54
		For Medical/Oxygen Service Tubing, Add	*3.78*	
		For Up To 20, Add	*9.44*	
		For >200, Deduct	*-4.72*	
		For Work In Restricted Working Space, Add	*10.62*	
22 11 16 00-0418	LF	4" Diameter, Hard Drawn Type K Copper Tube/Pipe	124.27	13.01
		For Medical/Oxygen Service Tubing, Add	*6.73*	
		For Up To 20, Add	*14.53*	
		For >200, Deduct	*-8.42*	
		For Work In Restricted Working Space, Add	*12.03*	
22 11 16 00-0419	LF	5" Diameter, Hard Drawn Type K Copper Tube/Pipe	201.57	14.95
		For Medical/Oxygen Service Tubing, Add	*12.34*	
		For Up To 20, Add	*24.01*	
		For >200, Deduct	*-15.42*	
		For Work In Restricted Working Space, Add	*14.21*	
22 11 16 00-0420	LF	6" Diameter, Hard Drawn Type K Copper Tube/Pipe	297.61	23.16
		For Medical/Oxygen Service Tubing, Add	*17.70*	
		For Up To 20, Add	*35.29*	
		For >200, Deduct	*-22.13*	
		For Work In Restricted Working Space, Add	*22.90*	
22 11 16 00-0421	LF	8" Diameter, Hard Drawn Type K Copper Tube/Pipe	498.46	25.75
		For Medical/Oxygen Service Tubing, Add	*33.15*	
		For Up To 20, Add	*60.20*	
		For >200, Deduct	*-41.44*	
		For Work In Restricted Working Space, Add	*25.23*	

22 11 16 00-0422 Hard Drawn Type M Copper Tube/Pipe *(22 11 16 00-0391)*

22 11 16 00-0423	LF	3/8" Diameter, Hard Drawn Type M Copper Tube/Pipe	5.85	2.74
		For Up To 20, Add	*0.63*	
		For >200, Deduct	*-0.19*	
		For Work In Restricted Working Space, Add	*1.19*	
22 11 16 00-0424	LF	1/2" Diameter, Hard Drawn Type M Copper Tube/Pipe	6.22	2.86
		For Up To 20, Add	*0.68*	
		For >200, Deduct	*-0.21*	
		For Work In Restricted Working Space, Add	*1.22*	
22 11 16 00-0425	LF	3/4" Diameter, Hard Drawn Type M Copper Tube/Pipe	7.81	3.03
		For Up To 20, Add	*0.87*	
		For >200, Deduct	*-0.35*	
		For Work In Restricted Working Space, Add	*1.31*	
22 11 16 00-0426	LF	1" Diameter, Hard Drawn Type M Copper Tube/Pipe	10.18	3.40
		For Up To 20, Add	*1.15*	
		For >200, Deduct	*-0.53*	
		For Work In Restricted Working Space, Add	*1.46*	
22 11 16 00-0427	LF	1-1/4" Diameter, Hard Drawn Type M Copper Tube/Pipe	15.23	5.07
		For Up To 20, Add	*1.72*	
		For >200, Deduct	*-0.78*	
		For Work In Restricted Working Space, Add	*2.24*	
22 11 16 00-0428	LF	1-1/2" Diameter, Hard Drawn Type M Copper Tube/Pipe	19.28	5.65
		For Up To 20, Add	*2.20*	
		For >200, Deduct	*-1.07*	
		For Work In Restricted Working Space, Add	*2.57*	
22 11 16 00-0429	LF	2" Diameter, Hard Drawn Type M Copper Tube/Pipe	27.49	6.96
		For Up To 20, Add	*3.17*	
		For >200, Deduct	*-1.69*	
		For Work In Restricted Working Space, Add	*3.19*	
22 11 16 00-0430	LF	2-1/2" Diameter, Hard Drawn Type M Copper Tube/Pipe	50.28	8.19
		For Up To 20, Add	*5.64*	
		For >200, Deduct	*-2.44*	
		For Work In Restricted Working Space, Add	*7.75*	
22 11 16 00-0431	LF	3" Diameter, Hard Drawn Type M Copper Tube/Pipe	61.53	9.65
		For Up To 20, Add	*6.97*	
		For >200, Deduct	*-3.25*	
		For Work In Restricted Working Space, Add	*8.71*	
22 11 16 00-0432	LF	4" Diameter, Hard Drawn Type M Copper Tube/Pipe	94.74	10.90
		For Up To 20, Add	*11.00*	
		For >200, Deduct	*-6.09*	
		For Work In Restricted Working Space, Add	*10.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0433	LF	5" Diameter, Hard Drawn Type M Copper Tube/Pipe	157.27	12.51
		For Up To 20, Add	*18.68*	
		For >200, Deduct	*-11.82*	
		For Work In Restricted Working Space, Add	*11.73*	
22 11 16 00-0434	LF	6" Diameter, Hard Drawn Type M Copper Tube/Pipe	218.43	19.40
		For Up To 20, Add	*25.79*	
		For >200, Deduct	*-15.79*	
		For Work In Restricted Working Space, Add	*18.17*	
22 11 16 00-0435	LF	8" Diameter, Hard Drawn Type M Copper Tube/Pipe	365.78	21.56
		For Up To 20, Add	*44.06*	
		For >200, Deduct	*-29.92*	
		For Work In Restricted Working Space, Add	*19.98*	

22 11 16 00-0436 Soft Drawn Type L Copper Tube *(22 11 16 00-0391)*

22 11 16 00-0437	LF	1/4" Diameter, Soft Drawn Type L Copper Tube	6.53	2.93
		For Up To 20, Add	*0.71*	
		For >200, Deduct	*-0.22*	
		For Work In Restricted Working Space, Add	*1.31*	
22 11 16 00-0438	LF	3/8" Diameter, Soft Drawn Type L Copper Tube	7.91	3.04
		For Up To 20, Add	*0.87*	
		For >200, Deduct	*-0.33*	
		For Work In Restricted Working Space, Add	*1.37*	
22 11 16 00-0439	LF	1/2" Diameter, Soft Drawn Type L Copper Tube	9.24	3.17
		For Up To 20, Add	*1.04*	
		For >200, Deduct	*-0.45*	
		For Work In Restricted Working Space, Add	*1.43*	
22 11 16 00-0440	LF	5/8" Diameter, Soft Drawn Type L Copper Tube	10.64	3.27
		For Up To 20, Add	*1.21*	
		For >200, Deduct	*-0.57*	
		For Work In Restricted Working Space, Add	*1.47*	
22 11 16 00-0441	LF	3/4" Diameter, Soft Drawn Type L Copper Tube	11.90	3.36
		For Up To 20, Add	*1.36*	
		For >200, Deduct	*-0.69*	
		For Work In Restricted Working Space, Add	*1.52*	
22 11 16 00-0442	LF	1" Diameter, Soft Drawn Type L Copper Tube	15.16	3.78
		For Up To 20, Add	*1.75*	
		For >200, Deduct	*-0.95*	
		For Work In Restricted Working Space, Add	*1.70*	
22 11 16 00-0443	LF	1-1/4" Diameter, Soft Drawn Type L Copper Tube	20.92	5.62
		For Up To 20, Add	*2.40*	
		For >200, Deduct	*-1.25*	
		For Work In Restricted Working Space, Add	*2.53*	
22 11 16 00-0444	LF	1-1/2" Diameter, Soft Drawn Type L Copper Tube	26.34	6.28
		For Up To 20, Add	*3.06*	
		For >200, Deduct	*-1.69*	
		For Work In Restricted Working Space, Add	*2.82*	
22 11 16 00-0445	LF	2" Diameter, Soft Drawn Type L Copper Tube	38.52	7.75
		For Up To 20, Add	*4.53*	
		For >200, Deduct	*-2.69*	
		For Work In Restricted Working Space, Add	*3.48*	

22 11 16 00-0446 Soft Drawn Type K Copper Tube *(22 11 16 00-0391)*

22 11 16 00-0447	LF	1/4" Diameter, Soft Drawn Type K Copper Tube	6.74	2.93
		For Up To 20, Add	*0.73*	
		For >200, Deduct	*-0.24*	
		For Work In Restricted Working Space, Add	*1.31*	
22 11 16 00-0448	LF	3/8" Diameter, Soft Drawn Type K Copper Tube	8.60	3.04
		For Up To 20, Add	*0.96*	
		For >200, Deduct	*-0.40*	
		For Work In Restricted Working Space, Add	*1.37*	
22 11 16 00-0449	LF	1/2" Diameter, Soft Drawn Type K Copper Tube	9.81	3.17
		For Up To 20, Add	*1.11*	
		For >200, Deduct	*-0.51*	
		For Work In Restricted Working Space, Add	*1.43*	
22 11 16 00-0450	LF	5/8" Diameter, Soft Drawn Type K Copper Tube	10.92	3.27
		For Up To 20, Add	*1.24*	
		For >200, Deduct	*-0.60*	
		For Work In Restricted Working Space, Add	*1.47*	
22 11 16 00-0451	LF	3/4" Diameter, Soft Drawn Type K Copper Tube	14.40	3.36
		For Up To 20, Add	*1.67*	
		For >200, Deduct	*-0.94*	
		For Work In Restricted Working Space, Add	*1.52*	
22 11 16 00-0452	LF	1" Diameter, Soft Drawn Type K Copper Tube	18.08	3.78
		For Up To 20, Add	*2.12*	
		For >200, Deduct	*-1.24*	
		For Work In Restricted Working Space, Add	*1.70*	
22 11 16 00-0453	LF	1-1/4" Diameter, Soft Drawn Type K Copper Tube	23.06	5.62
		For Up To 20, Add	*2.67*	
		For >200, Deduct	*-1.46*	
		For Work In Restricted Working Space, Add	*2.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0454	LF	1-1/2" Diameter, Soft Drawn Type K Copper Tube	29.74	6.28
		For Up To 20, Add	*3.48*	
		For >200, Deduct	*-2.03*	
		For Work In Restricted Working Space, Add	*2.82*	
22 11 16 00-0455	LF	2" Diameter, Soft Drawn Type K Copper Tube	43.19	7.75
		For Up To 20, Add	*5.11*	
		For >200, Deduct	*-3.16*	
		For Work In Restricted Working Space, Add	*3.48*	
22 11 16 00-0456	LF	2-1/2" Diameter, Soft Drawn Type K Copper Tube	61.30	9.29
		For Up To 20, Add	*7.31*	
		For >200, Deduct	*-4.74*	
		For Work In Restricted Working Space, Add	*4.18*	
22 11 16 00-0457	LF	3" Diameter, Soft Drawn Type K Copper Tube	82.35	10.96
		For Up To 20, Add	*9.88*	
		For >200, Deduct	*-6.59*	
		For Work In Restricted Working Space, Add	*4.93*	

22 11 16 00-0458 Copper And Brass Fittings *(22 11 16 00-0390)*

Note: All fittings are based on 95/5 solder.

22 11 16 00-0459 90 Degree Copper Elbows *(22 11 16 00-0458)*

22 11 16 00-0460	EA	1/4" Diameter, 90 Degree Copper Elbow	29.44	17.34
		For Silver Solder Instead Of 95/5 Solder, Add	*4.07*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.77*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.90*	
		For Street Fitting, Add	*1.38*	
		For Work In Restricted Working Space, Add	*7.80*	
22 11 16 00-0461	EA	3/8" Diameter, 90 Degree Copper Elbow	34.84	20.79
		For Silver Solder Instead Of 95/5 Solder, Add	*4.86*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.30*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.68*	
		For Street Fitting, Add	*1.46*	
		For Work In Restricted Working Space, Add	*9.36*	
22 11 16 00-0462	EA	1/2" Diameter, 90 Degree Copper Elbow	44.06	28.58
		For Silver Solder Instead Of 95/5 Solder, Add	*6.49*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.35*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*6.43*	
		For Street Fitting, Add	*0.47*	
		For Work In Restricted Working Space, Add	*12.86*	
22 11 16 00-0463	EA	3/4" Diameter, 90 Degree Copper Elbow	55.93	35.61
		For Silver Solder Instead Of 95/5 Solder, Add	*8.12*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.46*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.99*	
		For Street Fitting, Add	*1.06*	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0464	EA	1" Diameter, 90 Degree Copper Elbow	70.18	42.49
		For Silver Solder Instead Of 95/5 Solder, Add	*9.88*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.69*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.55*	
		For Street Fitting, Add	*2.60*	
		For Work In Restricted Working Space, Add	*19.10*	
22 11 16 00-0465	EA	1-1/4" Diameter, 90 Degree Copper Elbow	78.60	46.00
		For Silver Solder Instead Of 95/5 Solder, Add	*10.82*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.37*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.33*	
		For Street Fitting, Add	*3.89*	
		For Work In Restricted Working Space, Add	*20.66*	
22 11 16 00-0466	EA	1-1/2" Diameter, 90 Degree Copper Elbow	90.60	50.29
		For Silver Solder Instead Of 95/5 Solder, Add	*12.07*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.30*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.31*	
		For Street Fitting, Add	*6.09*	
		For Work In Restricted Working Space, Add	*22.61*	
22 11 16 00-0467	EA	2" Diameter, 90 Degree Copper Elbow	112.22	56.39
		For Silver Solder Instead Of 95/5 Solder, Add	*14.06*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-9.83*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*12.67*	
		For Street Fitting, Add	*11.10*	
		For Work In Restricted Working Space, Add	*25.34*	
22 11 16 00-0468	EA	2-1/2" Diameter, 90 Degree Copper Elbow	149.12	57.43
		For Silver Solder Instead Of 95/5 Solder, Add	*16.07*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.76*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*12.92*	
		For Work In Restricted Working Space, Add	*25.84*	
22 11 16 00-0469	EA	3" Diameter, 90 Degree Copper Elbow	191.71	68.68
		For Silver Solder Instead Of 95/5 Solder, Add	*19.87*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-14.73*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*15.43*	
		For Work In Restricted Working Space, Add	*30.87*	
22 11 16 00-0470	EA	4" Diameter, 90 Degree Copper Elbow	361.48	97.40
		For Silver Solder Instead Of 95/5 Solder, Add	*32.67*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-25.37*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*21.90*	
		For Work In Restricted Working Space, Add	*43.79*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0471	EA	5" Diameter, 90 Degree Copper Elbow	1,102.64	133.29
		For Silver Solder Instead Of 95/5 Solder, Add	*75.11*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-65.12*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*29.97*	
		For Work In Restricted Working Space, Add	*59.94*	
22 11 16 00-0472	EA	6" Diameter, 90 Degree Copper Elbow	1,494.30	193.95
		For Silver Solder Instead Of 95/5 Solder, Add	*103.79*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-89.25*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*43.61*	
		For Work In Restricted Working Space, Add	*87.22*	
22 11 16 00-0473	EA	8" Diameter, 90 Degree Copper Elbow	4,840.20	258.56
		For Silver Solder Instead Of 95/5 Solder, Add	*280.78*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-261.39*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*58.15*	
		For Work In Restricted Working Space, Add	*116.30*	

22 11 16 00-0474 90 Degree Brass Elbows *(22 11 16 00-0458)*

22 11 16 00-0475	EA	1/2" Diameter, Drop Ear 90 Degree Brass Elbow	50.31	28.58
		For Silver Solder Instead Of 95/5 Solder, Add	*6.80*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.66*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*6.43*	
		For Work In Restricted Working Space, Add	*12.86*	
22 11 16 00-0476	EA	3/4" Diameter, Drop Ear 90 Degree Brass Elbow	74.94	35.61
		For Silver Solder Instead Of 95/5 Solder, Add	*9.07*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.41*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.99*	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0477	EA	1/2" Diameter, Flanged Sink 90 Degree Brass Elbow	56.43	28.58
		For Silver Solder Instead Of 95/5 Solder, Add	*7.11*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.97*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*6.43*	
		For Work In Restricted Working Space, Add	*12.86*	
22 11 16 00-0478	EA	3/8" Diameter, Drop Ear 90 Degree Brass Elbow, Solder X Threaded	42.31	20.79
		For Silver Solder Instead Of 95/5 Solder, Add	*5.23*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.68*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.68*	
		For Work In Restricted Working Space, Add	*9.36*	
22 11 16 00-0479	EA	1/2" Diameter, Drop Ear 90 Degree Brass Elbow, Solder X Threaded	50.84	28.58
		For Silver Solder Instead Of 95/5 Solder, Add	*6.83*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.69*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*6.43*	
		For Work In Restricted Working Space, Add	*12.86*	
22 11 16 00-0480	EA	3/4" Diameter, Drop Ear 90 Degree Brass Elbow, Solder X Threaded	67.28	35.61
		For Silver Solder Instead Of 95/5 Solder, Add	*8.69*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.03*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.99*	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0481	EA	1" Diameter, Drop Ear 90 Degree Brass Elbow, Solder X Threaded	108.40	42.49
		For Silver Solder Instead Of 95/5 Solder, Add	*11.79*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.60*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.55*	
		For Work In Restricted Working Space, Add	*19.10*	

22 11 16 00-0482 Reducing 90 Degree Copper Elbows *(22 11 16 00-0458)*

22 11 16 00-0483	EA	1/2" Diameter, Reducing 90 Degree Copper Elbow	52.48	28.58
		For Silver Solder Instead Of 95/5 Solder, Add	*6.91*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.77*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*6.43*	
		For Work In Restricted Working Space, Add	*12.86*	
22 11 16 00-0484	EA	3/4" Diameter, Reducing 90 Degree Copper Elbow	60.08	35.61
		For Silver Solder Instead Of 95/5 Solder, Add	*8.33*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.67*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.99*	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0485	EA	1" Diameter, Reducing 90 Degree Copper Elbow	76.17	42.49
		For Silver Solder Instead Of 95/5 Solder, Add	*10.18*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.99*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.55*	
		For Work In Restricted Working Space, Add	*19.10*	
22 11 16 00-0486	EA	1-1/4" Diameter, Reducing 90 Degree Copper Elbow	100.71	46.00
		For Silver Solder Instead Of 95/5 Solder, Add	*11.92*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.48*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.33*	
		For Work In Restricted Working Space, Add	*20.66*	
22 11 16 00-0487	EA	1-1/2" Diameter, Reducing 90 Degree Copper Elbow	117.20	50.29
		For Silver Solder Instead Of 95/5 Solder, Add	*13.40*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-9.63*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.31*	
		For Work In Restricted Working Space, Add	*22.61*	
22 11 16 00-0488	EA	2" Diameter, Reducing 90 Degree Copper Elbow	140.76	56.39
		For Silver Solder Instead Of 95/5 Solder, Add	*15.48*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.26*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*12.67*	
		For Work In Restricted Working Space, Add	*25.34*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0489		45 Degree Copper Elbows *(22 11 16 00-0458)*		
22 11 16 00-0490	EA	1/4" Diameter, 45 Degree Copper Elbow	32.44	17.34
		For Silver Solder Instead Of 95/5 Solder, Add	*4.22*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.92*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.90*	
		For Street Fitting, Add	*2.58*	
		For Work In Restricted Working Space, Add	*7.80*	
22 11 16 00-0491	EA	3/8" Diameter, 45 Degree Copper Elbow	36.72	20.79
		For Silver Solder Instead Of 95/5 Solder, Add	*4.96*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.40*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.68*	
		For Street Fitting, Add	*2.21*	
		For Work In Restricted Working Space, Add	*9.36*	
22 11 16 00-0492	EA	1/2" Diameter, 45 Degree Copper Elbow	45.05	28.58
		For Silver Solder Instead Of 95/5 Solder, Add	*6.54*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.40*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*6.43*	
		For Street Fitting, Add	*0.87*	
		For Work In Restricted Working Space, Add	*12.86*	
22 11 16 00-0493	EA	3/4" Diameter, 45 Degree Copper Elbow	56.99	35.61
		For Silver Solder Instead Of 95/5 Solder, Add	*8.18*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.51*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.99*	
		For Street Fitting, Add	*1.49*	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0494	EA	1" Diameter, 45 Degree Copper Elbow	72.94	42.49
		For Silver Solder Instead Of 95/5 Solder, Add	*10.01*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.83*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.55*	
		For Street Fitting, Add	*3.71*	
		For Work In Restricted Working Space, Add	*19.10*	
22 11 16 00-0495	EA	1-1/4" Diameter, 45 Degree Copper Elbow	81.43	46.00
		For Silver Solder Instead Of 95/5 Solder, Add	*10.96*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.52*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.33*	
		For Street Fitting, Add	*5.02*	
		For Work In Restricted Working Space, Add	*20.66*	
22 11 16 00-0496	EA	1-1/2" Diameter, 45 Degree Copper Elbow	90.79	50.29
		For Silver Solder Instead Of 95/5 Solder, Add	*12.08*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.31*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.31*	
		For Street Fitting, Add	*6.17*	
		For Work In Restricted Working Space, Add	*22.61*	
22 11 16 00-0497	EA	2" Diameter, 45 Degree Copper Elbow	110.18	56.39
		For Silver Solder Instead Of 95/5 Solder, Add	*13.96*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-9.73*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*12.67*	
		For Work In Restricted Working Space, Add	*25.34*	
22 11 16 00-0498	EA	2-1/2" Diameter, 45 Degree Copper Elbow	148.36	57.43
		For Silver Solder Instead Of 95/5 Solder, Add	*16.03*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.73*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*12.92*	
		For Work In Restricted Working Space, Add	*25.84*	
22 11 16 00-0499	EA	3" Diameter, 45 Degree Copper Elbow	195.21	68.68
		For Silver Solder Instead Of 95/5 Solder, Add	*20.05*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-14.91*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*15.43*	
		For Work In Restricted Working Space, Add	*30.87*	
22 11 16 00-0500	EA	4" Diameter, 45 Degree Copper Elbow	342.83	97.40
		For Silver Solder Instead Of 95/5 Solder, Add	*31.74*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-24.44*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*21.90*	
		For Work In Restricted Working Space, Add	*43.79*	
22 11 16 00-0501	EA	5" Diameter, 45 Degree Copper Elbow	962.21	133.29
		For Silver Solder Instead Of 95/5 Solder, Add	*68.09*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-58.10*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*29.97*	
		For Work In Restricted Working Space, Add	*59.94*	
22 11 16 00-0502	EA	6" Diameter, 45 Degree Copper Elbow	1,492.24	193.95
		For Silver Solder Instead Of 95/5 Solder, Add	*103.69*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-89.15*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*43.61*	
		For Work In Restricted Working Space, Add	*87.22*	
22 11 16 00-0503	EA	8" Diameter, 45 Degree Copper Elbow	4,470.30	258.56
		For Silver Solder Instead Of 95/5 Solder, Add	*262.28*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-242.90*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*58.15*	
		For Work In Restricted Working Space, Add	*116.30*	
22 11 16 00-0504		Straight Copper And Brass Tees *(22 11 16 00-0458)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0505	EA	1/4" Diameter, Straight Copper Tee	46.22	25.99
		For Silver Solder Instead Of 95/5 Solder, Add	*6.21*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.26*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.85*	
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0506	EA	3/8" Diameter, Straight Copper Tee	52.60	31.19
		For Silver Solder Instead Of 95/5 Solder, Add	*7.31*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.97*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.02*	
		For Work In Restricted Working Space, Add	*14.03*	
22 11 16 00-0507	EA	1/2" Diameter, Straight Copper Tee	67.01	43.40
		For Silver Solder Instead Of 95/5 Solder, Add	*9.85*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.60*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.75*	
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0508	EA	3/4" Diameter, Straight Copper Tee	85.43	53.80
		For Silver Solder Instead Of 95/5 Solder, Add	*12.33*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.30*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*12.08*	
		For Work In Restricted Working Space, Add	*24.17*	
22 11 16 00-0509	EA	1" Diameter, Straight Copper Tee	110.80	64.19
		For Silver Solder Instead Of 95/5 Solder, Add	*15.16*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-10.35*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.42*	
		For Work In Restricted Working Space, Add	*28.85*	
22 11 16 00-0510	EA	1-1/4" Diameter, Straight Copper Tee	124.34	69.39
		For Silver Solder Instead Of 95/5 Solder, Add	*16.61*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.41*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*15.59*	
		For Work In Restricted Working Space, Add	*31.19*	
22 11 16 00-0511	EA	1-1/2" Diameter, Straight Copper Tee	143.90	75.37
		For Silver Solder Instead Of 95/5 Solder, Add	*18.50*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-12.85*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*16.96*	
		For Work In Restricted Working Space, Add	*33.92*	
22 11 16 00-0512	EA	2" Diameter, Straight Copper Tee	176.39	84.98
		For Silver Solder Instead Of 95/5 Solder, Add	*21.55*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-15.19*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*19.10*	
		For Work In Restricted Working Space, Add	*38.21*	
22 11 16 00-0513	EA	2-1/2" Diameter, Straight Copper Tee	241.48	86.14
		For Silver Solder Instead Of 95/5 Solder, Add	*25.00*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-18.53*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*19.38*	
		For Work In Restricted Working Space, Add	*38.76*	
22 11 16 00-0514	EA	3" Diameter, Straight Copper Tee	327.05	103.74
		For Silver Solder Instead Of 95/5 Solder, Add	*31.91*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-24.13*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*23.33*	
		For Work In Restricted Working Space, Add	*46.66*	
22 11 16 00-0515	EA	4" Diameter, Straight Copper Tee	632.86	145.25
		For Silver Solder Instead Of 95/5 Solder, Add	*53.42*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-42.53*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*32.66*	
		For Work In Restricted Working Space, Add	*65.33*	
22 11 16 00-0516	EA	5" Diameter, Straight Copper Tee	1,654.91	198.73
		For Silver Solder Instead Of 95/5 Solder, Add	*112.54*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-97.64*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*44.69*	
		For Work In Restricted Working Space, Add	*89.37*	
22 11 16 00-0517	EA	6" Diameter, Straight Copper Tee	2,291.71	291.34
		For Silver Solder Instead Of 95/5 Solder, Add	*158.26*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-136.42*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*65.51*	
		For Work In Restricted Working Space, Add	*131.01*	
22 11 16 00-0518	EA	8" Diameter, Straight Copper Tee	7,737.06	387.89
		For Silver Solder Instead Of 95/5 Solder, Add	*445.00*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-415.93*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*87.22*	
		For Work In Restricted Working Space, Add	*174.44*	
22 11 16 00-0519	EA	1/2" Diameter, Cast Bronze Drop Ear Tee	77.50	43.40
		For Silver Solder Instead Of 95/5 Solder, Add	*10.37*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.12*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.75*	
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0520		Reducing Copper Tees *(22 11 16 00-0458)*		
22 11 16 00-0521	EA	3/8" Diameter, Reducing Copper Tee	53.09	27.68
		For Silver Solder Instead Of 95/5 Solder, Add	*6.81*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.73*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*6.24*	
		For Work In Restricted Working Space, Add	*12.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0522	EA	1/2" Diameter, Reducing Copper Tee	68.61	38.98
		For Silver Solder Instead Of 95/5 Solder, Add	*9.28*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.35*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*8.77*	
		For Work In Restricted Working Space, Add	*17.54*	
22 11 16 00-0523	EA	3/4" Diameter, Reducing Copper Tee	80.53	50.29
		For Silver Solder Instead Of 95/5 Solder, Add	*11.56*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.80*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.31*	
		For Work In Restricted Working Space, Add	*22.61*	
22 11 16 00-0524	EA	1" Diameter, Reducing Copper Tee	107.36	60.68
		For Silver Solder Instead Of 95/5 Solder, Add	*14.46*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-9.92*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*13.64*	
		For Work In Restricted Working Space, Add	*27.29*	
22 11 16 00-0525	EA	1-1/4" Diameter, Reducing Copper Tee	123.65	65.88
		For Silver Solder Instead Of 95/5 Solder, Add	*16.06*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.12*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.81*	
		For Work In Restricted Working Space, Add	*29.63*	
22 11 16 00-0526	EA	1-1/2" Diameter, Reducing Copper Tee	143.04	71.99
		For Silver Solder Instead Of 95/5 Solder, Add	*17.94*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-12.54*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*16.18*	
		For Work In Restricted Working Space, Add	*32.36*	
22 11 16 00-0527	EA	2" Diameter, Reducing Copper Tee	171.73	80.56
		For Silver Solder Instead Of 95/5 Solder, Add	*20.67*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-14.63*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*18.13*	
		For Work In Restricted Working Space, Add	*36.26*	
22 11 16 00-0528	EA	2-1/2" Diameter, Reducing Copper Tee	247.42	83.03
		For Silver Solder Instead Of 95/5 Solder, Add	*24.81*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-18.59*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*18.66*	
		For Work In Restricted Working Space, Add	*37.33*	
22 11 16 00-0529	EA	3" Diameter, Reducing Copper Tee	345.54	95.71
		For Silver Solder Instead Of 95/5 Solder, Add	*31.64*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-24.46*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*21.54*	
		For Work In Restricted Working Space, Add	*43.07*	
22 11 16 00-0530	EA	4" Diameter, Reducing Copper Tee	602.24	118.09
		For Silver Solder Instead Of 95/5 Solder, Add	*47.82*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-38.97*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*26.56*	
		For Work In Restricted Working Space, Add	*53.12*	

22 11 16 00-0531 Copper Couplings *(22 11 16 00-0458)*

22 11 16 00-0532	EA	1/4" Diameter, Copper Coupling	22.26	14.43
		For Silver Solder Instead Of 95/5 Solder, Add	*3.27*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.19*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.24*	
		For Work In Restricted Working Space, Add	*6.47*	
22 11 16 00-0533	EA	3/8" Diameter, Copper Coupling	26.81	17.29
		For Silver Solder Instead Of 95/5 Solder, Add	*3.93*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.64*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.88*	
		For Work In Restricted Working Space, Add	*7.77*	
22 11 16 00-0534	EA	1/2" Diameter, Copper Coupling	36.35	23.65
		For Silver Solder Instead Of 95/5 Solder, Add	*5.38*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.60*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.34*	
		For Work In Restricted Working Space, Add	*10.68*	
22 11 16 00-0535	EA	3/4" Diameter, Copper Coupling	45.77	29.50
		For Silver Solder Instead Of 95/5 Solder, Add	*6.71*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.50*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*6.63*	
		For Work In Restricted Working Space, Add	*13.27*	
22 11 16 00-0536	EA	1" Diameter, Copper Coupling	55.90	35.21
		For Silver Solder Instead Of 95/5 Solder, Add	*8.08*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.44*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.93*	
		For Work In Restricted Working Space, Add	*15.85*	
22 11 16 00-0537	EA	1-1/4" Diameter, Copper Coupling	62.55	38.07
		For Silver Solder Instead Of 95/5 Solder, Add	*8.84*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.99*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*8.57*	
		For Work In Restricted Working Space, Add	*17.15*	
22 11 16 00-0538	EA	1-1/2" Diameter, Copper Coupling	69.69	41.71
		For Silver Solder Instead Of 95/5 Solder, Add	*9.74*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.61*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.38*	
		For Work In Restricted Working Space, Add	*18.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0539	EA	2" Diameter, Copper Coupling	81.98	46.64
		For Silver Solder Instead Of 95/5 Solder, Add	*11.11*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.60*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.52*	
		For Work In Restricted Working Space, Add	*21.03*	
22 11 16 00-0540	EA	2-1/2" Diameter, Copper Coupling	99.07	47.14
		For Silver Solder Instead Of 95/5 Solder, Add	*12.04*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.50*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.62*	
		For Work In Restricted Working Space, Add	*21.25*	
22 11 16 00-0541	EA	3" Diameter, Copper Coupling	126.08	58.39
		For Silver Solder Instead Of 95/5 Solder, Add	*15.07*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-10.69*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*13.15*	
		For Work In Restricted Working Space, Add	*26.29*	
22 11 16 00-0542	EA	4" Diameter, Copper Coupling	208.86	82.68
		For Silver Solder Instead Of 95/5 Solder, Add	*22.86*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-16.65*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*18.63*	
		For Work In Restricted Working Space, Add	*37.26*	
22 11 16 00-0543	EA	5" Diameter, Copper Coupling	356.29	119.76
		For Silver Solder Instead Of 95/5 Solder, Add	*35.80*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-26.81*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*26.97*	
		For Work In Restricted Working Space, Add	*53.95*	
22 11 16 00-0544	EA	6" Diameter, Copper Coupling	553.29	174.33
		For Silver Solder Instead Of 95/5 Solder, Add	*53.83*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-40.75*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*39.25*	
		For Work In Restricted Working Space, Add	*78.50*	
22 11 16 00-0545	EA	8" Diameter, Copper Coupling	1,294.20	232.36
		For Silver Solder Instead Of 95/5 Solder, Add	*99.60*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-82.15*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*52.33*	
		For Work In Restricted Working Space, Add	*104.67*	
22 11 16 00-0546		**Reducing Copper Couplings** *(22 11 16 00-0458)*		
22 11 16 00-0547	EA	3/8" Diameter, Reducing Copper Coupling	25.23	15.86
		For Silver Solder Instead Of 95/5 Solder, Add	*3.63*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.45*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.56*	
		For Work In Restricted Working Space, Add	*7.12*	
22 11 16 00-0548	EA	1/2" Diameter, Reducing Copper Coupling	32.33	20.54
		For Silver Solder Instead Of 95/5 Solder, Add	*4.69*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.15*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.61*	
		For Work In Restricted Working Space, Add	*9.23*	
22 11 16 00-0549	EA	3/4" Diameter, Reducing Copper Coupling	42.63	26.64
		For Silver Solder Instead Of 95/5 Solder, Add	*6.12*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.13*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.99*	
		For Work In Restricted Working Space, Add	*11.97*	
22 11 16 00-0550	EA	1" Diameter, Reducing Copper Coupling	53.47	32.36
		For Silver Solder Instead Of 95/5 Solder, Add	*7.53*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.10*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.28*	
		For Work In Restricted Working Space, Add	*14.56*	
22 11 16 00-0551	EA	1-1/4" Diameter, Reducing Copper Coupling	61.88	36.64
		For Silver Solder Instead Of 95/5 Solder, Add	*8.60*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.84*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*8.25*	
		For Work In Restricted Working Space, Add	*16.50*	
22 11 16 00-0552	EA	1-1/2" Diameter, Reducing Copper Coupling	71.24	39.89
		For Silver Solder Instead Of 95/5 Solder, Add	*9.55*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.56*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*8.98*	
		For Work In Restricted Working Space, Add	*17.96*	
22 11 16 00-0553	EA	2" Diameter, Reducing Copper Coupling	83.93	44.18
		For Silver Solder Instead Of 95/5 Solder, Add	*10.83*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.51*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.95*	
		For Work In Restricted Working Space, Add	*19.90*	
22 11 16 00-0554	EA	2-1/2" Diameter, Reducing Copper Coupling	109.59	45.10
		For Silver Solder Instead Of 95/5 Solder, Add	*12.25*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.86*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.15*	
		For Work In Restricted Working Space, Add	*20.31*	
22 11 16 00-0555	EA	3" Diameter, Reducing Copper Coupling	131.03	52.76
		For Silver Solder Instead Of 95/5 Solder, Add	*14.48*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-10.51*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.89*	
		For Work In Restricted Working Space, Add	*23.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0556	EA	4" Diameter, Reducing Copper Coupling	208.75	70.59
		For Silver Solder Instead Of 95/5 Solder, Add	*21.03*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-15.73*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*15.89*	
		For Work In Restricted Working Space, Add	*31.78*	
22 11 16 00-0557	EA	5" Diameter, Reducing Copper Coupling	550.40	98.82
		For Silver Solder Instead Of 95/5 Solder, Add	*42.35*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-34.94*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*22.25*	
		For Work In Restricted Working Space, Add	*44.49*	
22 11 16 00-0558	EA	6" Diameter, Reducing Copper Coupling	811.89	125.98
		For Silver Solder Instead Of 95/5 Solder, Add	*59.52*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-50.06*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*28.38*	
		For Work In Restricted Working Space, Add	*56.77*	
22 11 16 00-0559	EA	8" Diameter, Reducing Copper Coupling	1,625.11	203.16
		For Silver Solder Instead Of 95/5 Solder, Add	*111.77*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-96.51*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*45.77*	
		For Work In Restricted Working Space, Add	*91.53*	
22 11 16 00-0560		**Male Copper Adapters** *(22 11 16 00-0458)*		
22 11 16 00-0561	EA	1/4" Diameter, Male Copper Adapter	38.19	16.89
		For Silver Solder Instead Of 95/5 Solder, Add	*4.51*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.21*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.90*	
		For Work In Restricted Working Space, Add	*7.80*	
22 11 16 00-0562	EA	3/8" Diameter, Male Copper Adapter	37.27	20.79
		For Silver Solder Instead Of 95/5 Solder, Add	*4.98*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.42*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.68*	
		For Work In Restricted Working Space, Add	*9.36*	
22 11 16 00-0563	EA	1/2" Diameter, Male Copper Adapter	41.45	25.99
		For Silver Solder Instead Of 95/5 Solder, Add	*5.97*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.02*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.85*	
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0564	EA	3/4" Diameter, Male Copper Adapter	52.26	32.49
		For Silver Solder Instead Of 95/5 Solder, Add	*7.42*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.02*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.21*	
		For Work In Restricted Working Space, Add	*14.42*	
22 11 16 00-0565	EA	1" Diameter, Male Copper Adapter	66.49	37.68
		For Silver Solder Instead Of 95/5 Solder, Add	*8.91*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.12*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*8.38*	
		For Work In Restricted Working Space, Add	*16.76*	
22 11 16 00-0566	EA	1-1/4" Diameter, Male Copper Adapter	80.43	42.88
		For Silver Solder Instead Of 95/5 Solder, Add	*10.52*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.27*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.75*	
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0567	EA	1-1/2" Diameter, Male Copper Adapter	92.16	49.38
		For Silver Solder Instead Of 95/5 Solder, Add	*12.02*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.31*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.11*	
		For Work In Restricted Working Space, Add	*22.22*	
22 11 16 00-0568	EA	2" Diameter, Male Copper Adapter	125.48	63.02
		For Silver Solder Instead Of 95/5 Solder, Add	*15.76*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.02*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.23*	
		For Work In Restricted Working Space, Add	*28.46*	
22 11 16 00-0569	EA	2-1/2" Diameter, Male Copper Adapter	234.82	81.86
		For Silver Solder Instead Of 95/5 Solder, Add	*23.96*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-17.85*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*18.32*	
		For Work In Restricted Working Space, Add	*36.64*	
22 11 16 00-0570	EA	3" Diameter, Male Copper Adapter	311.90	109.17
		For Silver Solder Instead Of 95/5 Solder, Add	*31.87*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-23.73*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*24.41*	
		For Work In Restricted Working Space, Add	*48.82*	
22 11 16 00-0571	EA	4" Diameter, Male Copper Adapter	468.29	153.15
		For Silver Solder Instead Of 95/5 Solder, Add	*46.39*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-34.90*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*34.46*	
		For Work In Restricted Working Space, Add	*68.92*	
22 11 16 00-0572		**Female Copper Adapters** *(22 11 16 00-0458)*		
22 11 16 00-0573	EA	1/4" Diameter, Female Copper Adapter	33.78	16.89
		For Silver Solder Instead Of 95/5 Solder, Add	*4.29*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.99*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.90*	
		For Work In Restricted Working Space, Add	*7.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0574	EA	3/8" Diameter, Female Copper Adapter	39.35	20.79
		For Silver Solder Instead Of 95/5 Solder, Add	*5.09*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.53*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.68*	
		For Work In Restricted Working Space, Add	*9.36*	
22 11 16 00-0575	EA	1/2" Diameter, Female Copper Adapter	42.93	25.99
		For Silver Solder Instead Of 95/5 Solder, Add	*6.04*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.10*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.85*	
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0576	EA	3/4" Diameter, Female Copper Adapter	53.47	32.49
		For Silver Solder Instead Of 95/5 Solder, Add	*7.48*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.08*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.21*	
		For Work In Restricted Working Space, Add	*14.42*	
22 11 16 00-0577	EA	1" Diameter, Female Copper Adapter	68.20	37.68
		For Silver Solder Instead Of 95/5 Solder, Add	*9.00*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.20*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*8.38*	
		For Work In Restricted Working Space, Add	*16.76*	
22 11 16 00-0578	EA	1-1/4" Diameter, Female Copper Adapter	83.06	42.88
		For Silver Solder Instead Of 95/5 Solder, Add	*10.65*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.40*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.75*	
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0579	EA	1-1/2" Diameter, Female Copper Adapter	102.39	49.38
		For Silver Solder Instead Of 95/5 Solder, Add	*12.53*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.82*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.11*	
		For Work In Restricted Working Space, Add	*22.22*	
22 11 16 00-0580	EA	2" Diameter, Female Copper Adapter	133.27	63.02
		For Silver Solder Instead Of 95/5 Solder, Add	*16.15*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.41*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.23*	
		For Work In Restricted Working Space, Add	*28.46*	
22 11 16 00-0581	EA	2-1/2" Diameter, Female Copper Adapter	271.46	75.37
		For Silver Solder Instead Of 95/5 Solder, Add	*24.82*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-19.20*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*16.87*	
		For Work In Restricted Working Space, Add	*33.74*	
22 11 16 00-0582	EA	3" Diameter, Female Copper Adapter	430.56	109.17
		For Silver Solder Instead Of 95/5 Solder, Add	*37.80*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-29.66*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*24.41*	
		For Work In Restricted Working Space, Add	*48.82*	

22 11 16 00-0583 Wrot Copper, Solder Union *(22 11 16 00-0458)*

22 11 16 00-0584	EA	1/4" Diameter, Wrot Copper, Solder Union	49.95	20.79
		For Silver Solder Instead Of 95/5 Solder, Add	*5.62*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.06*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.68*	
		For Work In Restricted Working Space, Add	*9.36*	
22 11 16 00-0585	EA	3/8" Diameter, Wrot Copper, Solder Union	57.01	25.08
		For Silver Solder Instead Of 95/5 Solder, Add	*6.62*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.73*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.65*	
		For Work In Restricted Working Space, Add	*11.30*	
22 11 16 00-0586	EA	1/2" Diameter, Wrot Copper, Solder Union	58.72	31.19
		For Silver Solder Instead Of 95/5 Solder, Add	*7.61*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.28*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.02*	
		For Work In Restricted Working Space, Add	*14.03*	
22 11 16 00-0587	EA	3/4" Diameter, Wrot Copper, Solder Union	67.96	35.61
		For Silver Solder Instead Of 95/5 Solder, Add	*8.73*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.06*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.99*	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0588	EA	1" Diameter, Wrot Copper, Solder Union	88.91	42.49
		For Silver Solder Instead Of 95/5 Solder, Add	*10.81*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.63*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.55*	
		For Work In Restricted Working Space, Add	*19.10*	
22 11 16 00-0589	EA	1-1/4" Diameter, Wrot Copper, Solder Union	106.72	46.78
		For Silver Solder Instead Of 95/5 Solder, Add	*12.35*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.84*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.53*	
		For Work In Restricted Working Space, Add	*21.05*	
22 11 16 00-0590	EA	1-1/2" Diameter, Wrot Copper, Solder Union	129.51	51.98
		For Silver Solder Instead Of 95/5 Solder, Add	*14.27*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-10.37*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.70*	
		For Work In Restricted Working Space, Add	*23.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0591	EA	2" Diameter, Wrot Copper, Solder Union	181.42	62.37
		For Silver Solder Instead Of 95/5 Solder, Add	*18.43*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-13.75*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.03*	
		For Work In Restricted Working Space, Add	*28.07*	
22 11 16 00-0592	EA	2-1/2" Diameter, Wrot Copper, Solder Union	342.48	68.68
		For Silver Solder Instead Of 95/5 Solder, Add	*27.41*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-22.27*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*15.43*	
		For Work In Restricted Working Space, Add	*30.87*	
22 11 16 00-0593	EA	3" Diameter, Wrot Copper, Solder Union	765.96	97.40
		For Silver Solder Instead Of 95/5 Solder, Add	*52.90*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-45.60*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*21.90*	
		For Work In Restricted Working Space, Add	*43.79*	
22 11 16 00-0594		**Cast Bronze, Solder Union** *(22 11 16 00-0458)*		
22 11 16 00-0595	EA	1/4" Diameter, Cast Bronze, Solder Union	56.86	20.79
		For Silver Solder Instead Of 95/5 Solder, Add	*5.96*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.40*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.68*	
		For Work In Restricted Working Space, Add	*9.36*	
22 11 16 00-0596	EA	3/8" Diameter, Cast Bronze, Solder Union	63.53	25.08
		For Silver Solder Instead Of 95/5 Solder, Add	*6.94*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.06*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.65*	
		For Work In Restricted Working Space, Add	*11.30*	
22 11 16 00-0597	EA	1/2" Diameter, Cast Bronze, Solder Union	60.54	31.19
		For Silver Solder Instead Of 95/5 Solder, Add	*7.71*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.37*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.02*	
		For Work In Restricted Working Space, Add	*14.03*	
22 11 16 00-0598	EA	3/4" Diameter, Cast Bronze, Solder Union	70.53	35.61
		For Silver Solder Instead Of 95/5 Solder, Add	*8.85*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.19*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.99*	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0599	EA	1" Diameter, Cast Bronze, Solder Union	93.37	42.49
		For Silver Solder Instead Of 95/5 Solder, Add	*11.04*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.85*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.55*	
		For Work In Restricted Working Space, Add	*19.10*	
22 11 16 00-0600	EA	1-1/4" Diameter, Cast Bronze, Solder Union	118.91	46.78
		For Silver Solder Instead Of 95/5 Solder, Add	*12.96*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-9.45*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.53*	
		For Work In Restricted Working Space, Add	*21.05*	
22 11 16 00-0601	EA	1-1/2" Diameter, Cast Bronze, Solder Union	142.22	51.98
		For Silver Solder Instead Of 95/5 Solder, Add	*14.91*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.01*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.70*	
		For Work In Restricted Working Space, Add	*23.39*	
22 11 16 00-0602	EA	2" Diameter, Cast Bronze, Solder Union	203.06	62.37
		For Silver Solder Instead Of 95/5 Solder, Add	*19.51*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-14.83*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.03*	
		For Work In Restricted Working Space, Add	*28.07*	
22 11 16 00-0603	EA	2-1/2" Diameter, Cast Bronze, Solder Union	342.46	68.68
		For Silver Solder Instead Of 95/5 Solder, Add	*27.41*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-22.27*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*15.43*	
		For Work In Restricted Working Space, Add	*30.87*	
22 11 16 00-0604	EA	3" Diameter, Cast Bronze, Solder Union	765.96	97.40
		For Silver Solder Instead Of 95/5 Solder, Add	*52.90*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-45.60*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*21.90*	
		For Work In Restricted Working Space, Add	*43.79*	
22 11 16 00-0605		**Cast Bronze, Solder X Female Threaded Union** *(22 11 16 00-0458)*		
22 11 16 00-0606	EA	1/4" Diameter, Cast Bronze, Solder X Female Threaded Union	66.20	20.79
		For Silver Solder Instead Of 95/5 Solder, Add	*6.43*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.87*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.68*	
		For Work In Restricted Working Space, Add	*9.36*	
22 11 16 00-0607	EA	3/8" Diameter, Cast Bronze, Solder X Female Threaded Union	73.91	25.08
		For Silver Solder Instead Of 95/5 Solder, Add	*7.46*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.58*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.65*	
		For Work In Restricted Working Space, Add	*11.30*	
22 11 16 00-0608	EA	1/2" Diameter, Cast Bronze, Solder X Female Threaded Union	75.55	31.19
		For Silver Solder Instead Of 95/5 Solder, Add	*8.46*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.12*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.02*	
		For Work In Restricted Working Space, Add	*14.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0609	EA	3/4" Diameter, Cast Bronze, Solder X Female Threaded Union	92.49	35.61
		For Silver Solder Instead Of 95/5 Solder, Add	*9.95*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.29*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.99*	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0610	EA	1" Diameter, Cast Bronze, Solder X Female Threaded Union	145.25	42.49
		For Silver Solder Instead Of 95/5 Solder, Add	*13.63*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-10.45*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.55*	
		For Work In Restricted Working Space, Add	*19.10*	
22 11 16 00-0611	EA	1-1/4" Diameter, Cast Bronze, Solder X Female Threaded Union	222.21	46.78
		For Silver Solder Instead Of 95/5 Solder, Add	*18.13*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-14.62*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.53*	
		For Work In Restricted Working Space, Add	*21.05*	
22 11 16 00-0612	EA	1-1/2" Diameter, Cast Bronze, Solder X Female Threaded Union	270.58	51.98
		For Silver Solder Instead Of 95/5 Solder, Add	*21.33*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-17.43*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.70*	
		For Work In Restricted Working Space, Add	*23.39*	
22 11 16 00-0613	EA	2" Diameter, Cast Bronze, Solder X Female Threaded Union	419.60	62.37
		For Silver Solder Instead Of 95/5 Solder, Add	*30.34*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-25.66*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.03*	
		For Work In Restricted Working Space, Add	*28.07*	
22 11 16 00-0614	EA	2-1/2" Diameter, Cast Bronze, Solder X Female Threaded Union	720.95	68.68
		For Silver Solder Instead Of 95/5 Solder, Add	*46.34*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-41.19*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*15.43*	
		For Work In Restricted Working Space, Add	*30.87*	

22 11 16 00-0615 Cast Bronze, Solder X Male Threaded Union *(22 11 16 00-0458)*

22 11 16 00-0616	EA	1/4" Diameter, Cast Bronze, Solder X Male Threaded Union	57.86	20.79
		For Silver Solder Instead Of 95/5 Solder, Add	*6.01*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.45*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.68*	
		For Work In Restricted Working Space, Add	*9.36*	
22 11 16 00-0617	EA	3/8" Diameter, Cast Bronze, Solder X Male Threaded Union	68.81	25.08
		For Silver Solder Instead Of 95/5 Solder, Add	*7.21*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.32*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.65*	
		For Work In Restricted Working Space, Add	*11.30*	
22 11 16 00-0618	EA	1/2" Diameter, Cast Bronze, Solder X Male Threaded Union	69.49	31.19
		For Silver Solder Instead Of 95/5 Solder, Add	*8.15*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.81*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.02*	
		For Work In Restricted Working Space, Add	*14.03*	
22 11 16 00-0619	EA	3/4" Diameter, Cast Bronze, Solder X Male Threaded Union	87.36	35.61
		For Silver Solder Instead Of 95/5 Solder, Add	*9.70*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.03*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*7.99*	
		For Work In Restricted Working Space, Add	*15.98*	
22 11 16 00-0620	EA	1" Diameter, Cast Bronze, Solder X Male Threaded Union	147.60	42.49
		For Silver Solder Instead Of 95/5 Solder, Add	*13.75*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-10.56*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*9.55*	
		For Work In Restricted Working Space, Add	*19.10*	
22 11 16 00-0621	EA	1-1/4" Diameter, Cast Bronze, Solder X Male Threaded Union	174.29	46.78
		For Silver Solder Instead Of 95/5 Solder, Add	*15.73*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-12.22*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*10.53*	
		For Work In Restricted Working Space, Add	*21.05*	
22 11 16 00-0622	EA	1-1/2" Diameter, Cast Bronze, Solder X Male Threaded Union	187.33	51.98
		For Silver Solder Instead Of 95/5 Solder, Add	*17.16*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-13.27*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.70*	
		For Work In Restricted Working Space, Add	*23.39*	
22 11 16 00-0623	EA	2" Diameter, Cast Bronze, Solder X Male Threaded Union	261.54	62.37
		For Silver Solder Instead Of 95/5 Solder, Add	*22.43*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-17.76*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.03*	
		For Work In Restricted Working Space, Add	*28.07*	
22 11 16 00-0624	EA	2-1/2" Diameter, Cast Bronze, Solder X Male Threaded Union	595.16	68.68
		For Silver Solder Instead Of 95/5 Solder, Add	*40.05*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-34.90*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*15.43*	
		For Work In Restricted Working Space, Add	*30.87*	

22 11 16 00-0625 Copper Caps *(22 11 16 00-0458)*

22 11 16 00-0626	EA	1/4" Diameter, Copper Cap	9.62	5.71
		For Silver Solder Instead Of 95/5 Solder, Add	*1.34*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-0.91*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*1.29*	
		For Work In Restricted Working Space, Add	*2.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0627	EA	3/8" Diameter, Copper Cap	11.97	6.76
		For Silver Solder Instead Of 95/5 Solder, Add	*1.63*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-1.11*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*1.54*	
		For Work In Restricted Working Space, Add	*3.09*	
22 11 16 00-0628	EA	1/2" Diameter, Copper Cap	15.01	9.36
		For Silver Solder Instead Of 95/5 Solder, Add	*2.17*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-1.46*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*2.12*	
		For Work In Restricted Working Space, Add	*4.25*	
22 11 16 00-0629	EA	3/4" Diameter, Copper Cap	19.19	11.56
		For Silver Solder Instead Of 95/5 Solder, Add	*2.72*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-1.84*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*2.64*	
		For Work In Restricted Working Space, Add	*5.27*	
22 11 16 00-0630	EA	1" Diameter, Copper Cap	24.79	13.90
		For Silver Solder Instead Of 95/5 Solder, Add	*3.34*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.29*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.15*	
		For Work In Restricted Working Space, Add	*6.30*	
22 11 16 00-0631	EA	1-1/4" Diameter, Copper Cap	27.79	14.94
		For Silver Solder Instead Of 95/5 Solder, Add	*3.66*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.53*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.41*	
		For Work In Restricted Working Space, Add	*6.82*	
22 11 16 00-0632	EA	1-1/2" Diameter, Copper Cap	32.24	16.37
		For Silver Solder Instead Of 95/5 Solder, Add	*4.10*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.86*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.73*	
		For Work In Restricted Working Space, Add	*7.46*	
22 11 16 00-0633	EA	2" Diameter, Copper Cap	39.29	16.99
		For Silver Solder Instead Of 95/5 Solder, Add	*4.53*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.25*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*3.85*	
		For Work In Restricted Working Space, Add	*7.70*	
22 11 16 00-0634	EA	2-1/2" Diameter, Copper Cap	77.34	19.86
		For Silver Solder Instead Of 95/5 Solder, Add	*6.88*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.37*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*4.52*	
		For Work In Restricted Working Space, Add	*9.05*	
22 11 16 00-0635	EA	3" Diameter, Copper Cap	106.17	25.49
		For Silver Solder Instead Of 95/5 Solder, Add	*9.17*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-7.24*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*5.79*	
		For Work In Restricted Working Space, Add	*11.57*	
22 11 16 00-0636	EA	4" Diameter, Copper Cap	185.95	38.52
		For Silver Solder Instead Of 95/5 Solder, Add	*15.14*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-12.22*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*8.76*	
		For Work In Restricted Working Space, Add	*17.52*	
22 11 16 00-0637	EA	5" Diameter, Cast Bronze Cap	986.60	59.35
		For Silver Solder Instead Of 95/5 Solder, Add	*58.32*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-53.83*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*13.49*	
		For Work In Restricted Working Space, Add	*26.98*	
22 11 16 00-0638	EA	6" Diameter, Cast Bronze Cap	1,917.33	86.38
		For Silver Solder Instead Of 95/5 Solder, Add	*108.95*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-102.41*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*19.62*	
		For Work In Restricted Working Space, Add	*39.25*	
22 11 16 00-0639	EA	8" Diameter, Cast Bronze Cap	2,441.79	115.10
		For Silver Solder Instead Of 95/5 Solder, Add	*139.53*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-130.81*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*26.17*	
		For Work In Restricted Working Space, Add	*52.34*	
22 11 16 00-0640		Copper Crosses *(22 11 16 00-0458)*		
22 11 16 00-0641	EA	1/2" Diameter, Copper Cross	92.54	52.64
		For Silver Solder Instead Of 95/5 Solder, Add	*12.52*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.58*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.85*	
		For Work In Restricted Working Space, Add	*23.69*	
22 11 16 00-0642	EA	3/4" Diameter, Copper Cross	124.48	65.45
		For Silver Solder Instead Of 95/5 Solder, Add	*16.04*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.13*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.72*	
		For Work In Restricted Working Space, Add	*29.43*	
22 11 16 00-0643	EA	1" Diameter, Copper Cross	162.04	78.13
		For Silver Solder Instead Of 95/5 Solder, Add	*19.83*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-13.96*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*17.59*	
		For Work In Restricted Working Space, Add	*35.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0644	EA	1-1/4" Diameter, Copper Cross	191.21	84.59
		For Silver Solder Instead Of 95/5 Solder, Add	*22.24*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-15.90*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*19.02*	
		For Work In Restricted Working Space, Add	*38.05*	
22 11 16 00-0645	EA	1-1/2" Diameter, Copper Cross	230.55	92.48
		For Silver Solder Instead Of 95/5 Solder, Add	*25.41*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-18.47*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*20.82*	
		For Work In Restricted Working Space, Add	*41.64*	
22 11 16 00-0646	EA	2" Diameter, Copper Cross	328.88	103.74
		For Silver Solder Instead Of 95/5 Solder, Add	*32.00*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-24.22*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*23.33*	
		For Work In Restricted Working Space, Add	*46.66*	
22 11 16 00-0647	EA	2-1/2" Diameter, Copper Cross	571.88	114.86
		For Silver Solder Instead Of 95/5 Solder, Add	*45.82*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-37.21*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*25.84*	
		For Work In Restricted Working Space, Add	*51.69*	

22 11 16 00-0648 Cast Bronze Crosses *(22 11 16 00-0458)*

22 11 16 00-0649	EA	3/8" Diameter, Cast Bronze Cross	75.52	38.29
		For Silver Solder Instead Of 95/5 Solder, Add	*9.52*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-6.65*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*8.61*	
		For Work In Restricted Working Space, Add	*17.23*	
22 11 16 00-0650	EA	1/2" Diameter, Cast Bronze Cross	95.25	52.64
		For Silver Solder Instead Of 95/5 Solder, Add	*12.66*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.71*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*11.85*	
		For Work In Restricted Working Space, Add	*23.69*	
22 11 16 00-0651	EA	3/4" Diameter, Cast Bronze Cross	129.75	65.45
		For Silver Solder Instead Of 95/5 Solder, Add	*16.30*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-11.39*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*14.72*	
		For Work In Restricted Working Space, Add	*29.43*	
22 11 16 00-0652	EA	1" Diameter, Cast Bronze Cross	170.99	78.13
		For Silver Solder Instead Of 95/5 Solder, Add	*20.27*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-14.41*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*17.59*	
		For Work In Restricted Working Space, Add	*35.18*	
22 11 16 00-0653	EA	1-1/4" Diameter, Cast Bronze Cross	204.08	84.59
		For Silver Solder Instead Of 95/5 Solder, Add	*22.89*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-16.55*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*19.02*	
		For Work In Restricted Working Space, Add	*38.05*	
22 11 16 00-0654	EA	1-1/2" Diameter, Cast Bronze Cross	248.90	92.48
		For Silver Solder Instead Of 95/5 Solder, Add	*26.32*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-19.38*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*20.82*	
		For Work In Restricted Working Space, Add	*41.64*	
22 11 16 00-0655	EA	2" Diameter, Cast Bronze Cross	396.23	103.74
		For Silver Solder Instead Of 95/5 Solder, Add	*35.36*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-27.59*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*23.33*	
		For Work In Restricted Working Space, Add	*46.66*	
22 11 16 00-0656	EA	2-1/2" Diameter, Cast Bronze Cross	651.80	114.86
		For Silver Solder Instead Of 95/5 Solder, Add	*49.82*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-41.20*	
		For Brazed Fittings Instead Of 95/5 Solder, Add	*25.84*	
		For Work In Restricted Working Space, Add	*51.69*	

22 11 16 00-0657 Flexible Corrugated Copper Supply Line *(22 11 16 00-0458)*

22 11 16 00-0658	EA	3/4" Diameter Threaded x 3/4" Diameter Solder x 18" Long, Flexible Corrugated Copper Supply Line	97.73	35.61
22 11 16 00-0659	EA	3/4" Diameter Threaded x 3/4" Diameter Solder x 24" Long, Flexible Corrugated Copper Supply Line	103.08	35.61
22 11 16 00-0660	EA	3/4" Diameter Threaded x 3/4" Diameter Threaded x 12" Long, Flexible Corrugated Copper Supply Line	88.11	35.61
22 11 16 00-0661	EA	3/4" Diameter Threaded x 3/4" Diameter Threaded x 15" Long, Flexible Corrugated Copper Supply Line	94.17	35.61
22 11 16 00-0662	EA	3/4" Diameter Threaded x 3/4" Diameter Threaded x 18" Long, Flexible Corrugated Copper Supply Line	99.52	35.61
22 11 16 00-0663	EA	3/4" Diameter Threaded x 3/4" Diameter Threaded x 24" Long, Flexible Corrugated Copper Supply Line	103.08	35.61

22 11 16 00-0664 Crimped Copper Fittings *(22 11 16 00-0390)*

Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.

22 11 16 00-0665 Crimped Copper 90 Degree Elbows *(22 11 16 00-0664)*

22 11 16 00-0666	EA	1/2" Diameter, Crimped Copper 90 Degree Elbow	26.81	15.60
		For Work In Restricted Working Space, Add	*7.02*	
22 11 16 00-0667	EA	3/4" Diameter, Crimped Copper 90 Degree Elbow	32.44	17.80
		For Work In Restricted Working Space, Add	*7.99*	
22 11 16 00-0668	EA	1" Diameter, Crimped Copper 90 Degree Elbow	43.43	21.18
		For Work In Restricted Working Space, Add	*9.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0669	EA	1-1/4" Diameter, Crimped Copper 90 Degree Elbow	58.51	23.39
		For Work In Restricted Working Space, Add	*10.52*	
22 11 16 00-0670	EA	1-1/2" Diameter, Crimped Copper 90 Degree Elbow	83.35	25.99
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0671	EA	2" Diameter, Crimped Copper 90 Degree Elbow	108.44	31.19
		For Work In Restricted Working Space, Add	*14.03*	
22 11 16 00-0672	EA	2-1/2" Diameter, Crimped Copper 90 Degree Elbow	233.68	36.38
		For Work In Restricted Working Space, Add	*16.37*	
22 11 16 00-0673	EA	3" Diameter, Crimped Copper 90 Degree Elbow	290.32	43.27
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0674	EA	4" Diameter, Crimped Copper 90 Degree Elbow	364.56	57.18
		For Work In Restricted Working Space, Add	*25.73*	

22 11 16 00-0675 Crimped Copper 45 Degree Elbows *(22 11 16 00-0664)*

22 11 16 00-0676	EA	1/2" Diameter, Crimped Copper 45 Degree Elbow	27.37	15.60
		For Work In Restricted Working Space, Add	*7.02*	
22 11 16 00-0677	EA	3/4" Diameter, Crimped Copper 45 Degree Elbow	31.53	17.80
		For Work In Restricted Working Space, Add	*7.99*	
22 11 16 00-0678	EA	1" Diameter, Crimped Copper 45 Degree Elbow	47.54	21.18
		For Work In Restricted Working Space, Add	*9.55*	
22 11 16 00-0679	EA	1-1/4" Diameter, Crimped Copper 45 Degree Elbow	57.61	23.39
		For Work In Restricted Working Space, Add	*10.52*	
22 11 16 00-0680	EA	1-1/2" Diameter, Crimped Copper 45 Degree Elbow	75.50	25.99
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0681	EA	2" Diameter, Crimped Copper 45 Degree Elbow	97.86	31.19
		For Work In Restricted Working Space, Add	*14.03*	
22 11 16 00-0682	EA	2-1/2" Diameter, Crimped Copper 45 Degree Elbow	172.89	36.38
		For Work In Restricted Working Space, Add	*16.37*	
22 11 16 00-0683	EA	3" Diameter, Crimped Copper 45 Degree Elbow	234.01	43.27
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0684	EA	4" Diameter, Crimped Copper 45 Degree Elbow	320.52	57.18
		For Work In Restricted Working Space, Add	*25.73*	

22 11 16 00-0685 Crimped Copper Straight Tees *(22 11 16 00-0664)*

22 11 16 00-0686	EA	1/2" Diameter, Crimped Copper Straight Tee	40.31	23.39
		For Work In Restricted Working Space, Add	*10.52*	
22 11 16 00-0687	EA	3/4" Diameter, Crimped Copper Straight Tee	55.34	30.80
		For Work In Restricted Working Space, Add	*13.84*	
22 11 16 00-0688	EA	1" Diameter, Crimped Copper Straight Tee	67.93	34.18
		For Work In Restricted Working Space, Add	*15.40*	
22 11 16 00-0689	EA	1-1/4" Diameter, Crimped Copper Straight Tee	80.73	35.08
		For Work In Restricted Working Space, Add	*15.79*	
22 11 16 00-0690	EA	1-1/2" Diameter, Crimped Copper Straight Tee	114.38	39.89
		For Work In Restricted Working Space, Add	*17.93*	
22 11 16 00-0691	EA	2" Diameter, Crimped Copper Straight Tee	137.63	46.78
		For Work In Restricted Working Space, Add	*21.05*	
22 11 16 00-0692	EA	2-1/2" Diameter, Crimped Copper Straight Tee	303.16	54.57
		For Work In Restricted Working Space, Add	*24.56*	
22 11 16 00-0693	EA	3" Diameter, Crimped Copper Straight Tee	374.06	64.97
		For Work In Restricted Working Space, Add	*29.24*	
22 11 16 00-0694	EA	4" Diameter, Crimped Copper Straight Tee	516.77	85.76
		For Work In Restricted Working Space, Add	*38.59*	

22 11 16 00-0695 Crimped Copper Reducing Tees *(22 11 16 00-0664)*

22 11 16 00-0696	EA	3/4" Diameter, Crimped Copper Reducing Tee	47.61	22.22
		For Work In Restricted Working Space, Add	*10.02*	
22 11 16 00-0697	EA	1" Diameter, Crimped Copper Reducing Tee	69.05	29.24
		For Work In Restricted Working Space, Add	*13.14*	
22 11 16 00-0698	EA	1-1/4" Diameter, Crimped Copper Reducing Tee	74.44	32.49
		For Work In Restricted Working Space, Add	*14.62*	
22 11 16 00-0699	EA	1-1/2" Diameter, Crimped Copper Reducing Tee	98.49	33.39
		For Work In Restricted Working Space, Add	*15.01*	
22 11 16 00-0700	EA	2" Diameter, Crimped Copper Reducing Tee	118.11	37.81
		For Work In Restricted Working Space, Add	*17.04*	
22 11 16 00-0701	EA	2-1/2" Diameter, Crimped Copper Reducing Tee	324.93	42.88
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0702	EA	3" Diameter, Crimped Copper Reducing Tee	396.21	51.98
		For Work In Restricted Working Space, Add	*23.39*	
22 11 16 00-0703	EA	4" Diameter, Crimped Copper Reducing Tee	466.01	69.26
		For Work In Restricted Working Space, Add	*31.19*	

22 11 16 00-0704 Crimped Copper Couplings *(22 11 16 00-0664)*

22 11 16 00-0705	EA	1/2" Diameter, Crimped Copper Coupling	26.47	15.60
		For Work In Restricted Working Space, Add	*7.02*	
22 11 16 00-0706	EA	3/4" Diameter, Crimped Copper Coupling	31.31	17.80
		For Work In Restricted Working Space, Add	*7.99*	
22 11 16 00-0707	EA	1" Diameter, Crimped Copper Coupling	41.27	21.18
		For Work In Restricted Working Space, Add	*9.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0708	EA	1-1/4" Diameter, Crimped Copper Coupling	46.80	23.39
		For Work In Restricted Working Space, Add	*10.52*	
22 11 16 00-0709	EA	1-1/2" Diameter, Crimped Copper Coupling	60.82	25.99
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0710	EA	2" Diameter, Crimped Copper Coupling	74.66	31.19
		For Work In Restricted Working Space, Add	*14.03*	
22 11 16 00-0711	EA	2-1/2" Diameter, Crimped Copper Coupling	143.78	36.38
		For Work In Restricted Working Space, Add	*16.37*	
22 11 16 00-0712	EA	3" Diameter, Crimped Copper Coupling	178.58	43.27
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0713	EA	4" Diameter, Crimped Copper Coupling	243.51	57.18
		For Work In Restricted Working Space, Add	*25.73*	

22 11 16 00-0714 Crimped Copper Reducing Couplings *(22 11 16 00-0664)*

22 11 16 00-0715	EA	3/4" Diameter, Crimped Copper Reducing Coupling	36.22	14.81
		For Work In Restricted Working Space, Add	*6.67*	
22 11 16 00-0716	EA	1" Diameter, Crimped Copper Reducing Coupling	41.38	16.89
		For Work In Restricted Working Space, Add	*7.60*	
22 11 16 00-0717	EA	1-1/4" Diameter, Crimped Copper Reducing Coupling	53.60	20.14
		For Work In Restricted Working Space, Add	*9.08*	
22 11 16 00-0718	EA	1-1/2" Diameter, Crimped Copper Reducing Coupling	67.74	22.22
		For Work In Restricted Working Space, Add	*10.02*	
22 11 16 00-0719	EA	2" Diameter, Crimped Copper Reducing Coupling	75.72	24.69
		For Work In Restricted Working Space, Add	*11.11*	
22 11 16 00-0720	EA	2-1/2" Diameter, Crimped Copper FTG x C Reducing Coupling	149.56	29.50
		For Work In Restricted Working Space, Add	*13.25*	
22 11 16 00-0721	EA	3" Diameter, Crimped Copper FTG x C Reducing Coupling	186.39	34.69
		For Work In Restricted Working Space, Add	*15.59*	
22 11 16 00-0722	EA	4" Diameter, Crimped Copper FTG x C Reducing Coupling	242.29	45.87
		For Work In Restricted Working Space, Add	*20.66*	

22 11 16 00-0723 Crimped Copper Male Adapters *(22 11 16 00-0664)*

22 11 16 00-0724	EA	1/2" Diameter, Crimped Copper Male Adapter	27.15	15.60
		For Work In Restricted Working Space, Add	*7.02*	
22 11 16 00-0725	EA	3/4" Diameter, Crimped Copper Male Adapter	33.46	17.80
		For Work In Restricted Working Space, Add	*7.99*	
22 11 16 00-0726	EA	1" Diameter, Crimped Copper Male Adapter	44.34	21.18
		For Work In Restricted Working Space, Add	*9.55*	
22 11 16 00-0727	EA	1-1/4" Diameter, Crimped Copper Male Adapter	62.49	23.39
		For Work In Restricted Working Space, Add	*10.52*	
22 11 16 00-0728	EA	1-1/2" Diameter, Crimped Copper Male Adapter	77.43	25.99
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0729	EA	2" Diameter, Crimped Copper Male Adapter	120.84	31.19
		For Work In Restricted Working Space, Add	*14.03*	
22 11 16 00-0730	EA	2-1/2" Diameter, Crimped Copper Male Adapter	233.68	36.38
		For Work In Restricted Working Space, Add	*16.37*	
22 11 16 00-0731	EA	3" Diameter, Crimped Copper Male Adapter	290.32	43.27
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0732	EA	4" Diameter, Crimped Copper Male Adapter	346.61	57.18
		For Work In Restricted Working Space, Add	*25.73*	

22 11 16 00-0733 Crimped Copper Female Adapters *(22 11 16 00-0664)*

22 11 16 00-0734	EA	1/2" Diameter, Crimped Copper Female Adapter	27.94	15.60
		For Work In Restricted Working Space, Add	*7.02*	
22 11 16 00-0735	EA	3/4" Diameter, Crimped Copper Female Adapter	34.04	17.80
		For Work In Restricted Working Space, Add	*7.99*	
22 11 16 00-0736	EA	1" Diameter, Crimped Copper Female Adapter	45.49	21.18
		For Work In Restricted Working Space, Add	*9.55*	
22 11 16 00-0737	EA	1-1/4" Diameter, Crimped Copper Female Adapter	65.91	23.39
		For Work In Restricted Working Space, Add	*10.52*	
22 11 16 00-0738	EA	1-1/2" Diameter, Crimped Copper Female Adapter	83.81	25.99
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0739	EA	2" Diameter, Crimped Copper Female Adapter	122.89	31.19
		For Work In Restricted Working Space, Add	*14.03*	

22 11 16 00-0740 Crimped Copper Caps *(22 11 16 00-0664)*

22 11 16 00-0741	EA	1/2" Diameter, Crimped Copper Cap	18.29	7.80
		For Work In Restricted Working Space, Add	*3.51*	
22 11 16 00-0742	EA	3/4" Diameter, Crimped Copper Cap	24.78	9.10
		For Work In Restricted Working Space, Add	*4.09*	
22 11 16 00-0743	EA	1" Diameter, Crimped Copper Cap	32.78	10.39
		For Work In Restricted Working Space, Add	*4.68*	
22 11 16 00-0744	EA	1-1/4" Diameter, Crimped Copper Cap	37.00	11.69
		For Work In Restricted Working Space, Add	*5.27*	
22 11 16 00-0745	EA	1-1/2" Diameter, Crimped Copper Cap	50.29	13.38
		For Work In Restricted Working Space, Add	*6.04*	
22 11 16 00-0746	EA	2" Diameter, Crimped Copper Cap	60.02	15.60
		For Work In Restricted Working Space, Add	*7.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0747	EA	2-1/2" Diameter, Crimped Copper Cap	144.41	18.19
		For Work In Restricted Working Space, Add	*8.19*	
22 11 16 00-0748	EA	3" Diameter, Crimped Copper Cap	180.71	21.70
		For Work In Restricted Working Space, Add	*9.75*	
22 11 16 00-0749	EA	4" Diameter, Crimped Copper Cap	240.40	28.58
		For Work In Restricted Working Space, Add	*12.86*	

22 11 16 00-0750 C x F NPT Crimped Bronze Unions *(22 11 16 00-0664)*

22 11 16 00-0751	EA	1/2" Diameter, C x F NPT Crimped Bronze Union	51.18	21.18
		For Work In Restricted Working Space, Add	*9.55*	
22 11 16 00-0752	EA	3/4" Diameter, C x F NPT Crimped Bronze Union	63.91	26.12
		For Work In Restricted Working Space, Add	*11.73*	
22 11 16 00-0753	EA	1" Diameter, C x F NPT Crimped Bronze Union	88.10	31.31
		For Work In Restricted Working Space, Add	*14.07*	
22 11 16 00-0754	EA	1-1/4" Diameter, C x F NPT Crimped Bronze Union	106.42	36.12
		For Work In Restricted Working Space, Add	*16.29*	
22 11 16 00-0755	EA	1-1/2" Diameter, C x F NPT Crimped Bronze Union	134.93	35.35
		For Work In Restricted Working Space, Add	*15.90*	
22 11 16 00-0756	EA	2" Diameter, C x F NPT Crimped Bronze Union	185.20	51.19
		For Work In Restricted Working Space, Add	*23.00*	

22 11 16 00-0757 C x C Crimped Bronze Unions *(22 11 16 00-0664)*

22 11 16 00-0758	EA	1/2" Diameter, C x C Bronze Crimped Union	47.51	15.60
		For Work In Restricted Working Space, Add	*7.02*	
22 11 16 00-0759	EA	3/4" Diameter, C x C Bronze Crimped Union	58.26	17.80
		For Work In Restricted Working Space, Add	*7.99*	
22 11 16 00-0760	EA	1" Diameter, C x C Bronze Crimped Union	82.34	21.18
		For Work In Restricted Working Space, Add	*9.55*	
22 11 16 00-0761	EA	1-1/4" Diameter, C x C Bronze Crimped Union	107.21	23.39
		For Work In Restricted Working Space, Add	*10.52*	
22 11 16 00-0762	EA	1-1/2" Diameter, C x C Bronze Crimped Union	136.93	25.99
		For Work In Restricted Working Space, Add	*11.69*	
22 11 16 00-0763	EA	2" Diameter, C x C Bronze Crimped Union	206.74	31.19
		For Work In Restricted Working Space, Add	*14.03*	

22 11 16 00-0764 C x Flange Crimped Bronze Flange *(22 11 16 00-0664)*

22 11 16 00-0765	EA	2-1/2" Diameter, C x Flange Crimped Bronze Flange	397.06	36.38
		For Work In Restricted Working Space, Add	*16.37*	
22 11 16 00-0766	EA	3" Diameter, C x Flange Crimped Bronze Flange	433.60	43.27
		For Work In Restricted Working Space, Add	*19.49*	
22 11 16 00-0767	EA	4" Diameter, C x Flange Crimped Bronze Flange	498.43	57.18
		For Work In Restricted Working Space, Add	*25.73*	

22 11 16 00-0768 Field Installed FKM Seals *(22 11 16 00-0664)*

Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.

22 11 16 00-0769	EA	1/2" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings.	7.78	
		For Work In Restricted Working Space, Add	*1.76*	
22 11 16 00-0770	EA	3/4" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings.	9.78	
		For Work In Restricted Working Space, Add	*2.05*	
22 11 16 00-0771	EA	1" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings.	11.22	
		For Work In Restricted Working Space, Add	*2.34*	
22 11 16 00-0772	EA	1-1/4" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings.	12.87	
		For Work In Restricted Working Space, Add	*2.63*	
22 11 16 00-0773	EA	1-1/2" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings.	17.81	
		For Work In Restricted Working Space, Add	*3.02*	
22 11 16 00-0774	EA	2" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings.	19.88	
		For Work In Restricted Working Space, Add	*3.51*	
22 11 16 00-0775	EA	2-1/2" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings.	29.23	
		For Work In Restricted Working Space, Add	*4.09*	
22 11 16 00-0776	EA	3" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings.	33.64	
		For Work In Restricted Working Space, Add	*4.87*	
22 11 16 00-0777	EA	4" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings.	45.78	
		For Work In Restricted Working Space, Add	*6.43*	

22 11 16 00-0778 Cut And Prepare Existing In-Place Copper Pipe *(22 11 16 00-0390)*

22 11 16 00-0779	EA	Up To 1/2" Diameter, Cut And Prepare Existing In Place Copper Pipe	12.99	
22 11 16 00-0780	EA	3/4" Diameter, Cut And Prepare Existing In Place Copper Pipe	14.04	
22 11 16 00-0781	EA	1" Diameter, Cut And Prepare Existing In Place Copper Pipe	15.79	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0782	EA	1-1/4" Diameter, Cut And Prepare Existing In Place Copper Pipe	16.57	
22 11 16 00-0783	EA	1-1/2" Diameter, Cut And Prepare Existing In Place Copper Pipe	17.54	
22 11 16 00-0784	EA	2" Diameter, Cut And Prepare Existing In Place Copper Pipe	19.30	
22 11 16 00-0785	EA	2-1/2" Diameter, Cut And Prepare Existing In Place Copper Pipe	20.80	
22 11 16 00-0786	EA	3" Diameter, Cut And Prepare Existing In Place Copper Pipe	24.56	
22 11 16 00-0787	EA	4" Diameter, Cut And Prepare Existing In Place Copper Pipe	33.13	
22 11 16 00-0788	EA	6" Diameter, Cut And Prepare Existing In Place Copper Pipe	47.36	
22 11 16 00-0789	EA	8" Diameter, Cut And Prepare Existing In Place Copper Pipe	63.15	
22 11 16 00-0790		**Sweat Brass Companion Flanges** *(22 11 16 00-0390)*		
		Note: Excludes bolt and gasket sets		
22 11 16 00-0791	EA	1" Diameter, Sweat Brass Companion Flange	67.35	19.98
22 11 16 00-0792	EA	1-1/4" Diameter, Sweat Brass Companion Flange	73.55	22.01
22 11 16 00-0793	EA	1-1/2" Diameter, Sweat Brass Companion Flange	103.65	23.93
22 11 16 00-0794	EA	2" Diameter, Sweat Brass Companion Flange	137.60	26.56
22 11 16 00-0795	EA	2-1/2" Diameter, Sweat Brass Companion Flange	193.39	31.95
22 11 16 00-0796	EA	3" Diameter, Sweat Brass Companion Flange	213.42	41.87
22 11 16 00-0797	EA	4" Diameter, Sweat Brass Companion Flange	284.94	49.90
22 11 16 00-0798	EA	5" Diameter, Sweat Brass Companion Flange	534.20	58.85
22 11 16 00-0799	EA	6" Diameter, Sweat Brass Companion Flange	616.29	85.52
22 11 16 00-0800	EA	8" Diameter, Copper Companion Flange	1,420.22	121.99
22 11 16 00-0801		**Brass Compression Fittings** *(22 11 16 00-0390)*		
22 11 16 00-0802		**Brass Compression Unions** *(22 11 16 00-0801)*		
22 11 16 00-0803	EA	1/4" Diameter, Brass Compression Union	22.27	14.04
22 11 16 00-0804	EA	3/8" Diameter, Brass Compression Union	22.60	14.04
22 11 16 00-0805	EA	1/2" Diameter, Brass Compression Union	23.61	14.04
22 11 16 00-0806	EA	5/8" Diameter, Brass Compression Union	24.09	14.04
22 11 16 00-0807	EA	3/4" Diameter, Brass Compression Union	32.93	14.04
22 11 16 00-0808	EA	3/8" x 1/4" Diameter, Brass Compression Union	22.83	14.04
22 11 16 00-0809	EA	1/2" x 3/8" Diameter, Brass Compression Union	23.69	14.04
22 11 16 00-0810	EA	5/8" x 3/8" Diameter, Brass Compression Union	24.29	14.04
22 11 16 00-0811	EA	5/8" x 1/2" Diameter, Brass Compression Union	25.25	14.04
22 11 16 00-0812		**Brass Compression Union Elbows** *(22 11 16 00-0801)*		
22 11 16 00-0813	EA	1/4" Diameter, Brass Compression Union Elbow	23.61	14.04
22 11 16 00-0814	EA	3/8" Diameter, Brass Compression Union Elbow	24.16	14.04
22 11 16 00-0815	EA	1/2" Diameter, Brass Compression Union Elbow	25.36	14.04
22 11 16 00-0816	EA	5/8" Diameter, Brass Compression Union Elbow	27.22	14.04
22 11 16 00-0817	EA	3/4" Diameter, Brass Compression Union Elbow	34.49	14.04
22 11 16 00-0818	EA	3/8" x 1/4" Diameter, Brass Compression Union Elbow	24.16	14.04
22 11 16 00-0819	EA	1/2" x 3/8" Diameter, Brass Compression Union Elbow	25.36	14.04
22 11 16 00-0820	EA	5/8" x 3/8" Diameter, Brass Compression Union Elbow	25.69	14.04
22 11 16 00-0821	EA	5/8" x 1/2" Diameter, Brass Compression Union Elbow	31.15	14.04
22 11 16 00-0822		**Brass Compression Union Tees** *(22 11 16 00-0801)*		
22 11 16 00-0823	EA	1/4" Diameter, Brass Compression Union Tee	24.03	14.04
22 11 16 00-0824	EA	3/8" Diameter, Brass Compression Union Tee	25.16	14.04
22 11 16 00-0825	EA	1/2" Diameter, Brass Compression Union Tee	26.36	14.04
22 11 16 00-0826	EA	5/8" Diameter, Brass Compression Union Tee	30.16	14.04
22 11 16 00-0827	EA	3/4" Diameter, Brass Compression Union Tee	43.28	14.04
22 11 16 00-0828	EA	3/8" x 3/8" x 1/4" Diameter, Brass Compression Union Tee	25.96	14.04
22 11 16 00-0829	EA	1/2" x 1/2" x 3/8" Diameter, Brass Compression Union Tee	32.12	14.04
22 11 16 00-0830	EA	5/8" x 5/8" x 3/8" Diameter, Brass Compression Union Tee	31.53	14.04
22 11 16 00-0831	EA	5/8" x 5/8" x 1/2" Diameter, Brass Compression Union Tee	32.22	14.04
22 11 16 00-0832		**Brass Compression Male Connectors** *(22 11 16 00-0801)*		
22 11 16 00-0833	EA	1/4" Diameter, Brass Compression Male Connector	22.03	14.04
22 11 16 00-0834	EA	3/8" Diameter, Brass Compression Male Connector	22.47	14.04
22 11 16 00-0835	EA	1/2" Diameter, Brass Compression Male Connector	23.23	14.04
22 11 16 00-0836	EA	5/8" Diameter, Brass Compression Male Connector	24.36	14.04
22 11 16 00-0837	EA	3/4" Diameter, Brass Compression Male Connector	29.36	13.90
22 11 16 00-0838		**Brass Compression Female Connectors** *(22 11 16 00-0801)*		
22 11 16 00-0839	EA	1/4" Diameter, Brass Compression Female Connector	22.51	14.04
22 11 16 00-0840	EA	3/8" Diameter, Brass Compression Female Connector	23.08	14.04
22 11 16 00-0841	EA	1/2" Diameter, Brass Compression Female Connector	24.04	14.04
22 11 16 00-0842	EA	5/8" Diameter, Brass Compression Female Connector	24.69	14.04
22 11 16 00-0843	EA	3/4" Diameter, Brass Compression Female Connector	37.69	13.77
22 11 16 00-0844		**Dielectric Fittings** *(22 11 16 00-0390)*		
22 11 16 00-0845		**Copper x Female Iron Pipe Thread Dielectric Unions** *(22 11 16 00-0844)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0846	EA	1/2" Diameter, Copper x Female Iron Pipe Thread Dielectric Union	54.43	31.19
22 11 16 00-0847	EA	3/4" Diameter, Copper x Female Iron Pipe Thread Dielectric Union	60.92	35.61
22 11 16 00-0848	EA	1" Diameter, Copper x Female Iron Pipe Thread Dielectric Union	71.92	39.13
22 11 16 00-0849	EA	1-1/4" Diameter, Copper x Female Iron Pipe Thread Dielectric Union	86.41	43.07
22 11 16 00-0850	EA	1-1/2" Diameter, Copper x Female Iron Pipe Thread Dielectric Union	103.75	47.86
22 11 16 00-0851	EA	2" Diameter, Copper x Female Iron Pipe Thread Dielectric Union	131.18	57.43
22 11 16 00-0852		**Female Brass Thread x Iron Pipe Thread Dielectric Unions** *(22 11 16 00-0844)*		
22 11 16 00-0853	EA	1/2" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union	59.25	31.19
22 11 16 00-0854	EA	3/4" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union	68.87	35.61
22 11 16 00-0855	EA	1" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union	82.41	39.13
22 11 16 00-0856	EA	1-1/4" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union	100.32	43.07
22 11 16 00-0857	EA	1-1/2" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union	120.96	47.86
22 11 16 00-0858	EA	2" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union	151.37	57.43
22 11 16 00-0859		**Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions** *(22 11 16 00-0844)*		
22 11 16 00-0860	EA	1/2" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	56.19	31.19
22 11 16 00-0861	EA	3/4" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	63.82	35.61
22 11 16 00-0862	EA	1" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	72.69	39.13
22 11 16 00-0863	EA	1-1/4" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	83.72	43.07
22 11 16 00-0864	EA	1-1/2" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	101.08	47.86
22 11 16 00-0865	EA	2" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	129.04	57.43
22 11 16 00-0866		**Copper x Female Iron Pipe Thread Dielectric Flanges** *(22 11 16 00-0844)*		
22 11 16 00-0867	EA	2-1/2" Diameter, Copper x Female Iron Pipe Thread Dielectric Flange	320.72	147.64
22 11 16 00-0868	EA	3" Diameter, Copper x Female Iron Pipe Thread Dielectric Flange	401.71	185.93
22 11 16 00-0869	EA	4" Diameter, Copper x Female Iron Pipe Thread Dielectric Flange	564.77	253.05
22 11 16 00-0870		**Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges** *(22 11 16 00-0844)*		
22 11 16 00-0871	EA	2-1/2" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	322.71	147.64
22 11 16 00-0872	EA	3" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	417.54	185.93
22 11 16 00-0873	EA	4" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	747.43	253.05
22 11 16 00-0874		**Brass Push-Fit Fittings** *(22 11 16)*		
22 11 16 00-0875	EA	1/4" x 1/4" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	28.11	12.99
22 11 16 00-0876	EA	3/8" x 3/8" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	34.97	13.86
22 11 16 00-0877	EA	1/2" x 1/2" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	36.21	15.60
22 11 16 00-0878	EA	5/8" x 5/8" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	41.72	16.63
22 11 16 00-0879	EA	3/4" x 3/4" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	42.50	17.76
22 11 16 00-0880	EA	1" x 1" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	59.86	21.22
22 11 16 00-0881	EA	1/2" x 3/8" Diameter, Brass Push-Fit Reducing Coupling Note: (Sharkbite)	35.59	14.72
22 11 16 00-0882	EA	3/4" x 5/8" Diameter, Brass Push-Fit Reducing Coupling Note: (Sharkbite)	41.24	16.11
22 11 16 00-0883	EA	1" x 3/4" Diameter, Brass Push-Fit Reducing Coupling Note: (Sharkbite)	61.58	19.49
22 11 16 00-0884	EA	1/4" x 1/4" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	29.36	12.99
22 11 16 00-0885	EA	3/8" x 3/8" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	40.28	13.86
22 11 16 00-0886	EA	1/2" x 1/2" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	36.89	15.60
22 11 16 00-0887	EA	5/8" x 5/8" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	44.81	16.63
22 11 16 00-0888	EA	3/4" x 3/4" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	41.62	17.76
22 11 16 00-0889	EA	1" x 1" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	60.54	21.22
22 11 16 00-0890	EA	1/2" x 3/8" Diameter, Brass Push-Fit Reducing Elbow Note: (Sharkbite)	35.03	14.72
22 11 16 00-0891	EA	3/4" x 1/2" Diameter, Brass Push-Fit Reducing Elbow Note: (Sharkbite)	39.03	16.11
22 11 16 00-0892	EA	1" x 3/4" Diameter, Brass Push-Fit Reducing Elbow Note: (Sharkbite)	76.78	19.49
22 11 16 00-0893	EA	1/4" x 1/4" x 1/4" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	44.56	19.49
22 11 16 00-0894	EA	3/8" x 3/8" x 3/8" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	56.56	20.79
22 11 16 00-0895	EA	1/2" x 1/2" x 1/2" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	51.65	23.39

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0896	EA	5/8" x 5/8" x 5/8" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	65.90	24.95
22 11 16 00-0897	EA	3/4" x 3/4" x 3/4" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	60.26	26.64
22 11 16 00-0898	EA	1" x 1" x 1" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	82.54	31.83
22 11 16 00-0899	EA	1/2" x 1/2" x 1/4" Diameter, Brass Push-Fit Reducing Tee Note: (Sharkbite)	58.09	22.09
22 11 16 00-0900	EA	1/2" x 1/2" x 3/8" Diameter, Brass Push-Fit Reducing Tee Note: (Sharkbite)	58.41	22.52
22 11 16 00-0901	EA	3/4" x 3/4" x 1/2" Diameter, Brass Push-Fit Reducing Tee Note: (Sharkbite)	58.19	25.56
22 11 16 00-0902	EA	1" x 1" x 3/4" Diameter, Brass Push-Fit Reducing Tee Note: (Sharkbite)	80.11	30.10
22 11 16 00-0903	EA	1/4" x 1/2" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	33.51	14.30
22 11 16 00-0904	EA	3/8" x 1/2" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	33.10	14.72
22 11 16 00-0905	EA	1/2" x 1/2" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	32.67	15.60
22 11 16 00-0906	EA	3/4" x 3/4" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	37.42	17.76
22 11 16 00-0907	EA	1" x 1" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	52.71	21.22
22 11 16 00-0908	EA	1/4" x 1/2" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	29.25	14.30
22 11 16 00-0909	EA	3/8" x 1/2" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	33.10	14.72
22 11 16 00-0910	EA	1/2" x 1/2" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	32.76	15.60
22 11 16 00-0911	EA	3/4" x 3/4" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	37.03	17.76
22 11 16 00-0912	EA	5/8" x 3/4" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	40.32	17.19
22 11 16 00-0913	EA	1" x 3/4" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	48.42	19.49
22 11 16 00-0914	EA	1" x 1" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	53.50	21.22
22 11 16 00-0915	EA	1/2" Diameter, Brass Push-Fit Ball Valve Note: (Sharkbite)	47.42	15.60
22 11 16 00-0916	EA	3/4" Diameter, Brass Push-Fit Ball Valve Note: (Sharkbite)	55.46	17.76
22 11 16 00-0917	EA	1" Diameter, Brass Push-Fit Ball Valve Note: (Sharkbite)	73.34	21.22
22 11 16 00-0918	EA	1/2" Diameter, Brass Push-Fit Check Valve Note: (Sharkbite)	50.85	15.60
22 11 16 00-0919	EA	3/4" Diameter, Brass Push-Fit Check Valve Note: (Sharkbite)	61.25	17.76
22 11 16 00-0920	EA	1" Diameter, Brass Push-Fit Check Valve Note: (Sharkbite)	103.43	21.22

22 11 16 00-0921 Copper Pipe With Fittings And Hangers Assemblies *(22 11 16)*

Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.

22 11 16 00-0922	LF	1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	25.81	3.64
		For Type K Tubing Instead Of Type L, Add	*1.77*	
		For Type M Tubing Instead Of Type L, Deduct	*-1.47*	
		For Silver Solder Instead Of 95/5 Solder, Add	*3.32*	
		For For Brazed Fittings, Add	*0.81*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.31*	
		For Work In Restricted Working Space, Add	*6.10*	
22 11 16 00-0923	LF	3/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	30.03	4.68
		For Type K Tubing Instead Of Type L, Add	*2.14*	
		For Type M Tubing Instead Of Type L, Deduct	*-1.76*	
		For Silver Solder Instead Of 95/5 Solder, Add	*3.80*	
		For For Brazed Fittings, Add	*0.92*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.65*	
		For Work In Restricted Working Space, Add	*6.91*	
22 11 16 00-0924	LF	1" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	33.34	5.58
		For Type K Tubing Instead Of Type L, Add	*2.57*	
		For Type M Tubing Instead Of Type L, Deduct	*-2.07*	
		For Silver Solder Instead Of 95/5 Solder, Add	*4.08*	
		For For Brazed Fittings, Add	*0.97*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-2.87*	
		For Work In Restricted Working Space, Add	*7.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0925	LF	1-1/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly	37.87	6.50
		Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
		For Type K Tubing Instead Of Type L, Add	*3.23*	
		For Type M Tubing Instead Of Type L, Deduct	*-2.54*	
		For Silver Solder Instead Of 95/5 Solder, Add	*4.40*	
		For For Brazed Fittings, Add	*1.00*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.15*	
		For Work In Restricted Working Space, Add	*7.52*	
		For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	*-1.28*	
22 11 16 00-0926	LF	1-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly	42.37	7.41
		Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
		For Type K Tubing Instead Of Type L, Add	*3.80*	
		For Type M Tubing Instead Of Type L, Deduct	*-2.95*	
		For Silver Solder Instead Of 95/5 Solder, Add	*4.79*	
		For For Brazed Fittings, Add	*1.07*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-3.46*	
		For Work In Restricted Working Space, Add	*8.02*	
		For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	*-1.56*	
22 11 16 00-0927	LF	2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly	53.98	9.23
		Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
		For Type K Tubing Instead Of Type L, Add	*5.28*	
		For Type M Tubing Instead Of Type L, Deduct	*-4.02*	
		For Silver Solder Instead Of 95/5 Solder, Add	*5.78*	
		For For Brazed Fittings, Add	*1.23*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-4.24*	
		For Work In Restricted Working Space, Add	*9.23*	
		For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	*-2.32*	
22 11 16 00-0928	LF	2-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly	67.59	11.12
		Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
		For Type K Tubing Instead Of Type L, Add	*7.35*	
		For Type M Tubing Instead Of Type L, Deduct	*-5.47*	
		For Silver Solder Instead Of 95/5 Solder, Add	*6.68*	
		For For Brazed Fittings, Add	*1.32*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.03*	
		For Work In Restricted Working Space, Add	*9.91*	
		For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	*-3.46*	
22 11 16 00-0929	LF	3" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly	82.92	12.92
		Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
		For Type K Tubing Instead Of Type L, Add	*9.66*	
		For Type M Tubing Instead Of Type L, Deduct	*-7.09*	
		For Silver Solder Instead Of 95/5 Solder, Add	*7.72*	
		For For Brazed Fittings, Add	*1.43*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-5.93*	
		For Work In Restricted Working Space, Add	*10.73*	
		For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	*-4.72*	
22 11 16 00-0930	LF	4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly	130.87	17.11
		Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
		For Type K Tubing Instead Of Type L, Add	*16.61*	
		For Type M Tubing Instead Of Type L, Deduct	*-12.01*	
		For Silver Solder Instead Of 95/5 Solder, Add	*11.17*	
		For For Brazed Fittings, Add	*1.85*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-8.86*	
		For Work In Restricted Working Space, Add	*13.87*	
		For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	*-8.46*	
22 11 16 00-0931	LF	5" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly	235.58	21.30
		Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
		For Type K Tubing Instead Of Type L, Add	*33.11*	
		For Type M Tubing Instead Of Type L, Deduct	*-23.52*	
		For Silver Solder Instead Of 95/5 Solder, Add	*17.71*	
		For For Brazed Fittings, Add	*2.37*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-14.75*	
		For Work In Restricted Working Space, Add	*17.80*	
		For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	*-17.62*	
22 11 16 00-0932	LF	6" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly	308.23	25.73
		Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
		For Type K Tubing Instead Of Type L, Add	*43.63*	
		For Type M Tubing Instead Of Type L, Deduct	*-30.96*	
		For Silver Solder Instead Of 95/5 Solder, Add	*22.95*	
		For For Brazed Fittings, Add	*3.01*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-19.18*	
		For Work In Restricted Working Space, Add	*22.61*	
		For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	*-23.29*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0933	LF	8" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	676.39	30.75
		For Type K Tubing Instead Of Type L, Add	*105.37*	
		For Type M Tubing Instead Of Type L, Deduct	*-73.67*	
		For Silver Solder Instead Of 95/5 Solder, Add	*43.19*	
		For For Brazed Fittings, Add	*3.75*	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	*-38.50*	
		For Work In Restricted Working Space, Add	*28.10*	
		For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	*-58.27*	

22 11 16 00-0934 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings *(22 11 16)*

Note: Socket weld.

22 11 16 00-0935 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings *(22 11 16 00-0934)*

22 11 16 00-0936 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe *(22 11 16 00-0935)*

22 11 16 00-0937	LF	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	6.35	1.91
		For Work In Restricted Working Space, Add	*1.43*	
22 11 16 00-0938	LF	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	7.17	2.01
		For Work In Restricted Working Space, Add	*1.51*	
22 11 16 00-0939	LF	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	8.56	2.16
		For Work In Restricted Working Space, Add	*1.62*	
22 11 16 00-0940	LF	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	10.27	2.36
		For Work In Restricted Working Space, Add	*1.77*	
22 11 16 00-0941	LF	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	11.81	2.61
		For Work In Restricted Working Space, Add	*1.96*	
22 11 16 00-0942	LF	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	14.60	2.92
		For Work In Restricted Working Space, Add	*2.19*	
22 11 16 00-0943	LF	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	19.47	3.31
		For Work In Restricted Working Space, Add	*2.49*	
22 11 16 00-0944	LF	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	24.74	3.93
		For Work In Restricted Working Space, Add	*2.94*	
22 11 16 00-0945	LF	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	33.97	4.82
		For Work In Restricted Working Space, Add	*3.62*	
22 11 16 00-0946	LF	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	57.71	6.13
		For Work In Restricted Working Space, Add	*4.60*	
22 11 16 00-0947	LF	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	82.61	8.04
		For Work In Restricted Working Space, Add	*6.03*	

22 11 16 00-0948 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows *(22 11 16 00-0935)*

22 11 16 00-0949	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	25.19	9.09
		For Work In Restricted Working Space, Add	*6.82*	
22 11 16 00-0950	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	32.54	11.48
		For Work In Restricted Working Space, Add	*8.62*	
22 11 16 00-0951	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	42.05	14.35
		For Work In Restricted Working Space, Add	*10.80*	
22 11 16 00-0952	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	56.62	17.95
		For Work In Restricted Working Space, Add	*13.49*	
22 11 16 00-0953	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	62.91	19.86
		For Work In Restricted Working Space, Add	*14.93*	
22 11 16 00-0954	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	73.22	19.86
		For Work In Restricted Working Space, Add	*16.65*	
22 11 16 00-0955	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	109.29	25.24
		For Work In Restricted Working Space, Add	*18.95*	
22 11 16 00-0956	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	124.78	29.92
		For Work In Restricted Working Space, Add	*22.40*	
22 11 16 00-0957	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	175.47	36.73
		For Work In Restricted Working Space, Add	*27.57*	
22 11 16 00-0958	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	221.54	46.66
		For Work In Restricted Working Space, Add	*35.03*	
22 11 16 00-0959	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	409.56	61.26
		For Work In Restricted Working Space, Add	*45.95*	

22 11 16 00-0960 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows *(22 11 16 00-0935)*

22 11 16 00-0961	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	26.41	9.09
		For Work In Restricted Working Space, Add	*6.82*	
22 11 16 00-0962	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	34.01	11.48
		For Work In Restricted Working Space, Add	*8.62*	
22 11 16 00-0963	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	44.44	14.35
		For Work In Restricted Working Space, Add	*10.80*	
22 11 16 00-0964	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	59.75	17.95
		For Work In Restricted Working Space, Add	*13.49*	
22 11 16 00-0965	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	66.73	19.86
		For Work In Restricted Working Space, Add	*14.93*	
22 11 16 00-0966	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	74.51	22.26
		For Work In Restricted Working Space, Add	*16.65*	
22 11 16 00-0967	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	110.11	25.24
		For Work In Restricted Working Space, Add	*18.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0968	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	124.67	29.92
		For Work In Restricted Working Space, Add	*22.40*	
22 11 16 00-0969	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	160.50	36.73
		For Work In Restricted Working Space, Add	*27.57*	
22 11 16 00-0970	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	249.62	46.66
		For Work In Restricted Working Space, Add	*35.03*	
22 11 16 00-0971	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	429.45	61.26
		For Work In Restricted Working Space, Add	*45.95*	

22 11 16 00-0972 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees *(22 11 16 00-0935)*

22 11 16 00-0973	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	38.57	13.64
		For Work In Restricted Working Space, Add	*10.23*	
22 11 16 00-0974	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	50.20	17.23
		For Work In Restricted Working Space, Add	*12.92*	
22 11 16 00-0975	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	62.85	21.65
		For Work In Restricted Working Space, Add	*16.22*	
22 11 16 00-0976	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	85.97	27.04
		For Work In Restricted Working Space, Add	*20.24*	
22 11 16 00-0977	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	95.85	29.92
		For Work In Restricted Working Space, Add	*22.40*	
22 11 16 00-0978	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	114.87	33.26
		For Work In Restricted Working Space, Add	*24.98*	
22 11 16 00-0979	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	146.68	37.93
		For Work In Restricted Working Space, Add	*28.43*	
22 11 16 00-0980	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	168.48	44.75
		For Work In Restricted Working Space, Add	*33.60*	
22 11 16 00-0981	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	204.56	55.16
		For Work In Restricted Working Space, Add	*41.35*	
22 11 16 00-0982	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	305.55	70.11
		For Work In Restricted Working Space, Add	*52.55*	
22 11 16 00-0983	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	603.01	91.89
		For Work In Restricted Working Space, Add	*68.92*	

22 11 16 00-0984 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses *(22 11 16 00-0935)*

22 11 16 00-0985	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	49.32	18.19
		For Work In Restricted Working Space, Add	*13.64*	
22 11 16 00-0986	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	63.57	22.97
		For Work In Restricted Working Space, Add	*17.23*	
22 11 16 00-0987	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	79.58	28.84
		For Work In Restricted Working Space, Add	*21.61*	
22 11 16 00-0988	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	105.91	36.01
		For Work In Restricted Working Space, Add	*26.99*	
22 11 16 00-0989	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	117.80	39.84
		For Work In Restricted Working Space, Add	*29.87*	
22 11 16 00-0990	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	138.25	44.39
		For Work In Restricted Working Space, Add	*33.31*	
22 11 16 00-0991	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	171.06	50.49
		For Work In Restricted Working Space, Add	*37.90*	
22 11 16 00-0992	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	197.96	59.70
		For Work In Restricted Working Space, Add	*44.79*	
22 11 16 00-0993	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	241.26	73.46
		For Work In Restricted Working Space, Add	*55.13*	
22 11 16 00-0994	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	345.85	93.44
		For Work In Restricted Working Space, Add	*70.06*	
22 11 16 00-0995	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	627.82	122.52
		For Work In Restricted Working Space, Add	*91.89*	

22 11 16 00-0996 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts *(22 11 16 00-0935)*

22 11 16 00-0997	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	22.53	8.37
		For Work In Restricted Working Space, Add	*6.32*	
22 11 16 00-0998	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	31.22	11.36
		For Work In Restricted Working Space, Add	*8.51*	
22 11 16 00-0999	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	50.19	14.84
		For Work In Restricted Working Space, Add	*11.13*	
22 11 16 00-1000	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	56.50	16.39
		For Work In Restricted Working Space, Add	*12.31*	
22 11 16 00-1001	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	66.13	18.31
		For Work In Restricted Working Space, Add	*13.75*	
22 11 16 00-1002	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	72.47	20.82
		For Work In Restricted Working Space, Add	*15.65*	
22 11 16 00-1003	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	87.62	24.65
		For Work In Restricted Working Space, Add	*18.49*	
22 11 16 00-1004	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	117.51	30.27
		For Work In Restricted Working Space, Add	*22.76*	
22 11 16 00-1005	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	185.06	38.52
		For Work In Restricted Working Space, Add	*28.90*	
22 11 16 00-1006	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	393.33	50.49
		For Work In Restricted Working Space, Add	*37.90*	

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1007		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts *(22 11 16 00-0935)*			
22 11 16 00-1008	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert		24.58	5.98
		For Work In Restricted Working Space, Add		*4.49*	
22 11 16 00-1009	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert		31.43	8.37
		For Work In Restricted Working Space, Add		*6.32*	
22 11 16 00-1010	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert		39.47	11.36
		For Work In Restricted Working Space, Add		*8.51*	
22 11 16 00-1011	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert		49.48	14.84
		For Work In Restricted Working Space, Add		*11.13*	
22 11 16 00-1012	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert		57.55	16.39
		For Work In Restricted Working Space, Add		*12.31*	
22 11 16 00-1013	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert		71.38	18.31
		For Work In Restricted Working Space, Add		*13.75*	
22 11 16 00-1014	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert		106.79	20.82
		For Work In Restricted Working Space, Add		*15.65*	
22 11 16 00-1015	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert		204.29	24.65
		For Work In Restricted Working Space, Add		*18.49*	
22 11 16 00-1016	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert		300.71	30.27
		For Work In Restricted Working Space, Add		*22.76*	
22 11 16 00-1017		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters *(22 11 16 00-0935)*			
22 11 16 00-1018	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters		18.64	5.98
		For Work In Restricted Working Space, Add		*4.49*	
22 11 16 00-1019	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters		26.04	8.37
		For Work In Restricted Working Space, Add		*6.32*	
22 11 16 00-1020	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters		36.74	11.36
		For Work In Restricted Working Space, Add		*8.51*	
22 11 16 00-1021	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters		49.48	14.84
		For Work In Restricted Working Space, Add		*11.13*	
22 11 16 00-1022	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters		57.79	16.39
		For Work In Restricted Working Space, Add		*12.31*	
22 11 16 00-1023	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters		68.48	18.31
		For Work In Restricted Working Space, Add		*13.75*	
22 11 16 00-1024	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters		95.06	20.82
		For Work In Restricted Working Space, Add		*15.65*	
22 11 16 00-1025	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters		113.48	24.65
		For Work In Restricted Working Space, Add		*18.49*	
22 11 16 00-1026	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters		163.53	30.27
		For Work In Restricted Working Space, Add		*22.76*	
22 11 16 00-1027		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters *(22 11 16 00-0935)*			
22 11 16 00-1028	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters		20.05	5.98
		For Work In Restricted Working Space, Add		*4.49*	
22 11 16 00-1029	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters		26.49	8.37
		For Work In Restricted Working Space, Add		*6.32*	
22 11 16 00-1030	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters		36.86	11.36
		For Work In Restricted Working Space, Add		*8.51*	
22 11 16 00-1031	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters		49.89	14.84
		For Work In Restricted Working Space, Add		*11.13*	
22 11 16 00-1032	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters		55.91	16.39
		For Work In Restricted Working Space, Add		*12.31*	
22 11 16 00-1033	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters		66.95	18.31
		For Work In Restricted Working Space, Add		*13.75*	
22 11 16 00-1034	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters		95.94	20.82
		For Work In Restricted Working Space, Add		*15.65*	
22 11 16 00-1035	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters		128.96	24.65
		For Work In Restricted Working Space, Add		*18.49*	
22 11 16 00-1036	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters		189.86	30.27
		For Work In Restricted Working Space, Add		*22.76*	
22 11 16 00-1037		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings *(22 11 16 00-0935)*			

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1038	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	16.78	5.51
		For Work In Restricted Working Space, Add	*4.09*	
22 11 16 00-1039	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	23.57	7.66
		For Work In Restricted Working Space, Add	*5.74*	
22 11 16 00-1040	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	31.70	10.29
		For Work In Restricted Working Space, Add	*7.72*	
22 11 16 00-1041	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	42.65	13.52
		For Work In Restricted Working Space, Add	*10.12*	
22 11 16 00-1042	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	48.56	14.96
		For Work In Restricted Working Space, Add	*11.20*	
22 11 16 00-1043	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	54.66	16.63
		For Work In Restricted Working Space, Add	*12.49*	
22 11 16 00-1044	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	78.63	18.90
		For Work In Restricted Working Space, Add	*14.21*	
22 11 16 00-1045	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	87.56	22.38
		For Work In Restricted Working Space, Add	*16.80*	
22 11 16 00-1046	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	110.27	27.52
		For Work In Restricted Working Space, Add	*20.68*	
22 11 16 00-1047	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	169.15	35.06
		For Work In Restricted Working Space, Add	*26.27*	
22 11 16 00-1048	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	280.15	45.94
		For Work In Restricted Working Space, Add	*34.46*	

22 11 16 00-1049 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions *(22 11 16 00-0935)*

22 11 16 00-1050	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	29.76	6.58
		For Work In Restricted Working Space, Add	*4.92*	
22 11 16 00-1051	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	36.99	9.21
		For Work In Restricted Working Space, Add	*6.89*	
22 11 16 00-1052	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	45.34	12.32
		For Work In Restricted Working Space, Add	*9.26*	
22 11 16 00-1053	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	74.46	16.16
		For Work In Restricted Working Space, Add	*12.13*	
22 11 16 00-1054	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	79.38	17.95
		For Work In Restricted Working Space, Add	*13.43*	
22 11 16 00-1055	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	107.47	19.98
		For Work In Restricted Working Space, Add	*15.01*	
22 11 16 00-1056	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	175.96	22.73
		For Work In Restricted Working Space, Add	*17.05*	
22 11 16 00-1057	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	247.27	26.92
		For Work In Restricted Working Space, Add	*20.17*	
22 11 16 00-1058	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	388.73	33.03
		For Work In Restricted Working Space, Add	*24.80*	
22 11 16 00-1059	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	518.39	41.99
		For Work In Restricted Working Space, Add	*31.52*	
22 11 16 00-1060	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	642.74	55.16
		For Work In Restricted Working Space, Add	*41.35*	

22 11 16 00-1061 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps *(22 11 16 00-0935)*

22 11 16 00-1062	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	13.49	5.63
		For Work In Restricted Working Space, Add	*2.56*	
22 11 16 00-1063	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	17.80	7.06
		For Work In Restricted Working Space, Add	*3.23*	
22 11 16 00-1064	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	25.93	8.86
		For Work In Restricted Working Space, Add	*4.05*	
22 11 16 00-1065	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	30.48	6.70
		For Work In Restricted Working Space, Add	*5.06*	
22 11 16 00-1066	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	32.55	7.42
		For Work In Restricted Working Space, Add	*5.60*	
22 11 16 00-1067	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	43.18	8.37
		For Work In Restricted Working Space, Add	*6.25*	
22 11 16 00-1068	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	63.95	9.45
		For Work In Restricted Working Space, Add	*7.11*	
22 11 16 00-1069	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	69.17	11.24
		For Work In Restricted Working Space, Add	*8.40*	
22 11 16 00-1070	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	103.91	13.76
		For Work In Restricted Working Space, Add	*10.34*	
22 11 16 00-1071	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	216.62	17.46
		For Work In Restricted Working Space, Add	*13.14*	
22 11 16 00-1072	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	279.35	22.97
		For Work In Restricted Working Space, Add	*17.23*	

22 11 16 00-1073 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges *(22 11 16 00-0935)*

22 11 16 00-1074	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	22.83	4.31
		For Work In Restricted Working Space, Add	*3.27*	
22 11 16 00-1075	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	28.11	6.10
		For Work In Restricted Working Space, Add	*4.59*	
22 11 16 00-1076	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	34.83	8.25
		For Work In Restricted Working Space, Add	*6.17*	
22 11 16 00-1077	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	41.71	10.77
		For Work In Restricted Working Space, Add	*8.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1078	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	44.93	11.97
		For Work In Restricted Working Space, Add	*8.98*	
22 11 16 00-1079	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	53.22	13.28
		For Work In Restricted Working Space, Add	*9.98*	
22 11 16 00-1080	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	69.08	15.20
		For Work In Restricted Working Space, Add	*11.38*	
22 11 16 00-1081	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	78.73	17.95
		For Work In Restricted Working Space, Add	*13.43*	
22 11 16 00-1082	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	98.21	22.01
		For Work In Restricted Working Space, Add	*16.55*	
22 11 16 00-1083	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	137.80	27.99
		For Work In Restricted Working Space, Add	*21.03*	
22 11 16 00-1084	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	244.59	36.73
		For Work In Restricted Working Space, Add	*27.57*	

22 11 16 00-1085 Polypropylene Random (PP-R), Heat Fusion, Domestic Water Pipe *(22 11 16)*

22 11 16 00-1086 Polypropylene Random (PP-R), Heat Fusion, Domestic Hot Water Pipe *(22 11 16 00-1085)*

Note: Aquatherm greenpipe®

22 11 16 00-1087	LF	1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	5.46	2.03
22 11 16 00-1088	LF	3/4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	6.35	2.12
22 11 16 00-1089	LF	1" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	8.57	2.55
22 11 16 00-1090	LF	1-1/4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	10.71	2.72
22 11 16 00-1091	LF	1-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	14.70	3.06
22 11 16 00-1092	LF	2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	19.33	3.12
22 11 16 00-1093	LF	2-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	27.54	4.24
22 11 16 00-1094	LF	3" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	36.43	4.91
22 11 16 00-1095	LF	3-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	48.83	5.49
22 11 16 00-1096	LF	4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe	57.67	6.06

22 11 16 00-1097 Polypropylene Random (PP-R), Heat Fusion, Domestic Cold Water Pipe *(22 11 16 00-1085)*

Note: Aquatherm greenpipe®

22 11 16 00-1098	LF	1/2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	5.02	2.03
22 11 16 00-1099	LF	3/4" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	5.62	2.12
22 11 16 00-1100	LF	1" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	7.26	2.55
22 11 16 00-1101	LF	1-1/4" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	8.80	2.72
22 11 16 00-1102	LF	1-1/2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	11.37	3.06
22 11 16 00-1103	LF	2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	14.60	3.12
22 11 16 00-1104	LF	2-1/2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	20.26	4.24
22 11 16 00-1105	LF	3" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	26.81	4.91
22 11 16 00-1106	LF	3-1/2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	36.76	5.49
22 11 16 00-1107	LF	4" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe	43.37	6.06

22 11 16 00-1108 Polypropylene Random (PP-R), Heat Fusion, UV Protected, Domestic Hot Water Pipe *(22 11 16 00-1085)*

Note: Aquatherm greenpipe®.

22 11 16 00-1109	LF	1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	5.69	2.03
22 11 16 00-1110	LF	3/4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	6.67	2.12
22 11 16 00-1111	LF	1" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	8.92	2.55
22 11 16 00-1112	LF	1-1/4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	11.16	2.72
22 11 16 00-1113	LF	1-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	16.00	3.06
22 11 16 00-1114	LF	2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	20.04	3.12
22 11 16 00-1115	LF	2-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	28.55	4.24
22 11 16 00-1116	LF	3" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	38.93	4.91
22 11 16 00-1117	LF	3-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	48.69	5.49
22 11 16 00-1118	LF	4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	57.28	6.06

22 11 16 00-1119 Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe *(22 11 16 00-1085)*

Note: Aquatherm climatherm®.

22 11 16 00-1120	LF	1/2" Diameter, SDR 7.4, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	5.00	2.04
22 11 16 00-1121	LF	3/4" Diameter, SDR 7.4, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	5.71	2.12
22 11 16 00-1122	LF	1" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	6.78	2.55
22 11 16 00-1123	LF	1-1/4" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	8.12	2.72
22 11 16 00-1124	LF	1-1/2" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	10.13	3.07
22 11 16 00-1125	LF	2" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	12.73	3.13
22 11 16 00-1126	LF	2-1/2" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	17.69	4.24
22 11 16 00-1127	LF	3" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	23.24	4.91
22 11 16 00-1128	LF	3-1/2" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	30.87	5.49
22 11 16 00-1129	LF	4" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	37.11	6.06
22 11 16 00-1130	LF	6" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	44.65	7.76
22 11 16 00-1131	LF	8" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	71.15	10.18

22 11 16 00-1132 Pipe Clamp For Polypropylene Random (PP-R) Pipe *(22 11 16 00-1085)*

22 11 16 00-1133	EA	1/2" Diameter Pipe Clamp For Polypropylene Pipe	13.82	5.03
22 11 16 00-1134	EA	3/4" Diameter Pipe Clamp For Polypropylene Pipe	14.39	5.03

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1135	EA	1" Diameter Pipe Clamp For Polypropylene Pipe	14.77	5.03
22 11 16 00-1136	EA	1-1/4" Diameter Pipe Clamp For Polypropylene Pipe	14.89	5.03
22 11 16 00-1137	EA	1-1/2" Diameter Pipe Clamp For Polypropylene Pipe	15.34	5.03
22 11 16 00-1138	EA	2" Diameter Pipe Clamp For Polypropylene Pipe	16.61	5.03
22 11 16 00-1139	EA	2-1/2" Diameter Pipe Clamp For Polypropylene Pipe	18.45	5.03
22 11 16 00-1140	EA	3" Diameter Pipe Clamp For Polypropylene Pipe	19.08	5.03
22 11 16 00-1141	EA	3-1/2" Diameter Pipe Clamp For Polypropylene Pipe	19.97	5.03
22 11 16 00-1142	EA	4" Diameter Pipe Clamp For Polypropylene Pipe	21.18	5.03
22 11 16 00-1143		**Polypropylene Random (PP-R) Pipe, Pipe Fastening Strap** *(22 11 16 00-1085)*		
22 11 16 00-1144	EA	Up to 1" Diameter Polypropylene Pipe, Single Pipe Fastening Strap, 1-3/8" Spike	4.70	
22 11 16 00-1145	EA	Up to 1" Diameter Polypropylene Pipe, Single Pipe Fastening Strap, 2-1/2" Spike	4.85	
22 11 16 00-1146	EA	Up to 1" Diameter Polypropylene Pipe, Double Pipe Fastening Strap, 1-3/8" Spike	4.93	
22 11 16 00-1147	EA	Up to 1" Diameter Polypropylene Pipe, Double Pipe Fastening Strap, 2-1/2" Spike	4.98	
22 11 16 00-1148		**Polypropylene Random (PP-R) Pipe Plastic Pipe Clamp** *(22 11 16 00-1085)*		
22 11 16 00-1149	EA	1/2" Diameter, Polypropylene Pipe Plastic Pipe Clamp	11.13	2.62
22 11 16 00-1150	EA	3/4" Diameter, Polypropylene Pipe Plastic Pipe Clamp	11.52	2.62
22 11 16 00-1151		**Polypropylene Random (PP-R), Heat Fusion, Socket Coupling** *(22 11 16 00-1085)*		
22 11 16 00-1152	EA	1/2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	9.73	4.06
22 11 16 00-1153	EA	3/4" Diameter, Polypropylene, Heat Fusion, Socket Coupling	10.28	4.24
22 11 16 00-1154	EA	1" Diameter, Polypropylene, Heat Fusion, Socket Coupling	12.55	5.09
22 11 16 00-1155	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Socket Coupling	13.75	5.46
22 11 16 00-1156	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	18.21	6.12
22 11 16 00-1157	EA	2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	24.40	6.24
22 11 16 00-1158	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	30.31	8.48
22 11 16 00-1159	EA	3" Diameter, Polypropylene, Heat Fusion, Socket Coupling	48.97	9.82
22 11 16 00-1160	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	69.65	10.97
22 11 16 00-1161	EA	4" Diameter, Polypropylene, Heat Fusion, Socket Coupling	86.84	12.13
22 11 16 00-1162		**Polypropylene Random (PP-R), Heat Fusion, Bushing** *(22 11 16 00-1085)*		
22 11 16 00-1163	EA	1" Diameter, Polypropylene, Heat Fusion, Bushing	10.52	4.06
22 11 16 00-1164	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Bushing	12.17	4.24
22 11 16 00-1165	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Bushing	16.29	5.09
22 11 16 00-1166	EA	2" Diameter, Polypropylene, Heat Fusion, Bushing	23.12	5.46
22 11 16 00-1167	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Bushing	25.92	6.12
22 11 16 00-1168	EA	3" Diameter, Polypropylene, Heat Fusion, Bushing	42.92	6.24
22 11 16 00-1169	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, Bushing	65.63	8.48
22 11 16 00-1170	EA	4" x 2-1/2" Diameter, Polypropylene, Heat Fusion, Bushing	79.02	9.82
22 11 16 00-1171	EA	4" x 3" Diameter, Polypropylene, Heat Fusion, Bushing	95.79	10.97
22 11 16 00-1172	EA	4" x 3-1/2" Diameter, Polypropylene, Heat Fusion, Bushing	100.29	12.13
22 11 16 00-1173		**Polypropylene Random (PP-R), Heat Fusion, Reducing Coupling** *(22 11 16 00-1085)*		
22 11 16 00-1174	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Reducing Coupling	14.19	4.24
22 11 16 00-1175	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling	18.79	5.09
22 11 16 00-1176	EA	2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling	28.08	5.46
22 11 16 00-1177	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling	31.12	6.12
22 11 16 00-1178	EA	3" Diameter, Polypropylene, Heat Fusion, Reducing Coupling	37.91	6.24
22 11 16 00-1179	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling	61.08	8.48
22 11 16 00-1180	EA	4" x 3" Diameter, Polypropylene, Heat Fusion, Reducing Coupling	79.33	10.30
22 11 16 00-1181	EA	4" x 3-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling	88.87	12.13
22 11 16 00-1182		**Polypropylene Random (PP-R), Heat Fusion, 90 Degree Elbow** *(22 11 16 00-1085)*		
22 11 16 00-1183	EA	1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	17.98	8.12
22 11 16 00-1184	EA	3/4" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	19.31	8.55
22 11 16 00-1185	EA	1" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	23.56	10.18
22 11 16 00-1186	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	26.86	10.97
22 11 16 00-1187	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	34.96	12.19
22 11 16 00-1188	EA	2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	41.13	12.42
22 11 16 00-1189	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	70.17	17.03
22 11 16 00-1190	EA	3" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	99.29	19.64
22 11 16 00-1191	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	129.12	21.94
22 11 16 00-1192	EA	4" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow	179.80	24.24
22 11 16 00-1193		**Polypropylene Random (PP-R), Heat Fusion, 90 Degree Street Elbow** *(22 11 16 00-1085)*		
22 11 16 00-1194	EA	1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Street Elbow	17.98	8.12
22 11 16 00-1195	EA	3/4" Diameter, Polypropylene, Heat Fusion, 90 Degree Street Elbow	19.31	8.55
22 11 16 00-1196	EA	1" Diameter, Polypropylene, Heat Fusion, 90 Degree Street Elbow	23.56	10.18
22 11 16 00-1197	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, 90 Degree Street Elbow	26.86	10.97

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1198		**Polypropylene Random (PP-R), Heat Fusion, 45 Degree Elbow** *(22 11 16 00-1085)*		
22 11 16 00-1199	EA	1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	17.98	8.12
22 11 16 00-1200	EA	3/4" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	19.31	8.55
22 11 16 00-1201	EA	1" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	23.56	10.18
22 11 16 00-1202	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	26.86	10.97
22 11 16 00-1203	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	34.96	12.19
22 11 16 00-1204	EA	2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	40.94	12.42
22 11 16 00-1205	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	69.74	17.03
22 11 16 00-1206	EA	3" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	105.13	19.64
22 11 16 00-1207	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	137.66	21.94
22 11 16 00-1208	EA	4" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow	192.90	24.24
22 11 16 00-1209		**Polypropylene Random (PP-R), Heat Fusion, 45 Degree Street Elbow** *(22 11 16 00-1085)*		
22 11 16 00-1210	EA	1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Street Elbow	17.96	8.12
22 11 16 00-1211	EA	3/4" Diameter, Polypropylene, Heat Fusion, 45 Degree Street Elbow	19.31	8.55
22 11 16 00-1212	EA	1" Diameter, Polypropylene, Heat Fusion, 45 Degree Street Elbow	23.56	10.18
22 11 16 00-1213	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, 45 Degree Street Elbow	26.86	10.97
22 11 16 00-1214		**Polypropylene Random (PP-R), Heat Fusion, Tee** *(22 11 16 00-1085)*		
22 11 16 00-1215	EA	1/2" Diameter, Polypropylene, Heat Fusion, Tee	26.69	12.19
22 11 16 00-1216	EA	3/4" Diameter, Polypropylene, Heat Fusion, Tee	28.78	12.79
22 11 16 00-1217	EA	1" Diameter, Polypropylene, Heat Fusion, Tee	34.50	15.22
22 11 16 00-1218	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Tee	39.05	16.43
22 11 16 00-1219	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Tee	54.33	18.31
22 11 16 00-1220	EA	2" Diameter, Polypropylene, Heat Fusion, Tee	62.71	18.67
22 11 16 00-1221	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Tee	93.56	25.51
22 11 16 00-1222	EA	3" Diameter, Polypropylene, Heat Fusion, Tee	129.13	29.45
22 11 16 00-1223	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, Tee	175.23	32.88
22 11 16 00-1224	EA	4" Diameter, Polypropylene, Heat Fusion, Tee	218.11	36.30
22 11 16 00-1225		**Polypropylene Random (PP-R), Heat Fusion, Reducing Tee** *(22 11 16 00-1085)*		
22 11 16 00-1226	EA	1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee	26.69	12.19
22 11 16 00-1227	EA	3/4" Diameter, Polypropylene, Heat Fusion, Reducing Tee	28.78	12.79
22 11 16 00-1228	EA	1" Diameter, Polypropylene, Heat Fusion, Reducing Tee	34.45	15.22
22 11 16 00-1229	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Reducing Tee	39.05	16.43
22 11 16 00-1230	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee	54.33	18.31
22 11 16 00-1231	EA	2" Diameter, Polypropylene, Heat Fusion, Reducing Tee	61.18	18.67
22 11 16 00-1232	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee	89.92	25.51
22 11 16 00-1233	EA	3" Diameter, Polypropylene, Heat Fusion, Reducing Tee	136.88	29.45
22 11 16 00-1234	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee	187.60	32.88
22 11 16 00-1235	EA	4" x 2-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee	213.71	36.30
22 11 16 00-1236	EA	4" x 3" Diameter, Polypropylene, Heat Fusion, Reducing Tee	218.61	36.30
22 11 16 00-1237	EA	4" x 3-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee	219.16	36.30
22 11 16 00-1238		**Polypropylene Random (PP-R), Heat Fusion, End Cap** *(22 11 16 00-1085)*		
22 11 16 00-1239	EA	1/2" Diameter, Polypropylene, Heat Fusion, End Cap	10.64	4.06
22 11 16 00-1240	EA	3/4" Diameter, Polypropylene, Heat Fusion, End Cap	11.68	4.24
22 11 16 00-1241	EA	1" Diameter, Polypropylene, Heat Fusion, End Cap	14.06	5.09
22 11 16 00-1242	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, End Cap	17.02	5.46
22 11 16 00-1243	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, End Cap	20.67	6.12
22 11 16 00-1244	EA	2" Diameter, Polypropylene, Heat Fusion, End Cap	26.58	6.24
22 11 16 00-1245	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, End Cap	37.41	8.48
22 11 16 00-1246	EA	3" Diameter, Polypropylene, Heat Fusion, End Cap	65.82	9.82
22 11 16 00-1247	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, End Cap	77.49	10.97
22 11 16 00-1248	EA	4" Diameter, Polypropylene, Heat Fusion, End Cap	108.84	12.13
22 11 16 00-1249		**Polypropylene Random (PP-R), Heat Fusion Outlet** *(22 11 16 00-1085)*		
22 11 16 00-1250	EA	1-1/4" x 1/2" Polypropylene, Heat Fusion Outlet	13.34	
22 11 16 00-1251	EA	1-1/4" x 3/4" Polypropylene, Heat Fusion Outlet	13.70	
22 11 16 00-1252	EA	1-1/2" x 1/2" Polypropylene, Heat Fusion Outlet	13.93	
22 11 16 00-1253	EA	1-1/2" x 3/4" Polypropylene, Heat Fusion Outlet	14.29	
22 11 16 00-1254	EA	2" x 1/2" Polypropylene, Heat Fusion Outlet	14.93	
22 11 16 00-1255	EA	2" x 3/4" Polypropylene, Heat Fusion Outlet	15.29	
22 11 16 00-1256	EA	2" x 1" Polypropylene, Heat Fusion Outlet	17.12	
22 11 16 00-1257	EA	2-1/2" x 1/2" Polypropylene, Heat Fusion Outlet	15.92	
22 11 16 00-1258	EA	2-1/2" x 3/4" Polypropylene, Heat Fusion Outlet	16.28	
22 11 16 00-1259	EA	2-1/2" x 1" Polypropylene, Heat Fusion Outlet	18.11	
22 11 16 00-1260	EA	2-1/2" x 1-1/4" Polypropylene, Heat Fusion Outlet	18.95	
22 11 16 00-1261	EA	3" x 1/2" Polypropylene, Heat Fusion Outlet	16.91	
22 11 16 00-1262	EA	3" x 3/4" Polypropylene, Heat Fusion Outlet	17.27	
22 11 16 00-1263	EA	3" x 1" Polypropylene, Heat Fusion Outlet	19.10	
22 11 16 00-1264	EA	3" x 1-1/4" Polypropylene, Heat Fusion Outlet	19.94	
22 11 16 00-1265	EA	3-1/2" x 1/2" Polypropylene, Heat Fusion Outlet	16.91	
22 11 16 00-1266	EA	3-1/2" x 3/4" Polypropylene, Heat Fusion Outlet	18.26	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1267	EA	3-1/2" x 1" Polypropylene, Heat Fusion Outlet	20.09	
22 11 16 00-1268	EA	3-1/2" x 1-1/4" Polypropylene, Heat Fusion Outlet	20.93	
22 11 16 00-1269	EA	3-1/2" x 1-1/2" Polypropylene, Heat Fusion Outlet	24.76	
22 11 16 00-1270	EA	4" x 1/2" Polypropylene, Heat Fusion Outlet	18.89	
22 11 16 00-1271	EA	4" x 3/4" Polypropylene, Heat Fusion Outlet	19.25	
22 11 16 00-1272	EA	4" x 1" Polypropylene, Heat Fusion Outlet	21.08	
22 11 16 00-1273	EA	4" x 1-1/4" Polypropylene, Heat Fusion Outlet	21.92	
22 11 16 00-1274	EA	4" x 1-1/2" Polypropylene, Heat Fusion Outlet	24.76	
22 11 16 00-1275	EA	4" x 2" Polypropylene, Heat Fusion Outlet	29.21	
22 11 16 00-1276		**Polypropylene Random (PP-R), Flange Adaptor With Gaskets Included** *(22 11 16 00-1085)*		
22 11 16 00-1277	EA	1" Polypropylene, Flange Adaptor With Gaskets Included	15.75	5.09
22 11 16 00-1278	EA	1-1/4" Polypropylene, Flange Adaptor With Gaskets Included	17.48	5.46
22 11 16 00-1279	EA	1-1/2" Polypropylene, Flange Adaptor With Gaskets Included	22.53	6.12
22 11 16 00-1280	EA	2" Polypropylene, Flange Adaptor With Gaskets Included	24.08	6.24
22 11 16 00-1281	EA	2-1/2" Polypropylene, Flange Adaptor With Gaskets Included	33.21	8.48
22 11 16 00-1282	EA	3" Polypropylene, Flange Adaptor With Gaskets Included	52.66	9.82
22 11 16 00-1283	EA	3-1/2" Polypropylene, Flange Adaptor With Gaskets Included	71.12	10.97
22 11 16 00-1284	EA	4" Polypropylene, Flange Adaptor With Gaskets Included	149.50	12.13
22 11 16 00-1285		**Polypropylene Random (PP-R), Flange Ring With ANSI Bolt Pattern** *(22 11 16 00-1085)*		
22 11 16 00-1286	EA	1" Polypropylene, Flange Ring With ANSI Bolt Pattern	26.35	
22 11 16 00-1287	EA	1-1/4" Polypropylene, Flange Ring With ANSI Bolt Pattern	34.78	
22 11 16 00-1288	EA	1-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern	43.40	
22 11 16 00-1289	EA	2" Polypropylene, Flange Ring With ANSI Bolt Pattern	51.56	
22 11 16 00-1290	EA	2-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern	72.08	
22 11 16 00-1291	EA	3" Polypropylene, Flange Ring With ANSI Bolt Pattern	83.68	
22 11 16 00-1292	EA	3-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern	103.64	
22 11 16 00-1293	EA	4" Polypropylene, Flange Ring With ANSI Bolt Pattern	125.51	
22 11 16 00-1294		**Polypropylene Random (PP-R), Electrofusion Coupling** *(22 11 16 00-1085)*		
22 11 16 00-1295	EA	1/2" Polypropylene, Electrofusion Coupling	57.77	8.12
22 11 16 00-1296	EA	3/4" Polypropylene, Electrofusion Coupling	60.24	8.55
22 11 16 00-1297	EA	1" Polypropylene, Electrofusion Coupling	68.69	10.18
22 11 16 00-1298	EA	1-1/4" Polypropylene, Electrofusion Coupling	71.04	10.97
22 11 16 00-1299	EA	1-1/2" Polypropylene, Electrofusion Coupling	77.32	12.19
22 11 16 00-1300	EA	2" Polypropylene, Electrofusion Coupling	101.63	12.42
22 11 16 00-1301	EA	2-1/2" Polypropylene, Electrofusion Coupling	125.07	17.03
22 11 16 00-1302	EA	3" Polypropylene, Electrofusion Coupling	155.41	19.64
22 11 16 00-1303	EA	3-1/2" Polypropylene, Electrofusion Coupling	208.80	21.94
22 11 16 00-1304	EA	4" Polypropylene, Electrofusion Coupling	256.06	24.24
22 11 16 00-1305		**Polypropylene Random (PP-R), Heat Fusion, FIP Rear-Mount Back Plate Elbow** *(22 11 16 00-1085)*		
22 11 16 00-1306	EA	1/2" Diameter, Polypropylene, Heat Fusion, FIP Rear-Mount Back Plate Elbow	31.53	11.16
22 11 16 00-1307	EA	3/4" Diameter, Polypropylene, Heat Fusion, FIP Rear-Mount Back Plate Elbow	36.96	11.57
22 11 16 00-1308		**Polypropylene Random (PP-R), Heat Fusion, FIP Side-Mount Back Plate Elbow** *(22 11 16 00-1085)*		
22 11 16 00-1309	EA	1/2" Diameter, Polypropylene, Heat Fusion, FIP Side-Mount Back Plate Elbow	33.75	11.16
22 11 16 00-1310		**Polypropylene Random (PP-R), Heat Fusion, ISO Plug For Pressure Test** *(22 11 16 00-1085)*		
22 11 16 00-1311	EA	1/2" Diameter, Polypropylene, Heat Fusion, ISO Plug For Pressure Test	9.38	4.06
22 11 16 00-1312	EA	3/4" Diameter, Polypropylene, Heat Fusion, ISO Plug For Pressure Test	10.11	4.24
22 11 16 00-1313		**Polypropylene Random (PP-R), Heat Fusion, Round FIP NPT Transition Piece** *(22 11 16 00-1085)*		
22 11 16 00-1314	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	24.15	8.12
22 11 16 00-1315	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	26.66	8.12
22 11 16 00-1316	EA	3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	24.99	8.55
22 11 16 00-1317	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	27.50	8.55
22 11 16 00-1318	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	31.81	10.18
22 11 16 00-1319		**Polypropylene Random (PP-R), Heat Fusion, Hex FIP NPT Transition Piece** *(22 11 16 00-1085)*		
22 11 16 00-1320	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	28.65	8.12
22 11 16 00-1321	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	30.78	8.12
22 11 16 00-1322	EA	3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	29.49	8.55
22 11 16 00-1323	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	31.62	8.55

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1324	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	37.09	10.18
22 11 16 00-1325	EA	1" x 1" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	54.34	10.18
22 11 16 00-1326	EA	1-1/4" x 1" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	57.61	10.97
22 11 16 00-1327	EA	1-1/4" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	75.62	10.97
22 11 16 00-1328	EA	1-1/2" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	79.82	12.19
22 11 16 00-1329	EA	1-1/2" x 1-1/2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	86.62	12.19
22 11 16 00-1330	EA	2" x 1-1/2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	93.05	12.42
22 11 16 00-1331	EA	2" x 2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	121.25	12.42
22 11 16 00-1332	EA	2-1/2" x 2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	134.71	17.03
22 11 16 00-1333		Polypropylene Random (PP-R), Heat Fusion, Round MIP NPT Transition Piece *(22 11 16 00-1085)*		
22 11 16 00-1334	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	34.86	8.12
22 11 16 00-1335	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	37.52	8.12
22 11 16 00-1336	EA	3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	35.70	8.55
22 11 16 00-1337	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	38.36	8.55
22 11 16 00-1338	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	45.49	10.18
22 11 16 00-1339		Polypropylene Random (PP-R), Heat Fusion, Hex MIP NPT Transition Piece *(22 11 16 00-1085)*		
22 11 16 00-1340	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	29.90	8.12
22 11 16 00-1341	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	31.85	8.12
22 11 16 00-1342	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	32.69	8.55
22 11 16 00-1343	EA	1" x 1" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	46.51	10.18
22 11 16 00-1344	EA	1" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	64.38	10.18
22 11 16 00-1345	EA	1-1/4" x 1" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	49.05	10.97
22 11 16 00-1346	EA	1-1/4" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	68.77	10.97
22 11 16 00-1347	EA	1-1/2" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	72.74	12.19
22 11 16 00-1348	EA	1-1/2" x 1-1/2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	83.96	12.19
22 11 16 00-1349	EA	2" x 1-1/2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	95.46	12.42
22 11 16 00-1350	EA	2" x 2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	107.42	12.42
22 11 16 00-1351	EA	2-1/2" x 2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	118.63	17.03
22 11 16 00-1352	EA	2-1/2" x 2-1/2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	160.65	17.03
22 11 16 00-1353	EA	3" x 3" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	236.69	19.64
22 11 16 00-1354	EA	3-1/2" x 4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	448.62	21.94
22 11 16 00-1355		Polypropylene Random (PP-R), Heat Fusion, Transition FIP NPT Elbow *(22 11 16 00-1085)*		
22 11 16 00-1356	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	30.06	8.12
22 11 16 00-1357	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	25.48	8.12
22 11 16 00-1358	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	30.90	8.55
22 11 16 00-1359	EA	3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	26.32	8.55
22 11 16 00-1360	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	35.65	10.18
22 11 16 00-1361	EA	1" x 1" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	53.45	10.18
22 11 16 00-1362		Polypropylene Random (PP-R), Heat Fusion, Transition Male/Female x FIP NPT Street Elbow *(22 11 16 00-1085)*		
22 11 16 00-1363	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition Male/Female x FIP NPT Street Elbow	25.48	8.12
22 11 16 00-1364		Polypropylene Random (PP-R), Heat Fusion, Transition MIP NPT Elbow *(22 11 16 00-1085)*		
22 11 16 00-1365	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	27.77	8.12
22 11 16 00-1366	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	29.25	8.12
22 11 16 00-1367	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	30.09	8.55
22 11 16 00-1368	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	37.35	10.18
22 11 16 00-1369	EA	1" x 1" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	50.57	10.18
22 11 16 00-1370		Polypropylene Random (PP-R), Heat Fusion, Transition FIP NPT Tee *(22 11 16 00-1085)*		
22 11 16 00-1371	EA	1/2" x 1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	35.29	12.19
22 11 16 00-1372	EA	1/2" x 1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	38.91	12.19
22 11 16 00-1373	EA	3/4" x 3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	36.51	12.79
22 11 16 00-1374	EA	3/4" x 3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	40.13	12.79
22 11 16 00-1375	EA	1" x 1" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	47.42	15.22
22 11 16 00-1376	EA	1" x 1" x 1" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	63.67	15.22
22 11 16 00-1377	EA	1-1/2" x 1-1/2" x 1" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	74.03	18.31
22 11 16 00-1378		Polypropylene Random (PP-R), Heat Fusion, Transition MIP NPT Tee *(22 11 16 00-1085)*		
22 11 16 00-1379	EA	1/2" x 1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Tee	37.73	12.19
22 11 16 00-1380		Polypropylene Random (PP-R), Heat Fusion, Transition PP-R x Brass Compression Fitting *(22 11 16 00-1085)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1381	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition PP-R x Brass Compression Fitting	25.63	4.06
22 11 16 00-1382		**Polypropylene Random (PP-R), Heat Fusion, Fusion Outlet x FIP NPT** *(22 11 16 00-1085)*		
22 11 16 00-1383	EA	1/2" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	22.56	
22 11 16 00-1384	EA	3/4" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	28.69	
22 11 16 00-1385	EA	1" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	39.34	
22 11 16 00-1386		**Polypropylene Random (PP-R), Heat Fusion, Fusion Outlet x MIP NPT** *(22 11 16 00-1085)*		
22 11 16 00-1387	EA	1/2" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x MIP NPT	26.11	
22 11 16 00-1388	EA	3/4" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x MIP NPT	35.25	
22 11 16 00-1389		**Polypropylene Random (PP-R), Heat Fusion, PEX Adaptor** *(22 11 16 00-1085)*		
22 11 16 00-1390	EA	1/2" Diameter, Polypropylene, Heat Fusion, PEX Adaptor	18.38	4.06
22 11 16 00-1391	EA	3/4" Diameter, Polypropylene, Heat Fusion, PEX Adaptor	27.19	4.24
22 11 16 00-1392	EA	1" Diameter, Polypropylene, Heat Fusion, PEX Adaptor	35.54	5.09
22 11 16 00-1393		**Polypropylene Random (PP-R), Heat Fusion, FIP Stop Valve Body** *(22 11 16 00-1085)*		
22 11 16 00-1394	EA	1/2" Diameter, Polypropylene, Heat Fusion, FIP Stop Valve Body	25.74	8.91
22 11 16 00-1395	EA	3/4" Diameter, Polypropylene, Heat Fusion, FIP Stop Valve Body	26.70	9.39
22 11 16 00-1396	EA	1" Diameter, Polypropylene, Heat Fusion, FIP Stop Valve Body	37.43	11.16
22 11 16 00-1397	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, FIP Stop Valve Body	56.50	12.06
22 11 16 00-1398		**Polypropylene Random (PP-R), Heat Fusion, Inclined Check Valve** *(22 11 16 00-1085)*		
22 11 16 00-1399	EA	1/2" Diameter, Polypropylene, Heat Fusion, Inclined Check Valve	71.47	8.91
22 11 16 00-1400	EA	3/4" Diameter, Polypropylene, Heat Fusion, Inclined Check Valve	72.43	9.39
22 11 16 00-1401	EA	1" Diameter, Polypropylene, Heat Fusion, Inclined Check Valve	86.54	11.16
22 11 16 00-1402	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Inclined Check Valve	140.81	12.06
22 11 16 00-1403		**Polypropylene Random (PP-R), Heat Fusion, Ball Valve** *(22 11 16 00-1085)*		
22 11 16 00-1404	EA	1/2" Diameter, Polypropylene, Heat Fusion, Ball Valve	66.21	8.91
22 11 16 00-1405	EA	3/4" Diameter, Polypropylene, Heat Fusion, Ball Valve	73.26	9.39
22 11 16 00-1406	EA	1" Diameter, Polypropylene, Heat Fusion, Ball Valve	88.82	11.16
22 11 16 00-1407	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Ball Valve	124.71	12.06
22 11 16 00-1408	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Ball Valve	180.54	13.39
22 11 16 00-1409	EA	2" Diameter, Polypropylene, Heat Fusion, Ball Valve	273.31	13.70
22 11 16 00-1410		**Extension For Ball Valve** *(22 11 16 00-1085)*		
22 11 16 00-1411	EA	Extension For 1/2" to 3/4" Diameter Ball Valve, 1-3/8" Length	33.69	
22 11 16 00-1412	EA	Extension For 1" to 1-1/4" Diameter Ball Valve, 1-3/8" Length	33.74	
22 11 16 00-1413	EA	Extension For 1-1/2" to 2" Diameter Ball Valve, 1-3/4" Length	36.86	
22 11 16 00-1414		**Polypropylene Random (PP-R), Heat Fusion, Draining Branch** *(22 11 16 00-1085)*		
22 11 16 00-1415	EA	1/2" Diameter, Polypropylene, Heat Fusion, Draining Branch	32.82	8.12
22 11 16 00-1416	EA	3/4" Diameter, Polypropylene, Heat Fusion, Draining Branch	33.66	8.55
22 11 16 00-1417	EA	1" Diameter, Polypropylene, Heat Fusion, Draining Branch	38.68	10.18
22 11 16 00-1418	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Draining Branch	40.26	10.97
22 11 16 00-1419	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Draining Branch	44.21	12.19
22 11 16 00-1420	EA	2" Diameter, Polypropylene, Heat Fusion, Draining Branch	47.36	12.42
22 11 16 00-1421		**Red Brass Pipe And Fittings** *(22 11 16)*		
		Note: ASTM B43 And B251 (Pipe), ASME B16.15.		
22 11 16 00-1422		**Schedule 40 Red Brass Pipe** *(22 11 16 00-1421)*		
22 11 16 00-1423	LF	1/2" Diameter, Schedule 40 Red Brass Pipe	30.72	2.52
22 11 16 00-1424	LF	3/4" Diameter, Schedule 40 Red Brass Pipe	40.58	2.52
22 11 16 00-1425	LF	1" Diameter, Schedule 40 Red Brass Pipe	55.24	2.52
22 11 16 00-1426	LF	1-1/4" Diameter, Schedule 40 Red Brass Pipe	80.86	2.75
22 11 16 00-1427	LF	1-1/2" Diameter, Schedule 40 Red Brass Pipe	93.09	2.99
22 11 16 00-1428	LF	2" Diameter, Schedule 40 Red Brass Pipe	119.26	3.59
22 11 16 00-1429	LF	2-1/2" Diameter, Schedule 40 Red Brass Pipe	173.28	4.07
22 11 16 00-1430	LF	3" Diameter, Schedule 40 Red Brass Pipe	244.60	4.31
22 11 16 00-1431	LF	4" Diameter, Schedule 40 Red Brass Pipe	350.40	4.31
22 11 16 00-1432		**125 LB Cast Bronze, Screwed, 90 Degree Elbows** *(22 11 16 00-1421)*		
22 11 16 00-1433	EA	1/2" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Elbow	68.99	29.79
22 11 16 00-1434	EA	3/4" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Elbow	78.09	32.78
22 11 16 00-1435	EA	1" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Elbow	97.89	38.76
22 11 16 00-1436	EA	1-1/4" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Elbow	116.45	41.63

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1437	EA	1-1/2" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Elbow	130.27	44.63
22 11 16 00-1438	EA	2" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Elbow	161.38	47.62
22 11 16 00-1439	EA	2-1/2" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Elbow	271.82	59.58
22 11 16 00-1440	EA	3" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Elbow	376.13	71.43
22 11 16 00-1441	EA	4" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Elbow	662.72	95.24
22 11 16 00-1442		**125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbows** *(22 11 16 00-1421)*		
22 11 16 00-1443	EA	1/2" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	72.14	29.79
22 11 16 00-1444	EA	3/4" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	82.67	32.78
22 11 16 00-1445	EA	1" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	107.47	38.76
22 11 16 00-1446	EA	1-1/4" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	129.02	41.63
22 11 16 00-1447	EA	1-1/2" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	147.57	44.63
22 11 16 00-1448	EA	2" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	199.15	47.62
22 11 16 00-1449	EA	2-1/2" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	303.29	59.58
22 11 16 00-1450	EA	3" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	472.86	71.43
22 11 16 00-1451	EA	4" Diameter, 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	936.44	95.24
22 11 16 00-1452		**125 LB Cast Bronze, Screwed, 45 Degree Elbows** *(22 11 16 00-1421)*		
22 11 16 00-1453	EA	1/2" Diameter, 125 LB Cast Bronze, Screwed, 45 Degree Elbow	70.59	29.79
22 11 16 00-1454	EA	3/4" Diameter, 125 LB Cast Bronze, Screwed, 45 Degree Elbow	81.22	32.78
22 11 16 00-1455	EA	1" Diameter, 125 LB Cast Bronze, Screwed, 45 Degree Elbow	104.19	38.76
22 11 16 00-1456	EA	1-1/4" Diameter, 125 LB Cast Bronze, Screwed, 45 Degree Elbow	125.89	41.63
22 11 16 00-1457	EA	1-1/2" Diameter, 125 LB Cast Bronze, Screwed, 45 Degree Elbow	142.84	44.63
22 11 16 00-1458	EA	2" Diameter, 125 LB Cast Bronze, Screwed, 45 Degree Elbow	181.83	47.62
22 11 16 00-1459	EA	2-1/2" Diameter, 125 LB Cast Bronze, Screwed, 45 Degree Elbow	284.36	59.58
22 11 16 00-1460	EA	3" Diameter, 125 LB Cast Bronze, Screwed, 45 Degree Elbow	397.61	71.43
22 11 16 00-1461	EA	4" Diameter, 125 LB Cast Bronze, Screwed, 45 Degree Elbow	872.84	95.24
22 11 16 00-1462		**125 Lb. Cast Bronze, Screwed, Tees** *(22 11 16 00-1421)*		
22 11 16 00-1463	EA	1/2" Diameter, 125 Lb., Cast Bronze, Screwed, Tee	100.36	44.63
22 11 16 00-1464	EA	3/4" Diameter, 125 Lb., Cast Bronze, Screwed, Tee	113.38	48.82
22 11 16 00-1465	EA	1" Diameter, 125 Lb., Cast Bronze, Screwed, Tee	143.88	57.79
22 11 16 00-1466	EA	1-1/4" Diameter, 125 Lb., Cast Bronze, Screwed, Tee	173.86	62.58
22 11 16 00-1467	EA	1-1/2" Diameter, 125 Lb., Cast Bronze, Screwed, Tee	188.48	66.64
22 11 16 00-1468	EA	2" Diameter, 125 Lb., Cast Bronze, Screwed, Tee	234.20	71.43
22 11 16 00-1469	EA	2-1/2" Diameter, 125 Lb., Cast Bronze, Screwed, Tee	386.41	89.37
22 11 16 00-1470	EA	3" Diameter, 125 Lb., Cast Bronze, Screwed, Tee	531.99	107.20
22 11 16 00-1471	EA	4" Diameter, 125 Lb., Cast Bronze, Screwed, Tee	1,072.78	142.85
22 11 16 00-1472		**125 Lb. Cast Bronze, Screwed, Reducing Tees** *(22 11 16 00-1421)*		
22 11 16 00-1473	EA	1/2" Diameter, 125 Lb., Cast Bronze, Screwed, Reducing Tee	105.07	44.63
22 11 16 00-1474	EA	3/4" Diameter, 125 Lb., Cast Bronze, Screwed, Reducing Tee	116.56	48.82
22 11 16 00-1475	EA	1" Diameter, 125 Lb., Cast Bronze, Screwed, Reducing Tee	156.47	57.79
22 11 16 00-1476	EA	1-1/4" Diameter, 125 Lb., Cast Bronze, Screwed, Reducing Tee	183.30	62.58
22 11 16 00-1477	EA	1-1/2" Diameter, 125 Lb., Cast Bronze, Screwed, Reducing Tee	213.66	66.64
22 11 16 00-1478	EA	2" Diameter, 125 Lb., Cast Bronze, Screwed, Reducing Tee	273.55	71.43
22 11 16 00-1479	EA	2-1/2" Diameter, 125 Lb., Cast Bronze, Screwed, Reducing Tee	462.93	89.37
22 11 16 00-1480	EA	3" Diameter, 125 Lb., Cast Bronze, Screwed, Reducing Tee	864.54	107.20
22 11 16 00-1481	EA	4" Diameter, 125 Lb., Cast Bronze, Screwed, Reducing Tee	1,335.09	142.85
22 11 16 00-1482		**125 Lb. Cast Bronze, Screwed, Crosses** *(22 11 16 00-1421)*		
22 11 16 00-1483	EA	1/2" Diameter, 125 Lb., Cast Bronze, Screwed, Cross	141.15	59.58
22 11 16 00-1484	EA	3/4" Diameter, 125 Lb., Cast Bronze, Screwed, Cross	162.49	65.45
22 11 16 00-1485	EA	1" Diameter, 125 Lb., Cast Bronze, Screwed, Cross	203.63	77.41
22 11 16 00-1486	EA	1-1/4" Diameter, 125 Lb., Cast Bronze, Screwed, Cross	249.31	83.39
22 11 16 00-1487	EA	1-1/2" Diameter, 125 Lb., Cast Bronze, Screwed, Cross	292.39	89.37
22 11 16 00-1488	EA	2" Diameter, 125 Lb., Cast Bronze, Screwed, Cross	417.98	95.24
22 11 16 00-1489	EA	2-1/2" Diameter, 125 Lb., Cast Bronze, Screwed, Cross	668.46	119.05
22 11 16 00-1490	EA	3" Diameter, 125 Lb., Cast Bronze, Screwed, Cross	916.98	142.85
22 11 16 00-1491	EA	4" Diameter, 125 Lb., Cast Bronze, Screwed, Cross	1,671.94	190.59
22 11 16 00-1492		**125 Lb. Cast Bronze, Screwed, Caps** *(22 11 16 00-1421)*		
22 11 16 00-1493	EA	1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Cap	33.08	17.71
22 11 16 00-1494	EA	3/4" Diameter, 125 Lb. Cast Bronze, Screwed, Cap	37.37	19.51
22 11 16 00-1495	EA	1" Diameter, 125 Lb. Cast Bronze, Screwed, Cap	49.12	22.97
22 11 16 00-1496	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, Screwed, Cap	62.68	24.77
22 11 16 00-1497	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Cap	73.28	26.56
22 11 16 00-1498	EA	2" Diameter, 125 Lb. Cast Bronze, Screwed, Cap	99.54	28.35
22 11 16 00-1499	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Cap	157.45	35.41
22 11 16 00-1500	EA	3" Diameter, 125 Lb. Cast Bronze, Screwed, Cap	224.89	42.48
22 11 16 00-1501	EA	4" Diameter, 125 Lb. Cast Bronze, Screwed, Cap	391.97	56.59
22 11 16 00-1502		**125 Lb. Cast Bronze, Screwed, Couplings** *(22 11 16 00-1421)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1503	EA	1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Coupling	67.44	29.79
22 11 16 00-1504	EA	3/4" Diameter, 125 Lb. Cast Bronze, Screwed, Coupling	76.54	32.78
22 11 16 00-1505	EA	1" Diameter, 125 Lb. Cast Bronze, Screwed, Coupling	96.31	38.76
22 11 16 00-1506	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, Screwed, Coupling	114.85	41.63
22 11 16 00-1507	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Coupling	130.27	44.63
22 11 16 00-1508	EA	2" Diameter, 125 Lb. Cast Bronze, Screwed, Coupling	162.96	47.62
22 11 16 00-1509	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Coupling	229.29	59.58
22 11 16 00-1510	EA	3" Diameter, 125 Lb. Cast Bronze, Screwed, Coupling	295.63	71.43
22 11 16 00-1511	EA	4" Diameter, 125 Lb. Cast Bronze, Screwed, Coupling	505.32	95.24
22 11 16 00-1512		**125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducers** *(22 11 16 00-1421)*		
22 11 16 00-1513	EA	1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer	59.18	23.81
22 11 16 00-1514	EA	3/4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer	67.53	26.80
22 11 16 00-1515	EA	1" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer	91.56	35.77
22 11 16 00-1516	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer	108.80	38.76
22 11 16 00-1517	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer	122.91	41.63
22 11 16 00-1518	EA	2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer	147.82	44.63
22 11 16 00-1519	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer	214.19	56.59
22 11 16 00-1520	EA	3" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer	259.39	65.45
22 11 16 00-1521	EA	4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer	447.23	86.38
22 11 16 00-1522		**125 Lb. Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducers** *(22 11 16 00-1421)*		
22 11 16 00-1523	EA	3/4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	60.48	23.81
22 11 16 00-1524	EA	1" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	107.78	32.78
22 11 16 00-1525	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	140.37	35.77
22 11 16 00-1526	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	163.90	38.76
22 11 16 00-1527	EA	2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	217.63	44.63
22 11 16 00-1528	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	333.22	56.59
22 11 16 00-1529	EA	3" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	401.36	59.58
22 11 16 00-1530	EA	4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	457.06	77.41
22 11 16 00-1531		**125 Lb. Cast Bronze, FIP Threaded, Unions** *(22 11 16 00-1421)*		
22 11 16 00-1532	EA	1/2" Diameter, 125 Lb. Cast Bronze, FIP Threaded, Union	72.82	23.81
		For 150 Lb., Add	*10.07*	
22 11 16 00-1533	EA	3/4" Diameter, 125 Lb. Cast Bronze, FIP Threaded, Union	87.02	26.20
		For 150 Lb., Add	*13.85*	
22 11 16 00-1534	EA	1" Diameter, 125 Lb. Cast Bronze, FIP Threaded, Union	107.58	30.99
		For 150 Lb., Add	*18.26*	
22 11 16 00-1535	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, FIP Threaded, Union	132.78	33.38
		For 150 Lb., Add	*26.43*	
22 11 16 00-1536	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, FIP Threaded, Union	150.19	35.77
		For 150 Lb., Add	*31.49*	
22 11 16 00-1537	EA	2" Diameter, 125 Lb. Cast Bronze, FIP Threaded, Union	177.15	40.44
		For 150 Lb., Add	*38.47*	
22 11 16 00-1538	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, FIP Threaded, Union	304.55	59.82
		For 150 Lb., Add	*73.96*	
		For 250 Lb., Add	*157.17*	
		For 300 Lb., Add	*221.88*	
22 11 16 00-1539	EA	3" Diameter, 125 Lb. Cast Bronze, FIP Threaded, Union	443.01	78.66
		For 150 Lb., Add	*114.27*	
		For 250 Lb., Add	*242.82*	
		For 300 Lb., Add	*342.80*	
22 11 16 00-1540	EA	4" Diameter, 125 Lb. Cast Bronze, FIP Threaded, Union	804.46	87.10
		For 150 Lb., Add	*252.05*	
		For 250 Lb., Add	*535.61*	
		For 300 Lb., Add	*756.16*	
22 11 16 00-1541		**125 Lb. Cast Bronze, Screwed, Companion Flanges** *(22 11 16 00-1421)* Note: Excludes bolt and gasket sets		
22 11 16 00-1542	EA	1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Companion Flange	199.08	29.79
22 11 16 00-1543	EA	3/4" Diameter, 125 Lb. Cast Bronze, Screwed, Companion Flange	217.42	35.77
22 11 16 00-1544	EA	1" Diameter, 125 Lb. Cast Bronze, Screwed, Companion Flange	249.32	41.63
22 11 16 00-1545	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, Screwed, Companion Flange	283.92	44.63
22 11 16 00-1546	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Companion Flange	335.63	47.62
22 11 16 00-1547	EA	2" Diameter, 125 Lb. Cast Bronze, Screwed, Companion Flange	421.76	50.61
22 11 16 00-1548	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Companion Flange	531.18	59.58
22 11 16 00-1549	EA	3" Diameter, 125 Lb. Cast Bronze, Screwed, Companion Flange	658.24	74.42
22 11 16 00-1550	EA	4" Diameter, 125 Lb. Cast Bronze, Screwed, Companion Flange	938.12	104.21
22 11 16 00-1551		**125 Lb. Cast Bronze, Screwed, Square Head Plugs** *(22 11 16 00-1421)*		
22 11 16 00-1552	EA	1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Square Head Plug	20.10	
22 11 16 00-1553	EA	3/4" Diameter, 125 Lb. Cast Bronze, Screwed, Square Head Plug	20.62	
22 11 16 00-1554	EA	1" Diameter, 125 Lb. Cast Bronze, Screwed, Square Head Plug	31.73	
22 11 16 00-1555	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, Screwed, Square Head Plug	36.47	
22 11 16 00-1556	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Square Head Plug	41.35	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1557	EA	2" Diameter, 125 Lb. Cast Bronze, Screwed, Square Head Plug	61.93	
22 11 16 00-1558	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Square Head Plug	93.31	
22 11 16 00-1559	EA	3" Diameter, 125 Lb. Cast Bronze, Screwed, Square Head Plug	136.16	
22 11 16 00-1560	EA	4" Diameter, 125 Lb. Cast Bronze, Screwed, Square Head Plug	227.75	
22 11 16 00-1561		**125 Lb. Cast Bronze, Screwed, Counter Sunk Plugs** *(22 11 16 00-1421)*		
22 11 16 00-1562	EA	1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Counter Sunk Plug	7.89	
22 11 16 00-1563	EA	3/4" Diameter, 125 Lb. Cast Bronze, Screwed, Counter Sunk Plug	9.44	
22 11 16 00-1564	EA	1" Diameter, 125 Lb. Cast Bronze, Screwed, Counter Sunk Plug	14.19	
22 11 16 00-1565	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, Screwed, Counter Sunk Plug	22.05	
22 11 16 00-1566	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Counter Sunk Plug	34.92	
22 11 16 00-1567	EA	2" Diameter, 125 Lb. Cast Bronze, Screwed, Counter Sunk Plug	54.12	
22 11 16 00-1568	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Counter Sunk Plug	105.33	
22 11 16 00-1569	EA	3" Diameter, 125 Lb. Cast Bronze, Screwed, Counter Sunk Plug	170.59	
22 11 16 00-1570	EA	4" Diameter, 125 Lb. Cast Bronze, Screwed, Counter Sunk Plug	416.06	
22 11 16 00-1571		**125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushings** *(22 11 16 00-1421)*		
22 11 16 00-1572	EA	1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	6.28	
22 11 16 00-1573	EA	3/4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	7.89	
22 11 16 00-1574	EA	1" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	11.04	
22 11 16 00-1575	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	18.90	
22 11 16 00-1576	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	26.78	
22 11 16 00-1577	EA	2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	33.09	
22 11 16 00-1578	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	83.43	
22 11 16 00-1579	EA	3" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	122.81	
22 11 16 00-1580	EA	4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	268.99	
22 11 16 00-1581		**125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushings** *(22 11 16 00-1421)*		
22 11 16 00-1582	EA	1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	11.04	
22 11 16 00-1583	EA	3/4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	15.72	
22 11 16 00-1584	EA	1" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	27.41	
22 11 16 00-1585	EA	1-1/4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	37.22	
22 11 16 00-1586	EA	1-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	46.53	
22 11 16 00-1587	EA	2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	58.63	
22 11 16 00-1588	EA	2-1/2" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	119.70	
22 11 16 00-1589	EA	3" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	189.39	
22 11 16 00-1590	EA	4" Diameter, 125 Lb. Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	397.98	
22 11 16 00-1591		**1/2" Red Brass Pipe Nipples** *(22 11 16 00-1421)* Note: Threaded both ends.		
22 11 16 00-1592	EA	1/2" Diameter x Close, Red Brass Pipe Nipple	10.57	
22 11 16 00-1593	EA	1/2" Diameter x 1-1/2" Long, Red Brass Pipe Nipple	12.37	
22 11 16 00-1594	EA	1/2" Diameter x 2" Long, Red Brass Pipe Nipple	15.15	
22 11 16 00-1595	EA	1/2" Diameter x 2-1/2" Long, Red Brass Pipe Nipple	18.00	
22 11 16 00-1596	EA	1/2" Diameter x 3" Long, Red Brass Pipe Nipple	20.85	
22 11 16 00-1597	EA	1/2" Diameter x 3-1/2" Long, Red Brass Pipe Nipple	24.61	
22 11 16 00-1598	EA	1/2" Diameter x 4" Long, Red Brass Pipe Nipple	27.60	
22 11 16 00-1599	EA	1/2" Diameter x 4-1/2" Long, Red Brass Pipe Nipple	30.31	
22 11 16 00-1600	EA	1/2" Diameter x 5" Long, Red Brass Pipe Nipple	33.16	
22 11 16 00-1601	EA	1/2" Diameter x 5-1/2" Long, Red Brass Pipe Nipple	36.29	
22 11 16 00-1602	EA	1/2" Diameter x 6" Long, Red Brass Pipe Nipple	39.07	
22 11 16 00-1603		**3/4" Red Brass Pipe Nipples** *(22 11 16 00-1421)* Note: Threaded both ends.		
22 11 16 00-1604	EA	3/4" Diameter x Close, Red Brass Pipe Nipple	15.43	
22 11 16 00-1605	EA	3/4" Diameter x 1-1/2" Long, Red Brass Pipe Nipple	16.27	
22 11 16 00-1606	EA	3/4" Diameter x 2" Long, Red Brass Pipe Nipple	19.67	
22 11 16 00-1607	EA	3/4" Diameter x 2-1/2" Long, Red Brass Pipe Nipple	23.15	
22 11 16 00-1608	EA	3/4" Diameter x 3" Long, Red Brass Pipe Nipple	26.28	
22 11 16 00-1609	EA	3/4" Diameter x 3-1/2" Long, Red Brass Pipe Nipple	30.17	
22 11 16 00-1610	EA	3/4" Diameter x 4" Long, Red Brass Pipe Nipple	33.92	
22 11 16 00-1611	EA	3/4" Diameter x 4-1/2" Long, Red Brass Pipe Nipple	38.09	
22 11 16 00-1612	EA	3/4" Diameter x 5" Long, Red Brass Pipe Nipple	41.57	
22 11 16 00-1613	EA	3/4" Diameter x 5-1/2" Long, Red Brass Pipe Nipple	47.89	
22 11 16 00-1614	EA	3/4" Diameter x 6" Long, Red Brass Pipe Nipple	50.33	
22 11 16 00-1615		**1" Red Brass Pipe Nipples** *(22 11 16 00-1421)* Note: Threaded both ends.		
22 11 16 00-1616	EA	1" Diameter x Close, Red Brass Pipe Nipple	23.49	
22 11 16 00-1617	EA	1" Diameter x 1-1/2" Long, Red Brass Pipe Nipple	25.85	
22 11 16 00-1618	EA	1" Diameter x 2" Long, Red Brass Pipe Nipple	28.22	
22 11 16 00-1619	EA	1" Diameter x 2-1/2" Long, Red Brass Pipe Nipple	33.57	
22 11 16 00-1620	EA	1" Diameter x 3" Long, Red Brass Pipe Nipple	37.95	
22 11 16 00-1621	EA	1" Diameter x 3-1/2" Long, Red Brass Pipe Nipple	44.70	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1622	EA	1" Diameter x 4" Long, Red Brass Pipe Nipple	50.05	
22 11 16 00-1623	EA	1" Diameter x 4-1/2" Long, Red Brass Pipe Nipple	55.33	
22 11 16 00-1624	EA	1" Diameter x 5" Long, Red Brass Pipe Nipple	60.75	
22 11 16 00-1625	EA	1" Diameter x 5-1/2" Long, Red Brass Pipe Nipple	66.45	
22 11 16 00-1626	EA	1" Diameter x 6" Long, Red Brass Pipe Nipple	71.74	
22 11 16 00-1627		1-1/4" Red Brass Pipe Nipples *(22 11 16 00-1421)*		
		Note: Threaded both ends.		
22 11 16 00-1628	EA	1-1/4" Diameter x Close, Red Brass Pipe Nipple	34.76	
22 11 16 00-1629	EA	1-1/4" Diameter x 1-1/2" Long, Red Brass Pipe Nipple	37.04	
22 11 16 00-1630	EA	1-1/4" Diameter x 2" Long, Red Brass Pipe Nipple	39.83	
22 11 16 00-1631	EA	1-1/4" Diameter x 2-1/2" Long, Red Brass Pipe Nipple	47.96	
22 11 16 00-1632	EA	1-1/4" Diameter x 3" Long, Red Brass Pipe Nipple	56.03	
22 11 16 00-1633	EA	1-1/4" Diameter x 3-1/2" Long, Red Brass Pipe Nipple	65.76	
22 11 16 00-1634	EA	1-1/4" Diameter x 4" Long, Red Brass Pipe Nipple	73.82	
22 11 16 00-1635	EA	1-1/4" Diameter x 4-1/2" Long, Red Brass Pipe Nipple	81.88	
22 11 16 00-1636	EA	1-1/4" Diameter x 5" Long, Red Brass Pipe Nipple	90.02	
22 11 16 00-1637	EA	1-1/4" Diameter x 5-1/2" Long, Red Brass Pipe Nipple	98.50	
22 11 16 00-1638	EA	1-1/4" Diameter x 6" Long, Red Brass Pipe Nipple	106.56	
22 11 16 00-1639		1-1/2" Red Brass Pipe Nipples *(22 11 16 00-1421)*		
		Note: Threaded both ends.		
22 11 16 00-1640	EA	1-1/2" Diameter x Close, Red Brass Pipe Nipple	43.24	
22 11 16 00-1641	EA	1-1/2" Diameter x 1-1/2" Long, Red Brass Pipe Nipple	45.12	
22 11 16 00-1642	EA	1-1/2" Diameter x 2" Long, Red Brass Pipe Nipple	46.99	
22 11 16 00-1643	EA	1-1/2" Diameter x 2-1/2" Long, Red Brass Pipe Nipple	57.14	
22 11 16 00-1644	EA	1-1/2" Diameter x 3" Long, Red Brass Pipe Nipple	64.79	
22 11 16 00-1645	EA	1-1/2" Diameter x 3-1/2" Long, Red Brass Pipe Nipple	76.18	
22 11 16 00-1646	EA	1-1/2" Diameter x 4" Long, Red Brass Pipe Nipple	85.78	
22 11 16 00-1647	EA	1-1/2" Diameter x 4-1/2" Long, Red Brass Pipe Nipple	95.72	
22 11 16 00-1648	EA	1-1/2" Diameter x 5" Long, Red Brass Pipe Nipple	105.31	
22 11 16 00-1649	EA	1-1/2" Diameter x 5-1/2" Long, Red Brass Pipe Nipple	114.69	
22 11 16 00-1650	EA	1-1/2" Diameter x 6" Long, Red Brass Pipe Nipple	124.08	
22 11 16 00-1651		2" Red Brass Pipe Nipples *(22 11 16 00-1421)*		
		Note: Threaded both ends.		
22 11 16 00-1652	EA	2" Diameter x Close, Red Brass Pipe Nipple	66.45	
22 11 16 00-1653	EA	2" Diameter x 1-1/2" Long, Red Brass Pipe Nipple	68.78	
22 11 16 00-1654	EA	2" Diameter x 2" Long, Red Brass Pipe Nipple	71.08	
22 11 16 00-1655	EA	2" Diameter x 2-1/2" Long, Red Brass Pipe Nipple	73.40	
22 11 16 00-1656	EA	2" Diameter x 3" Long, Red Brass Pipe Nipple	83.14	
22 11 16 00-1657	EA	2" Diameter x 3-1/2" Long, Red Brass Pipe Nipple	98.01	
22 11 16 00-1658	EA	2" Diameter x 4" Long, Red Brass Pipe Nipple	110.11	
22 11 16 00-1659	EA	2" Diameter x 4-1/2" Long, Red Brass Pipe Nipple	122.20	
22 11 16 00-1660	EA	2" Diameter x 5" Long, Red Brass Pipe Nipple	133.11	
22 11 16 00-1661	EA	2" Diameter x 5-1/2" Long, Red Brass Pipe Nipple	146.81	
22 11 16 00-1662	EA	2" Diameter x 6" Long, Red Brass Pipe Nipple	158.83	
22 11 16 00-1663		Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing And Fittings (Viega) *(22 11 16)*		
		Note: ASTM F876/F877 standards and listed to ANSI/NSF Standards 14 and 61		
22 11 16 00-1664		Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing *(22 11 16 00-1663)*		
22 11 16 00-1665	LF	1/2" Diameter, Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing	5.78	3.47
22 11 16 00-1666	LF	3/4" Diameter, Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing	7.58	4.31
22 11 16 00-1667	LF	1" Diameter, Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing	8.86	4.55
22 11 16 00-1668	LF	1-1/4" Diameter, Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing	14.77	4.76
22 11 16 00-1669	LF	1-1/2" Diameter, Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing	16.03	5.02
22 11 16 00-1670	LF	2" Diameter, Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing	24.70	5.98
22 11 16 00-1671		Cross-Linked Polyethylene (PEX, XPE or XLPE) Fittings *(22 11 16 00-1663)*		
22 11 16 00-1672		Male Adapters *(22 11 16 00-1671)*		
22 11 16 00-1673	EA	1/2" Diameter, Male Adapter, Bronze Press Fitting	23.30	12.92
22 11 16 00-1674	EA	3/4" Diameter, Male Adapter, Bronze Press Fitting	32.99	17.11
22 11 16 00-1675	EA	1" Diameter, Male Adapter, Bronze Press Fitting	44.24	21.30
22 11 16 00-1676	EA	1-1/4" Diameter, Male Adapter, Bronze Press Fitting	74.39	27.58
22 11 16 00-1677	EA	1-1/2" Diameter, Male Adapter, Bronze Press Fitting	84.54	33.98
22 11 16 00-1678	EA	2" Diameter, Male Adapter, Bronze Press Fitting	111.36	43.19
22 11 16 00-1679		Female Adapters *(22 11 16 00-1671)*		
22 11 16 00-1680	EA	1/2" Diameter, Female Adapter, Bronze Press Fitting	25.97	12.92
22 11 16 00-1681	EA	3/4" Diameter, Female Adapter, Bronze Press Fitting	33.67	17.11
22 11 16 00-1682	EA	1" Diameter, Female Adapter, Bronze Press Fitting	49.67	21.30

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1683		**Tees** *(22 11 16 00-1671)*		
22 11 16 00-1684	EA	1/2" Diameter, Tee, Bronze Press Fitting	39.35	21.30
22 11 16 00-1685	EA	5/8" Diameter, Tee, Bronze Press Fitting	47.30	25.73
22 11 16 00-1686	EA	3/4" Diameter, Tee, Bronze Press Fitting	48.83	25.73
22 11 16 00-1687	EA	1" Diameter, Tee, Bronze Press Fitting	74.79	33.98
22 11 16 00-1688	EA	1-1/4" Diameter, Tee, Bronze Press Fitting	118.33	42.69
22 11 16 00-1689	EA	1-1/2" Diameter, Tee, Bronze Press Fitting	142.36	51.45
22 11 16 00-1690	EA	2" Diameter, Tee, Bronze Press Fitting	186.20	63.89
22 11 16 00-1691	EA	3/4" x 1/2" Diameter, Reducing Tee, Bronze Press Fitting	48.83	25.73
22 11 16 00-1692	EA	1" x 3/4" Diameter, Reducing Tee, Bronze Press Fitting	68.98	33.98
22 11 16 00-1693	EA	1-1/4" x 1" Diameter, Reducing Tee, Bronze Press Fitting	109.84	42.69
22 11 16 00-1694	EA	1-1/2" x 1" Diameter, Reducing Tee, Bronze Press Fitting	133.49	51.45
22 11 16 00-1695	EA	1-1/2" x 1-1/4" Diameter, Reducing Tee, Bronze Press Fitting	140.64	51.45
22 11 16 00-1696	EA	2" x 1-1/2" Diameter, Reducing Tee, Bronze Press Fitting	175.22	63.89
22 11 16 00-1697		**Couplings** *(22 11 16 00-1671)*		
22 11 16 00-1698	EA	1/2" Diameter, Coupling, Bronze Press Fitting	23.41	12.92
22 11 16 00-1699	EA	5/8" Diameter, Coupling, Bronze Press Fitting	32.99	17.11
22 11 16 00-1700	EA	3/4" Diameter, Coupling, Bronze Press Fitting	32.53	17.11
22 11 16 00-1701	EA	1" Diameter, Coupling, Bronze Press Fitting	45.01	21.30
22 11 16 00-1702	EA	1-1/4" Diameter, Coupling, Bronze Press Fitting	73.05	27.58
22 11 16 00-1703	EA	1-1/2" Diameter, Coupling, Bronze Press Fitting	95.44	33.98
22 11 16 00-1704	EA	2" Diameter, Coupling, Bronze Press Fitting	126.48	43.19
22 11 16 00-1705	EA	3/4" x 1/2" Diameter, Reducing Coupling, Bronze Press Fitting	35.97	17.11
22 11 16 00-1706	EA	1" x 3/4" Diameter, Reducing Coupling, Bronze Press Fitting	44.62	21.30
22 11 16 00-1707	EA	1-1/4" x 1" Diameter, Reducing Coupling, Bronze Press Fitting	67.39	27.58
22 11 16 00-1708	EA	1-1/2" x 1" Diameter, Reducing Coupling, Bronze Press Fitting	86.76	33.98
22 11 16 00-1709	EA	1-1/2" x 1-1/4" Diameter, Reducing Coupling, Bronze Press Fitting	90.08	33.98
22 11 16 00-1710	EA	2" x 1-1/2" Diameter, Reducing Coupling, Bronze Press Fitting	119.04	43.19
22 11 16 00-1711		**90 Degree Elbows** *(22 11 16 00-1671)*		
22 11 16 00-1712	EA	1/2" Diameter, 90 Degree Elbow, Bronze Press Fitting	25.21	12.80
22 11 16 00-1713	EA	5/8" Diameter, 90 Degree Elbow, Bronze Press Fitting	32.99	17.11
22 11 16 00-1714	EA	3/4" Diameter, 90 Degree Elbow, Bronze Press Fitting	34.32	17.11
22 11 16 00-1715	EA	1" Diameter, 90 Degree Elbow, Bronze Press Fitting	52.16	21.30
22 11 16 00-1716	EA	1-1/4" Diameter, 90 Degree Elbow, Bronze Press Fitting	83.18	27.58
22 11 16 00-1717	EA	1-1/2" Diameter, 90 Degree Elbow, Bronze Press Fitting	104.34	33.98
22 11 16 00-1718	EA	2" Diameter, 90 Degree Elbow, Bronze Press Fitting	138.85	43.19
22 11 19		**Domestic Water Piping Specialties** *(22 11)*		
22 11 19 00-0001		**Rubber Hose And Clamps** *(22 11 19)*		
22 11 19 00-0002		**General Purpose Hose** *(22 11 19 00-0001)*		
		Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003	LF	3/8" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	8.40	2.59
22 11 19 00-0004	LF	1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	9.86	2.59
22 11 19 00-0005	LF	5/8" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	12.04	2.59
22 11 19 00-0006	LF	3/4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	12.15	2.59
22 11 19 00-0007	LF	1" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	16.54	3.88
22 11 19 00-0008	LF	1-1/4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	27.30	3.88
22 11 19 00-0009	LF	1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	29.69	5.17
22 11 19 00-0010	LF	2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	56.80	5.17
22 11 19 00-0011		**Reinfored EPDM Water Hose Assembly** *(22 11 19 00-0001)*		
		Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012	LF	1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	75.34	5.17
22 11 19 00-0013	LF	2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	88.88	5.17
22 11 19 00-0014	LF	3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	124.95	6.36
22 11 19 00-0015	LF	4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	175.50	8.60
22 11 19 00-0016		**Chemical Resistant Rubber Hoses** *(22 11 19 00-0001)*		
22 11 19 00-0017	EA	50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose	1,407.56	300.79
22 11 19 00-0018	EA	50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose	1,935.62	300.79
22 11 19 00-0019		**Water Pump Hose** *(22 11 19 00-0001)*		
22 11 19 00-0020	EA	2" Inside Diameter, 20' Rubber Discharge Hose	644.28	79.02
22 11 19 00-0021	EA	2" Inside Diameter, 20' Rubber Intake Hose	681.89	79.02

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0022		**Barbed Hose x Threaded Male Pipe, Steel Coupling** *(22 11 19 00-0001)*		
22 11 19 00-0023	EA	3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	32.80	10.86
22 11 19 00-0024	EA	1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	34.76	11.64
22 11 19 00-0025	EA	5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	37.24	12.42
22 11 19 00-0026	EA	3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	41.53	13.96
22 11 19 00-0027	EA	1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling	50.61	17.07
22 11 19 00-0028	EA	1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling	59.89	20.43
22 11 19 00-0029	EA	1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling	77.06	26.89
22 11 19 00-0030	EA	2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling	97.06	33.62
22 11 19 00-0031		**Worm-Drive Hose Clamp** *(22 11 19 00-0001)*		
22 11 19 00-0032	EA	3/8" To 1" Diameter, Worm Drive Hose Clamp	13.54	3.88
22 11 19 00-0033	EA	1/2" To 1-1/6" Diameter, Worm Drive Hose Clamp	14.32	3.88
22 11 19 00-0034	EA	5/8" To 1-1/2" Diameter, Worm Drive Hose Clamp	15.16	3.88
22 11 19 00-0035	EA	3/4" To 2" Diameter, Worm Drive Hose Clamp	16.14	3.88
22 11 19 00-0036	EA	1" To 2-1/2" Diameter, Worm Drive Hose Clamp	17.24	3.88
22 11 19 00-0037	EA	1-1/4" To 2-3/4" Diameter, Worm Drive Hose Clamp	18.67	5.17
22 11 19 00-0038	EA	1-1/2" To 3" Diameter, Worm Drive Hose Clamp	20.15	5.17
22 11 19 00-0039		**Trap Primer And Accessories** *(22 11 19)*		
22 11 19 00-0040		**Trap Primer** *(22 11 19 00-0039)*		
22 11 19 00-0041	EA	1/2" Diameter Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699)	344.95	19.49
22 11 19 00-0042	EA	1/2" Diameter Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500)	211.38	12.99
22 11 19 00-0043	EA	1/2" Diameter Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500)	204.65	12.99
22 11 19 00-0044		**Trap Primer Distribution Unit** *(22 11 19 00-0039)*		
22 11 19 00-0045	EA	Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U) Note: Can be used for two, three or four drains.	174.77	25.99
22 11 19 00-0046	EA	Copper Four Opening Trap Primer Distribution Unit (PPP DU-4) Note: Can be used for two, three or four drains.	192.90	25.99
22 11 19 00-0047		**Trap Primer Manifold** *(22 11 19 00-0039)*		
22 11 19 00-0048	EA	Two Outlet Trap Primer Manifold	276.56	34.95
22 11 19 00-0049	EA	Four Outlet Trap Primer Manifold	419.72	39.76
22 11 19 00-0050	EA	Six Outlet Trap Primer Manifold	559.77	42.10
22 11 19 00-0051	EA	Eight Outlet Trap Primer Manifold	704.55	49.38
22 11 19 00-0052		**Sewage Air Release Valves** *(22 11 19)*		
22 11 19 00-0053		**Cast Iron, Sewage Air Release Valves** *(22 11 19 00-0052)* Note: Stainless steel float.		
22 11 19 00-0054	EA	2" x 1/2" Diameter NPT, Cast Iron, Sewage Air Release Valve (Apco 400)	1,186.89	47.45
		For Back Flush Attachment, Add	*650.00*	
22 11 19 00-0055	EA	3" x 1/2" Diameter NPT, Cast Iron, Sewage Air Release Valve (Apco 400)	1,452.08	79.29
		For Back Flush Attachment, Add	*650.00*	
22 11 19 00-0056	EA	4" x 1/2" Diameter NPT, Cast Iron, Sewage Air Release Valve (Apco 400)	1,841.43	100.09
		For Back Flush Attachment, Add	*650.00*	
22 11 19 00-0057		**Cast Iron, Sewage Air Vacuum Valves** *(22 11 19 00-0052)* Note: Stainless steel float.		
22 11 19 00-0058	EA	2" x 1" Diameter NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401)	1,212.89	47.45
		For Back Flush Attachment, Add	*650.00*	
22 11 19 00-0059	EA	2" x 2" Diameter NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402)	2,389.39	47.45
		For Back Flush Attachment, Add	*650.00*	
22 11 19 00-0060	EA	3" x 2" Diameter NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403)	2,862.58	79.29
		For Back Flush Attachment, Add	*650.00*	
22 11 19 00-0061	EA	4" x 4" Diameter NPT, With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404)	4,243.18	100.09
22 11 19 00-0062		**Cast Iron, Sewage Combination Air Valves** *(22 11 19 00-0052)* Note: Stainless steel float.		
22 11 19 00-0063	EA	2" x 1" Diameter NPT, Sewage Combination Air Valve (Apco 443)	2,603.89	47.45
22 11 19 00-0064	EA	2" x 2" Diameter NPT, Sewage Combination Air Valve (Apco 445)	3,595.14	47.45
22 11 19 00-0065	EA	3" x 3" Diameter NPT, Sewage Combination Air Valve (Apco 447)	4,201.58	79.29
22 11 19 00-0066	EA	4" x 4" Diameter NPT, Sewage Combination Air Valve (Apco 449)	5,136.93	100.09
22 11 19 00-0067		**Brass, Anti Siphon Vacuum Breakers** *(22 11 19)* Note: Watts 288A		
22 11 19 00-0068	EA	1/2" Brass, Anti Siphon Vacuum Breaker	122.37	32.49
22 11 19 00-0069	EA	3/4" Brass, Anti Siphon Vacuum Breaker	140.72	36.38
22 11 19 00-0070	EA	1" Brass, Anti Siphon Vacuum Breaker	291.55	41.58

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0071	EA	1-1/4" Brass, Anti Siphon Vacuum Breaker	465.52	48.08
22 11 19 00-0072	EA	1-1/2" Brass, Anti Siphon Vacuum Breaker	556.15	53.27
22 11 19 00-0073	EA	2" Brass, Anti Siphon Vacuum Breaker	815.35	64.97
22 11 19 00-0074	EA	2-1/2" Brass, Anti Siphon Vacuum Breaker	2,146.78	81.22
22 11 19 00-0075		Polyvinyl Chloride (PVC) Vacuum Breakers *(22 11 19)*		
		Note: 100 psi maximum, 140 degree F maximum.		
22 11 19 00-0076	EA	1/2" Diameter, Polyvinyl Chloride (PVC) Vacuum Breaker With Vitron Seal (Plast-O-Matic VBM050V-PV)	384.95	32.49
22 11 19 00-0077	EA	3/4" Diameter, Polyvinyl Chloride (PVC) Vacuum Breaker With Vitron Seal (Plast-O-Matic VBM075V-PV)	420.88	36.38
22 11 19 00-0078	EA	1" Diameter, Polyvinyl Chloride (PVC) Vacuum Breaker With Vitron Seal (Plast-O-Matic VBM100V-PV)	464.03	40.93
22 11 19 00-0079		Anti Siphon Pressure Vacuum Breakers *(22 11 19)*		
		Note: Watts 800M4QT		
22 11 19 00-0080	EA	1/2" Anti Siphon Pressure Type Vacuum Breaker	365.50	32.49
22 11 19 00-0081	EA	3/4" Anti Siphon Pressure Type Vacuum Breaker	318.78	36.38
22 11 19 00-0082	EA	1" Anti Siphon Pressure Type Vacuum Breaker	456.92	41.58
22 11 19 00-0083	EA	1-1/4" Anti Siphon Pressure Type Vacuum Breaker	829.34	48.08
22 11 19 00-0084	EA	1-1/2" Anti Siphon Pressure Type Vacuum Breaker	1,010.18	53.27
22 11 19 00-0085	EA	2" Anti Siphon Pressure Type Vacuum Breaker	1,018.73	64.97
22 11 19 00-0086		Bellows Type Water Hammer Arrestors *(22 11 19)*		
22 11 19 00-0087	EA	Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005)	269.75	15.54
22 11 19 00-0088	EA	>11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010)	524.12	18.80
22 11 19 00-0089	EA	>32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020)	764.09	18.80
22 11 19 00-0090	EA	>60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030)	1,859.63	18.80
22 11 19 00-0091	EA	>113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040)	2,088.20	18.80
22 11 19 00-0092	EA	>154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050)	2,558.13	18.80
22 11 19 00-0093		Piston Type Water Hammer Arrestors *(22 11 19)*		
22 11 19 00-0094		Threaded Piston Type Water Hammer Arrestors *(22 11 19 00-0093)*		
22 11 19 00-0095	EA	Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A)	203.22	8.66
22 11 19 00-0096	EA	>11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B)	391.76	9.99
22 11 19 00-0097	EA	>32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C)	583.09	10.83
22 11 19 00-0098	EA	>60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D)	1,437.18	13.97
22 11 19 00-0099	EA	>113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E)	1,750.35	17.33
22 11 19 00-0100	EA	>154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F)	1,991.97	18.80
22 11 19 00-0101		Escutcheons *(22 11 19)*		
22 11 19 00-0102		Brass Escutcheons *(22 11 19 00-0101)*		
22 11 19 00-0103		Shallow Brass Escutcheons *(22 11 19 00-0102)*		
22 11 19 00-0104	EA	3/8" IPS, Antique Or Polished Brass Shallow Escutcheon	14.46	3.25
22 11 19 00-0105	EA	1/2" IPS, Antique Or Polished Brass Shallow Escutcheon	15.57	3.25
22 11 19 00-0106		Deep Bell Brass Escutcheons *(22 11 19 00-0102)*		
22 11 19 00-0107	EA	3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon	17.00	3.64
22 11 19 00-0108	EA	1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon	17.04	3.64
22 11 19 00-0109		Chrome Plated Brass Escutcheons With Setscrew *(22 11 19 00-0102)*		
22 11 19 00-0110	EA	3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	22.75	3.25
22 11 19 00-0111	EA	1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	22.99	3.25
22 11 19 00-0112	EA	5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	23.33	3.25
22 11 19 00-0113	EA	3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.57	3.25
22 11 19 00-0114	EA	7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.99	3.89
22 11 19 00-0115	EA	1" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.19	3.89
22 11 19 00-0116	EA	1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.18	4.29
22 11 19 00-0117	EA	1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.46	4.55
22 11 19 00-0118	EA	2" IPS, Chrome Plated Brass Escutcheon With Setscrew	40.55	5.20
22 11 19 00-0119		Plastic Escutcheons *(22 11 19 00-0101)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0120		**Split-Ring White Plastic Escutcheons** *(22 11 19 00-0119)*		
22 11 19 00-0121	EA	3/8" IPS, Split-Ring White Plastic Escutcheon	7.88	3.23
22 11 19 00-0122	EA	1/2" IPS, Split-Ring White Plastic Escutcheon	7.88	3.23
22 11 19 00-0123	EA	3/4" IPS, Split-Ring White Plastic Escutcheon	9.19	3.62
22 11 19 00-0124	EA	1" IPS, Split-Ring White Plastic Escutcheon	9.95	3.88
22 11 19 00-0125	EA	1-1/4" IPS, Split-Ring White Plastic Escutcheon	10.72	4.27
22 11 19 00-0126	EA	1-1/2" IPS, Split-Ring White Plastic Escutcheon	11.46	4.53
22 11 19 00-0127	EA	2" IPS, Split-Ring White Plastic Escutcheon	12.91	5.17
22 11 19 00-0128	EA	2-1/2" IPS, Split-Ring White Plastic Escutcheon	16.50	5.56
22 11 19 00-0129	EA	3" IPS, Split-Ring White Plastic Escutcheon	20.10	5.82
22 11 19 00-0130	EA	4" IPS, Split-Ring White Plastic Escutcheon	24.34	6.47
22 11 19 00-0131		**Chrome Plate Plastic Escutcheons** *(22 11 19 00-0119)*		
22 11 19 00-0132	EA	1/2" IPS, Chrome Plate Plastic Escutcheon	10.30	3.23
22 11 19 00-0133	EA	3/4" IPS, Chrome Plate Plastic Escutcheon	11.26	3.62
22 11 19 00-0134	EA	1" IPS, Chrome Plate Plastic Escutcheon	12.62	3.88
22 11 19 00-0135	EA	1-1/4" IPS, Chrome Plate Plastic Escutcheon	13.98	4.27
22 11 19 00-0136	EA	1-1/2" IPS, Chrome Plate Plastic Escutcheon	14.75	4.53
22 11 19 00-0137	EA	2" IPS, Chrome Plate Plastic Escutcheon	18.52	5.17
22 11 19 00-0138	EA	2-1/2" IPS, Chrome Plate Plastic Escutcheon	26.60	5.56
22 11 19 00-0139	EA	3" IPS, Chrome Plate Plastic Escutcheon	27.56	5.82
22 11 19 00-0140	EA	4" IPS, Chrome Plate Plastic Escutcheon	29.47	6.47
22 11 19 00-0141		**Stainless Steel Escutcheons** *(22 11 19 00-0101)*		
22 11 19 00-0142		**Shallow Stainless Steel Escutcheons** *(22 11 19 00-0141)*		
22 11 19 00-0143	EA	3/8" IPS, Shallow Stainless Steel Escutcheon	20.00	3.25
22 11 19 00-0144	EA	1/2" IPS, Shallow Stainless Steel Escutcheon	20.00	3.25
22 11 19 00-0145	EA	3/4" IPS, Shallow Stainless Steel Escutcheon	28.43	3.64
22 11 19 00-0146		**Chrome Plated Steel Escutcheons** *(22 11 19 00-0101)*		
22 11 19 00-0147		**Split-Ring Chrome Plated Steel Escutcheons** *(22 11 19 00-0146)*		
22 11 19 00-0148	EA	1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.18	3.23
22 11 19 00-0149	EA	3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.83	3.62
22 11 19 00-0150	EA	1" IPS, Split-Ring Chrome Plated Steel Escutcheon	8.60	3.88
22 11 19 00-0151	EA	1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	9.24	4.27
22 11 19 00-0152	EA	1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	9.90	4.53
22 11 19 00-0153	EA	2" IPS, Split-Ring Chrome Plated Steel Escutcheon	11.40	5.17
22 11 19 00-0154	EA	2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	16.78	5.56
22 11 19 00-0155	EA	3" IPS, Split-Ring Chrome Plated Steel Escutcheon	17.81	5.82
22 11 19 00-0156	EA	3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	21.76	6.20
22 11 19 00-0157	EA	4" IPS, Split-Ring Chrome Plated Steel Escutcheon	19.44	6.47
22 11 19 00-0158	EA	5" IPS, Split-Ring Chrome Plated Steel Escutcheon	24.87	7.12
22 11 19 00-0159	EA	6" IPS, Split-Ring Chrome Plated Steel Escutcheon	28.91	7.76
22 11 19 00-0160		**Split-Ring/Springs Chrome Plated Steel Escutcheons** *(22 11 19 00-0146)*		
22 11 19 00-0161	EA	3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.14	3.23
22 11 19 00-0162	EA	1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.14	3.23
22 11 19 00-0163	EA	3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.94	3.62
22 11 19 00-0164	EA	1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	13.38	3.88
22 11 19 00-0165	EA	1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	14.25	4.27
22 11 19 00-0166	EA	1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	15.11	4.53
22 11 19 00-0167	EA	2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	17.88	5.17
22 11 19 00-0168	EA	2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	20.48	5.56
22 11 19 00-0169	EA	3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	24.87	5.82
22 11 19 00-0170	EA	3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	30.39	6.20
22 11 19 00-0171	EA	4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	30.89	6.47
22 11 19 00-0172	EA	5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	50.39	7.12
22 11 19 00-0173	EA	6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	52.66	7.76
22 11 19 00-0174		**Deep Bell Chrome Plated Steel Escutcheons** *(22 11 19 00-0146)*		
22 11 19 00-0175	EA	3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon	8.73	3.64
22 11 19 00-0176	EA	1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon	8.62	3.64
22 11 19 00-0177	EA	3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon	8.37	3.64
22 11 19 00-0178	EA	1" IPS, Deep Bell Chrome Plated Steel Escutcheon	9.28	3.89
22 11 19 00-0179	EA	1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon	10.06	4.29
22 11 19 00-0180	EA	1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon	11.07	4.55
22 11 19 00-0181		**Shallow Chrome Plated Steel Escutcheons** *(22 11 19 00-0146)*		
22 11 19 00-0182	EA	3/8" IPS, Shallow Chrome Plated Steel Escutcheon	7.91	3.25
22 11 19 00-0183	EA	1/2" IPS, Shallow Chrome Plated Steel Escutcheon	7.91	3.25
22 11 19 00-0184	EA	3/4" IPS, Shallow Chrome Plated Steel Escutcheon	8.03	3.25
22 11 19 00-0185	EA	1" IPS, Shallow Chrome Plated Steel Escutcheon	8.58	3.89

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0186	EA	1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon	9.28	4.29
22 11 19 00-0187	EA	1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon	10.27	4.55
22 11 19 00-0188	EA	2" IPS, Shallow Chrome Plated Steel Escutcheon	11.64	5.20
22 11 19 00-0189		**Wall Hydrants** *(22 11 19)*		
		Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0190		**Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants** *(22 11 19 00-0189)*		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0191	EA	6" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	420.98	32.49
		For Cast Bronze Box, Add	*18.12*	
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0192	EA	12" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	453.32	38.98
		For Cast Bronze Box, Add	*18.12*	
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0193	EA	18" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	479.93	46.91
		For Cast Bronze Box, Add	*18.12*	
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0194		**Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants** *(22 11 19 00-0189)*		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0195	EA	Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	489.12	54.57
		For Cast Bronze Box, Add	*18.12*	
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0196		**Cast Bronze Non-Freezing Wall Hydrant** *(22 11 19 00-0189)*		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0197	EA	3" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	291.69	40.29
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0198	EA	4" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	337.58	40.29
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0199	EA	6" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	337.58	40.29
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0200	EA	8" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	337.58	40.29
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0201	EA	10" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	348.26	81.22
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0202	EA	12" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	348.26	81.22
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0203	EA	18" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	380.21	81.22
		For 1" NPT Outlet, Add	*42.72*	
22 11 19 00-0204		**Stainless Steel Box Type Wall Hydrants** *(22 11 19 00-0189)*		
		Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0205	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140)	242.91	32.49
22 11 19 00-0206	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141)	258.92	32.49
22 11 19 00-0207	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150)	261.10	32.49
22 11 19 00-0208	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151)	285.12	32.49
22 11 19 00-0209	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145) Note: Includes hot and cold hose connections.	387.56	45.48
22 11 19 00-0210	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146) Note: Includes hot and cold hose connections.	397.02	45.48
22 11 19 00-0211	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155) Note: Includes hot and cold hose connections.	397.02	45.48
22 11 19 00-0212	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156) Note: Includes hot and cold hose connections.	419.58	45.48
22 11 19 00-0213		**Washer Boxes And Dryer Outlets** *(22 11 19)*		
22 11 19 00-0214		**Dryer Vent Kit** *(22 11 19 00-0213)*		
		Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0215	EA	Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	89.72	16.89
22 11 19 00-0216		**Washer Boxes And Dryer Vents** *(22 11 19 00-0213)*		
		Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0217	EA	2" Diameter Washing Machine Outlet Box, Plastic, Two 1/2" Diameter Supply Valves	316.90	25.99
22 11 19 00-0218		**Ice Maker Outlet Box** *(22 11 19)*		
		Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0219	EA	Plastic Ice Maker Outlet Box, 1/2" Diameter Quarter Turn Ball Valve, Wall Mount	169.18	25.99
22 11 19 00-0220	EA	Plastic Ice Maker Outlet Box, 1/2" Diameter Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	172.29	25.99
22 11 19 00-0221	EA	Steel Ice Maker Outlet Box, 1/2" Diameter Quarter Turn Ball Valve, Wall Mount	253.52	25.99

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0222		**Tempering Controllers For Potable Hot Water** *(22 11 19)*		
22 11 19 00-0223		**Point-Of-Use Thermostatic Mixing Valves (Bradley)** *(22 11 19 00-0222)* Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0224	EA	1/2" Diameter Inlets, 1/2" Diameter Outlet, Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007)	609.58	31.45
22 11 19 00-0225	EA	1/2" Diameter Inlets, 1/2" Diameter Outlet, Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004)	163.78	31.45
22 11 19 00-0226	EA	1/2" Diameter Inlets, 1/2" Diameter Outlet, Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008)	343.82	31.45
22 11 19 00-0227	EA	3/4" Diameter Inlets, 3/4" Diameter Outlet, Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016)	393.18	42.37
22 11 19 00-0228		**Thermostatic Mixing Valves (Bradley)** *(22 11 19 00-0222)* Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0229	EA	3/4" Diameter Inlets, 3/4" Diameter Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	1,665.11	45.36
22 11 19 00-0230	EA	3/4" Diameter Inlets, 1" Diameter Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,867.78	55.87
22 11 19 00-0231	EA	1" Diameter Inlets, 1-1/4" Diameter Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	2,245.97	64.99
22 11 19 00-0232	EA	1-1/4" Diameter Inlets, 1-1/2" Diameter Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	2,915.32	68.31
22 11 19 00-0233	EA	2" Diameter Inlets, 2" Diameter Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	3,914.70	88.62
22 11 19 00-0234		**High Low Temperature Thermostatic Mixing Valves (Bradley)** *(22 11 19 00-0222)* Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0235	EA	3/4" Diameter Inlets, 1" Diameter Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	4,255.98	69.87
22 11 19 00-0236	EA	1" Diameter Inlets, 1-1/4" Diameter Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080)	5,541.73	81.24
22 11 19 00-0237	EA	1-1/4" Diameter Inlets, 1-1/2" Diameter Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130)	6,465.31	85.39
22 11 19 00-0238	EA	2" Diameter Inlets, 2" Diameter Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	7,158.66	110.78
22 11 19 00-0239		**Thermostatic Mixing Valves (Leonard)** *(22 11 19 00-0222)* Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0240	EA	3/4" Diameter In x 3/4" Diameter Out, Thermostatic Mixing Valve (Leonard LV-981-RF) Note: For hot water or two pipe low pressure steam.	1,447.02	45.36
22 11 19 00-0241	EA	1" Diameter In x 1-1/4" Diameter Out, Thermostatic Mixing Valve (Leonard LV-982-RF) Note: For hot water or two pipe low pressure steam.	1,701.87	55.87
22 11 19 00-0242	EA	1-1/4" Diameter In x 1-1/4" Diameter Out, Thermostatic Mixing Valve (Leonard LV-983-RF) Note: For hot water or two pipe low pressure steam.	2,094.25	64.99
22 11 19 00-0243	EA	1-1/4" Diameter In x 1-1/2" Diameter Out, Thermostatic Mixing Valve (Leonard LV-984-RF) Note: For hot water or two pipe low pressure steam.	2,568.57	68.33
22 11 19 00-0244	EA	2" Diameter In x 2" Diameter Out, Thermostatic Mixing Valve (Leonard LV-985-RF) Note: For hot water or two pipe low pressure steam.	3,825.17	88.62
22 11 19 00-0245		**Water Mixing/Self Operating Temperature Regulator** *(22 11 19 00-0222)* Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0246	EA	3/4" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,426.66	64.97
22 11 19 00-0247	EA	1" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,630.33	81.86
22 11 19 00-0248	EA	1-1/4" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,998.29	98.75
22 11 19 00-0249	EA	1-1/2" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,400.98	115.64
22 11 19 00-0250	EA	2" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	5,233.77	152.03
22 11 19 00-0251	EA	2-1/2" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	6,179.32	173.37
22 11 19 00-0252		**Thermostatic Mixing Valves (Holby)** *(22 11 19 00-0222)*		
22 11 19 00-0253	EA	2-1/2" Diameter, Thermostatic Mixing Valve (Holby HOLBY2500)	5,673.83	88.65
22 11 19 00-0254		**Backflow Preventer Valves** *(22 11 19)*		
22 11 19 00-0255		**Double Check Valve Backflow Preventer Assemblies** *(22 11 19 00-0254)*		
22 11 19 00-0256		**Threaded Double Check Valve Assemblies** *(22 11 19 00-0255)*		
22 11 19 00-0257		**Double Check Valve Assemblies With Quarter Turn Shut-Offs** *(22 11 19 00-0256)* Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0258	EA	1/2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	502.15	34.82
		For Work In Restricted Working Space, Add	*26.12*	
		For Owner Furnished Material, Deduct	*-415.09*	

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22 11 19 00-0259	EA	3/4" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	592.04	49.38
		For Work In Restricted Working Space, Add	*37.03*	
		For Owner Furnished Material, Deduct	*-468.60*	
22 11 19 00-0260	EA	1" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	682.40	60.30
		For Work In Restricted Working Space, Add	*45.22*	
		For Owner Furnished Material, Deduct	*-531.67*	
22 11 19 00-0261	EA	1-1/4" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	956.52	70.17
		For Work In Restricted Working Space, Add	*52.63*	
		For Owner Furnished Material, Deduct	*-781.10*	
22 11 19 00-0262	EA	1-1/2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	1,185.03	80.56
		For Work In Restricted Working Space, Add	*60.03*	
		For Owner Furnished Material, Deduct	*-984.92*	
22 11 19 00-0263	EA	2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	1,364.10	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-1,104.22*	

22 11 19 00-0264 Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer

(22 11 19 00-0256)

Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).

22 11 19 00-0265	EA	1/2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	620.93	34.82
		For Work In Restricted Working Space, Add	*26.12*	
		For Owner Furnished Material, Deduct	*-533.87*	
22 11 19 00-0266	EA	3/4" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	766.00	49.38
		For Work In Restricted Working Space, Add	*37.03*	
		For Owner Furnished Material, Deduct	*-642.56*	
22 11 19 00-0267	EA	1" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	895.67	60.30
		For Work In Restricted Working Space, Add	*45.22*	
		For Owner Furnished Material, Deduct	*-744.94*	
22 11 19 00-0268	EA	1-1/4" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	1,260.40	70.17
		For Work In Restricted Working Space, Add	*52.63*	
		For Owner Furnished Material, Deduct	*-1,084.98*	
22 11 19 00-0269	EA	1-1/2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	1,542.94	80.56
		For Work In Restricted Working Space, Add	*60.03*	
		For Owner Furnished Material, Deduct	*-1,342.83*	
22 11 19 00-0270	EA	2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	1,858.24	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-1,598.36*	

22 11 19 00-0271 Flanged Double Check Valve Assemblies *(22 11 19 00-0255)*

22 11 19 00-0272 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).

22 11 19 00-0273	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	6,807.45	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-6,424.58*	
22 11 19 00-0274	EA	3" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	7,479.60	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-7,054.86*	

22 11 19 00-0275 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).

22 11 19 00-0276	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY)	7,460.47	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-7,077.60*	
22 11 19 00-0277	EA	3" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	8,567.96	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-8,143.22*	

22 11 19 00-0278 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).

22 11 19 00-0279	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	6,854.53	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-6,471.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0280	EA	3" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	5,222.24	323.05
		For Work In Restricted Working Space, Add	*127.43*	
		For Owner Furnished Material, Deduct	*-4,797.48*	
22 11 19 00-0281	EA	4" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	8,176.70	478.58
		For Work In Restricted Working Space, Add	*191.33*	
		For Owner Furnished Material, Deduct	*-7,538.93*	
22 11 19 00-0282	EA	6" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	12,406.32	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-11,141.06*	
22 11 19 00-0283	EA	8" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	28,392.17	1,050.63
		For Work In Restricted Working Space, Add	*569.46*	
		For Owner Furnished Material, Deduct	*-26,493.97*	
22 11 19 00-0284	EA	10" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	36,475.78	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-34,216.38*	

22 11 19 00-0285 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).

22 11 19 00-0286	EA	4" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series)	9,555.78	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-8,918.07*	
22 11 19 00-0287	EA	6" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series)	15,872.04	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-14,606.78*	
22 11 19 00-0288	EA	10" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series)	42,388.31	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-40,128.91*	

22 11 19 00-0289 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).

22 11 19 00-0290	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series)	7,281.75	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-6,898.91*	
22 11 19 00-0291	EA	3" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series)	8,001.03	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-7,576.29*	
22 11 19 00-0292	EA	4" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series)	8,676.96	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-8,039.25*	
22 11 19 00-0293	EA	6" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series)	14,533.52	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-13,268.26*	
22 11 19 00-0294	EA	8" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series)	30,158.47	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-28,260.57*	
22 11 19 00-0295	EA	10" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series)	38,755.21	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-36,495.81*	

22 11 19 00-0296 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).

22 11 19 00-0297	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	4,330.34	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-3,947.50*	
22 11 19 00-0298	EA	3" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	4,767.22	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-4,342.48*	
22 11 19 00-0299	EA	4" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	5,375.17	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-4,737.46*	
22 11 19 00-0300	EA	6" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	8,672.94	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-7,407.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0301	EA	8" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	16,543.51	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-14,645.61*	
22 11 19 00-0302	EA	10" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	17,931.24	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-15,671.84*	

22 11 19 00-0303 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).

22 11 19 00-0304	EA	2-1/2" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	5,731.00	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-5,348.16*	
22 11 19 00-0305	EA	3" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	6,167.88	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-5,743.14*	
22 11 19 00-0306	EA	4" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series)	7,715.71	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-7,078.00*	
22 11 19 00-0307	EA	6" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	12,591.12	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-11,325.86*	
22 11 19 00-0308	EA	8" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	22,350.65	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-20,452.75*	
22 11 19 00-0309	EA	10" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	26,596.95	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-24,337.55*	

22 11 19 00-0310 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).

22 11 19 00-0311	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)	4,051.76	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-3,668.92*	
22 11 19 00-0312	EA	3" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)	4,501.30	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-4,076.56*	
22 11 19 00-0313	EA	4" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)	5,121.76	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-4,484.05*	
22 11 19 00-0314	EA	6" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)	8,473.87	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-7,208.61*	
22 11 19 00-0315	EA	8" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series)	16,351.66	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-14,453.76*	
22 11 19 00-0316	EA	10" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series)	18,466.89	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-16,207.49*	

22 11 19 00-0317 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).

22 11 19 00-0318	EA	2-1/2" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	5,334.97	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-4,952.13*	
22 11 19 00-0319	EA	3" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	5,771.84	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-5,347.10*	
22 11 19 00-0320	EA	4" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	7,320.17	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-6,682.46*	
22 11 19 00-0321	EA	6" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	12,169.83	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-10,904.57*	
22 11 19 00-0322	EA	8" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	21,712.98	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-19,815.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0323	EA	10" Diameter, Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	25,957.41	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-23,698.01*	

22 11 19 00-0324 Double Check Valve Assemblies With Butterfly Shut-Off Valves *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).

22 11 19 00-0325	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	4,710.62	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-4,327.78*	
22 11 19 00-0326	EA	3" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	5,147.50	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-4,722.76*	
22 11 19 00-0327	EA	4" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	5,755.45	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-5,117.74*	
22 11 19 00-0328	EA	6" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	9,062.80	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-7,797.54*	
22 11 19 00-0329	EA	8" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	16,933.37	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-15,035.47*	

22 11 19 00-0330 N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).

22 11 19 00-0331	EA	2-1/2" Diameter, N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series)	6,111.28	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-5,728.44*	
22 11 19 00-0332	EA	3" Diameter, N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	6,548.15	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-6,123.41*	
22 11 19 00-0333	EA	4" Diameter, N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	8,095.99	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-7,458.28*	
22 11 19 00-0334	EA	6" Diameter, N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	12,981.06	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-11,715.80*	
22 11 19 00-0335	EA	8" Diameter, N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	16,933.37	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-15,035.47*	

22 11 19 00-0336 Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 3500SY/350AOSY) *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves.

22 11 19 00-0337	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 3500SY/350AOSY)	2,828.14	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-2,445.27*	
22 11 19 00-0338	EA	3" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 3500SY/350AOSY)	2,973.10	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-2,548.36*	
22 11 19 00-0339	EA	4" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 3500SY/350AOSY)	3,649.99	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-3,012.28*	
22 11 19 00-0340	EA	6" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 3500SY/350AOSY)	6,043.69	741.80
		For Work In Restricted Working Space, Add	*402.01*	
		For Owner Furnished Material, Deduct	*-4,703.66*	
22 11 19 00-0341	EA	8" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 3500SY/350AOSY)	10,847.12	1,112.71
		For Work In Restricted Working Space, Add	*603.01*	
		For Owner Furnished Material, Deduct	*-8,837.08*	

22 11 19 00-0342 Flanged Double Check Valve Assembly With NRS Shut-offs (Zurn/Wilkins 350/350A NRS) *(22 11 19 00-0271)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves.

22 11 19 00-0343	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Zurn/Wilkins 350/350A NRS)	2,592.86	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-2,209.99*	
22 11 19 00-0344	EA	3" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Zurn/Wilkins 350/350A NRS)	2,726.92	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-2,302.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0345	EA	4" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Zurn/Wilkins 350/350A NRS)	3,359.61	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-2,721.90*	
22 11 19 00-0346	EA	6" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Zurn/Wilkins 350/350A NRS)	5,591.42	741.80
		For Work In Restricted Working Space, Add	*402.01*	
		For Owner Furnished Material, Deduct	*-4,251.39*	
22 11 19 00-0347	EA	8" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Zurn/Wilkins 350/350A NRS)	9,997.69	1,112.71
		For Work In Restricted Working Space, Add	*603.01*	
		For Owner Furnished Material, Deduct	*-7,987.65*	

22 11 19 00-0348 Grooved Double Check Valve Assemblies *(22 11 19 00-0255)*

22 11 19 00-0349 Double Check Valve Assemblies With Quarter Turn Shut-Offs *(22 11 19 00-0348)*

Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).

22 11 19 00-0350	EA	2-1/2" Diameter, Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)	4,051.76	153.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-3,668.92*	
22 11 19 00-0351	EA	3" Diameter, Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)	4,501.30	169.90
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-4,076.56*	

22 11 19 00-0352 N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs *(22 11 19 00-0348)*

Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).

22 11 19 00-0353	EA	2-1/2" Diameter, N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)	5,334.97	153.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-4,952.13*	
22 11 19 00-0354	EA	3" Diameter, N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)	5,771.84	169.90
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-5,347.10*	

22 11 19 00-0355 Reduced Pressure Zone Backflow Preventer Assemblies *(22 11 19 00-0254)*

22 11 19 00-0356 Threaded Reduced Pressure Zone Assemblies *(22 11 19 00-0355)*

22 11 19 00-0357 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs *(22 11 19 00-0356)*

Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).

22 11 19 00-0358	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	558.16	30.14
		For Work In Restricted Working Space, Add	*22.61*	
		For Owner Furnished Material, Deduct	*-482.79*	
22 11 19 00-0359	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	589.40	33.26
		For Work In Restricted Working Space, Add	*24.95*	
		For Owner Furnished Material, Deduct	*-506.23*	
22 11 19 00-0360	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	686.73	34.82
		For Work In Restricted Working Space, Add	*26.12*	
		For Owner Furnished Material, Deduct	*-599.67*	
22 11 19 00-0361	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	922.09	49.38
		For Work In Restricted Working Space, Add	*37.03*	
		For Owner Furnished Material, Deduct	*-798.65*	
22 11 19 00-0362	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,093.92	60.30
		For Work In Restricted Working Space, Add	*45.22*	
		For Owner Furnished Material, Deduct	*-943.19*	
22 11 19 00-0363	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,655.00	70.17
		For Work In Restricted Working Space, Add	*52.63*	
		For Owner Furnished Material, Deduct	*-1,479.58*	
22 11 19 00-0364	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,749.28	80.56
		For Work In Restricted Working Space, Add	*60.03*	
		For Owner Furnished Material, Deduct	*-1,549.17*	
22 11 19 00-0365	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	2,098.21	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-1,838.33*	

22 11 19 00-0366 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer *(22 11 19 00-0356)*

Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).

22 11 19 00-0367	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	616.60	30.14
		For Work In Restricted Working Space, Add	*22.61*	
		For Owner Furnished Material, Deduct	*-541.23*	
22 11 19 00-0368	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	650.99	33.26
		For Work In Restricted Working Space, Add	*24.95*	
		For Owner Furnished Material, Deduct	*-567.82*	
22 11 19 00-0369	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	771.14	49.38
		For Work In Restricted Working Space, Add	*26.12*	
		For Owner Furnished Material, Deduct	*-684.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0370	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	1,054.75	49.38
		For Work In Restricted Working Space, Add	*37.03*	
		For Owner Furnished Material, Deduct	*-931.31*	
22 11 19 00-0371	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	1,259.79	60.30
		For Work In Restricted Working Space, Add	*45.22*	
		For Owner Furnished Material, Deduct	*-1,109.06*	
22 11 19 00-0372	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	1,881.21	70.17
		For Work In Restricted Working Space, Add	*52.63*	
		For Owner Furnished Material, Deduct	*-1,705.79*	
22 11 19 00-0373	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	2,068.51	80.56
		For Work In Restricted Working Space, Add	*60.03*	
		For Owner Furnished Material, Deduct	*-1,868.40*	
22 11 19 00-0374	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	2,489.87	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-2,229.99*	

22 11 19 00-0375 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs *(22 11 19 00-0356)*

Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).

22 11 19 00-0376	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	922.09	49.38
		For Work In Restricted Working Space, Add	*37.03*	
		For Owner Furnished Material, Deduct	*-798.65*	
22 11 19 00-0377	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,093.92	60.30
		For Work In Restricted Working Space, Add	*45.22*	
		For Owner Furnished Material, Deduct	*-943.19*	
22 11 19 00-0378	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,655.00	70.17
		For Work In Restricted Working Space, Add	*52.63*	
		For Owner Furnished Material, Deduct	*-1,479.58*	
22 11 19 00-0379	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,749.28	80.56
		For Work In Restricted Working Space, Add	*60.03*	
		For Owner Furnished Material, Deduct	*-1,549.17*	
22 11 19 00-0380	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	2,098.21	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-1,838.33*	

22 11 19 00-0381 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer *(22 11 19 00-0356)*

Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).

22 11 19 00-0382	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	1,054.75	49.38
		For Work In Restricted Working Space, Add	*37.03*	
		For Owner Furnished Material, Deduct	*-931.31*	
22 11 19 00-0383	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	1,259.79	60.30
		For Work In Restricted Working Space, Add	*45.22*	
		For Owner Furnished Material, Deduct	*-1,109.06*	
22 11 19 00-0384	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	1,881.21	70.17
		For Work In Restricted Working Space, Add	*52.63*	
		For Owner Furnished Material, Deduct	*-1,705.79*	
22 11 19 00-0385	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	2,068.51	80.56
		For Work In Restricted Working Space, Add	*60.03*	
		For Owner Furnished Material, Deduct	*-1,868.40*	
22 11 19 00-0386	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	2,489.87	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-2,229.99*	

22 11 19 00-0387 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs *(22 11 19 00-0356)*

Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).

22 11 19 00-0388	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	1,907.37	49.38
		For Work In Restricted Working Space, Add	*37.03*	
		For Owner Furnished Material, Deduct	*-1,783.93*	
22 11 19 00-0389	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	2,257.51	60.30
		For Work In Restricted Working Space, Add	*45.22*	
		For Owner Furnished Material, Deduct	*-2,106.78*	
22 11 19 00-0390	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	3,475.99	70.17
		For Work In Restricted Working Space, Add	*52.63*	
		For Owner Furnished Material, Deduct	*-3,300.57*	
22 11 19 00-0391	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	3,757.46	80.56
		For Work In Restricted Working Space, Add	*60.03*	
		For Owner Furnished Material, Deduct	*-3,557.35*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0392	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT)	4,357.81	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-4,097.93*	

22 11 19 00-0393 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer *(22 11 19 00-0356)*

Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).

22 11 19 00-0394	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	2,570.49	49.38
		For Work In Restricted Working Space, Add	*37.03*	
		For Owner Furnished Material, Deduct	*-2,447.05*	
22 11 19 00-0395	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	3,055.47	60.30
		For Work In Restricted Working Space, Add	*45.22*	
		For Owner Furnished Material, Deduct	*-2,904.74*	
22 11 19 00-0396	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	4,660.47	70.17
		For Work In Restricted Working Space, Add	*52.63*	
		For Owner Furnished Material, Deduct	*-4,485.05*	
22 11 19 00-0397	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	5,090.60	80.56
		For Work In Restricted Working Space, Add	*60.03*	
		For Owner Furnished Material, Deduct	*-4,890.49*	
22 11 19 00-0398	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	6,045.94	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-5,786.06*	

22 11 19 00-0399 Threaded Reduced Pressure Principle Assembly (Zurn/Wilkins 975) *(22 11 19 00-0356)*

22 11 19 00-0400	EA	2" Threaded Reduced Pressure Principle Assembly (Zurn/Wilkins 975XL)	1,126.62	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-866.74*	
22 11 19 00-0401	EA	2" Threaded Reduced Pressure Principle Assembly (Zurn/Wilkins 975XL2)	1,256.65	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-996.77*	
22 11 19 00-0402	EA	2" Diameter, Threaded Reduced Pressure Principle Assembly With Union Ball Valves (Zurn/Wilkins 975XLU)	1,625.53	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-1,365.65*	
22 11 19 00-0403	EA	2" Diameter, Threaded Reduced Pressure Principle Assembly With Integral Relief Valve Monitor Switch (Zurn/Wilkins 975XLMS)	1,382.74	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-1,122.86*	
22 11 19 00-0404	EA	2" Threaded Reduced Pressure Principle Assembly With Integral Battery Operated Monitor Switch (Zurn/Wilkins 975XLBMS)	1,854.89	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-1,595.01*	
22 11 19 00-0405	EA	2" Threaded Reduced Pressure Principle Assembly With 90 Degree Elbows (Zurn/Wilkins 975XLSEU)	1,858.87	103.95
		For Work In Restricted Working Space, Add	*77.96*	
		For Owner Furnished Material, Deduct	*-1,598.99*	

22 11 19 00-0406 Flanged Reduced Pressure Zone Assemblies *(22 11 19 00-0355)*

22 11 19 00-0407 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).

22 11 19 00-0408	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series)	6,260.02	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-5,877.15*	
22 11 19 00-0409	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series)	7,054.00	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-6,629.26*	

22 11 19 00-0410 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).

22 11 19 00-0411	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series)	7,465.34	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-7,082.47*	
22 11 19 00-0412	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series)	8,454.25	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-8,029.51*	

22 11 19 00-0413 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0414	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series)	6,721.36	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-6,338.49*	
22 11 19 00-0415	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series)	7,820.72	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-7,395.98*	

22 11 19 00-0416 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)

22 11 19 00-0417	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	7,465.34	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-7,082.47*	
22 11 19 00-0418	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	8,454.25	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-8,029.51*	

22 11 19 00-0419 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).

22 11 19 00-0420	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	8,288.92	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-7,906.05*	
22 11 19 00-0421	EA	3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	9,592.97	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-9,168.23*	

22 11 19 00-0422 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).

22 11 19 00-0423	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)	10,761.26	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-10,378.42*	
22 11 19 00-0424	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)	12,226.17	323.05
		For Work In Restricted Working Space, Add	*127.43*	
		For Owner Furnished Material, Deduct	*-11,801.41*	
22 11 19 00-0425	EA	4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)	15,390.75	478.58
		For Work In Restricted Working Space, Add	*191.33*	
		For Owner Furnished Material, Deduct	*-14,752.98*	
22 11 19 00-0426	EA	6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)	23,207.09	700.41
		For Work In Restricted Working Space, Add	*531.45*	
		For Owner Furnished Material, Deduct	*-21,435.60*	
22 11 19 00-0427	EA	8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series)	38,505.34	1,050.63
		For Work In Restricted Working Space, Add	*797.17*	
		For Owner Furnished Material, Deduct	*-35,848.11*	
22 11 19 00-0428	EA	10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series)	49,739.41	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-47,480.01*	

22 11 19 00-0429 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).

22 11 19 00-0430	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)	11,597.84	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-11,215.00*	
22 11 19 00-0431	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)	13,106.59	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-12,681.85*	
22 11 19 00-0432	EA	4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)	16,740.59	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-16,102.88*	
22 11 19 00-0433	EA	6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)	25,241.70	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-23,976.44*	
22 11 19 00-0434	EA	8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)	40,882.92	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-38,985.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0435	EA	10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)	55,498.76	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-53,239.36*	

22 11 19 00-0436 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).

22 11 19 00-0437	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)	11,450.01	287.15
		For Work In Restricted Working Space, Add	*114.85*	
		For Owner Furnished Material, Deduct	*-11,067.17*	
22 11 19 00-0438	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)	13,015.64	323.05
		For Work In Restricted Working Space, Add	*127.43*	
		For Owner Furnished Material, Deduct	*-12,590.88*	
22 11 19 00-0439	EA	4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)	16,371.90	478.58
		For Work In Restricted Working Space, Add	*191.33*	
		For Owner Furnished Material, Deduct	*-15,734.13*	
22 11 19 00-0440	EA	6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)	24,131.13	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-22,865.87*	
22 11 19 00-0441	EA	8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series)	40,136.99	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-38,239.09*	
22 11 19 00-0442	EA	10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series)	52,902.97	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-50,643.57*	

22 11 19 00-0443 Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts LF994-OSY) *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies.

22 11 19 00-0444	EA	2-1/2" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts LF994-OSY)	4,135.80	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-3,752.93*	
22 11 19 00-0445	EA	3" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts LF994-OSY)	4,540.93	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-4,116.19*	
22 11 19 00-0446	EA	4" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts LF994-OSY)	5,926.83	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-5,289.12*	
22 11 19 00-0447	EA	6" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts LF994-OSY)	9,727.78	741.80
		For Work In Restricted Working Space, Add	*402.01*	
		For Owner Furnished Material, Deduct	*-8,387.75*	

22 11 19 00-0448 Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts 957-OSY) *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies.

22 11 19 00-0449	EA	2-1/2" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts 957-OSY)	3,693.77	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-3,310.90*	
22 11 19 00-0450	EA	3" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts 957-OSY)	3,991.67	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-3,566.93*	
22 11 19 00-0451	EA	4" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts 957-OSY)	4,841.43	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-4,203.72*	

22 11 19 00-0452 N Or Z Pattern Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts 957N-OSY/957Z-OSY) *(22 11 19 00-0406)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies.

22 11 19 00-0453	EA	2-1/2" N Or Z Pattern Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts 957N-OSY/957Z-OSY)	5,109.60	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-4,726.73*	
22 11 19 00-0454	EA	3" N Or Z Pattern Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts 957N-OSY/957Z-OSY)	5,451.27	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-5,026.53*	
22 11 19 00-0455	EA	4" N Or Z Pattern Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Watts 957N-OSY/957Z-OSY)	6,417.01	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-5,779.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0456		**Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 375AOSY/375OSY)** *(22 11 19 00-0406)* Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies.		
22 11 19 00-0457	EA	2-1/2" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 375AOSY/375OSY)	3,414.50	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-3,031.63*	
22 11 19 00-0458	EA	3" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 375AOSY/375OSY)	3,581.98	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-3,157.24*	
22 11 19 00-0459	EA	4" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 375AOSY/375OSY)	4,487.63	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-3,849.92*	
22 11 19 00-0460	EA	6" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 375AOSY/375OSY)	7,570.78	741.80
		For Work In Restricted Working Space, Add	*402.01*	
		For Owner Furnished Material, Deduct	*-6,230.75*	
22 11 19 00-0461	EA	8" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 375AOSY/375OSY)	14,229.92	1,112.71
		For Work In Restricted Working Space, Add	*603.01*	
		For Owner Furnished Material, Deduct	*-12,219.88*	
22 11 19 00-0462		**Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 375A/375 NRS)** *(22 11 19 00-0406)* Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies.		
22 11 19 00-0463	EA	2-1/2" Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 375A/375 NRS)	3,123.85	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-2,740.98*	
22 11 19 00-0464	EA	3" Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 375A/375 NRS)	3,277.04	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-2,852.30*	
22 11 19 00-0465	EA	4" Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 375A/375 NRS)	4,116.43	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-3,478.72*	
22 11 19 00-0466	EA	6" Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 375A/375 NRS)	6,914.00	741.80
		For Work In Restricted Working Space, Add	*402.01*	
		For Owner Furnished Material, Deduct	*-5,573.97*	
22 11 19 00-0467	EA	8" Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 375A/375 NRS)	13,053.49	1,112.71
		For Work In Restricted Working Space, Add	*603.01*	
		For Owner Furnished Material, Deduct	*-11,043.45*	
22 11 19 00-0468		**Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 475OSY/475OSY)** *(22 11 19 00-0406)* Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies.		
22 11 19 00-0469	EA	2-1/2" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 475OSY/475OSY)	3,823.64	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-3,440.77*	
22 11 19 00-0470	EA	3" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 475OSY/475OSY)	4,013.68	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-3,588.94*	
22 11 19 00-0471	EA	4" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 475OSY/475OSY)	5,215.72	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-4,578.01*	
22 11 19 00-0472	EA	6" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 475OSY/475OSY)	8,472.84	741.80
		For Work In Restricted Working Space, Add	*402.01*	
		For Owner Furnished Material, Deduct	*-7,132.81*	
22 11 19 00-0473	EA	8" Flanged Reduced Pressure Principle Assembly With Outside Stem And Yoke Shut-Offs (Zurn/Wilkins 475OSY/475OSY)	15,956.75	1,112.71
		For Work In Restricted Working Space, Add	*603.01*	
		For Owner Furnished Material, Deduct	*-13,946.71*	
22 11 19 00-0474		**Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 475DA/475DAV)** *(22 11 19 00-0406)* Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies.		
22 11 19 00-0475	EA	4" Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 475DA/475DAV)	6,307.90	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-5,670.19*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0476	EA	6" Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 475DA/475DAV)	9,455.47	741.80
		For Work In Restricted Working Space, Add	*402.01*	
		For Owner Furnished Material, Deduct	*-8,115.44*	
22 11 19 00-0477	EA	8" Flanged Reduced Pressure Principle Assembly With NRS Shut-offs (Zurn/Wilkins 475DA/475DAV)	17,461.28	1,112.71
		For Work In Restricted Working Space, Add	*603.01*	
		For Owner Furnished Material, Deduct	*-15,451.24*	

22 11 19 00-0478 Double Check Detector Assemblies *(22 11 19 00-0254)*

22 11 19 00-0479 Flanged Double Check Detector Assemblies With Meter *(22 11 19 00-0478)*

22 11 19 00-0480 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter *(22 11 19 00-0479)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).

22 11 19 00-0481	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	8,584.28	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-8,159.54*	
22 11 19 00-0482	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	8,986.58	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-8,348.87*	
22 11 19 00-0483	EA	6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	12,106.56	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-10,841.30*	
22 11 19 00-0484	EA	8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	21,494.17	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-19,596.27*	
22 11 19 00-0485	EA	10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	29,040.89	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-26,781.49*	

22 11 19 00-0486 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter *(22 11 19 00-0479)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).

22 11 19 00-0487	EA	2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	6,427.74	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-6,044.87*	
22 11 19 00-0488	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	6,864.18	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-6,439.44*	
22 11 19 00-0489	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	7,481.47	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-6,843.76*	
22 11 19 00-0490	EA	6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	10,151.81	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-8,886.55*	
22 11 19 00-0491	EA	8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	17,961.14	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-16,063.24*	
22 11 19 00-0492	EA	10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	21,179.75	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-18,920.35*	

22 11 19 00-0493 Double Check Detector Assembly With Butterfly Valves And Meter *(22 11 19 00-0479)*

Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).

22 11 19 00-0494	EA	2-1/2" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	6,808.10	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-6,425.23*	
22 11 19 00-0495	EA	3" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	7,244.54	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-6,819.80*	
22 11 19 00-0496	EA	4" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	7,861.75	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-7,224.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0497	EA	6" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	10,541.67	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-9,276.41*	
22 11 19 00-0498	EA	8" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	17,493.39	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-15,595.49*	

22 11 19 00-0499 Flanged Double Check Detector Assemblies Without Meter *(22 11 19 00-0478)*

22 11 19 00-0500 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter *(22 11 19 00-0499)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).

22 11 19 00-0501	EA	2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	6,307.65	287.15
		For Work In Restricted Working Space, Add	*114.86*	
22 11 19 00-0502	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	6,744.14	323.05
		For Work In Restricted Working Space, Add	*127.42*	
22 11 19 00-0503	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	7,361.43	478.58
		For Work In Restricted Working Space, Add	*191.31*	
22 11 19 00-0504	EA	6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	10,031.77	700.41
		For Work In Restricted Working Space, Add	*379.58*	
22 11 19 00-0505	EA	8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	17,841.18	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
22 11 19 00-0506	EA	10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	21,059.62	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	

22 11 19 00-0507 Double Check Detector Assembly With Butterfly Valves Less Meter *(22 11 19 00-0499)*

Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).

22 11 19 00-0508	EA	2-1/2" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	6,687.97	287.15
		For Work In Restricted Working Space, Add	*114.86*	
22 11 19 00-0509	EA	3" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	7,124.42	323.05
		For Work In Restricted Working Space, Add	*127.42*	
22 11 19 00-0510	EA	4" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	7,741.70	478.58
		For Work In Restricted Working Space, Add	*191.31*	
22 11 19 00-0511	EA	6" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	10,421.55	700.41
		For Work In Restricted Working Space, Add	*379.58*	
22 11 19 00-0512	EA	8" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	18,231.04	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	

22 11 19 00-0513 Flanged Double Check Detector Assemblies *(22 11 19 00-0478)*

22 11 19 00-0514 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs *(22 11 19 00-0513)*

Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series).

22 11 19 00-0515	EA	2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series)	6,090.35	287.15
		For Work In Restricted Working Space, Add	*114.86*	
		For Owner Furnished Material, Deduct	*-5,707.48*	
22 11 19 00-0516	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series)	7,372.63	323.05
		For Work In Restricted Working Space, Add	*127.42*	
		For Owner Furnished Material, Deduct	*-6,947.89*	
22 11 19 00-0517	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series)	8,175.51	478.58
		For Work In Restricted Working Space, Add	*191.31*	
		For Owner Furnished Material, Deduct	*-7,537.80*	
22 11 19 00-0518	EA	6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series)	10,286.96	700.41
		For Work In Restricted Working Space, Add	*379.58*	
		For Owner Furnished Material, Deduct	*-9,021.70*	
22 11 19 00-0519	EA	8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series)	18,205.53	1,050.63
		For Work In Restricted Working Space, Add	*569.37*	
		For Owner Furnished Material, Deduct	*-16,307.63*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0520	EA	10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series)	24,546.28	1,242.67
		For Work In Restricted Working Space, Add	*677.82*	
		For Owner Furnished Material, Deduct	*-22,286.88*	
22 11 19 00-0521	EA	12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series)	32,763.62	1,491.20
		For Work In Restricted Working Space, Add	*813.38*	
		For Owner Furnished Material, Deduct	*-30,052.34*	
22 11 19 00-0522		**Backflow Preventer Accessories** *(22 11 19 00-0254)*		
22 11 19 00-0523		**Air Gap** *(22 11 19 00-0522)*		
22 11 19 00-0524	EA	Up To 1" Diameter Air Gap For Backflow Preventer	142.95	16.24
22 11 19 00-0525	EA	1-1/4" To 2" Diameter Air Gap For Backflow Preventer	175.93	19.49
22 11 19 00-0526	EA	2-1/2" To 3" Diameter Air Gap For Backflow Preventer	330.74	25.99
22 11 19 00-0527	EA	4" To 6" Diameter Air Gap For Backflow Preventer	654.42	45.48
22 11 19 00-0528	EA	8" To 10" Diameter Air Gap For Backflow Preventer	693.41	64.97
22 11 19 00-0529		**Brass Test Cocks** *(22 11 19 00-0522)*		
22 11 19 00-0530	EA	1/8" Or 1/4" Brass Test Cock	58.19	6.50
22 11 19 00-0531		**Backflow Valve Enclosures** *(22 11 19 00-0254)*		
22 11 19 00-0532		**Flip-Top, Insulated Fiberglass Valve Enclosures** *(22 11 19 00-0531)*		
		Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0533	EA	19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,063.11	116.94
		For Heated Enclosure, Add	*265.61*	
22 11 19 00-0534	EA	27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,558.57	116.94
		For Heated Enclosure, Add	*339.93*	
22 11 19 00-0535	EA	27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,276.45	107.68
		For Heated Enclosure, Add	*451.09*	
22 11 19 00-0536	EA	33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,379.11	143.58
		For Heated Enclosure, Add	*453.03*	
22 11 19 00-0537	EA	39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,547.13	143.58
		For Heated Enclosure, Add	*478.23*	
22 11 19 00-0538	EA	47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,202.01	143.58
		For Heated Enclosure, Add	*576.46*	
22 11 19 00-0539	EA	39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,219.24	143.58
		For Heated Enclosure, Add	*579.05*	
22 11 19 00-0540	EA	47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	5,335.11	143.58
		For Heated Enclosure, Add	*746.43*	
22 11 19 00-0541	EA	70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	12,382.11	215.36
		For Heated Enclosure, Add	*1,776.56*	
22 11 19 00-0542	EA	83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	18,013.15	215.36
		For Heated Enclosure, Add	*2,621.21*	
22 11 19 00-0543	EA	70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	17,108.39	215.36
		For Heated Enclosure, Add	*2,485.50*	
22 11 19 00-0544	EA	83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	20,606.05	251.26
		For Heated Enclosure, Add	*2,996.69*	
22 11 19 00-0545		**One-Piece Drop Over, Insulated Fiberglass Valve Enclosures** *(22 11 19 00-0531)*		
		Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0546	EA	20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,129.07	31.19
		For Heated Enclosure, Add	*215.42*	
22 11 19 00-0547	EA	27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,585.76	31.19
		For Heated Enclosure, Add	*306.76*	
22 11 19 00-0548	EA	38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,003.86	28.72
		For Heated Enclosure, Add	*391.20*	
22 11 19 00-0549	EA	47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	3,046.49	28.72
		For Heated Enclosure, Add	*599.73*	
22 11 19 00-0550	EA	70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	7,913.74	53.84
		For Heated Enclosure, Add	*1,564.80*	
22 11 19 00-0551	EA	83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	10,830.51	53.84
		For Heated Enclosure, Add	*2,148.15*	
22 11 19 00-0552	EA	45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	7,189.93	53.84
		For Heated Enclosure, Add	*1,420.04*	
22 11 19 00-0553	EA	53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	8,146.39	53.84
		For Heated Enclosure, Add	*1,611.33*	
22 11 19 00-0554	EA	61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	12,786.51	53.84
		For Heated Enclosure, Add	*2,539.35*	
22 11 19 00-0555		**Sectional, Insulated Aluminum Valve Enclosures** *(22 11 19 00-0531)*		
		Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0556	EA	70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	16,100.23	215.36
		For Heated Enclosure, Add	*2,334.27*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0557	EA	83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	17,767.57	215.36
		For Heated Enclosure, Add	*2,584.38*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0558	EA	53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	12,584.60	215.36
		For Heated Enclosure, Add	*1,806.93*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0559	EA	53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	13,816.80	215.36
		For Heated Enclosure, Add	*1,991.76*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0560	EA	90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	16,051.36	287.15
		For Heated Enclosure, Add	*2,300.02*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0561	EA	102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	18,024.59	287.15
		For Heated Enclosure, Add	*2,596.01*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0562	EA	90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	18,024.59	287.15
		For Heated Enclosure, Add	*2,596.01*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0563	EA	102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	19,937.51	287.15
		For Heated Enclosure, Add	*2,882.95*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0564	EA	62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	14,944.85	251.26
		For Heated Enclosure, Add	*2,147.51*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0565	EA	62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	17,503.28	287.15
		For Heated Enclosure, Add	*2,517.81*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0566	EA	105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	20,488.98	287.15
		For Heated Enclosure, Add	*2,965.67*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0567	EA	125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	22,498.47	305.10
		For Heated Enclosure, Add	*3,260.36*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0568	EA	105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	22,993.93	305.10
		For Heated Enclosure, Add	*3,334.68*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0569	EA	125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	25,503.19	323.05
		For Heated Enclosure, Add	*3,704.34*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0570	EA	105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure	26,489.80	323.05
		For Heated Enclosure, Add	*3,852.33*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0571	EA	72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	19,196.47	287.15
		For Heated Enclosure, Add	*2,771.79*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0572	EA	72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure	20,476.05	287.15
		For Heated Enclosure, Add	*2,963.73*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0573	EA	72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	23,183.50	305.10
		For Heated Enclosure, Add	*3,363.11*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0574	EA	72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure	28,131.29	323.05
		For Heated Enclosure, Add	*4,098.55*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0575	EA	118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure	24,516.57	323.05
		For Heated Enclosure, Add	*3,556.34*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0576	EA	142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure	29,494.51	340.99
		For Heated Enclosure, Add	*4,296.31*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0577	EA	118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure	28,507.90	340.99
		For Heated Enclosure, Add	*4,148.31*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0578	EA	142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure	33,046.40	358.94
		For Heated Enclosure, Add	*4,822.36*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0579	EA	142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure	30,526.00	358.94
		For Heated Enclosure, Add	*4,444.30*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0580	EA	172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure	35,650.44	376.88
		For Heated Enclosure, Add	*5,206.23*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0581	EA	142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure	35,695.31	394.83
		For Heated Enclosure, Add	*5,206.23*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	
22 11 19 00-0582	EA	172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure	42,353.52	412.77
		For Heated Enclosure, Add	*6,198.24*	
		For One 24" Fluorescent Light Fixture, Add	*873.13*	
		For Two 24" Fluorescent Light Fixture, Add	*1,562.45*	

22 11 19 00-0583 Backflow Valve Cage Enclosures *(22 11 19 00-0531)*

Note: Includes anchor kit. Excludes concrete pad.

22 11 19 00-0584	EA	12-1/2" Length x 10-1/2" Width x 18" Height, Internal Dimensions, Backflow Preventer Caged Enclosures, External Dimensions 15-1/2" Length x 13-1/2" Width x 18" Height Note: UTC-.5	1,721.51	155.93
22 11 19 00-0585	EA	22-1/2" Length x 10-1/2" Width x 24" Height, Internal Dimensions, Backflow Preventer Caged Enclosures, External Dimensions 25-1/2" Length x 13-1/2" Width x 24" Height Note: UTC-1	1,878.18	155.93
22 11 19 00-0586	EA	30-1/2" Length x 10-1/2" Width x 24" Height, Internal Dimensions, Backflow Preventer Caged Enclosures, External Dimensions 33-1/2" Length x 13-1/2" Width x 24" Height Note: UTC-2	2,143.18	191.43
22 11 19 00-0587	EA	40-1/2" Length x 10-1/2" Width x 24" Height, Internal Dimensions, Backflow Preventer Caged Enclosures, External Dimensions 43-1/2" Length x 13-1/2" Width x 24" Height Note: UTC-3	2,319.43	191.43
22 11 19 00-0588	EA	46-1/2" Length x 16-1/2" Width x 30-1/2" Height, Internal Dimensions, Backflow Preventer Caged Enclosures, External Dimensions 49-1/2" Length x 20" Width x 30-1/2" Height Note: UTC-4	2,750.27	191.43

22 11 19 00-0589 Lift-Off Lightweight Backflow Valve Enclosures With Recessed Locksheild Brackets *(22 11 19 00-0531)*

Note: 1-1/2", 0.095" wall tubular steel framework with 1" x 1" x 1/8" angle iron, 1/2" #13 gauge diamond pattern rolled expanded metal, all welded construction. Excludes concrete pad.

22 11 19 00-0590	EA	22" Length x 10" Width x 24" Height, Backflow Preventer Caged Enclosures Note: BP-1	951.60	116.94
22 11 19 00-0591	EA	30" Length x 10" Width x 24" Height, Backflow Preventer Caged Enclosures Note: BP-2	1,069.67	143.58
22 11 19 00-0592	EA	40" Length x 10" Width x 24" Height, Backflow Preventer Caged Enclosures Note: BP-3	1,152.08	143.58
22 11 19 00-0593	EA	46" Length x 10" Width x 30" Height, Backflow Preventer Caged Enclosures Note: BP-4	1,386.93	143.58

22 11 19 00-0594 Faucets (Hose Bibbs) *(22 11 19)*

22 11 19 00-0595 Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends *(22 11 19 00-0594)*

22 11 19 00-0596	EA	1/2" Diameter, 125 Lb., Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	70.08	12.99
22 11 19 00-0597	EA	3/4" Diameter, 125 Lb., Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	81.00	14.30
22 11 19 00-0598	EA	3/4" Screwed Ends Vacuum Breaker (Mueller 108-904NL)	20.89	9.75

22 11 19 00-0599 Chrome Plated Brass Hose Valves, Screwed Ends *(22 11 19 00-0594)*

22 11 19 00-0600	EA	3/4" Diameter, Hose Valve With Screwed Ends (Chicago Faucets #387-CP)	234.48	39.76

22 11 19 00-0601 Antisiphon Freezeless Wall Faucet (Woodford 19CP) *(22 11 19 00-0594)*

22 11 19 00-0602	EA	4" Long, 1/2" Antisiphon Freezeless Wall Faucet	147.58	32.49
22 11 19 00-0603	EA	6" Long, 1/2" Antisiphon Freezeless Wall Faucet	160.27	35.99
22 11 19 00-0604	EA	8" Long, 1/2" Antisiphon Freezeless Wall Faucet	169.71	38.07
22 11 19 00-0605	EA	10" Long, 1/2" Antisiphon Freezeless Wall Faucet	179.13	40.80
22 11 19 00-0606	EA	12" Long, 1/2" Antisiphon Freezeless Wall Faucet	188.69	43.27

22 11 19 00-0607 Keyed, Recessed Valve Boxes *(22 11 19)*

22 11 19 00-0608	EA	8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box	413.31	38.80
22 11 19 00-0609	EA	8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box	461.28	38.80
22 11 19 00-0610	EA	8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box	533.22	38.80
22 11 19 00-0611	EA	12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box	511.13	51.73
22 11 19 00-0612	EA	12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box	583.08	51.73
22 11 19 00-0613	EA	12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box	604.66	51.73
22 11 19 00-0614	EA	8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box	490.06	38.80

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0615	EA	8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box	595.58	38.80
22 11 19 00-0616	EA	8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box	689.11	38.80
22 11 19 00-0617	EA	12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box	645.43	51.73
22 11 19 00-0618	EA	12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box	738.96	51.73
22 11 19 00-0619	EA	12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box	774.93	51.73

22 11 23 Domestic Water Pumps *(22 11)*

22 11 23 13 Domestic Water Packaged Booster Pumps *(22 11 23)*

Note: Includes motor starter and controls.

22 11 23 13-0001 Simplex Domestic Water Packaged Booster Pumps And Tank *(22 11 23 13)*

22 11 23 13-0002	EA	1 HP Simplex Domestic Water Packaged Booster Pump And Tank	18,644.52	382.87
22 11 23 13-0003	EA	1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	19,243.58	514.48
22 11 23 13-0004	EA	2 HP Simplex Domestic Water Packaged Booster Pump And Tank	19,977.67	646.08
22 11 23 13-0005	EA	3 HP Simplex Domestic Water Packaged Booster Pump And Tank	20,644.23	777.69
22 11 23 13-0006	EA	5 HP Simplex Domestic Water Packaged Booster Pump And Tank	22,796.01	909.30
22 11 23 13-0007	EA	7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	25,285.32	1,040.92
22 11 23 13-0008	EA	10 HP Simplex Domestic Water Packaged Booster Pump And Tank	26,964.51	1,172.53

22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator *(22 11 23 13)*

22 11 23 13-0010	EA	100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank	49,584.19	1,551.56
22 11 23 13-0011	EA	200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank	59,983.35	1,648.54
22 11 23 13-0012	EA	300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank	70,425.55	1,745.51

22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator *(22 11 23 13)*

22 11 23 13-0014	EA	200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	65,738.49	1,648.54
22 11 23 13-0015	EA	300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	82,211.77	1,745.51
22 11 23 13-0016	EA	500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	102,456.52	1,939.45
22 11 23 13-0017	EA	750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	130,183.80	2,133.40
22 11 23 13-0018	EA	1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	157,911.07	2,327.35
22 11 23 13-0019	EA	1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	184,073.22	2,618.27
22 11 23 13-0020	EA	2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	210,235.38	2,909.18
22 11 23 13-0021	EA	3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	236,397.53	3,200.10
22 11 23 13-0022	EA	5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	262,802.13	3,587.99

22 11 23 13-0023 Variable Speed Duplex Domestic Water Pressure Booster Skid *(22 11 23 13)*

Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.

22 11 23 13-0024	EA	40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1)	44,325.69	1,728.33
22 11 23 13-0025	EA	40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2)	46,379.34	1,728.33
22 11 23 13-0026	EA	80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3)	49,313.75	1,728.33
22 11 23 13-0027	EA	80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4)	53,543.69	1,728.33
22 11 23 13-0028	EA	160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5)	50,482.41	1,836.36
22 11 23 13-0029	EA	160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6)	54,174.96	1,836.36
22 11 23 13-0030	EA	160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7)	59,189.78	1,836.36
22 11 23 13-0031	EA	160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8)	63,265.86	1,836.36
22 11 23 13-0032	EA	240 To 280 GPM At 40 To 50 PSI , NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9)	55,178.62	1,944.38
22 11 23 13-0033	EA	280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10)	58,824.34	1,944.38
22 11 23 13-0034	EA	240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11)	66,976.49	1,944.38
22 11 23 13-0035	EA	240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12)	80,658.54	1,944.38
22 11 23 13-0036	EA	360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13)	58,311.49	1,944.38
22 11 23 13-0037	EA	360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14)	65,747.87	1,944.38
22 11 23 13-0038	EA	360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15)	82,116.83	1,944.38
22 11 23 13-0039	EA	360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16)	81,644.11	1,944.38
22 11 23 13-0040	EA	440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17)	97,422.68	2,160.42
22 11 23 13-0041	EA	440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18)	66,762.93	2,160.42

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0042	EA	440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19)	81,669.14	2,160.42
22 11 23 13-0043	EA	440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20)	81,198.65	2,160.42
22 11 23 13-0044	EA	440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21)	98,154.05	2,160.42
22 11 23 13-0045	EA	440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22)	118,893.42	2,160.42
22 11 23 13-0046	EA	60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1)	56,170.39	1,728.33
22 11 23 13-0047		Variable Speed Triplex Domestic Water Pressure Booster Skid *(22 11 23 13)*		
		Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0048	EA	60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2)	56,170.39	1,728.33
22 11 23 13-0049	EA	120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3)	62,899.93	1,728.33
22 11 23 13-0050	EA	60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4)	68,706.33	1,728.33
22 11 23 13-0051	EA	180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5)	63,169.98	1,836.36
22 11 23 13-0052	EA	180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6)	68,936.24	1,836.36
22 11 23 13-0053	EA	240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7)	64,516.78	1,836.36
22 11 23 13-0054	EA	240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8)	69,473.62	1,836.36
22 11 23 13-0055	EA	240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9)	76,290.12	1,836.36
22 11 23 13-0056	EA	240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10)	81,940.43	1,836.36
22 11 23 13-0057	EA	300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11)	65,112.38	1,944.38
22 11 23 13-0058	EA	300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12)	70,069.22	1,944.38
22 11 23 13-0059	EA	300 GPM At80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13)	76,883.49	1,944.38
22 11 23 13-0060	EA	300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14)	82,533.80	1,944.38
22 11 23 13-0061	EA	360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15)	70,686.88	1,944.38
22 11 23 13-0062	EA	360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16)	75,447.50	1,944.38
22 11 23 13-0063	EA	360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17)	87,209.69	1,944.38
22 11 23 13-0064	EA	360 GPM At140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18)	106,403.81	1,944.38
22 11 23 13-0065	EA	480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19)	72,199.18	2,160.42
22 11 23 13-0066	EA	480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20)	76,962.03	2,160.42
22 11 23 13-0067	EA	480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21)	88,724.23	2,160.42
22 11 23 13-0068	EA	480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22)	107,916.12	2,160.42
22 11 23 13-0069	EA	540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23)	76,190.52	2,160.42
22 11 23 13-0070	EA	540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24)	86,880.18	2,160.42
22 11 23 13-0071	EA	540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25)	110,101.32	2,160.42
22 11 23 13-0072	EA	540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26)	112,351.19	2,160.42
22 11 23 13-0073	EA	540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27)	139,307.24	2,160.42
22 11 23 13-0074	EA	660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28)	86,312.57	2,592.51
22 11 23 13-0075	EA	660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29)	103,930.22	2,592.51
22 11 23 13-0076	EA	660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30)	110,610.70	2,592.51
22 11 23 13-0077	EA	660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31)	133,526.35	2,592.51
22 11 23 13-0078	EA	660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32)	165,593.11	2,592.51

22 11 23 23 Domestic-Water In-Line Pumps *(22 11 23)*

22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps *(22 11 23 23)*

Note: ODP motor.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 23-0002	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)	1,198.23	215.36
22 11 23 23-0003	EA	1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B)	1,230.45	215.36
22 11 23 23-0004	EA	1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B)	1,288.08	219.55
22 11 23 23-0005	EA	1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B)	1,420.29	228.52
22 11 23 23-0006	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B)	2,555.63	237.01
22 11 23 23-0007	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB)	2,727.06	237.01
22 11 23 23-0008	EA	1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB)	4,081.15	260.96
22 11 23 23-0009	EA	1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB)	4,254.99	286.69
22 11 23 23-0010	EA	1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB)	5,153.34	315.42
22 11 23 23-0011	EA	1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S)	5,265.67	347.14
22 11 23 23-0012	EA	3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S)	5,758.44	381.26
22 11 23 23-0013	EA	1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S)	8,259.50	419.56
22 11 23 23-0014	EA	1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S)	9,517.06	439.91

22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps *(22 11 23 23)*

Note: ODP motor.

22 11 23 23-0016	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	1,248.51	215.36
22 11 23 23-0017	EA	1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36)	2,096.94	215.36
22 11 23 23-0018	EA	1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	2,105.59	219.55
22 11 23 23-0019	EA	1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	2,141.97	224.33
22 11 23 23-0020	EA	1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50)	2,150.33	228.52
22 11 23 23-0021	EA	1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75)	2,190.61	237.01
22 11 23 23-0022	EA	1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2)	2,679.38	260.96
22 11 23 23-0023	EA	1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30)	3,458.22	315.42
22 11 23 23-0024	EA	1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S)	3,642.49	347.14
22 11 23 23-0025	EA	3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S)	4,253.08	381.26
22 11 23 23-0026	EA	1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S)	5,745.63	419.56
22 11 23 23-0027	EA	1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S)	6,720.51	439.91
22 11 23 23-0028	EA	2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,029.26	462.06
22 11 23 23-0029	EA	3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,480.63	507.90
22 11 23 23-0030	EA	5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	7,119.82	538.66
22 11 23 23-0031	EA	7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	9,026.91	598.52
22 11 23 23-0032	EA	10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	9,569.76	718.34
22 11 23 23-0033	EA	15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	12,211.98	838.28

22 11 23 41 Centrifugal Booster Water Pumps *(22 11 23)*

22 11 23 41-0001 Centrifugal Booster Water Pump *(22 11 23 41)*

22 11 23 41-0002	EA	15 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	9,636.02	480.25
22 11 23 41-0003	EA	20 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	12,918.68	529.78
22 11 23 41-0004	EA	25 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	14,585.14	575.84
22 11 23 41-0005	EA	30 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	15,586.76	672.58
22 11 23 41-0006	EA	40 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	17,884.49	768.17
22 11 23 41-0007	EA	50 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	19,729.64	1,010.87
22 11 23 41-0008	EA	60 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	22,889.86	1,137.23
22 11 23 41-0009	EA	75 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	26,845.95	1,263.59
22 11 23 41-0010	EA	100 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	30,866.81	1,516.30
22 11 23 41-0011	EA	125 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	33,974.62	1,685.62
22 11 23 41-0012	EA	150 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	44,496.90	1,895.37
22 11 23 41-0013	EA	200 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	53,217.27	2,316.15
22 11 23 41-0014	EA	250 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	63,970.07	2,527.17
22 11 23 41-0015	EA	300 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	74,144.55	2,738.19
22 11 23 41-0016	EA	350 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	83,335.84	2,947.94
22 11 23 41-0017	EA	400 HP, 208-230/460 Volt, 3 Phase, 1800 RPM Close-Coupled Centrifugal Pump	92,758.48	3,158.96

22 13 Facility Sanitary Sewerage *(22 10)*

22 13 13 Facility Sanitary Sewers *(22 13)*

22 13 13 00-0001 Fixture Rough-In Assemblies *(22 13 13)*

Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible.

22 13 13 00-0002 Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assemblies *(22 13 13 00-0001)*

Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0003	EA	Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	1,163.51
22 13 13 00-0004	EA	Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	1,546.25
22 13 13 00-0005	EA	Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	1,058.46

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0006	EA	Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	686.47	
22 13 13 00-0007	EA	Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	809.15	
22 13 13 00-0008	EA	Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,031.01	
22 13 13 00-0009	EA	Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,097.98	
22 13 13 00-0010	EA	Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	663.38	
22 13 13 00-0011	EA	Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,058.46	
22 13 13 00-0012	EA	Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	1,088.59	
22 13 13 00-0013	EA	Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	1,028.75	
22 13 13 00-0014	EA	Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,163.51	
22 13 13 00-0015	EA	Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	1,823.48	
22 13 13 00-0016	EA	Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	1,127.93	
22 13 13 00-0017		Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assemblies *(22 13 13 00-0001)* Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0018	EA	Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	1,514.51	
22 13 13 00-0019	EA	Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	2,072.31	
22 13 13 00-0020	EA	Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	1,307.73	
22 13 13 00-0021	EA	Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	821.59	
22 13 13 00-0022	EA	Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	1,102.07	
22 13 13 00-0023	EA	Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,167.75	
22 13 13 00-0024	EA	Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	776.55	
22 13 13 00-0025	EA	Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,319.68	
22 13 13 00-0026	EA	Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	1,147.46	
22 13 13 00-0027	EA	Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.	1,117.59	
22 13 13 00-0028	EA	Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.	1,514.51	
22 13 13 00-0029		Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assemblies *(22 13 13 00-0001)* Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0030	EA	Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	756.71	
22 13 13 00-0031	EA	Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	1,036.15	
22 13 13 00-0032	EA	Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.	654.45	
22 13 13 00-0033	EA	Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	411.40	
22 13 13 00-0034	EA	Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	551.06	
22 13 13 00-0035	EA	Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	583.85	
22 13 13 00-0036	EA	Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	418.18	
22 13 13 00-0037	EA	Floor Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	659.25	
22 13 13 00-0038	EA	Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	573.73	
22 13 13 00-0039	EA	Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.	559.37	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0040	EA	Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Assembly Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	748.31	

22 13 13 00-0041 Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assemblies *(22 13 13 00-0001)*

Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0042	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Water Closet Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	679.99	
22 13 13 00-0043	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Water Closet Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	758.24	
22 13 13 00-0044	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Tank Type, Floor Mounted, Water Closet Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	644.24	
22 13 13 00-0045	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Urinal Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	389.82	
22 13 13 00-0046	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Lavatory Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	457.05	
22 13 13 00-0047	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Countertop, Kitchen Sink Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	618.90	
22 13 13 00-0048	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Bathtub Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	628.79	
22 13 13 00-0049	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Free Standing, Water Cooler Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	385.23	
22 13 13 00-0050	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Service Sink Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	644.24	
22 13 13 00-0051	EA	Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	683.35	
22 13 13 00-0052	EA	Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	630.89	
22 13 13 00-0053	EA	Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	679.85	
22 13 13 00-0054	EA	Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	1,050.86	
22 13 13 00-0055	EA	Bathtub/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	654.95	

22 13 13 00-0056 Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assemblies *(22 13 13 00-0001)*

Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0057	EA	Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	830.88	
22 13 13 00-0058	EA	Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	993.08	
22 13 13 00-0059	EA	Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	722.15	
22 13 13 00-0060	EA	Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	435.63	
22 13 13 00-0061	EA	Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.	636.47	
22 13 13 00-0062	EA	Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.	665.25	
22 13 13 00-0063	EA	Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	423.59	
22 13 13 00-0064	EA	Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	732.79	
22 13 13 00-0065	EA	Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	703.31	
22 13 13 00-0066	EA	Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	676.61	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0067	EA	Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	830.88	

22 13 13 00-0068 Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assemblies *(22 13 13 00-0001)*

Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0069	EA	Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	414.95	
22 13 13 00-0070	EA	Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	495.95	
22 13 13 00-0071	EA	Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	361.43	
22 13 13 00-0072	EA	Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	217.87	
22 13 13 00-0073	EA	Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	318.20	
22 13 13 00-0074	EA	Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	332.33	
22 13 13 00-0075	EA	Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	211.78	
22 13 13 00-0076	EA	Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	366.29	
22 13 13 00-0077	EA	Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	351.69	
22 13 13 00-0078	EA	Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	338.82	
22 13 13 00-0079	EA	Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Assembly Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	407.02	

22 13 16 Sanitary Waste and Vent Piping *(22 13)*

22 13 16 00-0001 Cast Iron Soil Pipe Assemblies *(22 13 16)*

22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies *(22 13 16 00-0001)*

Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.

22 13 16 00-0003	LF	2" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	38.02	7.54
		For Work In Restricted Working Space, Add	*5.53*	
22 13 16 00-0004	LF	3" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	54.32	11.36
		For Work In Restricted Working Space, Add	*7.50*	
22 13 16 00-0005	LF	4" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	70.48	14.47
		For Work In Restricted Working Space, Add	*9.65*	
22 13 16 00-0006	LF	5" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	82.46	17.62
		For Work In Restricted Working Space, Add	*9.92*	
22 13 16 00-0007	LF	6" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	96.88	19.20
		For Work In Restricted Working Space, Add	*11.01*	
22 13 16 00-0008	LF	8" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	153.86	27.35
		For Work In Restricted Working Space, Add	*15.49*	
22 13 16 00-0009	LF	10" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	226.15	27.35
		For Work In Restricted Working Space, Add	*17.53*	

22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies *(22 13 16 00-0001)*

Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0011	LF	1-1/2" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	36.68	7.18
		For Work In Restricted Working Space, Add	*6.30*	
22 13 16 00-0012	LF	2" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	38.85	7.66
		For Work In Restricted Working Space, Add	*6.77*	
22 13 16 00-0013	LF	3" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	49.86	11.12
		For Work In Restricted Working Space, Add	*8.30*	
22 13 16 00-0014	LF	4" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	60.24	14.47
		For Work In Restricted Working Space, Add	*9.93*	
22 13 16 00-0015	LF	5" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	78.62	17.29
		For Work In Restricted Working Space, Add	*11.73*	
22 13 16 00-0016	LF	6" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	89.93	18.87
		For Work In Restricted Working Space, Add	*12.78*	
22 13 16 00-0017	LF	8" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	141.61	27.12
		For Work In Restricted Working Space, Add	*17.65*	
22 13 16 00-0018	LF	10" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available.	204.31	30.82
		For Work In Restricted Working Space, Add	*20.52*	
22 13 16 00-0019		**Bell And Spigot Cast Iron Soil Pipe And Fittings** *(22 13 16)* Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020		**Bell And Spigot Cast Iron Pipe** *(22 13 16 00-0019)* Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF	2" Diameter, Bell And Spigot Cast Iron Pipe	27.07	7.54
		For Extra Heavy Pipe, Add	*6.59*	
		For Above Ground Cast Iron Pipe Installation, Add	*0.57*	
		For Work In Restricted Working Space, Add	*3.42*	
22 13 16 00-0022	LF	3" Diameter, Bell And Spigot Cast Iron Pipe	39.56	11.36
		For Extra Heavy Pipe, Add	*9.44*	
		For Above Ground Cast Iron Pipe Installation, Add	*0.85*	
		For Work In Restricted Working Space, Add	*5.13*	
22 13 16 00-0023	LF	4" Diameter, Bell And Spigot Cast Iron Pipe	50.97	14.47
		For Extra Heavy Pipe, Add	*12.27*	
		For Above Ground Cast Iron Pipe Installation, Add	*1.09*	
		For Work In Restricted Working Space, Add	*6.53*	
22 13 16 00-0024	LF	5" Diameter, Bell And Spigot Cast Iron Pipe	67.60	17.62
		For Extra Heavy Pipe, Add	*17.32*	
		For Above Ground Cast Iron Pipe Installation, Add	*1.32*	
		For Work In Restricted Working Space, Add	*7.91*	
22 13 16 00-0025	LF	6" Diameter, Bell And Spigot Cast Iron Pipe	78.97	19.20
		For Extra Heavy Pipe, Add	*21.09*	
		For Above Ground Cast Iron Pipe Installation, Add	*1.44*	
		For Work In Restricted Working Space, Add	*8.63*	
22 13 16 00-0026	LF	8" Diameter, Bell And Spigot Cast Iron Pipe	119.14	27.35
		For Extra Heavy Pipe, Add	*32.81*	
		For Above Ground Cast Iron Pipe Installation, Add	*2.05*	
		For Work In Restricted Working Space, Add	*12.31*	
22 13 16 00-0027	LF	10" Diameter, Bell And Spigot Cast Iron Pipe	176.20	30.82
		For Extra Heavy Pipe, Add	*54.62*	
		For Above Ground Cast Iron Pipe Installation, Add	*2.31*	
		For Work In Restricted Working Space, Add	*13.85*	
22 13 16 00-0028	LF	12" Diameter, Bell And Spigot Cast Iron Pipe	250.45	41.08
		For Extra Heavy Pipe, Add	*79.34*	
		For Above Ground Cast Iron Pipe Installation, Add	*3.08*	
		For Work In Restricted Working Space, Add	*18.47*	
22 13 16 00-0029	LF	15" Diameter, Bell And Spigot Cast Iron Pipe	349.96	49.28
		For Extra Heavy Pipe, Add	*115.96*	
		For Above Ground Cast Iron Pipe Installation, Add	*3.69*	
		For Work In Restricted Working Space, Add	*22.16*	
22 13 16 00-0030		**Bell And Spigot Cast Iron Fittings** *(22 13 16 00-0019)*		
22 13 16 00-0031		**Bell And Spigot Cast Iron Long Sweeps** *(22 13 16 00-0030)*		
22 13 16 00-0032	EA	2" Bell And Spigot Cast Iron Long Sweep	117.41	34.33
		For Extra Heavy Fittings, Add	*23.08*	
		For Above Ground Cast Iron Pipe Installation, Add	*2.57*	
		For Work In Restricted Working Space, Add	*15.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0033	EA	3" Bell And Spigot Cast Iron Long Sweep	198.49	43.19
		For Extra Heavy Fittings, Add	*46.84*	
		For Above Ground Cast Iron Pipe Installation, Add	*3.23*	
		For Work In Restricted Working Space, Add	*19.40*	
22 13 16 00-0034	EA	4" Bell And Spigot Cast Iron Long Sweep	264.43	57.43
		For Extra Heavy Fittings, Add	*62.43*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.30*	
		For Work In Restricted Working Space, Add	*25.82*	
22 13 16 00-0035	EA	6" Bell And Spigot Cast Iron Long Sweep	412.07	74.56
		For Extra Heavy Fittings, Add	*105.11*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.59*	
		For Work In Restricted Working Space, Add	*33.53*	
22 13 16 00-0036	EA	8" Bell And Spigot Cast Iron Long Sweep	814.05	96.25
		For Extra Heavy Fittings, Add	*234.43*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.21*	
		For Work In Restricted Working Space, Add	*43.28*	
22 13 16 00-0037	EA	10" Bell And Spigot Cast Iron Long Sweep	1,113.07	118.41
		For Extra Heavy Fittings, Add	*327.43*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.88*	
		For Work In Restricted Working Space, Add	*53.27*	
22 13 16 00-0038	EA	12" Bell And Spigot Cast Iron Long Sweep	1,706.35	165.27
		For Extra Heavy Fittings, Add	*510.50*	
		For Above Ground Cast Iron Pipe Installation, Add	*12.39*	
		For Work In Restricted Working Space, Add	*74.34*	
22 13 16 00-0039	EA	15" Bell And Spigot Cast Iron Long Sweep	3,166.00	230.13
		For Extra Heavy Fittings, Add	*987.34*	
		For Above Ground Cast Iron Pipe Installation, Add	*17.25*	
		For Work In Restricted Working Space, Add	*103.51*	

22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps *(22 13 16 00-0030)*

22 13 16 00-0041	EA	2" Bell And Spigot Cast Iron Short Sweep	100.00	34.33
		For Extra Heavy Fittings, Add	*16.99*	
		For Above Ground Cast Iron Pipe Installation, Add	*2.57*	
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0042	EA	3" Bell And Spigot Cast Iron Short Sweep	169.27	43.19
		For Extra Heavy Fittings, Add	*36.61*	
		For Above Ground Cast Iron Pipe Installation, Add	*3.23*	
		For Work In Restricted Working Space, Add	*19.40*	
22 13 16 00-0043	EA	4" Bell And Spigot Cast Iron Short Sweep	231.57	57.43
		For Extra Heavy Fittings, Add	*50.93*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.30*	
		For Work In Restricted Working Space, Add	*25.82*	
22 13 16 00-0044	EA	5" Bell And Spigot Cast Iron Short Sweep	346.57	63.37
		For Extra Heavy Fittings, Add	*88.06*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.75*	
		For Work In Restricted Working Space, Add	*28.49*	
22 13 16 00-0045	EA	6" Bell And Spigot Cast Iron Short Sweep	418.33	74.56
		For Extra Heavy Fittings, Add	*107.30*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.59*	
		For Work In Restricted Working Space, Add	*33.53*	
22 13 16 00-0046	EA	8" Bell And Spigot Cast Iron Short Sweep	688.11	96.25
		For Extra Heavy Fittings, Add	*190.35*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.21*	
		For Work In Restricted Working Space, Add	*43.28*	
22 13 16 00-0047	EA	10" Bell And Spigot Cast Iron Short Sweep	1,005.61	118.41
		For Extra Heavy Fittings, Add	*289.82*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.88*	
		For Work In Restricted Working Space, Add	*53.27*	
22 13 16 00-0048	EA	12" Bell And Spigot Cast Iron Short Sweep	1,666.27	165.27
		For Extra Heavy Fittings, Add	*496.47*	
		For Above Ground Cast Iron Pipe Installation, Add	*12.39*	
		For Work In Restricted Working Space, Add	*74.34*	

22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends *(22 13 16 00-0030)*

22 13 16 00-0050	EA	2" Bell And Spigot Cast Iron 1/4 Bend	90.12	34.22
		For Extra Heavy Fittings, Add	*13.57*	
		For Above Ground Cast Iron Pipe Installation, Add	*2.57*	
		For Work In Restricted Working Space, Add	*15.41*	
22 13 16 00-0051	EA	3" Bell And Spigot Cast Iron 1/4 Bend	135.26	38.52
		For Extra Heavy Fittings, Add	*27.11*	
		For Above Ground Cast Iron Pipe Installation, Add	*2.89*	
		For Work In Restricted Working Space, Add	*17.34*	
22 13 16 00-0052	EA	4" Bell And Spigot Cast Iron 1/4 Bend	193.21	51.32
		For Extra Heavy Fittings, Add	*40.70*	
		For Above Ground Cast Iron Pipe Installation, Add	*3.85*	
		For Work In Restricted Working Space, Add	*23.08*	
22 13 16 00-0053	EA	5" Bell And Spigot Cast Iron 1/4 Bend	240.97	56.60
		For Extra Heavy Fittings, Add	*54.66*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.24*	
		For Work In Restricted Working Space, Add	*25.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0054	EA	6" Bell And Spigot Cast Iron 1/4 Bend	289.84	67.78
		For Extra Heavy Fittings, Add	*65.85*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.09*	
		For Work In Restricted Working Space, Add	*30.51*	
22 13 16 00-0055	EA	8" Bell And Spigot Cast Iron 1/4 Bend	599.70	88.63
		For Extra Heavy Fittings, Add	*163.40*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.64*	
		For Work In Restricted Working Space, Add	*39.85*	
22 13 16 00-0056	EA	10" Bell And Spigot Cast Iron 1/4 Bend	883.57	107.56
		For Extra Heavy Fittings, Add	*252.82*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.06*	
		For Work In Restricted Working Space, Add	*48.37*	
22 13 16 00-0057	EA	12" Bell And Spigot Cast Iron 1/4 Bend	1,164.35	126.95
		For Extra Heavy Fittings, Add	*340.89*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.52*	
		For Work In Restricted Working Space, Add	*57.11*	
22 13 16 00-0058	EA	15" Bell And Spigot Cast Iron 1/4 Bend	2,970.75	200.24
		For Extra Heavy Fittings, Add	*934.71*	
		For Above Ground Cast Iron Pipe Installation, Add	*15.01*	
		For Work In Restricted Working Space, Add	*90.05*	

22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends *(22 13 16 00-0030)*

22 13 16 00-0060	EA	2" Bell And Spigot Cast Iron 1/8 Bend	82.41	34.33
		For Extra Heavy Fittings, Add	*10.83*	
		For Above Ground Cast Iron Pipe Installation, Add	*2.57*	
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0061	EA	3" Bell And Spigot Cast Iron 1/8 Bend	128.54	43.19
		For Extra Heavy Fittings, Add	*22.35*	
		For Above Ground Cast Iron Pipe Installation, Add	*3.23*	
		For Work In Restricted Working Space, Add	*19.40*	
22 13 16 00-0062	EA	4" Bell And Spigot Cast Iron 1/8 Bend	182.97	57.43
		For Extra Heavy Fittings, Add	*33.92*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.30*	
		For Work In Restricted Working Space, Add	*25.82*	
22 13 16 00-0063	EA	5" Bell And Spigot Cast Iron 1/8 Bend	228.34	70.84
		For Extra Heavy Fittings, Add	*42.77*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.31*	
		For Work In Restricted Working Space, Add	*31.85*	
22 13 16 00-0064	EA	6" Bell And Spigot Cast Iron 1/8 Bend	263.95	78.97
		For Extra Heavy Fittings, Add	*50.93*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.92*	
		For Work In Restricted Working Space, Add	*35.54*	
22 13 16 00-0065	EA	8" Bell And Spigot Cast Iron 1/8 Bend	523.25	106.17
		For Extra Heavy Fittings, Add	*127.42*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.96*	
		For Work In Restricted Working Space, Add	*47.76*	
22 13 16 00-0066	EA	10" Bell And Spigot Cast Iron 1/8 Bend	731.17	130.99
		For Extra Heavy Fittings, Add	*187.16*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.82*	
		For Work In Restricted Working Space, Add	*58.93*	
22 13 16 00-0067	EA	12" Bell And Spigot Cast Iron 1/8 Bend	1,179.89	169.88
		For Extra Heavy Fittings, Add	*323.84*	
		For Above Ground Cast Iron Pipe Installation, Add	*12.73*	
		For Work In Restricted Working Space, Add	*76.39*	
22 13 16 00-0068	EA	15" Bell And Spigot Cast Iron 1/8 Bend	2,256.41	200.24
		For Extra Heavy Fittings, Add	*684.69*	
		For Above Ground Cast Iron Pipe Installation, Add	*15.01*	
		For Work In Restricted Working Space, Add	*90.05*	

22 13 16 00-0069 Bell And Spigot Cast Iron Wyes *(22 13 16 00-0030)*

22 13 16 00-0070	EA	2" Bell And Spigot Cast Iron Wye	144.81	76.69
		For Extra Heavy Fittings, Add	*10.42*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.75*	
		For Work In Restricted Working Space, Add	*34.51*	
22 13 16 00-0071	EA	3" Bell And Spigot Cast Iron Wye	181.71	83.99
		For Extra Heavy Fittings, Add	*19.52*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.30*	
		For Work In Restricted Working Space, Add	*37.78*	
22 13 16 00-0072	EA	4" Bell And Spigot Cast Iron Wye	239.21	110.08
		For Extra Heavy Fittings, Add	*25.98*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.25*	
		For Work In Restricted Working Space, Add	*49.50*	
22 13 16 00-0073	EA	5" Bell And Spigot Cast Iron Wye	306.47	121.90
		For Extra Heavy Fittings, Add	*43.28*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.14*	
		For Work In Restricted Working Space, Add	*54.84*	
22 13 16 00-0074	EA	6" Bell And Spigot Cast Iron Wye	384.21	144.48
		For Extra Heavy Fittings, Add	*58.65*	
		For Above Ground Cast Iron Pipe Installation, Add	*10.83*	
		For Work In Restricted Working Space, Add	*65.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0075	EA	8" Bell And Spigot Cast Iron Wye	701.59	193.89
		For Extra Heavy Fittings, Add	*143.81*	
		For Above Ground Cast Iron Pipe Installation, Add	*14.54*	
		For Work In Restricted Working Space, Add	*87.21*	
22 13 16 00-0076	EA	10" Bell And Spigot Cast Iron Wye	981.91	219.97
		For Extra Heavy Fittings, Add	*228.26*	
		For Above Ground Cast Iron Pipe Installation, Add	*16.49*	
		For Work In Restricted Working Space, Add	*98.92*	
22 13 16 00-0077	EA	12" Bell And Spigot Cast Iron Wye	1,450.60	267.75
		For Extra Heavy Fittings, Add	*367.21*	
		For Above Ground Cast Iron Pipe Installation, Add	*20.07*	
		For Work In Restricted Working Space, Add	*120.43*	
22 13 16 00-0078	EA	15" Bell And Spigot Cast Iron Wye	2,246.93	300.41
		For Extra Heavy Fittings, Add	*628.80*	
		For Above Ground Cast Iron Pipe Installation, Add	*22.52*	
		For Work In Restricted Working Space, Add	*135.11*	

22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes *(22 13 16 00-0030)*

22 13 16 00-0080	EA	3" x 2" Bell And Spigot Cast Iron Reducing Wye	227.30	80.16
		For Extra Heavy Fittings, Add	*37.48*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.01*	
		For Work In Restricted Working Space, Add	*36.07*	
22 13 16 00-0081	EA	4" x 2" Bell And Spigot Cast Iron Reducing Wye	276.72	99.07
		For Extra Heavy Fittings, Add	*44.85*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.43*	
		For Work In Restricted Working Space, Add	*44.58*	
22 13 16 00-0082	EA	4" x 3" Bell And Spigot Cast Iron Reducing Wye	308.35	101.58
		For Extra Heavy Fittings, Add	*54.59*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.62*	
		For Work In Restricted Working Space, Add	*45.71*	
22 13 16 00-0083	EA	6" x 2" Bell And Spigot Cast Iron Reducing Wye	453.98	129.46
		For Extra Heavy Fittings, Add	*90.99*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.70*	
		For Work In Restricted Working Space, Add	*58.20*	
22 13 16 00-0084	EA	6" x 3" Bell And Spigot Cast Iron Reducing Wye	465.72	131.84
		For Extra Heavy Fittings, Add	*93.81*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.89*	
		For Work In Restricted Working Space, Add	*59.31*	
22 13 16 00-0085	EA	6" x 4" Bell And Spigot Cast Iron Reducing Wye	487.57	140.65
		For Extra Heavy Fittings, Add	*96.84*	
		For Above Ground Cast Iron Pipe Installation, Add	*10.54*	
		For Work In Restricted Working Space, Add	*63.26*	
22 13 16 00-0086	EA	8" x 2" Bell And Spigot Cast Iron Reducing Wye	715.93	155.92
		For Extra Heavy Fittings, Add	*168.77*	
		For Above Ground Cast Iron Pipe Installation, Add	*11.69*	
		For Work In Restricted Working Space, Add	*70.12*	
22 13 16 00-0087	EA	8" x 3" Bell And Spigot Cast Iron Reducing Wye	748.25	158.92
		For Extra Heavy Fittings, Add	*178.52*	
		For Above Ground Cast Iron Pipe Installation, Add	*11.91*	
		For Work In Restricted Working Space, Add	*71.46*	
22 13 16 00-0088	EA	8" x 4" Bell And Spigot Cast Iron Reducing Wye	766.38	166.42
		For Extra Heavy Fittings, Add	*180.90*	
		For Above Ground Cast Iron Pipe Installation, Add	*12.48*	
		For Work In Restricted Working Space, Add	*74.86*	
22 13 16 00-0089	EA	8" x 6" Bell And Spigot Cast Iron Reducing Wye	905.24	185.12
		For Extra Heavy Fittings, Add	*219.68*	
		For Above Ground Cast Iron Pipe Installation, Add	*13.88*	
		For Work In Restricted Working Space, Add	*83.28*	
22 13 16 00-0090	EA	10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,114.90	173.46
		For Extra Heavy Fittings, Add	*299.19*	
		For Above Ground Cast Iron Pipe Installation, Add	*13.00*	
		For Work In Restricted Working Space, Add	*78.02*	
22 13 16 00-0091	EA	10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,159.80	181.08
		For Extra Heavy Fittings, Add	*310.89*	
		For Above Ground Cast Iron Pipe Installation, Add	*13.58*	
		For Work In Restricted Working Space, Add	*81.47*	
22 13 16 00-0092	EA	10" x 6" Bell And Spigot Cast Iron Reducing Wye	1,268.88	200.24
		For Extra Heavy Fittings, Add	*339.05*	
		For Above Ground Cast Iron Pipe Installation, Add	*15.01*	
		For Work In Restricted Working Space, Add	*90.05*	
22 13 16 00-0093	EA	10" x 8" Bell And Spigot Cast Iron Reducing Wye	1,676.43	212.36
		For Extra Heavy Fittings, Add	*475.32*	
		For Above Ground Cast Iron Pipe Installation, Add	*15.92*	
		For Work In Restricted Working Space, Add	*95.51*	
22 13 16 00-0094	EA	12" x 4" Bell And Spigot Cast Iron Reducing Wye	1,725.33	212.36
		For Extra Heavy Fittings, Add	*492.44*	
		For Above Ground Cast Iron Pipe Installation, Add	*15.92*	
		For Work In Restricted Working Space, Add	*95.51*	
22 13 16 00-0095	EA	12" x 6" Bell And Spigot Cast Iron Reducing Wye	1,795.93	230.13
		For Extra Heavy Fittings, Add	*507.82*	
		For Above Ground Cast Iron Pipe Installation, Add	*17.25*	
		For Work In Restricted Working Space, Add	*103.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0096	EA	12" x 8" Bell And Spigot Cast Iron Reducing Wye	2,108.24	241.55
		For Extra Heavy Fittings, Add	*611.16*	
		For Above Ground Cast Iron Pipe Installation, Add	*18.10*	
		For Work In Restricted Working Space, Add	*108.62*	
22 13 16 00-0097	EA	12" x 10" Bell And Spigot Cast Iron Reducing Wye	2,561.64	248.71
		For Extra Heavy Fittings, Add	*766.06*	
		For Above Ground Cast Iron Pipe Installation, Add	*18.64*	
		For Work In Restricted Working Space, Add	*111.87*	
22 13 16 00-0098	EA	15" x 4" Bell And Spigot Cast Iron Reducing Wye	4,231.41	234.51
		For Extra Heavy Fittings, Add	*1,357.94*	
		For Above Ground Cast Iron Pipe Installation, Add	*17.58*	
		For Work In Restricted Working Space, Add	*105.48*	
22 13 16 00-0099	EA	15" x 6" Bell And Spigot Cast Iron Reducing Wye	4,416.37	253.78
		For Extra Heavy Fittings, Add	*1,412.53*	
		For Above Ground Cast Iron Pipe Installation, Add	*19.03*	
		For Work In Restricted Working Space, Add	*114.17*	
22 13 16 00-0100	EA	15" x 8" Bell And Spigot Cast Iron Reducing Wye	4,507.02	264.74
		For Extra Heavy Fittings, Add	*1,438.53*	
		For Above Ground Cast Iron Pipe Installation, Add	*19.85*	
		For Work In Restricted Working Space, Add	*119.08*	
22 13 16 00-0101	EA	15" x 10" Bell And Spigot Cast Iron Reducing Wye	4,612.03	273.75
		For Extra Heavy Fittings, Add	*1,470.59*	
		For Above Ground Cast Iron Pipe Installation, Add	*20.52*	
		For Work In Restricted Working Space, Add	*123.10*	
22 13 16 00-0102	EA	15" x 12" Bell And Spigot Cast Iron Reducing Wye	4,728.82	289.68
		For Extra Heavy Fittings, Add	*1,503.09*	
		For Above Ground Cast Iron Pipe Installation, Add	*21.71*	
		For Work In Restricted Working Space, Add	*130.28*	
22 13 16 00-0103		**Bell And Spigot Cast Iron Combination Wye And 1/8 Bends** *(22 13 16 00-0030)*		
22 13 16 00-0104	EA	2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend	157.56	76.69
		For Extra Heavy Fittings, Add	*14.88*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.75*	
		For Work In Restricted Working Space, Add	*34.51*	
22 13 16 00-0105	EA	3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend	189.57	83.99
		For Extra Heavy Fittings, Add	*22.27*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.30*	
		For Work In Restricted Working Space, Add	*37.78*	
22 13 16 00-0106	EA	4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend	252.89	110.08
		For Extra Heavy Fittings, Add	*30.77*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.25*	
		For Work In Restricted Working Space, Add	*49.50*	
22 13 16 00-0107	EA	5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend	350.93	127.88
		For Extra Heavy Fittings, Add	*55.74*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.58*	
		For Work In Restricted Working Space, Add	*57.50*	
22 13 16 00-0108	EA	6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend	439.43	158.61
		For Extra Heavy Fittings, Add	*70.58*	
		For Above Ground Cast Iron Pipe Installation, Add	*11.89*	
		For Work In Restricted Working Space, Add	*71.33*	
22 13 16 00-0109	EA	8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend	803.89	208.77
		For Extra Heavy Fittings, Add	*171.82*	
		For Above Ground Cast Iron Pipe Installation, Add	*15.65*	
		For Work In Restricted Working Space, Add	*93.89*	
22 13 16 00-0110	EA	10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend	1,159.32	273.75
		For Extra Heavy Fittings, Add	*262.14*	
		For Above Ground Cast Iron Pipe Installation, Add	*20.52*	
		For Work In Restricted Working Space, Add	*123.10*	
22 13 16 00-0111	EA	12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend	1,553.96	351.88
		For Extra Heavy Fittings, Add	*359.23*	
		For Above Ground Cast Iron Pipe Installation, Add	*26.38*	
		For Work In Restricted Working Space, Add	*158.27*	
22 13 16 00-0112		**Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends** *(22 13 16 00-0030)*		
22 13 16 00-0113	EA	3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	167.94	80.16
		For Extra Heavy Fittings, Add	*16.70*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.01*	
		For Work In Restricted Working Space, Add	*36.07*	
22 13 16 00-0114	EA	4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	236.25	99.07
		For Extra Heavy Fittings, Add	*30.68*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.43*	
		For Work In Restricted Working Space, Add	*44.58*	
22 13 16 00-0115	EA	4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	254.94	101.58
		For Extra Heavy Fittings, Add	*35.90*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.62*	
		For Work In Restricted Working Space, Add	*45.71*	
22 13 16 00-0116	EA	6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	377.38	129.46
		For Extra Heavy Fittings, Add	*64.18*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.70*	
		For Work In Restricted Working Space, Add	*58.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0117	EA	6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	393.00	131.84
		For Extra Heavy Fittings, Add	*68.36*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.89*	
		For Work In Restricted Working Space, Add	*59.31*	
22 13 16 00-0118	EA	6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	416.61	140.65
		For Extra Heavy Fittings, Add	*72.01*	
		For Above Ground Cast Iron Pipe Installation, Add	*10.54*	
		For Work In Restricted Working Space, Add	*63.26*	
22 13 16 00-0119	EA	8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	573.65	155.92
		For Extra Heavy Fittings, Add	*118.97*	
		For Above Ground Cast Iron Pipe Installation, Add	*11.69*	
		For Work In Restricted Working Space, Add	*70.12*	
22 13 16 00-0120	EA	8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	589.44	166.42
		For Extra Heavy Fittings, Add	*118.97*	
		For Above Ground Cast Iron Pipe Installation, Add	*12.48*	
		For Work In Restricted Working Space, Add	*74.86*	
22 13 16 00-0121	EA	8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	744.22	185.12
		For Extra Heavy Fittings, Add	*163.32*	
		For Above Ground Cast Iron Pipe Installation, Add	*13.88*	
		For Work In Restricted Working Space, Add	*83.28*	
22 13 16 00-0122		**Bell And Spigot Cast Iron Double Wyes** *(22 13 16 00-0030)*		
22 13 16 00-0123	EA	2" Bell And Spigot Cast Iron Double Wye	255.14	91.77
		For Extra Heavy Fittings, Add	*41.16*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.88*	
		For Work In Restricted Working Space, Add	*41.26*	
22 13 16 00-0124	EA	3" Bell And Spigot Cast Iron Double Wye	370.86	115.69
		For Extra Heavy Fittings, Add	*69.11*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.67*	
		For Work In Restricted Working Space, Add	*52.02*	
22 13 16 00-0125	EA	4" Bell And Spigot Cast Iron Double Wye	502.95	146.32
		For Extra Heavy Fittings, Add	*99.23*	
		For Above Ground Cast Iron Pipe Installation, Add	*10.97*	
		For Work In Restricted Working Space, Add	*65.84*	
22 13 16 00-0126	EA	6" Bell And Spigot Cast Iron Double Wye	961.72	221.98
		For Extra Heavy Fittings, Add	*220.11*	
		For Above Ground Cast Iron Pipe Installation, Add	*16.64*	
		For Work In Restricted Working Space, Add	*99.85*	
22 13 16 00-0127	EA	8" Bell And Spigot Cast Iron Double Wye	1,923.64	262.09
		For Extra Heavy Fittings, Add	*535.77*	
		For Above Ground Cast Iron Pipe Installation, Add	*19.64*	
		For Work In Restricted Working Space, Add	*117.86*	
22 13 16 00-0128	EA	10" Bell And Spigot Cast Iron Double Wye	2,548.56	293.25
		For Extra Heavy Fittings, Add	*738.12*	
		For Above Ground Cast Iron Pipe Installation, Add	*21.98*	
		For Work In Restricted Working Space, Add	*131.90*	
22 13 16 00-0129	EA	12" Bell And Spigot Cast Iron Double Wye	1,769.09	351.88
		For Extra Heavy Fittings, Add	*434.53*	
		For Above Ground Cast Iron Pipe Installation, Add	*26.38*	
		For Work In Restricted Working Space, Add	*158.27*	
22 13 16 00-0130	EA	15" Bell And Spigot Cast Iron Double Wye	4,980.29	369.31
		For Extra Heavy Fittings, Add	*1,549.21*	
		For Above Ground Cast Iron Pipe Installation, Add	*27.70*	
		For Work In Restricted Working Space, Add	*166.20*	
22 13 16 00-0131		**Bell And Spigot Cast Iron Reducing Double Wyes** *(22 13 16 00-0030)*		
22 13 16 00-0132	EA	3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	232.13	108.52
		For Extra Heavy Fittings, Add	*24.29*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.14*	
		For Work In Restricted Working Space, Add	*48.82*	
22 13 16 00-0133	EA	4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	269.71	124.67
		For Extra Heavy Fittings, Add	*28.97*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.35*	
		For Work In Restricted Working Space, Add	*56.09*	
22 13 16 00-0134	EA	4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	292.02	130.77
		For Extra Heavy Fittings, Add	*33.56*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.81*	
		For Work In Restricted Working Space, Add	*58.84*	
22 13 16 00-0135	EA	6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	373.93	153.98
		For Extra Heavy Fittings, Add	*50.09*	
		For Above Ground Cast Iron Pipe Installation, Add	*11.54*	
		For Work In Restricted Working Space, Add	*69.25*	
22 13 16 00-0136	EA	6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	396.36	159.85
		For Extra Heavy Fittings, Add	*54.86*	
		For Above Ground Cast Iron Pipe Installation, Add	*11.98*	
		For Work In Restricted Working Space, Add	*71.89*	
22 13 16 00-0137	EA	6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	455.94	174.32
		For Extra Heavy Fittings, Add	*68.11*	
		For Above Ground Cast Iron Pipe Installation, Add	*13.07*	
		For Work In Restricted Working Space, Add	*78.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0138	EA	8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	734.83	201.97
		For Extra Heavy Fittings, Add	*151.24*	
		For Above Ground Cast Iron Pipe Installation, Add	*15.14*	
		For Work In Restricted Working Space, Add	*90.81*	
22 13 16 00-0139	EA	8" x 6" Bell And Spigot Cast Iron Reducing Double Wye	800.62	239.01
		For Extra Heavy Fittings, Add	*154.77*	
		For Above Ground Cast Iron Pipe Installation, Add	*17.92*	
		For Work In Restricted Working Space, Add	*107.53*	
22 13 16 00-0140	EA	10" x 4" Bell And Spigot Cast Iron Reducing Double Wye	782.81	216.04
		For Extra Heavy Fittings, Add	*160.60*	
		For Above Ground Cast Iron Pipe Installation, Add	*16.20*	
		For Work In Restricted Working Space, Add	*97.19*	
22 13 16 00-0141	EA	10" x 6" Bell And Spigot Cast Iron Reducing Double Wye	912.34	253.78
		For Extra Heavy Fittings, Add	*186.12*	
		For Above Ground Cast Iron Pipe Installation, Add	*19.03*	
		For Work In Restricted Working Space, Add	*114.17*	
22 13 16 00-0142	EA	10" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,123.82	276.63
		For Extra Heavy Fittings, Add	*248.17*	
		For Above Ground Cast Iron Pipe Installation, Add	*20.74*	
		For Work In Restricted Working Space, Add	*124.43*	
22 13 16 00-0143	EA	12" x 6" Bell And Spigot Cast Iron Reducing Double Wye	1,147.90	282.98
		For Extra Heavy Fittings, Add	*253.26*	
		For Above Ground Cast Iron Pipe Installation, Add	*21.22*	
		For Work In Restricted Working Space, Add	*127.29*	
22 13 16 00-0144	EA	12" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,466.69	307.91
		For Extra Heavy Fittings, Add	*351.77*	
		For Above Ground Cast Iron Pipe Installation, Add	*23.08*	
		For Work In Restricted Working Space, Add	*138.49*	
22 13 16 00-0145		**Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends** *(22 13 16 00-0030)*		
22 13 16 00-0146	EA	2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	212.98	91.77
		For Extra Heavy Fittings, Add	*26.41*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.88*	
		For Work In Restricted Working Space, Add	*41.26*	
22 13 16 00-0147	EA	3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	286.82	122.76
		For Extra Heavy Fittings, Add	*35.96*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.20*	
		For Work In Restricted Working Space, Add	*55.22*	
22 13 16 00-0148	EA	4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	374.69	153.50
		For Extra Heavy Fittings, Add	*50.61*	
		For Above Ground Cast Iron Pipe Installation, Add	*11.50*	
		For Work In Restricted Working Space, Add	*69.03*	
22 13 16 00-0149	EA	6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	820.23	248.09
		For Extra Heavy Fittings, Add	*156.89*	
		For Above Ground Cast Iron Pipe Installation, Add	*18.60*	
		For Work In Restricted Working Space, Add	*111.59*	
22 13 16 00-0150		**Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends** *(22 13 16 00-0030)*		
22 13 16 00-0151	EA	3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	284.26	110.08
		For Extra Heavy Fittings, Add	*41.74*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.25*	
		For Work In Restricted Working Space, Add	*49.50*	
22 13 16 00-0152	EA	4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	337.22	124.67
		For Extra Heavy Fittings, Add	*52.59*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.35*	
		For Work In Restricted Working Space, Add	*56.09*	
22 13 16 00-0153	EA	4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	378.56	138.79
		For Extra Heavy Fittings, Add	*59.69*	
		For Above Ground Cast Iron Pipe Installation, Add	*10.40*	
		For Work In Restricted Working Space, Add	*62.40*	
22 13 16 00-0154	EA	6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	756.02	185.05
		For Extra Heavy Fittings, Add	*167.49*	
		For Above Ground Cast Iron Pipe Installation, Add	*13.87*	
		For Work In Restricted Working Space, Add	*83.24*	
22 13 16 00-0155		**Bell And Spigot Cast Iron Sanitary Tees** *(22 13 16 00-0030)*		
22 13 16 00-0156	EA	2" Bell And Spigot Cast Iron Sanitary Tee	173.94	76.81
		For Extra Heavy Fittings, Add	*20.58*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.76*	
		For Work In Restricted Working Space, Add	*34.54*	
22 13 16 00-0157	EA	3" Bell And Spigot Cast Iron Sanitary Tee	197.74	83.99
		For Extra Heavy Fittings, Add	*25.13*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.30*	
		For Work In Restricted Working Space, Add	*37.78*	
22 13 16 00-0158	EA	4" Bell And Spigot Cast Iron Sanitary Tee	317.75	102.89
		For Extra Heavy Fittings, Add	*57.19*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.72*	
		For Work In Restricted Working Space, Add	*46.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0159	EA	5" Bell And Spigot Cast Iron Sanitary Tee	460.04	112.75
		For Extra Heavy Fittings, Add	*101.82*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.46*	
		For Work In Restricted Working Space, Add	*50.74*	
22 13 16 00-0160	EA	6" Bell And Spigot Cast Iron Sanitary Tee	551.88	135.23
		For Extra Heavy Fittings, Add	*122.19*	
		For Above Ground Cast Iron Pipe Installation, Add	*10.14*	
		For Work In Restricted Working Space, Add	*60.83*	
22 13 16 00-0161	EA	8" Bell And Spigot Cast Iron Sanitary Tee	1,184.81	177.16
		For Extra Heavy Fittings, Add	*321.72*	
		For Above Ground Cast Iron Pipe Installation, Add	*13.28*	
		For Work In Restricted Working Space, Add	*79.68*	
22 13 16 00-0162	EA	10" Bell And Spigot Cast Iron Sanitary Tee	1,779.81	216.04
		For Extra Heavy Fittings, Add	*509.55*	
		For Above Ground Cast Iron Pipe Installation, Add	*16.20*	
		For Work In Restricted Working Space, Add	*97.19*	
22 13 16 00-0163	EA	12" Bell And Spigot Cast Iron Sanitary Tee	2,654.74	253.78
		For Extra Heavy Fittings, Add	*795.96*	
		For Above Ground Cast Iron Pipe Installation, Add	*19.03*	
		For Work In Restricted Working Space, Add	*114.17*	

22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees *(22 13 16 00-0030)*

22 13 16 00-0165	EA	3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	232.88	80.16
		For Extra Heavy Fittings, Add	*39.43*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.01*	
		For Work In Restricted Working Space, Add	*36.07*	
22 13 16 00-0166	EA	4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	275.70	93.92
		For Extra Heavy Fittings, Add	*47.23*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.04*	
		For Work In Restricted Working Space, Add	*42.23*	
22 13 16 00-0167	EA	4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	288.70	93.92
		For Extra Heavy Fittings, Add	*51.78*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.04*	
		For Work In Restricted Working Space, Add	*42.23*	
22 13 16 00-0168	EA	6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	436.65	129.46
		For Extra Heavy Fittings, Add	*84.92*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.70*	
		For Work In Restricted Working Space, Add	*58.20*	
22 13 16 00-0169	EA	6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	454.58	131.84
		For Extra Heavy Fittings, Add	*89.91*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.89*	
		For Work In Restricted Working Space, Add	*59.31*	
22 13 16 00-0170	EA	6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	493.14	140.65
		For Extra Heavy Fittings, Add	*98.79*	
		For Above Ground Cast Iron Pipe Installation, Add	*10.54*	
		For Work In Restricted Working Space, Add	*63.26*	
22 13 16 00-0171	EA	8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	840.04	166.42
		For Extra Heavy Fittings, Add	*206.68*	
		For Above Ground Cast Iron Pipe Installation, Add	*12.48*	
		For Work In Restricted Working Space, Add	*74.86*	
22 13 16 00-0172	EA	8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee	1,054.42	185.12
		For Extra Heavy Fittings, Add	*271.89*	
		For Above Ground Cast Iron Pipe Installation, Add	*13.88*	
		For Work In Restricted Working Space, Add	*83.28*	

22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees *(22 13 16 00-0030)*

22 13 16 00-0174	EA	2" Bell And Spigot Cast Iron Vent Tee	149.39	76.69
		For Extra Heavy Fittings, Add	*12.02*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.75*	
		For Work In Restricted Working Space, Add	*34.51*	
22 13 16 00-0175	EA	3" Bell And Spigot Cast Iron Vent Tee	185.73	83.99
		For Extra Heavy Fittings, Add	*20.93*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.30*	
		For Work In Restricted Working Space, Add	*37.78*	
22 13 16 00-0176	EA	4" Bell And Spigot Cast Iron Vent Tee	246.02	110.08
		For Extra Heavy Fittings, Add	*28.36*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.25*	
		For Work In Restricted Working Space, Add	*49.50*	
22 13 16 00-0177	EA	5" Bell And Spigot Cast Iron Vent Tee	312.55	127.88
		For Extra Heavy Fittings, Add	*42.31*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.58*	
		For Work In Restricted Working Space, Add	*57.50*	
22 13 16 00-0178	EA	6" Bell And Spigot Cast Iron Vent Tee	393.50	158.61
		For Extra Heavy Fittings, Add	*54.51*	
		For Above Ground Cast Iron Pipe Installation, Add	*11.89*	
		For Work In Restricted Working Space, Add	*71.33*	
22 13 16 00-0179	EA	8" Bell And Spigot Cast Iron Vent Tee	675.39	208.77
		For Extra Heavy Fittings, Add	*126.85*	
		For Above Ground Cast Iron Pipe Installation, Add	*15.65*	
		For Work In Restricted Working Space, Add	*93.89*	

22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees *(22 13 16 00-0030)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0181	EA	2" Bell And Spigot Cast Iron Tapped Sanitary Tee	153.42	76.69
		For Extra Heavy Fittings, Add	*13.43*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.75*	
		For Work In Restricted Working Space, Add	*34.51*	
22 13 16 00-0182	EA	3" Bell And Spigot Cast Iron Tapped Sanitary Tee	169.33	83.99
		For Extra Heavy Fittings, Add	*15.19*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.30*	
		For Work In Restricted Working Space, Add	*37.78*	
22 13 16 00-0183	EA	4" Bell And Spigot Cast Iron Tapped Sanitary Tee	218.47	110.08
		For Extra Heavy Fittings, Add	*18.72*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.25*	
		For Work In Restricted Working Space, Add	*49.50*	
22 13 16 00-0184		**Bell And Spigot Cast Iron Tapped Sanitary Crosses** *(22 13 16 00-0030)*		
22 13 16 00-0185	EA	2" Bell And Spigot Cast Iron Tapped Sanitary Cross	155.96	76.69
		For Extra Heavy Fittings, Add	*14.32*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.75*	
		For Work In Restricted Working Space, Add	*34.51*	
22 13 16 00-0186	EA	3" Bell And Spigot Cast Iron Tapped Sanitary Cross	174.16	83.99
		For Extra Heavy Fittings, Add	*16.88*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.30*	
		For Work In Restricted Working Space, Add	*37.78*	
22 13 16 00-0187	EA	4" Bell And Spigot Cast Iron Tapped Sanitary Cross	230.60	110.08
		For Extra Heavy Fittings, Add	*22.96*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.25*	
		For Work In Restricted Working Space, Add	*49.50*	
22 13 16 00-0188		**Bell And Spigot Cast Iron Reducers** *(22 13 16 00-0030)*		
22 13 16 00-0189	EA	3" x 2" Bell And Spigot Cast Iron Reducer	86.40	43.19
		For Extra Heavy Fittings, Add	*7.61*	
		For Above Ground Cast Iron Pipe Installation, Add	*3.23*	
		For Work In Restricted Working Space, Add	*19.40*	
22 13 16 00-0190	EA	4" x 2" Bell And Spigot Cast Iron Reducer	108.18	56.95
		For Extra Heavy Fittings, Add	*7.95*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.27*	
		For Work In Restricted Working Space, Add	*25.64*	
22 13 16 00-0191	EA	4" x 3" Bell And Spigot Cast Iron Reducer	115.60	57.43
		For Extra Heavy Fittings, Add	*10.34*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.30*	
		For Work In Restricted Working Space, Add	*25.82*	
22 13 16 00-0192	EA	6" x 2" Bell And Spigot Cast Iron Reducer	145.60	68.46
		For Extra Heavy Fittings, Add	*15.02*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.14*	
		For Work In Restricted Working Space, Add	*30.81*	
22 13 16 00-0193	EA	6" x 3" Bell And Spigot Cast Iron Reducer	152.27	69.37
		For Extra Heavy Fittings, Add	*16.88*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.20*	
		For Work In Restricted Working Space, Add	*31.22*	
22 13 16 00-0194	EA	6" x 4" Bell And Spigot Cast Iron Reducer	157.15	70.84
		For Extra Heavy Fittings, Add	*17.85*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.31*	
		For Work In Restricted Working Space, Add	*31.85*	
22 13 16 00-0195	EA	8" x 2" Bell And Spigot Cast Iron Reducer	203.58	72.98
		For Extra Heavy Fittings, Add	*32.95*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.47*	
		For Work In Restricted Working Space, Add	*32.83*	
22 13 16 00-0196	EA	8" x 3" Bell And Spigot Cast Iron Reducer	229.92	89.90
		For Extra Heavy Fittings, Add	*33.30*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.74*	
		For Work In Restricted Working Space, Add	*40.43*	
22 13 16 00-0197	EA	8" x 4" Bell And Spigot Cast Iron Reducer	235.98	92.21
		For Extra Heavy Fittings, Add	*34.19*	
		For Above Ground Cast Iron Pipe Installation, Add	*6.92*	
		For Work In Restricted Working Space, Add	*41.49*	
22 13 16 00-0198	EA	8" x 6" Bell And Spigot Cast Iron Reducer	243.73	96.25
		For Extra Heavy Fittings, Add	*34.81*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.21*	
		For Work In Restricted Working Space, Add	*43.28*	
22 13 16 00-0199	EA	10" x 4" Bell And Spigot Cast Iron Reducer	304.35	108.03
		For Extra Heavy Fittings, Add	*49.83*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.10*	
		For Work In Restricted Working Space, Add	*48.59*	
22 13 16 00-0200	EA	10" x 6" Bell And Spigot Cast Iron Reducer	320.88	113.45
		For Extra Heavy Fittings, Add	*52.75*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.51*	
		For Work In Restricted Working Space, Add	*51.05*	
22 13 16 00-0201	EA	10" x 8" Bell And Spigot Cast Iron Reducer	341.89	118.41
		For Extra Heavy Fittings, Add	*57.52*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.88*	
		For Work In Restricted Working Space, Add	*53.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0202	EA	12" x 4" Bell And Spigot Cast Iron Reducer	424.78	128.34
		For Extra Heavy Fittings, Add	*81.35*	
		For Above Ground Cast Iron Pipe Installation, Add	*9.62*	
		For Work In Restricted Working Space, Add	*57.71*	
22 13 16 00-0203	EA	12" x 6" Bell And Spigot Cast Iron Reducer	473.78	150.15
		For Extra Heavy Fittings, Add	*87.01*	
		For Above Ground Cast Iron Pipe Installation, Add	*11.26*	
		For Work In Restricted Working Space, Add	*67.56*	
22 13 16 00-0204	EA	12" x 8" Bell And Spigot Cast Iron Reducer	512.41	171.03
		For Extra Heavy Fittings, Add	*89.58*	
		For Above Ground Cast Iron Pipe Installation, Add	*12.82*	
		For Work In Restricted Working Space, Add	*76.94*	
22 13 16 00-0205	EA	12" x 10" Bell And Spigot Cast Iron Reducer	561.39	197.00
		For Extra Heavy Fittings, Add	*93.11*	
		For Above Ground Cast Iron Pipe Installation, Add	*14.77*	
		For Work In Restricted Working Space, Add	*88.61*	
22 13 16 00-0206	EA	15" x 6" Bell And Spigot Cast Iron Reducer	733.53	197.00
		For Extra Heavy Fittings, Add	*153.36*	
		For Above Ground Cast Iron Pipe Installation, Add	*14.77*	
		For Work In Restricted Working Space, Add	*88.61*	
22 13 16 00-0207	EA	15" x 8" Bell And Spigot Cast Iron Reducer	780.51	212.36
		For Extra Heavy Fittings, Add	*161.75*	
		For Above Ground Cast Iron Pipe Installation, Add	*15.92*	
		For Work In Restricted Working Space, Add	*95.51*	
22 13 16 00-0208	EA	15" x 10" Bell And Spigot Cast Iron Reducer	812.73	223.89
		For Extra Heavy Fittings, Add	*166.95*	
		For Above Ground Cast Iron Pipe Installation, Add	*16.79*	
		For Work In Restricted Working Space, Add	*100.72*	
22 13 16 00-0209	EA	15" x 12" Bell And Spigot Cast Iron Reducer	856.40	239.01
		For Extra Heavy Fittings, Add	*174.29*	
		For Above Ground Cast Iron Pipe Installation, Add	*17.92*	
		For Work In Restricted Working Space, Add	*107.53*	

22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps *(22 13 16 00-0030)*

22 13 16 00-0211	EA	2" Bell And Spigot Cast Iron P-Trap	88.60	34.33
		For Extra Heavy Fittings, Add	*13.00*	
		For Above Ground Cast Iron Pipe Installation, Add	*2.57*	
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0212	EA	3" Bell And Spigot Cast Iron P-Trap	118.71	43.19
		For Extra Heavy Fittings, Add	*18.91*	
		For Above Ground Cast Iron Pipe Installation, Add	*3.23*	
		For Work In Restricted Working Space, Add	*19.40*	
22 13 16 00-0213	EA	4" Bell And Spigot Cast Iron P-Trap	161.77	57.43
		For Extra Heavy Fittings, Add	*26.50*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.30*	
		For Work In Restricted Working Space, Add	*25.82*	
22 13 16 00-0214	EA	5" Bell And Spigot Cast Iron P-Trap	257.28	63.37
		For Extra Heavy Fittings, Add	*56.81*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.75*	
		For Work In Restricted Working Space, Add	*28.49*	
22 13 16 00-0215	EA	6" Bell And Spigot Cast Iron P-Trap	345.49	74.56
		For Extra Heavy Fittings, Add	*81.81*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.59*	
		For Work In Restricted Working Space, Add	*33.53*	
22 13 16 00-0216	EA	8" Bell And Spigot Cast Iron P-Trap	768.20	96.25
		For Extra Heavy Fittings, Add	*218.38*	
		For Above Ground Cast Iron Pipe Installation, Add	*7.21*	
		For Work In Restricted Working Space, Add	*43.28*	
22 13 16 00-0217	EA	10" Bell And Spigot Cast Iron P-Trap	851.63	118.41
		For Extra Heavy Fittings, Add	*235.93*	
		For Above Ground Cast Iron Pipe Installation, Add	*8.88*	
		For Work In Restricted Working Space, Add	*53.27*	

22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps *(22 13 16 00-0030)*

22 13 16 00-0219	EA	2" Bell And Spigot Cast Iron Deep Seal P-Trap	102.71	34.33
		For Extra Heavy Fittings, Add	*17.94*	
		For Above Ground Cast Iron Pipe Installation, Add	*2.57*	
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0220	EA	3" Bell And Spigot Cast Iron Deep Seal P-Trap	146.44	43.19
		For Extra Heavy Fittings, Add	*28.62*	
		For Above Ground Cast Iron Pipe Installation, Add	*3.23*	
		For Work In Restricted Working Space, Add	*19.40*	
22 13 16 00-0221	EA	4" Bell And Spigot Cast Iron Deep Seal P-Trap	213.33	57.43
		For Extra Heavy Fittings, Add	*44.54*	
		For Above Ground Cast Iron Pipe Installation, Add	*4.30*	
		For Work In Restricted Working Space, Add	*25.82*	
22 13 16 00-0222	EA	5" Bell And Spigot Cast Iron Deep Seal P-Trap	349.97	70.84
		For Extra Heavy Fittings, Add	*85.34*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.31*	
		For Work In Restricted Working Space, Add	*31.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0223	EA	6" Bell And Spigot Cast Iron Deep Seal P-Trap	371.37	78.97
		For Extra Heavy Fittings, Add	*88.52*	
		For Above Ground Cast Iron Pipe Installation, Add	*5.92*	
		For Work In Restricted Working Space, Add	*35.54*	

22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent *(22 13 16 00-0030)*

22 13 16 00-0225	EA	3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent	236.87	82.91
		For Above Ground Cast Iron Pipe Installation, Add	*6.30*	
		For Work In Restricted Working Space, Add	*37.78*	
22 13 16 00-0226	EA	4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent	316.00	109.00
		For Above Ground Cast Iron Pipe Installation, Add	*8.25*	
		For Work In Restricted Working Space, Add	*49.50*	
22 13 16 00-0227	EA	5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent	426.42	123.03
		For Above Ground Cast Iron Pipe Installation, Add	*9.30*	
		For Work In Restricted Working Space, Add	*55.79*	
22 13 16 00-0228	EA	6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent	858.10	139.41
		For Above Ground Cast Iron Pipe Installation, Add	*10.54*	
		For Work In Restricted Working Space, Add	*63.26*	
22 13 16 00-0229	EA	8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent	2,819.01	164.57
		For Above Ground Cast Iron Pipe Installation, Add	*12.48*	
		For Work In Restricted Working Space, Add	*74.86*	
22 13 16 00-0230	EA	8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent	3,052.24	183.62
		For Above Ground Cast Iron Pipe Installation, Add	*13.88*	
		For Work In Restricted Working Space, Add	*83.28*	

22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent *(22 13 16 00-0030)*

22 13 16 00-0232	EA	3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent	303.01	114.50
		For Above Ground Cast Iron Pipe Installation, Add	*8.67*	
		For Work In Restricted Working Space, Add	*52.02*	
22 13 16 00-0233	EA	4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent	413.87	144.53
		For Above Ground Cast Iron Pipe Installation, Add	*10.97*	
		For Work In Restricted Working Space, Add	*65.84*	
22 13 16 00-0234	EA	6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent	956.35	172.28
		For Above Ground Cast Iron Pipe Installation, Add	*13.07*	
		For Work In Restricted Working Space, Add	*78.40*	
22 13 16 00-0235	EA	6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent	1,109.13	208.54
		For Above Ground Cast Iron Pipe Installation, Add	*15.80*	
		For Work In Restricted Working Space, Add	*94.80*	
22 13 16 00-0236	EA	8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent	3,036.03	199.54
		For Above Ground Cast Iron Pipe Installation, Add	*15.14*	
		For Work In Restricted Working Space, Add	*90.81*	
22 13 16 00-0237	EA	8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent	3,331.35	236.94
		For Above Ground Cast Iron Pipe Installation, Add	*17.92*	
		For Work In Restricted Working Space, Add	*107.53*	
22 13 16 00-0238	EA	10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent	4,431.27	273.41
		For Above Ground Cast Iron Pipe Installation, Add	*20.74*	
		For Work In Restricted Working Space, Add	*124.43*	
22 13 16 00-0239	EA	12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent	6,133.99	316.10
		For Above Ground Cast Iron Pipe Installation, Add	*23.94*	
		For Work In Restricted Working Space, Add	*143.66*	
22 13 16 00-0240	EA	15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent	11,943.73	365.62
		For Above Ground Cast Iron Pipe Installation, Add	*27.71*	
		For Work In Restricted Working Space, Add	*166.25*	

22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings *(22 13 16 00-0030)*

22 13 16 00-0242	EA	2" Bell And Spigot Cast Iron Scission Joint Fitting	183.89	
		For Above Ground Cast Iron Pipe Installation, Add	*2.57*	
		For Work In Restricted Working Space, Add	*15.40*	
22 13 16 00-0243	EA	3" Bell And Spigot Cast Iron Scission Joint Fitting	253.80	
		For Above Ground Cast Iron Pipe Installation, Add	*2.88*	
		For Work In Restricted Working Space, Add	*17.30*	
22 13 16 00-0244	EA	4" Bell And Spigot Cast Iron Scission Joint Fitting	292.96	
		For Above Ground Cast Iron Pipe Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.18*	
22 13 16 00-0245	EA	5" Bell And Spigot Cast Iron Scission Joint Fitting	361.84	
		For Above Ground Cast Iron Pipe Installation, Add	*4.49*	
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0246	EA	6" Bell And Spigot Cast Iron Scission Joint Fitting	439.43	
		For Above Ground Cast Iron Pipe Installation, Add	*5.42*	
		For Work In Restricted Working Space, Add	*32.52*	
22 13 16 00-0247	EA	8" Bell And Spigot Cast Iron Scission Joint Fitting	833.15	
		For Above Ground Cast Iron Pipe Installation, Add	*6.85*	
		For Work In Restricted Working Space, Add	*41.10*	

22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe *(22 13 16 00-0019)*

Note: For use when connecting pipe to an existing in-place system.

22 13 16 00-0249	EA	Cut And Prepare, Existing In-Place 2" Diameter Cast Iron Pipe	14.30	
		For Above Ground Cast Iron Pipe Installation, Add	*0.72*	
		For Work In Restricted Working Space, Add	*4.29*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0250	EA	Cut And Prepare, Existing In-Place 3" Diameter Cast Iron Pipe	15.60	
		For Above Ground Cast Iron Pipe Installation, Add	*0.78*	
		For Work In Restricted Working Space, Add	*4.68*	
22 13 16 00-0251	EA	Cut And Prepare, Existing In-Place 4" Diameter Cast Iron Pipe	19.49	
		For Above Ground Cast Iron Pipe Installation, Add	*0.97*	
		For Work In Restricted Working Space, Add	*5.85*	
22 13 16 00-0252	EA	Cut And Prepare, Existing In-Place 6" Diameter Cast Iron Pipe	23.39	
		For Above Ground Cast Iron Pipe Installation, Add	*1.17*	
		For Work In Restricted Working Space, Add	*7.02*	
22 13 16 00-0253	EA	Cut And Prepare, Existing In-Place 8" Diameter Cast Iron Pipe	31.19	
		For Above Ground Cast Iron Pipe Installation, Add	*1.56*	
		For Work In Restricted Working Space, Add	*9.36*	
22 13 16 00-0254	EA	Cut And Prepare, Existing In-Place 10" Diameter Cast Iron Pipe	36.38	
		For Above Ground Cast Iron Pipe Installation, Add	*1.82*	
		For Work In Restricted Working Space, Add	*10.91*	
22 13 16 00-0255	EA	Cut And Prepare, Existing In-Place 12" Diameter Cast Iron Pipe	42.88	
		For Above Ground Cast Iron Pipe Installation, Add	*2.14*	
		For Work In Restricted Working Space, Add	*12.86*	
22 13 16 00-0256	EA	Cut And Prepare, Existing In-Place 15" Diameter Cast Iron Pipe	49.38	
		For Above Ground Cast Iron Pipe Installation, Add	*2.47*	
		For Work In Restricted Working Space, Add	*14.81*	

22 13 16 00-0257 Joint Material *(22 13 16 00-0019)*

Note: Labor costs are included in the installation costs for fittings.

22 13 16 00-0258	LB	Lead (1 Lb./Diameter Inch) Joint Material	6.88	
22 13 16 00-0259	LB	Oakum (1/8 Lb./Diameter Inch) Joint Material	13.81	
22 13 16 00-0260	EA	2" Dual Tite Rubber Gasket	3.32	
22 13 16 00-0261	EA	3" Dual Tite Rubber Gasket	4.55	
22 13 16 00-0262	EA	4" Dual Tite Rubber Gasket	5.65	
22 13 16 00-0263	EA	6" Dual Tite Rubber Gasket	9.38	
22 13 16 00-0264	EA	8" Dual Tite Rubber Gasket	20.69	
22 13 16 00-0265	EA	10" Dual Tite Rubber Gasket	31.72	
22 13 16 00-0266	EA	12" Dual Tite Rubber Gasket	40.41	
22 13 16 00-0267	EA	15" Dual Tite Rubber Gasket	47.99	

22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings *(22 13 16)*

Note: Service Weight. Excludes hangers.

22 13 16 00-0269 No Hub Cast Iron Pipe *(22 13 16 00-0268)*

Note: Excludes couplings.

22 13 16 00-0270	LF	1-1/2" Diameter, No Hub Cast Iron Pipe	21.41	7.18
		For Below Ground Installation, Add	*0.54*	
		For Work In Restricted Working Space, Add	*3.23*	
22 13 16 00-0271	LF	2" Diameter, No Hub Cast Iron Pipe	22.71	7.66
		For Below Ground Installation, Add	*0.58*	
		For Work In Restricted Working Space, Add	*3.47*	
22 13 16 00-0272	LF	3" Diameter, No Hub Cast Iron Pipe	32.17	11.12
		For Below Ground Installation, Add	*0.84*	
		For Work In Restricted Working Space, Add	*5.02*	
22 13 16 00-0273	LF	4" Diameter, No Hub Cast Iron Pipe	41.75	14.47
		For Below Ground Installation, Add	*1.09*	
		For Work In Restricted Working Space, Add	*6.53*	
22 13 16 00-0274	LF	5" Diameter, No Hub Cast Iron Pipe	53.77	17.29
		For Below Ground Installation, Add	*1.30*	
		For Work In Restricted Working Space, Add	*7.78*	
22 13 16 00-0275	LF	6" Diameter, No Hub Cast Iron Pipe	62.69	18.87
		For Below Ground Installation, Add	*1.41*	
		For Work In Restricted Working Space, Add	*8.47*	
22 13 16 00-0276	LF	8" Diameter, No Hub Cast Iron Pipe	95.76	27.12
		For Below Ground Installation, Add	*2.03*	
		For Work In Restricted Working Space, Add	*12.17*	
22 13 16 00-0277	LF	10" Diameter, No Hub Cast Iron Pipe	137.64	30.82
		For Below Ground Installation, Add	*2.31*	
		For Work In Restricted Working Space, Add	*13.85*	

22 13 16 00-0278 No Hub Cast Iron Fittings *(22 13 16 00-0268)*

22 13 16 00-0279 No Hub Cast Iron Long Sweeps *(22 13 16 00-0278)*

22 13 16 00-0280	EA	1-1/2" No Hub Cast Iron Long Sweep	76.06	32.54
		For Below Ground Installation, Add	*2.44*	
		For Work In Restricted Working Space, Add	*14.65*	
22 13 16 00-0281	EA	2" No Hub Cast Iron Long Sweep	78.81	33.98
		For Below Ground Installation, Add	*2.55*	
		For Work In Restricted Working Space, Add	*15.27*	
22 13 16 00-0282	EA	3" No Hub Cast Iron Long Sweep	93.33	38.88
		For Below Ground Installation, Add	*2.92*	
		For Work In Restricted Working Space, Add	*17.51*	
22 13 16 00-0283	EA	4" No Hub Cast Iron Long Sweep	129.31	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0284	EA	5" No Hub Cast Iron Long Sweep	181.46	57.05
		For Below Ground Installation, Add	*4.27*	
		For Work In Restricted Working Space, Add	*25.65*	
22 13 16 00-0285	EA	6" No Hub Cast Iron Long Sweep	215.16	68.01
		For Below Ground Installation, Add	*5.10*	
		For Work In Restricted Working Space, Add	*30.61*	
22 13 16 00-0286	EA	8" No Hub Cast Iron Long Sweep	441.17	87.94
		For Below Ground Installation, Add	*6.59*	
		For Work In Restricted Working Space, Add	*39.57*	
22 13 16 00-0287		**No Hub Cast Iron Reducing Long Sweeps** *(22 13 16 00-0278)*		
22 13 16 00-0288	EA	3" x 2" No Hub Cast Iron Reducing Long Sweep	122.14	38.88
		For Below Ground Installation, Add	*2.92*	
		For Work In Restricted Working Space, Add	*17.51*	
22 13 16 00-0289	EA	4" x 3" No Hub Cast Iron Reducing Long Sweep	184.22	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	
22 13 16 00-0290		**No Hub Cast Iron Short Sweeps** *(22 13 16 00-0278)*		
22 13 16 00-0291	EA	2" No Hub Cast Iron Short Sweep	73.02	33.98
		For Below Ground Installation, Add	*2.55*	
		For Work In Restricted Working Space, Add	*15.27*	
22 13 16 00-0292	EA	3" No Hub Cast Iron Short Sweep	88.75	38.88
		For Below Ground Installation, Add	*2.92*	
		For Work In Restricted Working Space, Add	*17.51*	
22 13 16 00-0293	EA	4" No Hub Cast Iron Short Sweep	126.91	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	
22 13 16 00-0294	EA	5" No Hub Cast Iron Short Sweep	182.36	57.05
		For Below Ground Installation, Add	*4.27*	
		For Work In Restricted Working Space, Add	*25.65*	
22 13 16 00-0295	EA	6" No Hub Cast Iron Short Sweep	201.10	68.01
		For Below Ground Installation, Add	*5.10*	
		For Work In Restricted Working Space, Add	*30.61*	
22 13 16 00-0296	EA	8" No Hub Cast Iron Short Sweep	398.67	87.94
		For Below Ground Installation, Add	*6.59*	
		For Work In Restricted Working Space, Add	*39.57*	
22 13 16 00-0297	EA	10" No Hub Cast Iron Short Sweep	653.91	123.14
		For Below Ground Installation, Add	*9.23*	
		For Work In Restricted Working Space, Add	*55.40*	
22 13 16 00-0298		**No Hub Cast Iron 1/4 Bends** *(22 13 16 00-0278)*		
22 13 16 00-0299	EA	1-1/2" No Hub Cast Iron 1/4 Bend	65.99	32.54
		For Below Ground Installation, Add	*2.44*	
		For Work In Restricted Working Space, Add	*14.65*	
22 13 16 00-0300	EA	2" No Hub Cast Iron 1/4 Bend	69.04	33.98
		For Below Ground Installation, Add	*2.55*	
		For Work In Restricted Working Space, Add	*15.27*	
22 13 16 00-0301	EA	3" No Hub Cast Iron 1/4 Bend	82.28	38.88
		For Below Ground Installation, Add	*2.92*	
		For Work In Restricted Working Space, Add	*17.51*	
22 13 16 00-0302	EA	4" No Hub Cast Iron 1/4 Bend	112.62	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	
22 13 16 00-0303	EA	5" No Hub Cast Iron 1/4 Bend	164.61	57.05
		For Below Ground Installation, Add	*4.27*	
		For Work In Restricted Working Space, Add	*25.65*	
22 13 16 00-0304	EA	6" No Hub Cast Iron 1/4 Bend	189.74	68.01
		For Below Ground Installation, Add	*5.10*	
		For Work In Restricted Working Space, Add	*30.61*	
22 13 16 00-0305	EA	8" No Hub Cast Iron 1/4 Bend	365.58	87.94
		For Below Ground Installation, Add	*6.59*	
		For Work In Restricted Working Space, Add	*39.57*	
22 13 16 00-0306		**No Hub Cast Iron 1/8 Bends** *(22 13 16 00-0278)*		
22 13 16 00-0307	EA	1-1/2" No Hub Cast Iron 1/8 Bend	62.30	32.54
		For Below Ground Installation, Add	*2.44*	
		For Work In Restricted Working Space, Add	*14.65*	
22 13 16 00-0308	EA	2" No Hub Cast Iron 1/8 Bend	64.67	33.98
		For Below Ground Installation, Add	*2.55*	
		For Work In Restricted Working Space, Add	*15.27*	
22 13 16 00-0309	EA	3" No Hub Cast Iron 1/8 Bend	77.99	38.88
		For Below Ground Installation, Add	*2.92*	
		For Work In Restricted Working Space, Add	*17.51*	
22 13 16 00-0310	EA	4" No Hub Cast Iron 1/8 Bend	102.99	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	
22 13 16 00-0311	EA	6" No Hub Cast Iron 1/8 Bend	172.83	75.98
		For Below Ground Installation, Add	*5.70*	
		For Work In Restricted Working Space, Add	*34.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0312	EA	8" No Hub Cast Iron 1/8 Bend	306.30	99.78
		For Below Ground Installation, Add	*7.48*	
		For Work In Restricted Working Space, Add	*44.87*	
22 13 16 00-0313	EA	10" No Hub Cast Iron 1/8 Bend	479.73	122.76
		For Below Ground Installation, Add	*9.20*	
		For Work In Restricted Working Space, Add	*55.22*	

22 13 16 00-0314 No Hub Cast Iron Wyes *(22 13 16 00-0278)*

22 13 16 00-0315	EA	1-1/2" No Hub Cast Iron Wye	100.62	51.20
		For Below Ground Installation, Add	*3.84*	
		For Work In Restricted Working Space, Add	*23.01*	
22 13 16 00-0316	EA	2" No Hub Cast Iron Wye	128.26	69.39
		For Below Ground Installation, Add	*5.20*	
		For Work In Restricted Working Space, Add	*31.21*	
22 13 16 00-0317	EA	3" No Hub Cast Iron Wye	147.03	75.98
		For Below Ground Installation, Add	*5.70*	
		For Work In Restricted Working Space, Add	*34.18*	
22 13 16 00-0318	EA	4" No Hub Cast Iron Wye	203.26	99.78
		For Below Ground Installation, Add	*7.48*	
		For Work In Restricted Working Space, Add	*44.87*	
22 13 16 00-0319	EA	5" No Hub Cast Iron Wye	282.68	111.05
		For Below Ground Installation, Add	*8.32*	
		For Work In Restricted Working Space, Add	*49.94*	
22 13 16 00-0320	EA	6" No Hub Cast Iron Wye	335.42	131.84
		For Below Ground Installation, Add	*9.89*	
		For Work In Restricted Working Space, Add	*59.31*	
22 13 16 00-0321	EA	8" No Hub Cast Iron Wye	587.36	176.00
		For Below Ground Installation, Add	*13.19*	
		For Work In Restricted Working Space, Add	*79.14*	
22 13 16 00-0322	EA	10" No Hub Cast Iron Wye	993.71	195.50
		For Below Ground Installation, Add	*14.66*	
		For Work In Restricted Working Space, Add	*87.93*	

22 13 16 00-0323 No Hub Cast Iron Reducing Wyes *(22 13 16 00-0278)*

22 13 16 00-0324	EA	3" x 1-1/2" No Hub Cast Iron Reducing Wye	125.39	66.28
		For Below Ground Installation, Add	*4.96*	
		For Work In Restricted Working Space, Add	*29.79*	
22 13 16 00-0325	EA	3" x 2" No Hub Cast Iron Reducing Wye	140.04	75.98
		For Below Ground Installation, Add	*5.70*	
		For Work In Restricted Working Space, Add	*34.18*	
22 13 16 00-0326	EA	4" x 2" No Hub Cast Iron Reducing Wye	159.33	83.99
		For Below Ground Installation, Add	*6.30*	
		For Work In Restricted Working Space, Add	*37.78*	
22 13 16 00-0327	EA	4" x 3" No Hub Cast Iron Reducing Wye	184.68	93.32
		For Below Ground Installation, Add	*7.00*	
		For Work In Restricted Working Space, Add	*41.98*	
22 13 16 00-0328	EA	6" x 2" No Hub Cast Iron Reducing Wye	242.49	112.17
		For Below Ground Installation, Add	*8.41*	
		For Work In Restricted Working Space, Add	*50.48*	
22 13 16 00-0329	EA	6" x 3" No Hub Cast Iron Reducing Wye	259.44	117.26
		For Below Ground Installation, Add	*8.79*	
		For Work In Restricted Working Space, Add	*52.72*	
22 13 16 00-0330	EA	6" x 4" No Hub Cast Iron Reducing Wye	297.08	137.03
		For Below Ground Installation, Add	*10.27*	
		For Work In Restricted Working Space, Add	*61.62*	
22 13 16 00-0331	EA	8" x 4" No Hub Cast Iron Reducing Wye	392.73	138.37
		For Below Ground Installation, Add	*10.37*	
		For Work In Restricted Working Space, Add	*62.24*	
22 13 16 00-0332	EA	8" x 6" No Hub Cast Iron Reducing Wye	456.77	152.11
		For Below Ground Installation, Add	*11.40*	
		For Work In Restricted Working Space, Add	*68.39*	
22 13 16 00-0333	EA	10" x 4" No Hub Cast Iron Reducing Wye	727.48	162.04
		For Below Ground Installation, Add	*12.15*	
		For Work In Restricted Working Space, Add	*72.89*	
22 13 16 00-0334	EA	10" x 6" No Hub Cast Iron Reducing Wye	767.02	173.46
		For Below Ground Installation, Add	*13.00*	
		For Work In Restricted Working Space, Add	*78.02*	
22 13 16 00-0335	EA	10" x 8" No Hub Cast Iron Reducing Wye	886.46	185.23
		For Below Ground Installation, Add	*13.88*	
		For Work In Restricted Working Space, Add	*83.30*	

22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends *(22 13 16 00-0278)*

22 13 16 00-0337	EA	1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend	113.51	59.58
		For Below Ground Installation, Add	*4.46*	
		For Work In Restricted Working Space, Add	*26.79*	
22 13 16 00-0338	EA	2" No Hub Cast Iron Combination Wye And 1/8 Bend	129.24	69.39
		For Below Ground Installation, Add	*5.20*	
		For Work In Restricted Working Space, Add	*31.21*	
22 13 16 00-0339	EA	3" No Hub Cast Iron Combination Wye And 1/8 Bend	154.40	75.98
		For Below Ground Installation, Add	*5.70*	
		For Work In Restricted Working Space, Add	*34.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0340	EA	4" No Hub Cast Iron Combination Wye And 1/8 Bend	224.10	99.78
		For Below Ground Installation, Add	*7.48*	
		For Work In Restricted Working Space, Add	*44.87*	
22 13 16 00-0341	EA	6" No Hub Cast Iron Combination Wye And 1/8 Bend	417.75	153.50
		For Below Ground Installation, Add	*11.50*	
		For Work In Restricted Working Space, Add	*69.03*	
22 13 16 00-0342	EA	8" No Hub Cast Iron Combination Wye And 1/8 Bend	766.11	196.93
		For Below Ground Installation, Add	*14.76*	
		For Work In Restricted Working Space, Add	*88.58*	
22 13 16 00-0343	EA	10" No Hub Cast Iron Combination Wye And 1/8 Bend	897.57	238.09
		For Below Ground Installation, Add	*17.85*	
		For Work In Restricted Working Space, Add	*107.08*	

22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends *(22 13 16 00-0278)*

22 13 16 00-0345	EA	2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	130.44	69.39
		For Below Ground Installation, Add	*5.20*	
		For Work In Restricted Working Space, Add	*31.21*	
22 13 16 00-0346	EA	3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	143.72	75.98
		For Below Ground Installation, Add	*5.70*	
		For Work In Restricted Working Space, Add	*34.18*	
22 13 16 00-0347	EA	4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	166.71	83.99
		For Below Ground Installation, Add	*6.30*	
		For Work In Restricted Working Space, Add	*37.78*	
22 13 16 00-0348	EA	4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	191.83	93.32
		For Below Ground Installation, Add	*7.00*	
		For Work In Restricted Working Space, Add	*41.98*	
22 13 16 00-0349	EA	6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	263.92	112.17
		For Below Ground Installation, Add	*8.41*	
		For Work In Restricted Working Space, Add	*50.48*	
22 13 16 00-0350	EA	6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	296.90	117.26
		For Below Ground Installation, Add	*8.79*	
		For Work In Restricted Working Space, Add	*52.72*	
22 13 16 00-0351	EA	6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	329.88	137.03
		For Below Ground Installation, Add	*10.27*	
		For Work In Restricted Working Space, Add	*61.62*	
22 13 16 00-0352	EA	8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	454.03	138.37
		For Below Ground Installation, Add	*10.37*	
		For Work In Restricted Working Space, Add	*62.24*	
22 13 16 00-0353	EA	8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	596.89	152.11
		For Below Ground Installation, Add	*11.40*	
		For Work In Restricted Working Space, Add	*68.39*	

22 13 16 00-0354 No Hub Cast Iron Double Wyes *(22 13 16 00-0278)*

22 13 16 00-0355	EA	2" No Hub Cast Iron Double Wye	163.11	86.26
		For Below Ground Installation, Add	*6.47*	
		For Work In Restricted Working Space, Add	*38.80*	
22 13 16 00-0356	EA	3" No Hub Cast Iron Double Wye	219.71	105.05
		For Below Ground Installation, Add	*7.87*	
		For Work In Restricted Working Space, Add	*47.23*	
22 13 16 00-0357	EA	4" No Hub Cast Iron Double Wye	300.31	114.86
		For Below Ground Installation, Add	*8.61*	
		For Work In Restricted Working Space, Add	*51.65*	
22 13 16 00-0358	EA	6" No Hub Cast Iron Double Wye	469.90	166.18
		For Below Ground Installation, Add	*12.45*	
		For Work In Restricted Working Space, Add	*74.72*	
22 13 16 00-0359	EA	8" No Hub Cast Iron Double Wye	933.76	223.89
		For Below Ground Installation, Add	*16.79*	
		For Work In Restricted Working Space, Add	*100.72*	

22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes *(22 13 16 00-0278)*

22 13 16 00-0361	EA	3" x 2" No Hub Cast Iron Double Wye	196.68	95.59
		For Below Ground Installation, Add	*7.16*	
		For Work In Restricted Working Space, Add	*42.98*	
22 13 16 00-0362	EA	4" x 2" No Hub Cast Iron Double Wye	236.78	110.08
		For Below Ground Installation, Add	*8.25*	
		For Work In Restricted Working Space, Add	*49.51*	
22 13 16 00-0363	EA	4" x 3" No Hub Cast Iron Double Wye	260.84	120.00
		For Below Ground Installation, Add	*9.00*	
		For Work In Restricted Working Space, Add	*53.97*	
22 13 16 00-0364	EA	6" x 4" No Hub Cast Iron Double Wye	398.74	146.52
		For Below Ground Installation, Add	*10.98*	
		For Work In Restricted Working Space, Add	*65.90*	

22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends *(22 13 16 00-0278)*

22 13 16 00-0366	EA	2" No Hub Cast Iron Double Combination Wye And 1/8 Bend	214.57	103.62
		For Below Ground Installation, Add	*7.77*	
		For Work In Restricted Working Space, Add	*46.61*	
22 13 16 00-0367	EA	3" No Hub Cast Iron Double Combination Wye And 1/8 Bend	263.83	114.86
		For Below Ground Installation, Add	*8.61*	
		For Work In Restricted Working Space, Add	*51.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0368	EA	4" No Hub Cast Iron Double Combination Wye And 1/8 Bend	403.00	152.07
		For Below Ground Installation, Add	*11.40*	
		For Work In Restricted Working Space, Add	*68.37*	
22 13 16 00-0369	EA	6" No Hub Cast Iron Double Combination Wye And 1/8 Bend	556.33	234.74
		For Below Ground Installation, Add	*17.60*	
		For Work In Restricted Working Space, Add	*105.57*	
22 13 16 00-0370		**No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends** *(22 13 16 00-0278)*		
22 13 16 00-0371	EA	3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend	202.35	89.13
		For Below Ground Installation, Add	*6.68*	
		For Work In Restricted Working Space, Add	*40.10*	
22 13 16 00-0372	EA	4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend	234.51	103.62
		For Below Ground Installation, Add	*7.77*	
		For Work In Restricted Working Space, Add	*46.61*	
22 13 16 00-0373	EA	4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend	284.71	113.19
		For Below Ground Installation, Add	*8.49*	
		For Work In Restricted Working Space, Add	*50.91*	
22 13 16 00-0374		**No Hub Cast Iron Sanitary Tees** *(22 13 16 00-0278)*		
22 13 16 00-0375	EA	1-1/2" No Hub Cast Iron Sanitary Tee	97.96	50.13
		For Below Ground Installation, Add	*3.76*	
		For Work In Restricted Working Space, Add	*22.58*	
22 13 16 00-0376	EA	2" No Hub Cast Iron Sanitary Tee	129.46	69.39
		For Below Ground Installation, Add	*5.20*	
		For Work In Restricted Working Space, Add	*31.21*	
22 13 16 00-0377	EA	3" No Hub Cast Iron Sanitary Tee	144.33	75.98
		For Below Ground Installation, Add	*5.70*	
		For Work In Restricted Working Space, Add	*34.18*	
22 13 16 00-0378	EA	4" No Hub Cast Iron Sanitary Tee	197.10	99.78
		For Below Ground Installation, Add	*7.48*	
		For Work In Restricted Working Space, Add	*44.87*	
22 13 16 00-0379	EA	5" No Hub Cast Iron Sanitary Tee	283.96	111.05
		For Below Ground Installation, Add	*8.32*	
		For Work In Restricted Working Space, Add	*49.94*	
22 13 16 00-0380	EA	6" No Hub Cast Iron Sanitary Tee	334.51	131.84
		For Below Ground Installation, Add	*9.89*	
		For Work In Restricted Working Space, Add	*59.31*	
22 13 16 00-0381	EA	8" No Hub Cast Iron Sanitary Tee	663.40	176.00
		For Below Ground Installation, Add	*13.19*	
		For Work In Restricted Working Space, Add	*79.14*	
22 13 16 00-0382		**No Hub Cast Iron Reducing Sanitary Tees** *(22 13 16 00-0278)*		
22 13 16 00-0383	EA	2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	110.27	56.59
		For Below Ground Installation, Add	*4.24*	
		For Work In Restricted Working Space, Add	*25.46*	
22 13 16 00-0384	EA	3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	127.50	66.28
		For Below Ground Installation, Add	*4.96*	
		For Work In Restricted Working Space, Add	*29.79*	
22 13 16 00-0385	EA	3" x 2" No Hub Cast Iron Reducing Sanitary Tee	132.25	69.39
		For Below Ground Installation, Add	*5.20*	
		For Work In Restricted Working Space, Add	*31.21*	
22 13 16 00-0386	EA	3" x 4" No Hub Cast Iron Reducing Sanitary Tee	161.35	69.39
		For Below Ground Installation, Add	*5.20*	
		For Work In Restricted Working Space, Add	*31.21*	
22 13 16 00-0387	EA	4" x 2" No Hub Cast Iron Reducing Sanitary Tee	176.94	93.92
		For Below Ground Installation, Add	*7.04*	
		For Work In Restricted Working Space, Add	*42.23*	
22 13 16 00-0388	EA	4" x 3" No Hub Cast Iron Reducing Sanitary Tee	184.01	93.92
		For Below Ground Installation, Add	*7.04*	
		For Work In Restricted Working Space, Add	*42.23*	
22 13 16 00-0389	EA	5" x 2" No Hub Cast Iron Reducing Sanitary Tee	242.17	105.51
		For Below Ground Installation, Add	*7.91*	
		For Work In Restricted Working Space, Add	*47.45*	
22 13 16 00-0390	EA	5" x 3" No Hub Cast Iron Reducing Sanitary Tee	252.03	105.51
		For Below Ground Installation, Add	*7.91*	
		For Work In Restricted Working Space, Add	*47.45*	
22 13 16 00-0391	EA	5" x 4" No Hub Cast Iron Reducing Sanitary Tee	253.23	105.51
		For Below Ground Installation, Add	*7.91*	
		For Work In Restricted Working Space, Add	*47.45*	
22 13 16 00-0392	EA	6" x 4" No Hub Cast Iron Reducing Sanitary Tee	262.60	109.92
		For Below Ground Installation, Add	*8.24*	
		For Work In Restricted Working Space, Add	*49.43*	
22 13 16 00-0393	EA	8" x 6" No Hub Cast Iron Reducing Sanitary Tee	520.24	148.42
		For Below Ground Installation, Add	*11.12*	
		For Work In Restricted Working Space, Add	*66.74*	
22 13 16 00-0394		**No Hub Cast Iron Sanitary Tapped Tees** *(22 13 16 00-0278)*		
22 13 16 00-0395	EA	2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	76.41	33.98
		For Below Ground Installation, Add	*2.55*	
		For Work In Restricted Working Space, Add	*15.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0396	EA	3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	88.97	38.88
		For Below Ground Installation, Add	*2.92*	
		For Work In Restricted Working Space, Add	*17.51*	
22 13 16 00-0397	EA	4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	108.48	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	

22 13 16 00-0398 No Hub Cast Iron Cleanout Tees *(22 13 16 00-0278)*

22 13 16 00-0399	EA	2" No Hub Cast Iron Cleanout Tee	71.97	33.98
		For Below Ground Installation, Add	*2.55*	
		For Work In Restricted Working Space, Add	*15.27*	
22 13 16 00-0400	EA	3" No Hub Cast Iron Cleanout Tee	92.21	38.88
		For Below Ground Installation, Add	*2.92*	
		For Work In Restricted Working Space, Add	*17.51*	
22 13 16 00-0401	EA	4" No Hub Cast Iron Cleanout Tee	136.68	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	
22 13 16 00-0402	EA	6" No Hub Cast Iron Cleanout Tee	229.99	75.98
		For Below Ground Installation, Add	*5.70*	
		For Work In Restricted Working Space, Add	*34.18*	

22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees *(22 13 16 00-0278)*

22 13 16 00-0404	EA	4" No Hub Cast Iron Single Two-Way Cleanout Tee	319.44	99.78
		For Below Ground Installation, Add	*7.48*	
		For Work In Restricted Working Space, Add	*44.87*	
22 13 16 00-0405	EA	4" No Hub Cast Iron Double Two-Way Cleanout Tee	385.07	151.59
		For Below Ground Installation, Add	*11.37*	
		For Work In Restricted Working Space, Add	*68.20*	

22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs *(22 13 16 00-0278)*

22 13 16 00-0407	EA	2" No Hub Cast Iron Cleanout Plug	59.86	33.98
		For Below Ground Installation, Add	*2.55*	
		For Work In Restricted Working Space, Add	*15.27*	
22 13 16 00-0408	EA	3" No Hub Cast Iron Cleanout Plug	72.43	38.88
		For Below Ground Installation, Add	*2.92*	
		For Work In Restricted Working Space, Add	*17.51*	
22 13 16 00-0409	EA	4" No Hub Cast Iron Cleanout Plug	103.89	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	
22 13 16 00-0410	EA	6" No Hub Cast Iron Cleanout Plug	163.81	75.98
		For Below Ground Installation, Add	*5.70*	
		For Work In Restricted Working Space, Add	*34.18*	
22 13 16 00-0411	EA	8" No Hub Cast Iron Cleanout Plug	218.08	99.78
		For Below Ground Installation, Add	*7.48*	
		For Work In Restricted Working Space, Add	*44.87*	

22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses *(22 13 16 00-0278)*

22 13 16 00-0413	EA	1-1/2" No Hub Cast Iron Sanitary Cross	131.24	67.00
		For Below Ground Installation, Add	*5.03*	
		For Work In Restricted Working Space, Add	*30.17*	
22 13 16 00-0414	EA	2" No Hub Cast Iron Sanitary Cross	142.40	69.39
		For Below Ground Installation, Add	*5.20*	
		For Work In Restricted Working Space, Add	*31.21*	
22 13 16 00-0415	EA	3" No Hub Cast Iron Sanitary Cross	174.34	75.98
		For Below Ground Installation, Add	*5.70*	
		For Work In Restricted Working Space, Add	*34.18*	
22 13 16 00-0416	EA	4" No Hub Cast Iron Sanitary Cross	263.06	99.78
		For Below Ground Installation, Add	*7.48*	
		For Work In Restricted Working Space, Add	*44.87*	

22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses *(22 13 16 00-0278)*

22 13 16 00-0418	EA	3" x 2" No Hub Cast Iron Sanitary Cross	187.96	89.13
		For Below Ground Installation, Add	*6.68*	
		For Work In Restricted Working Space, Add	*40.10*	
22 13 16 00-0419	EA	4" x 2" No Hub Cast Iron Sanitary Cross	214.31	91.77
		For Below Ground Installation, Add	*6.88*	
		For Work In Restricted Working Space, Add	*41.28*	
22 13 16 00-0420	EA	4" x 3" No Hub Cast Iron Sanitary Cross	236.19	95.84
		For Below Ground Installation, Add	*7.18*	
		For Work In Restricted Working Space, Add	*43.08*	

22 13 16 00-0421 No Hub Cast Iron Reducers *(22 13 16 00-0278)*

22 13 16 00-0422	EA	3" x 2" No Hub Cast Iron Reducer	116.90	69.39
		For Below Ground Installation, Add	*5.20*	
		For Work In Restricted Working Space, Add	*31.21*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0423	EA	4" x 2" No Hub Cast Iron Reducer	160.39	93.92
		For Below Ground Installation, Add	*7.04*	
		For Work In Restricted Working Space, Add	*42.23*	
22 13 16 00-0424	EA	4" x 3" No Hub Cast Iron Reducer	160.99	93.92
		For Below Ground Installation, Add	*7.04*	
		For Work In Restricted Working Space, Add	*42.23*	
22 13 16 00-0425	EA	5" x 2" No Hub Cast Iron Reducer	186.97	105.51
		For Below Ground Installation, Add	*7.91*	
		For Work In Restricted Working Space, Add	*47.45*	
22 13 16 00-0426	EA	5" x 3" No Hub Cast Iron Reducer	190.95	105.51
		For Below Ground Installation, Add	*7.91*	
		For Work In Restricted Working Space, Add	*47.45*	
22 13 16 00-0427	EA	5" x 4" No Hub Cast Iron Reducer	192.53	105.51
		For Below Ground Installation, Add	*7.91*	
		For Work In Restricted Working Space, Add	*47.45*	
22 13 16 00-0428	EA	6" x 3" No Hub Cast Iron Reducer	225.45	117.26
		For Below Ground Installation, Add	*8.79*	
		For Work In Restricted Working Space, Add	*52.72*	
22 13 16 00-0429	EA	6" x 4" No Hub Cast Iron Reducer	226.05	117.26
		For Below Ground Installation, Add	*8.79*	
		For Work In Restricted Working Space, Add	*52.72*	
22 13 16 00-0430	EA	6" x 5" No Hub Cast Iron Reducer	227.85	117.26
		For Below Ground Installation, Add	*8.79*	
		For Work In Restricted Working Space, Add	*52.72*	
22 13 16 00-0431	EA	8" x 2" No Hub Cast Iron Reducer	312.47	164.22
		For Below Ground Installation, Add	*12.31*	
		For Work In Restricted Working Space, Add	*73.86*	
22 13 16 00-0432	EA	8" x 3" No Hub Cast Iron Reducer	317.06	164.22
		For Below Ground Installation, Add	*12.31*	
		For Work In Restricted Working Space, Add	*73.86*	
22 13 16 00-0433	EA	8" x 4" No Hub Cast Iron Reducer	324.43	164.22
		For Below Ground Installation, Add	*12.31*	
		For Work In Restricted Working Space, Add	*73.86*	
22 13 16 00-0434	EA	8" x 5" No Hub Cast Iron Reducer	332.10	164.22
		For Below Ground Installation, Add	*12.31*	
		For Work In Restricted Working Space, Add	*73.86*	
22 13 16 00-0435	EA	8" x 6" No Hub Cast Iron Reducer	333.01	164.22
		For Below Ground Installation, Add	*12.31*	
		For Work In Restricted Working Space, Add	*73.86*	
22 13 16 00-0436	EA	10" x 4" No Hub Cast Iron Reducer	401.97	173.23
		For Below Ground Installation, Add	*12.98*	
		For Work In Restricted Working Space, Add	*77.90*	
22 13 16 00-0437	EA	10" x 6" No Hub Cast Iron Reducer	430.66	180.84
		For Below Ground Installation, Add	*13.56*	
		For Work In Restricted Working Space, Add	*81.36*	
22 13 16 00-0438	EA	10" x 8" No Hub Cast Iron Reducer	485.34	196.31
		For Below Ground Installation, Add	*14.72*	
		For Work In Restricted Working Space, Add	*88.29*	

22 13 16 00-0439 No Hub Cast Iron Blind Plugs *(22 13 16 00-0278)*

22 13 16 00-0440	EA	1-1/2" No Hub Cast Iron Blind Plug	31.79	16.29
		For Below Ground Installation, Add	*1.22*	
		For Work In Restricted Working Space, Add	*7.33*	
22 13 16 00-0441	EA	2" No Hub Cast Iron Blind Plug	32.53	16.99
		For Below Ground Installation, Add	*1.27*	
		For Work In Restricted Working Space, Add	*7.64*	
22 13 16 00-0442	EA	3" No Hub Cast Iron Blind Plug	41.74	19.51
		For Below Ground Installation, Add	*1.46*	
		For Work In Restricted Working Space, Add	*8.75*	
22 13 16 00-0443	EA	4" No Hub Cast Iron Blind Plug	55.41	25.73
		For Below Ground Installation, Add	*1.93*	
		For Work In Restricted Working Space, Add	*11.57*	
22 13 16 00-0444	EA	5" No Hub Cast Iron Blind Plug	74.78	29.04
		For Below Ground Installation, Add	*2.17*	
		For Work In Restricted Working Space, Add	*13.05*	
22 13 16 00-0445	EA	6" No Hub Cast Iron Blind Plug	82.65	34.00
		For Below Ground Installation, Add	*2.55*	
		For Work In Restricted Working Space, Add	*15.32*	
22 13 16 00-0446	EA	8" No Hub Cast Iron Blind Plug	165.56	43.97
		For Below Ground Installation, Add	*3.30*	
		For Work In Restricted Working Space, Add	*19.77*	
22 13 16 00-0447	EA	10" No Hub Cast Iron Blind Plug	214.25	47.32
		For Below Ground Installation, Add	*3.55*	
		For Work In Restricted Working Space, Add	*21.29*	

22 13 16 00-0448 No Hub Cast Iron P-Traps *(22 13 16 00-0278)*

22 13 16 00-0449	EA	2" No Hub Cast Iron P-Trap	77.01	33.98
		For Below Ground Installation, Add	*2.55*	
		For Work In Restricted Working Space, Add	*15.27*	
22 13 16 00-0450	EA	3" No Hub Cast Iron P-Trap	117.85	38.88
		For Below Ground Installation, Add	*2.92*	
		For Work In Restricted Working Space, Add	*17.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0451	EA	4" No Hub Cast Iron P-Trap	180.53	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	
22 13 16 00-0452	EA	5" No Hub Cast Iron P-Trap	322.63	57.50
		For Below Ground Installation, Add	*4.31*	
		For Work In Restricted Working Space, Add	*25.85*	
22 13 16 00-0453	EA	6" No Hub Cast Iron P-Trap	339.50	68.57
		For Below Ground Installation, Add	*5.14*	
		For Work In Restricted Working Space, Add	*30.84*	

22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps *(22 13 16 00-0278)*

22 13 16 00-0455	EA	2" No Hub Cast Iron Deep Seal P-Trap	126.95	43.19
		For Below Ground Installation, Add	*3.23*	
		For Work In Restricted Working Space, Add	*19.40*	
22 13 16 00-0456	EA	3" No Hub Cast Iron Deep Seal P-Trap	185.43	57.43
		For Below Ground Installation, Add	*4.30*	
		For Work In Restricted Working Space, Add	*25.82*	
22 13 16 00-0457	EA	4" No Hub Cast Iron Deep Seal P-Trap	273.11	75.85
		For Below Ground Installation, Add	*5.68*	
		For Work In Restricted Working Space, Add	*34.10*	

22 13 16 00-0458 No Hub Cast Iron Closet Flanges *(22 13 16 00-0278)*

22 13 16 00-0459	EA	4" No Hub Cast Iron Closet Flange	118.56	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	
22 13 16 00-0460	EA	4" x 2-1/2" No Hub Cast Iron Offset Closet Flange	127.14	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	

22 13 16 00-0461 No Hub Cast Iron Closet Bends *(22 13 16 00-0278)*

22 13 16 00-0462	EA	4" x 16" No Hub Cast Iron Closet Bend	239.12	51.45
		For Below Ground Installation, Add	*3.86*	
		For Work In Restricted Working Space, Add	*23.16*	

22 13 16 00-0463 No Hub Cast Iron Threaded Adapter *(22 13 16 00-0278)*

22 13 16 00-0464	EA	1-1/4" No Hub Cast Iron Threaded Adapter	87.08	43.19
		For Below Ground Installation, Add	*3.23*	
		For Work In Restricted Working Space, Add	*19.40*	
22 13 16 00-0465	EA	1-1/2" No Hub Cast Iron Threaded Adapter	94.00	43.19
		For Below Ground Installation, Add	*3.23*	
		For Work In Restricted Working Space, Add	*19.40*	

22 13 16 00-0466 No Hub Couplings *(22 13 16 00-0278)*

Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH). Labor costs are included in the installation costs for fittings.

22 13 16 00-0467	EA	1-1/2" No Hub Coupling	7.47	
		For Medium Duty (Fernco MD-2000), Add	*0.97*	
		For Heavy-Duty (Fernco HD-4000), Add	*2.02*	
22 13 16 00-0468	EA	2" No Hub Coupling	7.47	
		For Medium Duty (Fernco MD-2000), Add	*0.97*	
		For Heavy-Duty (Fernco HD-4000), Add	*2.02*	
22 13 16 00-0469	EA	3" No Hub Coupling	8.87	
		For Medium Duty (Fernco MD-2000), Add	*1.15*	
		For Heavy-Duty (Fernco HD-4000), Add	*2.39*	
22 13 16 00-0470	EA	4" No Hub Coupling	10.53	
		For Medium Duty (Fernco MD-2000), Add	*1.37*	
		For Heavy-Duty (Fernco HD-4000), Add	*2.84*	
22 13 16 00-0471	EA	5" No Hub Coupling	24.36	
		For Medium Duty (Fernco MD-2000), Add	*3.17*	
		For Heavy-Duty (Fernco HD-4000), Add	*6.58*	
22 13 16 00-0472	EA	6" No Hub Coupling	26.76	
		For Medium Duty (Fernco MD-2000), Add	*3.48*	
		For Heavy-Duty (Fernco HD-4000), Add	*7.23*	
22 13 16 00-0473	EA	8" No Hub Coupling	50.42	
		For Medium Duty (Fernco MD-2000), Add	*6.55*	
		For Heavy-Duty (Fernco HD-4000), Add	*13.61*	
22 13 16 00-0474	EA	10" No Hub Coupling	69.46	
		For Medium Duty (Fernco MD-2000), Add	*9.03*	
		For Heavy-Duty (Fernco HD-4000), Add	*18.75*	
22 13 16 00-0475	EA	2" x 1-1/2" No Hub Reducing Coupling	8.87	
22 13 16 00-0476	EA	3" x 2" No Hub Reducing Coupling	13.76	
22 13 16 00-0477	EA	4" x 2" No Hub Reducing Coupling	19.20	
22 13 16 00-0478	EA	4" x 3" No Hub Reducing Coupling	16.36	

22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts *(22 13 16 00-0278)*

Note: For underground connections. Labor costs are included in the installation costs for fittings. See CSI section 22 13 16 00-0870 for additional FERNCO couplings.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0480	EA	1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	49.55	
22 13 16 00-0481	EA	2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	51.14	
22 13 16 00-0482	EA	3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	53.70	
22 13 16 00-0483	EA	4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	62.65	
22 13 16 00-0484	EA	5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	118.27	
22 13 16 00-0485	EA	6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	162.38	
22 13 16 00-0486	EA	8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	284.49	
22 13 16 00-0487	EA	10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	434.73	

22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place *(22 13 16 00-0268)*

Note: For use when connecting pipe to an existing in-place system.

22 13 16 00-0489	EA	Cut And Prepare, Existing In-Place 1-1/2" Diameter Cast Iron Pipe, No Hub	11.69	
		For Work In Restricted Working Space, Add	*3.51*	
22 13 16 00-0490	EA	Cut And Prepare, Existing In-Place 2" Diameter Cast Iron Pipe, No Hub	14.30	
		For Work In Restricted Working Space, Add	*4.29*	
22 13 16 00-0491	EA	Cut And Prepare, Existing In-Place 3" Diameter Cast Iron Pipe, No Hub	15.60	
		For Work In Restricted Working Space, Add	*4.68*	
22 13 16 00-0492	EA	Cut And Prepare, Existing In-Place 4" Diameter Cast Iron Pipe, No Hub	19.49	
		For Work In Restricted Working Space, Add	*5.85*	
22 13 16 00-0493	EA	Cut And Prepare, Existing In-Place 6" Diameter Cast Iron Pipe, No Hub	23.38	
		For Work In Restricted Working Space, Add	*7.01*	
22 13 16 00-0494	EA	Cut And Prepare, Existing In-Place 8" Diameter Cast Iron Pipe, No Hub	31.19	
		For Work In Restricted Working Space, Add	*9.36*	
22 13 16 00-0495	EA	Cut And Prepare, Existing In-Place 10" Diameter Cast Iron Pipe, No Hub	36.38	
		For Work In Restricted Working Space, Add	*10.91*	

22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe *(22 13 16)*

See CSI section 22 11 16 00-0458 for copper and brass fittings.

22 13 16 00-0497	LF	1-1/4" Diameter, Hard Drawn DWV Copper Tube/Pipe	18.80	5.62
22 13 16 00-0498	LF	1-1/2" Diameter, Hard Drawn DWV Copper Tube/Pipe	22.43	6.28
22 13 16 00-0499	LF	2" Diameter, Hard Drawn DWV Copper Tube/Pipe	28.86	7.75
22 13 16 00-0500	LF	3" Diameter, Hard Drawn DWV Copper Tube/Pipe	62.26	10.73
22 13 16 00-0501	LF	4" Diameter, Hard Drawn DWV Copper Tube/Pipe	86.85	12.11
22 13 16 00-0502	LF	5" Diameter, Hard Drawn DWV Copper Tube/Pipe	170.36	13.90
22 13 16 00-0503	LF	6" Diameter, Hard Drawn DWV Copper Tube/Pipe	243.04	21.55

22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings *(22 13 16)*

Note: Aboveground installation. See CSI section 33 31 11 00-0019 for underground installation.

22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies *(22 13 16 00-0504)*

22 13 16 00-0506 Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies

(22 13 16 00-0505)

Note: Includes all fittings. Fittings are assumed every 20'. Excludes excavation, backfill and compaction. Not for use where detail is available.Not for use where detail is available.

22 13 16 00-0507	LF	1-1/2" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	14.09	
		For Work In Restricted Working Space, Add	*2.80*	
22 13 16 00-0508	LF	2" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	16.82	
		For Work In Restricted Working Space, Add	*3.41*	
22 13 16 00-0509	LF	3" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	27.82	
		For Work In Restricted Working Space, Add	*4.82*	
22 13 16 00-0510	LF	4" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	36.24	
		For Work In Restricted Working Space, Add	*5.31*	
22 13 16 00-0511	LF	6" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	67.19	
		For Work In Restricted Working Space, Add	*6.84*	
22 13 16 00-0512	LF	8" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	96.15	
		For Work In Restricted Working Space, Add	*9.14*	
22 13 16 00-0513	LF	10" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	139.51	
		For Work In Restricted Working Space, Add	*12.19*	

22 13 16 00-0514 Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies

(22 13 16 00-0505)

Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0515	LF	1-1/2" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	27.63	5.02
		For Work In Restricted Working Space, Add	*5.76*	
22 13 16 00-0516	LF	2" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	31.03	5.98
		For Work In Restricted Working Space, Add	*6.40*	
22 13 16 00-0517	LF	3" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	43.88	8.62
		For Work In Restricted Working Space, Add	*7.96*	
22 13 16 00-0518	LF	4" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	56.46	9.33
		For Work In Restricted Working Space, Add	*8.69*	
22 13 16 00-0519	LF	6" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	90.69	11.97
		For Work In Restricted Working Space, Add	*11.13*	
22 13 16 00-0520	LF	8" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	120.19	15.91
		For Work In Restricted Working Space, Add	*12.76*	
22 13 16 00-0521	LF	10" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	169.41	21.30
		For Work In Restricted Working Space, Add	*16.63*	
22 13 16 00-0522		Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe *(22 13 16 00-0504)* Note: Excludes fittings or hangers.		
22 13 16 00-0523		Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) *(22 13 16 00-0522)* Note: Excludes fittings or hangers.		
22 13 16 00-0524	LF	1-1/2" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	10.51	5.02
		For Work In Restricted Working Space, Add	*2.24*	
22 13 16 00-0525	LF	2" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	12.93	5.98
		For Work In Restricted Working Space, Add	*2.69*	
22 13 16 00-0526	LF	3" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	20.81	8.62
		For Work In Restricted Working Space, Add	*3.86*	
22 13 16 00-0527	LF	4" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	25.18	9.33
		For Work In Restricted Working Space, Add	*4.19*	
22 13 16 00-0528	LF	6" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	36.95	11.29
		For Work In Restricted Working Space, Add	*5.08*	
22 13 16 00-0529	LF	8" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	52.97	15.02
		For Work In Restricted Working Space, Add	*6.78*	
22 13 16 00-0530	LF	10" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	76.65	20.11
		For Work In Restricted Working Space, Add	*9.04*	
22 13 16 00-0531		Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) *(22 13 16 00-0522)* Note: Excludes fittings or hangers.		
22 13 16 00-0532	LF	1-1/2" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe	9.61	5.02
		For Work In Restricted Working Space, Add	*2.24*	
22 13 16 00-0533	LF	2" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe	11.86	5.98
		For Work In Restricted Working Space, Add	*2.69*	
22 13 16 00-0534	LF	3" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe	18.78	8.62
		For Work In Restricted Working Space, Add	*3.86*	
22 13 16 00-0535	LF	4" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe	22.49	9.33
		For Work In Restricted Working Space, Add	*4.19*	
22 13 16 00-0536	LF	6" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe	31.94	11.29
		For Work In Restricted Working Space, Add	*5.08*	
22 13 16 00-0537	LF	8" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe	45.94	15.02
		For Work In Restricted Working Space, Add	*6.78*	
22 13 16 00-0538	LF	10" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe	69.00	20.11
		For Work In Restricted Working Space, Add	*9.04*	
22 13 16 00-0539		Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) *(22 13 16 00-0504)*		
22 13 16 00-0540		Polyvinyl Chloride (PVC) DWV 1/4 Bends *(22 13 16 00-0539)*		
22 13 16 00-0541	EA	1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends	39.45	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0542	EA	2" Polyvinyl Chloride (PVC) DWV 1/4 Bends	50.38	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0543	EA	3" Polyvinyl Chloride (PVC) DWV 1/4 Bends	89.01	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0544	EA	4" Polyvinyl Chloride (PVC) DWV 1/4 Bends	139.52	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0545	EA	6" Polyvinyl Chloride (PVC) DWV 1/4 Bends	562.75	51.81
		For Work In Restricted Working Space, Add	*23.33*	
22 13 16 00-0546	EA	8" Polyvinyl Chloride (PVC) DWV 1/4 Bends	935.42	69.76
		For Work In Restricted Working Space, Add	*31.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0547	EA	10" Polyvinyl Chloride (PVC) DWV 1/4 Bends	1,234.83	92.97
		For Work In Restricted Working Space, Add	*41.87*	

22 13 16 00-0548 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends *(22 13 16 00-0539)*

22 13 16 00-0549	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends	66.19	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0550	EA	2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends	65.77	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0551	EA	3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends	128.59	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0552	EA	4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends	212.08	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0553	EA	6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends	422.60	51.81
		For Work In Restricted Working Space, Add	*23.33*	
22 13 16 00-0554	EA	8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends	751.24	69.76
		For Work In Restricted Working Space, Add	*31.41*	
22 13 16 00-0555	EA	10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends	1,231.53	92.97
		For Work In Restricted Working Space, Add	*41.87*	

22 13 16 00-0556 Polyvinyl Chloride (PVC) DWV 1/8 Bends *(22 13 16 00-0539)*

22 13 16 00-0557	EA	1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends	41.65	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0558	EA	2" Polyvinyl Chloride (PVC) DWV 1/8 Bends	50.20	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0559	EA	3" Polyvinyl Chloride (PVC) DWV 1/8 Bends	85.71	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0560	EA	4" Polyvinyl Chloride (PVC) DWV 1/8 Bends	123.40	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0561	EA	6" Polyvinyl Chloride (PVC) DWV 1/8 Bends	521.71	51.81
		For Work In Restricted Working Space, Add	*23.33*	
22 13 16 00-0562	EA	8" Polyvinyl Chloride (PVC) DWV 1/8 Bends	840.03	69.76
		For Work In Restricted Working Space, Add	*31.41*	
22 13 16 00-0563	EA	10" Polyvinyl Chloride (PVC) DWV 1/8 Bends	954.23	92.97
		For Work In Restricted Working Space, Add	*41.87*	

22 13 16 00-0564 Polyvinyl Chloride (PVC) DWV Sanitary Tees *(22 13 16 00-0539)*

22 13 16 00-0565	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees	61.90	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0566	EA	2" Polyvinyl Chloride (PVC) DWV Sanitary Tees	81.80	38.29
		For Work In Restricted Working Space, Add	*17.23*	
22 13 16 00-0567	EA	3" Polyvinyl Chloride (PVC) DWV Sanitary Tees	142.03	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0568	EA	4" Polyvinyl Chloride (PVC) DWV Sanitary Tees	213.41	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0569	EA	6" Polyvinyl Chloride (PVC) DWV Sanitary Tees	836.00	77.65
		For Work In Restricted Working Space, Add	*35.00*	
22 13 16 00-0570	EA	8" Polyvinyl Chloride (PVC) DWV Sanitary Tees	1,086.97	104.57
		For Work In Restricted Working Space, Add	*47.11*	

22 13 16 00-0571 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees *(22 13 16 00-0539)*

22 13 16 00-0572	EA	2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	79.83	32.66
		For Work In Restricted Working Space, Add	*14.72*	
22 13 16 00-0573	EA	2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	95.76	35.41
		For Work In Restricted Working Space, Add	*15.98*	
22 13 16 00-0574	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	77.62	35.41
		For Work In Restricted Working Space, Add	*15.98*	
22 13 16 00-0575	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	116.05	44.27
		For Work In Restricted Working Space, Add	*19.92*	
22 13 16 00-0576	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	117.86	47.02
		For Work In Restricted Working Space, Add	*21.18*	
22 13 16 00-0577	EA	4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	141.47	49.77
		For Work In Restricted Working Space, Add	*22.43*	
22 13 16 00-0578	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	246.61	52.64
		For Work In Restricted Working Space, Add	*23.69*	
22 13 16 00-0579	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	313.47	56.95
		For Work In Restricted Working Space, Add	*25.67*	
22 13 16 00-0580	EA	6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	803.36	71.67
		For Work In Restricted Working Space, Add	*32.30*	
22 13 16 00-0581	EA	8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	2,556.18	89.61
		For Work In Restricted Working Space, Add	*40.38*	
22 13 16 00-0582	EA	8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	2,643.24	95.59
		For Work In Restricted Working Space, Add	*43.07*	

22 13 16 00-0583 Polyvinyl Chloride (PVC) DWV Double Sanitary Tees *(22 13 16 00-0539)*

22 13 16 00-0584	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees	111.12	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0585	EA	2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees	151.69	50.97
		For Work In Restricted Working Space, Add	*22.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0586	EA	3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees	313.59	68.56
		For Work In Restricted Working Space, Add	*30.87*	
22 13 16 00-0587	EA	4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees	458.42	79.68
		For Work In Restricted Working Space, Add	*35.90*	

22 13 16 00-0588 Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees *(22 13 16 00-0539)*

22 13 16 00-0589	EA	2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	136.10	45.47
		For Work In Restricted Working Space, Add	*20.46*	
22 13 16 00-0590	EA	3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	240.85	54.20
		For Work In Restricted Working Space, Add	*24.41*	
22 13 16 00-0591	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	278.72	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0592	EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	514.27	65.33
		For Work In Restricted Working Space, Add	*29.43*	
22 13 16 00-0593	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	538.85	74.06
		For Work In Restricted Working Space, Add	*33.38*	

22 13 16 00-0594 Polyvinyl Chloride (PVC) DWV Reducers *(22 13 16 00-0539)*

22 13 16 00-0595	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers	53.16	22.73
		For Work In Restricted Working Space, Add	*10.23*	
22 13 16 00-0596	EA	3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers	101.51	27.04
		For Work In Restricted Working Space, Add	*12.20*	
22 13 16 00-0597	EA	3" x 2" Polyvinyl Chloride (PVC) DWV Reducers	95.79	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0598	EA	4" x 2" Polyvinyl Chloride (PVC) DWV Reducers	149.82	32.66
		For Work In Restricted Working Space, Add	*14.72*	
22 13 16 00-0599	EA	4" x 3" Polyvinyl Chloride (PVC) DWV Reducers	160.98	37.09
		For Work In Restricted Working Space, Add	*16.69*	
22 13 16 00-0600	EA	6" x 3" Polyvinyl Chloride (PVC) DWV Reducers	596.86	43.07
		For Work In Restricted Working Space, Add	*19.38*	
22 13 16 00-0601	EA	6" x 4" Polyvinyl Chloride (PVC) DWV Reducers	496.25	45.83
		For Work In Restricted Working Space, Add	*20.64*	
22 13 16 00-0602	EA	8" x 4" Polyvinyl Chloride (PVC) DWV Reducers	1,255.15	54.80
		For Work In Restricted Working Space, Add	*24.68*	
22 13 16 00-0603	EA	8" x 6" Polyvinyl Chloride (PVC) DWV Reducers	1,056.25	60.78
		For Work In Restricted Working Space, Add	*27.37*	
22 13 16 00-0604	EA	10" x 6" Polyvinyl Chloride (PVC) DWV Reducers	1,422.16	72.38
		For Work In Restricted Working Space, Add	*32.60*	
22 13 16 00-0605	EA	10" x 8" Polyvinyl Chloride (PVC) DWV Reducers	1,107.51	81.36
		For Work In Restricted Working Space, Add	*36.64*	

22 13 16 00-0606 Polyvinyl Chloride (PVC) DWV P-Traps *(22 13 16 00-0539)*

22 13 16 00-0607	EA	1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps	78.21	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0608	EA	2" Polyvinyl Chloride (PVC) DWV P-Traps	102.87	38.29
		For Work In Restricted Working Space, Add	*17.23*	
22 13 16 00-0609	EA	3" Polyvinyl Chloride (PVC) DWV P-Traps	303.45	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0610	EA	4" Polyvinyl Chloride (PVC) DWV P-Traps	628.58	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0611	EA	6" Polyvinyl Chloride (PVC) DWV P-Traps	1,069.38	77.65
		For Work In Restricted Working Space, Add	*35.00*	

22 13 16 00-0612 Polyvinyl Chloride (PVC) DWV Closet Flanges *(22 13 16 00-0539)*

22 13 16 00-0613	EA	4" Polyvinyl Chloride (PVC) DWV Closet Flanges	123.76	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0614	EA	4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges	100.33	37.09
		For Work In Restricted Working Space, Add	*16.69*	

22 13 16 00-0615 Polyvinyl Chloride (PVC) DWV Wyes *(22 13 16 00-0539)*

22 13 16 00-0616	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Wyes	78.94	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0617	EA	2" Polyvinyl Chloride (PVC) DWV Wyes	91.69	38.29
		For Work In Restricted Working Space, Add	*17.23*	
22 13 16 00-0618	EA	3" Polyvinyl Chloride (PVC) DWV Wyes	154.67	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0619	EA	4" Polyvinyl Chloride (PVC) DWV Wyes	234.11	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0620	EA	6" Polyvinyl Chloride (PVC) DWV Wyes	758.31	77.65
		For Work In Restricted Working Space, Add	*35.00*	
22 13 16 00-0621	EA	8" Polyvinyl Chloride (PVC) DWV Wyes	939.40	104.57
		For Work In Restricted Working Space, Add	*47.11*	
22 13 16 00-0622	EA	10" Polyvinyl Chloride (PVC) DWV Wyes	1,236.00	139.39
		For Work In Restricted Working Space, Add	*62.81*	

22 13 16 00-0623 Polyvinyl Chloride (PVC) DWV Reducing Wyes *(22 13 16 00-0539)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0624	EA	2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	109.88	32.66
		For Work In Restricted Working Space, Add	*14.72*	
22 13 16 00-0625	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	113.53	35.41
		For Work In Restricted Working Space, Add	*15.98*	
22 13 16 00-0626	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	161.10	44.27
		For Work In Restricted Working Space, Add	*19.92*	
22 13 16 00-0627	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	130.50	47.02
		For Work In Restricted Working Space, Add	*21.18*	
22 13 16 00-0628	EA	4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	225.13	49.77
		For Work In Restricted Working Space, Add	*22.43*	
22 13 16 00-0629	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	194.95	52.64
		For Work In Restricted Working Space, Add	*23.69*	
22 13 16 00-0630	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes	220.95	56.95
		For Work In Restricted Working Space, Add	*25.67*	
22 13 16 00-0631	EA	6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes	685.58	68.92
		For Work In Restricted Working Space, Add	*31.05*	
22 13 16 00-0632	EA	6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes	852.16	71.67
		For Work In Restricted Working Space, Add	*32.30*	
22 13 16 00-0633	EA	8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes	805.15	89.61
		For Work In Restricted Working Space, Add	*40.38*	
22 13 16 00-0634	EA	8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes	1,020.96	95.59
		For Work In Restricted Working Space, Add	*43.07*	
22 13 16 00-0635	EA	10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes	924.98	112.83
		For Work In Restricted Working Space, Add	*50.85*	
22 13 16 00-0636	EA	10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes	1,158.64	118.81
		For Work In Restricted Working Space, Add	*53.54*	
22 13 16 00-0637	EA	10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes	1,351.52	127.78
		For Work In Restricted Working Space, Add	*57.58*	

22 13 16 00-0638 Polyvinyl Chloride (PVC) DWV Double Wyes *(22 13 16 00-0539)*

22 13 16 00-0639	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes	132.37	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0640	EA	2" Polyvinyl Chloride (PVC) DWV Double Wyes	169.83	50.97
		For Work In Restricted Working Space, Add	*22.97*	
22 13 16 00-0641	EA	3" Polyvinyl Chloride (PVC) DWV Double Wyes	343.82	68.56
		For Work In Restricted Working Space, Add	*30.87*	
22 13 16 00-0642	EA	4" Polyvinyl Chloride (PVC) DWV Double Wyes	608.11	79.68
		For Work In Restricted Working Space, Add	*35.90*	
22 13 16 00-0643	EA	6" Polyvinyl Chloride (PVC) DWV Double Wyes	1,261.76	103.62
		For Work In Restricted Working Space, Add	*46.66*	
22 13 16 00-0644	EA	8" Polyvinyl Chloride (PVC) DWV Double Wyes	1,457.86	139.51
		For Work In Restricted Working Space, Add	*62.81*	
22 13 16 00-0645	EA	10" Polyvinyl Chloride (PVC) DWV Double Wyes	2,268.59	185.93
		For Work In Restricted Working Space, Add	*83.75*	

22 13 16 00-0646 Polyvinyl Chloride (PVC) DWV Reducing Double Wyes *(22 13 16 00-0539)*

22 13 16 00-0647	EA	2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes	153.39	45.47
		For Work In Restricted Working Space, Add	*20.46*	
22 13 16 00-0648	EA	3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes	292.76	54.20
		For Work In Restricted Working Space, Add	*24.41*	
22 13 16 00-0649	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes	269.11	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0650	EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes	390.92	65.33
		For Work In Restricted Working Space, Add	*29.43*	
22 13 16 00-0651	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes	498.04	74.06
		For Work In Restricted Working Space, Add	*33.38*	
22 13 16 00-0652	EA	6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes	772.84	91.65
		For Work In Restricted Working Space, Add	*41.28*	
22 13 16 00-0653	EA	8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes	904.21	109.59
		For Work In Restricted Working Space, Add	*49.35*	
22 13 16 00-0654	EA	8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes	1,154.96	121.56
		For Work In Restricted Working Space, Add	*54.74*	
22 13 16 00-0655	EA	10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes	1,219.24	132.81
		For Work In Restricted Working Space, Add	*59.82*	
22 13 16 00-0656	EA	10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes	1,589.39	144.77
		For Work In Restricted Working Space, Add	*65.21*	
22 13 16 00-0657	EA	10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes	1,924.89	162.72
		For Work In Restricted Working Space, Add	*73.28*	

22 13 16 00-0658 Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends *(22 13 16 00-0539)*

22 13 16 00-0659	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends	100.19	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0660	EA	2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends	124.85	38.29
		For Work In Restricted Working Space, Add	*17.23*	
22 13 16 00-0661	EA	3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends	254.34	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0662	EA	4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends	457.64	59.82
		For Work In Restricted Working Space, Add	*26.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0663		**Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends** *(22 13 16 00-0539)*		
22 13 16 00-0664	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends	192.86	35.41
		For Work In Restricted Working Space, Add	*15.98*	
22 13 16 00-0665	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends	308.95	44.27
		For Work In Restricted Working Space, Add	*19.92*	
22 13 16 00-0666	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends	222.19	47.02
		For Work In Restricted Working Space, Add	*21.18*	
22 13 16 00-0667	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends	416.22	52.64
		For Work In Restricted Working Space, Add	*23.69*	
22 13 16 00-0668	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends	450.83	56.95
		For Work In Restricted Working Space, Add	*25.67*	
22 13 16 00-0669		**Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends** *(22 13 16 00-0539)*		
22 13 16 00-0670	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	148.86	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0671	EA	2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	171.66	50.97
		For Work In Restricted Working Space, Add	*22.97*	
22 13 16 00-0672	EA	3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	268.15	68.56
		For Work In Restricted Working Space, Add	*30.87*	
22 13 16 00-0673	EA	4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	990.30	79.68
		For Work In Restricted Working Space, Add	*35.90*	
22 13 16 00-0674	EA	6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	3,316.44	103.62
		For Work In Restricted Working Space, Add	*46.66*	
22 13 16 00-0675		**Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends** *(22 13 16 00-0539)*		
22 13 16 00-0676	EA	2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	359.54	45.47
		For Work In Restricted Working Space, Add	*20.46*	
22 13 16 00-0677	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	583.36	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0678	EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	1,018.07	65.33
		For Work In Restricted Working Space, Add	*29.43*	
22 13 16 00-0679	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	916.39	74.06
		For Work In Restricted Working Space, Add	*33.38*	
22 13 16 00-0680	EA	6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends	2,202.61	91.65
		For Work In Restricted Working Space, Add	*41.28*	
22 13 16 00-0681		**Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug** *(22 13 16 00-0539)*		
22 13 16 00-0682	EA	2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug	219.62	38.29
		For Work In Restricted Working Space, Add	*17.23*	
22 13 16 00-0683	EA	3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug	387.01	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0684	EA	4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug	628.67	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0685	EA	6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug	1,682.65	77.65
		For Work In Restricted Working Space, Add	*35.00*	
22 13 16 00-0686	EA	8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug	2,106.80	104.57
		For Work In Restricted Working Space, Add	*47.11*	
22 13 16 00-0687	EA	10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug	2,795.57	139.39
		For Work In Restricted Working Space, Add	*62.81*	
22 13 16 00-0688		**Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug** *(22 13 16 00-0539)*		
22 13 16 00-0689	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug	57.95	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0690	EA	2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug	83.54	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0691	EA	3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug	121.07	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0692	EA	4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug	223.43	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0693	EA	6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug	526.84	51.81
		For Work In Restricted Working Space, Add	*23.33*	
22 13 16 00-0694	EA	8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug	1,199.71	69.76
		For Work In Restricted Working Space, Add	*31.41*	
22 13 16 00-0695	EA	10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug	2,222.60	92.97
		For Work In Restricted Working Space, Add	*41.85*	
22 13 16 00-0696		**Polyvinyl Chloride (PVC) Couplings** *(22 13 16 00-0539)*		
22 13 16 00-0697	EA	1-1/2" Polyvinyl Chloride (PVC) Couplings	38.23	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0698	EA	2" Polyvinyl Chloride (PVC) Couplings	47.63	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0699	EA	3" Polyvinyl Chloride (PVC) Couplings	75.33	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0700	EA	4" Polyvinyl Chloride (PVC) Couplings	99.07	39.84
		For Work In Restricted Working Space, Add	*17.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0701	EA	6" Polyvinyl Chloride (PVC) Couplings	294.36	51.81
		For Work In Restricted Working Space, Add	*23.33*	
22 13 16 00-0702	EA	8" Polyvinyl Chloride (PVC) Couplings	730.38	69.76
		For Work In Restricted Working Space, Add	*31.41*	
22 13 16 00-0703	EA	10" Polyvinyl Chloride (PVC) Couplings	1,109.18	92.97
		For Work In Restricted Working Space, Add	*41.88*	

22 13 16 00-0704 Polyvinyl Chloride (PVC) Male Adapters *(22 13 16 00-0539)*

22 13 16 00-0705	EA	1-1/2" Polyvinyl Chloride (PVC) Male Adapters	23.37	9.93
		For Work In Restricted Working Space, Add	*4.49*	
22 13 16 00-0706	EA	2" Polyvinyl Chloride (PVC) Male Adapters	39.82	12.80
		For Work In Restricted Working Space, Add	*5.74*	
22 13 16 00-0707	EA	3" Polyvinyl Chloride (PVC) Male Adapters	83.09	17.11
		For Work In Restricted Working Space, Add	*7.72*	
22 13 16 00-0708	EA	4" Polyvinyl Chloride (PVC) Male Adapters	161.37	19.98
		For Work In Restricted Working Space, Add	*8.98*	

22 13 16 00-0709 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe *(22 13 16 00-0504)*

Note: In place piping.

22 13 16 00-0710	EA	1-1/2" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	8.77	
22 13 16 00-0711	EA	2" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	9.65	
22 13 16 00-0712	EA	3" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	12.27	
22 13 16 00-0713	EA	4" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	16.57	
22 13 16 00-0714	EA	6" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	23.67	
22 13 16 00-0715	EA	8" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	31.57	
22 13 16 00-0716	EA	10" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	38.60	

22 13 16 00-0717 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings *(22 13 16)*

Note: Aboveground installation.

22 13 16 00-0718 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies *(22 13 16 00-0717)*

Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.

22 13 16 00-0719	LF	1-1/2" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	29.28	5.02
		For Work In Restricted Working Space, Add	*6.89*	
22 13 16 00-0720	LF	2" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	32.53	5.98
		For Work In Restricted Working Space, Add	*7.62*	
22 13 16 00-0721	LF	3" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	44.47	8.62
		For Work In Restricted Working Space, Add	*9.47*	
22 13 16 00-0722	LF	4" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	51.25	9.33
		For Work In Restricted Working Space, Add	*10.52*	
22 13 16 00-0723	LF	6" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	85.65	11.97
		For Work In Restricted Working Space, Add	*13.99*	

22 13 16 00-0724 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) *(22 13 16 00-0717)*

Note: Excludes fittings or hangers.

22 13 16 00-0725	LF	1-1/2" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe	10.21	5.02
		For Work In Restricted Working Space, Add	*2.24*	
22 13 16 00-0726	LF	2" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe	12.63	5.98
		For Work In Restricted Working Space, Add	*2.69*	
22 13 16 00-0727	LF	3" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe	20.44	8.62
		For Work In Restricted Working Space, Add	*3.86*	
22 13 16 00-0728	LF	4" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe	24.79	9.33
		For Work In Restricted Working Space, Add	*4.19*	
22 13 16 00-0729	LF	6" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe	38.99	11.29
		For Work In Restricted Working Space, Add	*5.08*	

22 13 16 00-0730 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) *(22 13 16 00-0717)*

22 13 16 00-0731 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends *(22 13 16 00-0730)*

22 13 16 00-0732	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	41.52	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0733	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	54.84	25.49
		For Work In Restricted Working Space, Add	*11.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0734	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	102.52	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0735	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	159.89	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0736	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	451.25	51.81
		For Work In Restricted Working Space, Add	*23.33*	
22 13 16 00-0737		**Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends** *(22 13 16 00-0730)*		
22 13 16 00-0738	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends	57.57	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0739	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends	70.52	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0740	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends	141.46	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0741	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends	237.35	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0742		**Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends** *(22 13 16 00-0730)*		
22 13 16 00-0743	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	43.70	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0744	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	53.32	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0745	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	94.54	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0746	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	145.15	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0747	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	466.80	51.81
		For Work In Restricted Working Space, Add	*23.33*	
22 13 16 00-0748		**Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees** *(22 13 16 00-0730)*		
22 13 16 00-0749	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees	64.62	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0750	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees	87.13	38.29
		For Work In Restricted Working Space, Add	*17.23*	
22 13 16 00-0751	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees	152.85	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0752	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees	235.14	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0753	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees	904.79	77.65
		For Work In Restricted Working Space, Add	*35.00*	
22 13 16 00-0754		**Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees** *(22 13 16 00-0730)*		
22 13 16 00-0755	EA	2" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees	80.56	32.66
		For Work In Restricted Working Space, Add	*14.72*	
22 13 16 00-0756	EA	2" x 1-1/2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees	97.49	35.41
		For Work In Restricted Working Space, Add	*15.98*	
22 13 16 00-0757	EA	2" x 2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees	81.72	35.41
		For Work In Restricted Working Space, Add	*15.98*	
22 13 16 00-0758	EA	3" x 3" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees	124.20	44.27
		For Work In Restricted Working Space, Add	*19.92*	
22 13 16 00-0759	EA	3" x 3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees	128.92	47.02
		For Work In Restricted Working Space, Add	*21.18*	
22 13 16 00-0760	EA	4" x 4" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees	284.35	49.77
		For Work In Restricted Working Space, Add	*22.43*	
22 13 16 00-0761	EA	4" x 4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees	274.59	52.64
		For Work In Restricted Working Space, Add	*23.69*	
22 13 16 00-0762	EA	4" x 4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees	314.95	56.95
		For Work In Restricted Working Space, Add	*25.67*	
22 13 16 00-0763	EA	6" x 6" x 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees	988.87	71.67
		For Work In Restricted Working Space, Add	*32.30*	
22 13 16 00-0764		**Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees** *(22 13 16 00-0730)*		
22 13 16 00-0765	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees	119.84	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0766	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees	164.14	50.97
		For Work In Restricted Working Space, Add	*22.97*	
22 13 16 00-0767	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees	348.89	68.56
		For Work In Restricted Working Space, Add	*30.87*	
22 13 16 00-0768	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees	513.92	79.68
		For Work In Restricted Working Space, Add	*35.90*	
22 13 16 00-0769		**Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees** *(22 13 16 00-0730)*		
22 13 16 00-0770	EA	2" x 2" x 1-1/2" x 1-1/2 Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees	136.27	45.47
		For Work In Restricted Working Space, Add	*20.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0771	EA	3" x 3" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees	206.73	54.20
		For Work In Restricted Working Space, Add	*24.41*	
22 13 16 00-0772	EA	3" x 3" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees	238.08	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0773	EA	4" x 4" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	419.36	61.68
		For Work In Restricted Working Space, Add	*27.79*	
22 13 16 00-0774	EA	4" x 4" x 3" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees	440.80	69.93
		For Work In Restricted Working Space, Add	*31.52*	

22 13 16 00-0775 Acrylonitrile Butadiene Styrene (ABS) DWV Wyes *(22 13 16 00-0730)*

22 13 16 00-0776	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes	84.64	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0777	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes	98.27	38.29
		For Work In Restricted Working Space, Add	*17.23*	
22 13 16 00-0778	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes	167.56	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0779	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes	258.15	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0780	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes	734.62	77.65
		For Work In Restricted Working Space, Add	*35.00*	

22 13 16 00-0781 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes *(22 13 16 00-0730)*

22 13 16 00-0782	EA	2" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes	120.02	32.66
		For Work In Restricted Working Space, Add	*14.72*	
22 13 16 00-0783	EA	2" x 2" X 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes	123.50	35.41
		For Work In Restricted Working Space, Add	*15.98*	
22 13 16 00-0784	EA	3" x 3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes	140.84	47.02
		For Work In Restricted Working Space, Add	*21.18*	
22 13 16 00-0785	EA	4" x 4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes	214.28	52.64
		For Work In Restricted Working Space, Add	*23.69*	
22 13 16 00-0786	EA	4" x 4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes	243.64	56.95
		For Work In Restricted Working Space, Add	*25.67*	
22 13 16 00-0787	EA	6" x 6" x 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes	618.25	71.67
		For Work In Restricted Working Space, Add	*32.30*	

22 13 16 00-0788 Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes *(22 13 16 00-0730)*

22 13 16 00-0789	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	144.42	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0790	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	185.40	50.97
		For Work In Restricted Working Space, Add	*22.97*	
22 13 16 00-0791	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	384.23	68.56
		For Work In Restricted Working Space, Add	*30.87*	
22 13 16 00-0792	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	689.56	79.68
		For Work In Restricted Working Space, Add	*35.90*	

22 13 16 00-0793 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes *(22 13 16 00-0730)*

22 13 16 00-0794	EA	2" x 2" x 1-1/2" x 1-1/2 Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	167.58	45.47
		For Work In Restricted Working Space, Add	*20.46*	
22 13 16 00-0795	EA	3" x 3" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	279.81	54.20
		For Work In Restricted Working Space, Add	*24.41*	
22 13 16 00-0796	EA	3" x 3" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	298.61	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0797	EA	4" x 4" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	439.81	65.33
		For Work In Restricted Working Space, Add	*29.43*	
22 13 16 00-0798	EA	4" x 4" x 3" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	562.61	74.06
		For Work In Restricted Working Space, Add	*33.38*	

22 13 16 00-0799 Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend *(22 13 16 00-0730)*

22 13 16 00-0800	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	108.40	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0801	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	140.01	38.29
		For Work In Restricted Working Space, Add	*17.23*	
22 13 16 00-0802	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	213.23	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0803	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	351.84	56.48
		For Work In Restricted Working Space, Add	*25.42*	

22 13 16 00-0804 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend *(22 13 16 00-0730)*

22 13 16 00-0805	EA	2" x 2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	120.12	35.41
		For Work In Restricted Working Space, Add	*15.98*	
22 13 16 00-0806	EA	3" x 3" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	224.75	44.27
		For Work In Restricted Working Space, Add	*19.92*	

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22 13 16 00-0807	EA	3" x 3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	169.55	47.02
		For Work In Restricted Working Space, Add	*21.18*	
22 13 16 00-0808	EA	4" x 4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	299.39	52.64
		For Work In Restricted Working Space, Add	*23.69*	
22 13 16 00-0809	EA	4" x 4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	324.24	56.95
		For Work In Restricted Working Space, Add	*25.67*	
22 13 16 00-0810		**Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend** *(22 13 16 00-0730)*		
22 13 16 00-0811	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends	226.07	50.97
		For Work In Restricted Working Space, Add	*22.97*	
22 13 16 00-0812	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends	447.70	68.56
		For Work In Restricted Working Space, Add	*30.87*	
22 13 16 00-0813		**Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend** *(22 13 16 00-0730)*		
22 13 16 00-0814	EA	2" x 2" x 1-1/2" x 1-1/2 Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends	188.50	45.47
		For Work In Restricted Working Space, Add	*20.46*	
22 13 16 00-0815	EA	3" x 3" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends	428.66	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0816		**Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug** *(22 13 16 00-0730)*		
22 13 16 00-0817	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug	119.60	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0818	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug	151.20	38.29
		For Work In Restricted Working Space, Add	*17.23*	
22 13 16 00-0819	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug	238.25	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0820	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug	390.84	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0821		**Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug** *(22 13 16 00-0730)*		
22 13 16 00-0822	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug	55.54	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0823	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug	79.64	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0824	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug	114.99	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0825	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug	209.42	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0826	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug	488.46	51.81
		For Work In Restricted Working Space, Add	*23.33*	
22 13 16 00-0827		**Acrylonitrile Butadiene Styrene (ABS) DWV Couplings** *(22 13 16 00-0730)*		
22 13 16 00-0828	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings	38.75	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0829	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings	47.60	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0830	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings	76.78	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0831	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings	101.58	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0832	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings	284.18	51.81
		For Work In Restricted Working Space, Add	*23.33*	
22 13 16 00-0833		**Acrylonitrile Butadiene Styrene (ABS) DWV Reducers** *(22 13 16 00-0730)*		
22 13 16 00-0834	EA	2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	56.49	22.73
		For Work In Restricted Working Space, Add	*10.23*	
22 13 16 00-0835	EA	3" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	111.65	27.04
		For Work In Restricted Working Space, Add	*12.20*	
22 13 16 00-0836	EA	3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	104.37	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0837	EA	4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	166.44	32.66
		For Work In Restricted Working Space, Add	*14.72*	
22 13 16 00-0838	EA	4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	178.45	37.09
		For Work In Restricted Working Space, Add	*16.69*	
22 13 16 00-0839		**Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps** *(22 13 16 00-0730)*		
22 13 16 00-0840	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps	88.26	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0841	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps	127.68	38.29
		For Work In Restricted Working Space, Add	*17.23*	

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22 13 16 00-0842	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps	398.94	51.45
		For Work In Restricted Working Space, Add	*23.15*	
22 13 16 00-0843	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps	748.96	59.82
		For Work In Restricted Working Space, Add	*26.92*	
22 13 16 00-0844		**Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges** *(22 13 16 00-0730)*		
22 13 16 00-0845	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges	120.42	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0846	EA	4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges	112.47	37.09
		For Work In Restricted Working Space, Add	*16.69*	
22 13 16 00-0847		**Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters** *(22 13 16 00-0730)*		
22 13 16 00-0848	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters	26.23	9.93
		For Work In Restricted Working Space, Add	*4.49*	
22 13 16 00-0849	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters	39.12	12.80
		For Work In Restricted Working Space, Add	*5.74*	
22 13 16 00-0850	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters	83.92	17.11
		For Work In Restricted Working Space, Add	*7.72*	
22 13 16 00-0851	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters	158.65	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0852		**Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings** *(22 13 16 00-0730)*		
22 13 16 00-0853	EA	2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing	43.41	22.73
		For Work In Restricted Working Space, Add	*10.23*	
22 13 16 00-0854	EA	3" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing	90.91	27.04
		For Work In Restricted Working Space, Add	*12.20*	
22 13 16 00-0855	EA	3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing	76.78	29.92
		For Work In Restricted Working Space, Add	*13.46*	
22 13 16 00-0856	EA	4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing	164.82	32.66
		For Work In Restricted Working Space, Add	*14.72*	
22 13 16 00-0857	EA	4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing	122.72	37.09
		For Work In Restricted Working Space, Add	*16.69*	
22 13 16 00-0858	EA	6" x 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing	328.03	43.27
		For Work In Restricted Working Space, Add	*19.49*	
22 13 16 00-0859		**Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings** *(22 13 16 00-0730)*		
22 13 16 00-0860	EA	1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling	167.34	19.98
		For Work In Restricted Working Space, Add	*8.98*	
22 13 16 00-0861	EA	2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling	184.87	25.49
		For Work In Restricted Working Space, Add	*11.49*	
22 13 16 00-0862	EA	3" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling	207.19	34.22
		For Work In Restricted Working Space, Add	*15.44*	
22 13 16 00-0863	EA	4" x 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling	224.72	39.84
		For Work In Restricted Working Space, Add	*17.95*	
22 13 16 00-0864		**Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe** *(22 13 16 00-0717)*		
		Note: In place piping.		
22 13 16 00-0865	EA	1-1/2" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	8.77	
22 13 16 00-0866	EA	2" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	9.65	
22 13 16 00-0867	EA	3" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	12.27	
22 13 16 00-0868	EA	4" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	16.57	
22 13 16 00-0869	EA	6" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	23.67	
22 13 16 00-0870		**Elastomeric Flexible Pipe Couplings** *(22 13 16)*		
22 13 16 00-0871		**Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings** *(22 13 16 00-0870)*		
		Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0872	EA	1-1/4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125)	14.89	5.20
		For Work In Restricted Working Space, Add	*3.12*	
22 13 16 00-0873	EA	1-1/2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	16.03	5.52
		For Work In Restricted Working Space, Add	*3.32*	
22 13 16 00-0874	EA	2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)	16.86	5.85
		For Work In Restricted Working Space, Add	*3.51*	
22 13 16 00-0875	EA	3" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)	19.34	6.17
		For Work In Restricted Working Space, Add	*3.71*	
22 13 16 00-0876	EA	4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)	21.73	6.50
		For Work In Restricted Working Space, Add	*3.90*	
22 13 16 00-0877	EA	5" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)	27.34	6.82
		For Work In Restricted Working Space, Add	*4.09*	
22 13 16 00-0878	EA	6" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)	33.01	7.14
		For Work In Restricted Working Space, Add	*4.29*	
22 13 16 00-0879	EA	8" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)	44.37	7.80
		For Work In Restricted Working Space, Add	*4.68*	

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22 13 16 00-0880	EA	10" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)	58.19	9.10
		For Work In Restricted Working Space, Add	*5.46*	

22 13 16 00-0881 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings *(22 13 16 00-0870)*

Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.

22 13 16 00-0882	EA	1-1/2" Diameter x 1-1/4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125)	15.86	5.52
		For Work In Restricted Working Space, Add	*3.32*	
22 13 16 00-0883	EA	2" Diameter x 1-1/2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215)	17.15	5.85
		For Work In Restricted Working Space, Add	*3.51*	
22 13 16 00-0884	EA	3" Diameter x 1-1/2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315)	20.78	6.17
		For Work In Restricted Working Space, Add	*3.71*	
22 13 16 00-0885	EA	3" Diameter x 2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32)	18.81	6.17
		For Work In Restricted Working Space, Add	*3.71*	
22 13 16 00-0886	EA	4" Diameter x 1-1/2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415)	25.28	6.50
		For Work In Restricted Working Space, Add	*3.90*	
22 13 16 00-0887	EA	4" Diameter x 2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42)	24.28	6.50
		For Work In Restricted Working Space, Add	*3.90*	
22 13 16 00-0888	EA	4" Diameter x 3" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43)	22.41	6.50
		For Work In Restricted Working Space, Add	*3.90*	
22 13 16 00-0889	EA	5" Diameter x 3" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53)	31.74	6.82
		For Work In Restricted Working Space, Add	*4.09*	
22 13 16 00-0890	EA	5" Diameter x 4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54)	28.88	6.82
		For Work In Restricted Working Space, Add	*4.09*	
22 13 16 00-0891	EA	6" Diameter x 3" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63)	38.91	7.14
		For Work In Restricted Working Space, Add	*4.29*	
22 13 16 00-0892	EA	6" Diameter x 4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64)	34.63	7.14
		For Work In Restricted Working Space, Add	*4.29*	
22 13 16 00-0893	EA	6" Diameter x 5" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65)	35.83	7.14
		For Work In Restricted Working Space, Add	*4.29*	
22 13 16 00-0894	EA	8" Diameter x 4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84)	70.02	12.99
		For Work In Restricted Working Space, Add	*7.80*	
22 13 16 00-0895	EA	8" Diameter x 6" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86)	58.16	12.99
		For Work In Restricted Working Space, Add	*7.80*	
22 13 16 00-0896	EA	10" Diameter x 8" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8)	73.04	14.62
		For Work In Restricted Working Space, Add	*8.77*	

22 13 16 00-0897 Elastomeric Flexible Expansion Joint Couplings (Fernco XJ) *(22 13 16)*

Note: Includes stainless steel clamps.

22 13 16 00-0898	EA	1-1/2" Elastomeric Flexible Expansion Joint Coupling (Fernco XJ-150)	30.57	5.52
22 13 16 00-0899	EA	2" Elastomeric Flexible Expansion Joint Coupling (Fernco XJ-2)	33.90	5.85
22 13 16 00-0900	EA	3" Elastomeric Flexible Expansion Joint Coupling (Fernco XJ-3)	36.37	6.17
22 13 16 00-0901	EA	4" Elastomeric Flexible Expansion Joint Coupling (Fernco XJ-4)	43.21	6.50

22 13 16 00-0902 Elastomeric Flexible Pipe Caps (Fernco QC) *(22 13 16)*

Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.

22 13 16 00-0903	EA	1-1/2" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-101)	56.75	35.08
22 13 16 00-0904	EA	2" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-102)	60.82	37.30
22 13 16 00-0905	EA	3" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-103)	70.35	42.75
22 13 16 00-0906	EA	4" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-104)	92.85	56.52
22 13 16 00-0907	EA	5" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-105)	111.25	67.57
22 13 16 00-0908	EA	6" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-106)	128.44	77.97
22 13 16 00-0909	EA	8" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-108)	171.35	98.75
22 13 16 00-0910	EA	10" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-110)	208.97	110.45
22 13 16 00-0911	EA	12" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-112)	261.66	122.80

22 13 16 00-0912 Seamless Pipe Vent Flashing For Multiple Pipe *(22 13 16)*

Note: Elmdor/Stoneman #910.

22 13 16 00-0913	EA	Multi Flash Assembly (Elmdor/Stoneman #910-6 STD - 4 Lb.)	559.70	136.44
22 13 16 00-0914	EA	Multi Flash Assembly (Elmdor/Stoneman #910-6 STD - 6 Lb.)	583.89	136.44
22 13 16 00-0915	EA	Multi Flash Assembly (Elmdor/Stoneman #910-8 SK - 4 Lb.)	627.11	159.18
22 13 16 00-0916	EA	Multi Flash Assembly (Elmdor/Stoneman #910-8 SK - 6 Lb.)	661.06	159.18
22 13 16 00-0917	EA	Multi Flash Assembly (Elmdor/Stoneman #910-10 SK - 4 Lb.)	710.64	185.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0918	EA	Multi Flash Assembly (Elmdor/Stoneman #910-10 SK - 6 Lb.)	756.89	185.17
22 13 16 00-0919		**Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series)** *(22 13 16)*		
22 13 16 00-0920	EA	1-1/2" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	106.04	26.92
22 13 16 00-0921	EA	2" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	112.02	29.92
22 13 16 00-0922	EA	3" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	167.25	38.88
22 13 16 00-0923	EA	4" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	196.00	44.86
22 13 16 00-0924	EA	5" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	228.45	50.85
22 13 16 00-0925	EA	6" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	382.09	56.83
22 13 16 00-0926		**Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series)** *(22 13 16)*		
22 13 16 00-0927	EA	1-1/2" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	216.75	26.92
22 13 16 00-0928	EA	2" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	222.73	29.92
22 13 16 00-0929	EA	3" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	265.04	38.88
22 13 16 00-0930	EA	4" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	331.30	44.86
22 13 16 00-0931	EA	5" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	451.87	50.85
22 13 16 00-0932	EA	6" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	463.84	56.83
22 13 16 00-0933		**Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series)** *(22 13 16)* Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0934	EA	1-1/2" Diameter, Cast Iron Vandal Proof Hooded Vent Cap	411.48	26.92
22 13 16 00-0935	EA	2" Diameter, Cast Iron Vandal Proof Hooded Vent Cap	417.46	29.92
22 13 16 00-0936	EA	3" Diameter, Cast Iron Vandal Proof Hooded Vent Cap	480.12	38.88
22 13 16 00-0937	EA	4" Diameter, Cast Iron Vandal Proof Hooded Vent Cap	540.52	44.86
22 13 16 00-0938	EA	5" Diameter, Cast Iron Vandal Proof Hooded Vent Cap	630.71	50.85
22 13 16 00-0939	EA	6" Diameter, Cast Iron Vandal Proof Hooded Vent Cap	689.25	56.83
22 13 19		**Sanitary Waste Piping Specialties** *(22 13)*		
22 13 19 13		**Sanitary Drains** *(22 13 19)*		
22 13 19 13-0001		**Round Top Floor Drains** *(22 13 19 13)*		
22 13 19 13-0002	EA	Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet	857.98	128.62
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0003	EA	Bronze Top, 6" Round Top Floor Drain With 2" Outlet	942.80	144.17
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0004	EA	Bronze Top, 6" Round Top Floor Drain With 3" Outlet	919.84	159.49
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0005	EA	Bronze Top, 6" Round Top Floor Drain With 4" Outlet	952.69	176.00
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0006	EA	Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet	861.40	144.17
		For Galvanized Extension Collar, Each 3", Add	*117.50*	
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*48.00*	
		For Cast Iron Dome Grate, Add	*17.00*	
		For Nikaloy Dome Grate, Add	*178.50*	
		For Bronze Dome Grate, Add	*143.00*	
		For Cast Iron Extension Collar, Each 3", Add	*57.50*	
22 13 19 13-0007	EA	Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet	892.15	159.49
		For Galvanized Extension Collar, Each 3", Add	*117.50*	
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*48.00*	
		For Cast Iron Dome Grate, Add	*17.00*	
		For Nikaloy Dome Grate, Add	*178.50*	
		For Bronze Dome Grate, Add	*143.00*	
		For Cast Iron Extension Collar, Each 3", Add	*57.50*	
22 13 19 13-0008	EA	Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet	925.00	176.00
		For Galvanized Extension Collar, Each 3", Add	*117.50*	
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*48.00*	
		For Cast Iron Dome Grate, Add	*17.00*	
		For Nikaloy Dome Grate, Add	*178.50*	
		For Bronze Dome Grate, Add	*143.00*	
		For Cast Iron Extension Collar, Each 3", Add	*57.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0009	EA	Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet	1,431.73	144.17
		For Galvanized Extension Collar, Each 3", Add	*117.50*	
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*48.00*	
		For Cast Iron Dome Grate, Add	*17.00*	
		For Nikaloy Dome Grate, Add	*178.50*	
		For Bronze Dome Grate, Add	*143.00*	
		For Cast Iron Extension Collar, Each 3", Add	*57.50*	
22 13 19 13-0010	EA	Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet	1,462.48	159.49
		For Galvanized Extension Collar, Each 3", Add	*117.50*	
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*48.00*	
		For Cast Iron Dome Grate, Add	*17.00*	
		For Nikaloy Dome Grate, Add	*178.50*	
		For Bronze Dome Grate, Add	*143.00*	
		For Cast Iron Extension Collar, Each 3", Add	*57.50*	
22 13 19 13-0011	EA	Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet	1,495.33	176.00
		For Galvanized Extension Collar, Each 3", Add	*117.50*	
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*48.00*	
		For Cast Iron Dome Grate, Add	*17.00*	
		For Nikaloy Dome Grate, Add	*178.50*	
		For Bronze Dome Grate, Add	*143.00*	
		For Cast Iron Extension Collar, Each 3", Add	*57.50*	
22 13 19 13-0012	EA	Bronze Top, 9" Round Top Floor Drain With 2" Outlet	1,348.67	144.17
		For Galvanized Extension Collar, Each 3", Add	*117.50*	
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*48.00*	
		For Cast Iron Dome Grate, Add	*17.00*	
		For Nikaloy Dome Grate, Add	*178.50*	
		For Bronze Dome Grate, Add	*143.00*	
		For Cast Iron Extension Collar, Each 3", Add	*57.50*	
22 13 19 13-0013	EA	Bronze Top, 9" Round Top Floor Drain With 3" Outlet	1,379.25	159.49
		For Galvanized Extension Collar, Each 3", Add	*117.50*	
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*48.00*	
		For Cast Iron Dome Grate, Add	*17.00*	
		For Nikaloy Dome Grate, Add	*178.50*	
		For Bronze Dome Grate, Add	*143.00*	
		For Cast Iron Extension Collar, Each 3", Add	*57.50*	
22 13 19 13-0014	EA	Bronze Top, 9" Round Top Floor Drain With 4" Outlet	1,412.27	176.00
		For Galvanized Extension Collar, Each 3", Add	*117.50*	
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*48.00*	
		For Cast Iron Dome Grate, Add	*17.00*	
		For Nikaloy Dome Grate, Add	*178.50*	
		For Bronze Dome Grate, Add	*143.00*	
		For Cast Iron Extension Collar, Each 3", Add	*57.50*	
22 13 19 13-0015	EA	Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,481.43	144.05
		For Primer Tap, Add	*33.50*	
		For Chained Grate, Add	*48.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*53.00*	
		For Cast Iron Dome Grate, Add	*28.00*	
		For Nikaloy Dome Grate, Add	*255.00*	
		For Cast Iron Extension Collar, Each 2", Add	*51.00*	
		For Galvanized Extension Collar, Each 2", Add	*102.50*	
		For Galvanized Cast Iron Parts, Add	*132.00*	
22 13 19 13-0016	EA	Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,512.15	159.49
		For Primer Tap, Add	*33.50*	
		For Chained Grate, Add	*48.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*53.00*	
		For Cast Iron Dome Grate, Add	*28.00*	
		For Nikaloy Dome Grate, Add	*255.00*	
		For Cast Iron Extension Collar, Each 2", Add	*51.00*	
		For Galvanized Extension Collar, Each 2", Add	*102.50*	
		For Galvanized Cast Iron Parts, Add	*132.00*	
22 13 19 13-0017	EA	Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,545.17	176.00
		For Primer Tap, Add	*33.50*	
		For Chained Grate, Add	*48.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*53.00*	
		For Cast Iron Dome Grate, Add	*28.00*	
		For Nikaloy Dome Grate, Add	*255.00*	
		For Cast Iron Extension Collar, Each 2", Add	*51.00*	
		For Galvanized Extension Collar, Each 2", Add	*102.50*	
		For Galvanized Cast Iron Parts, Add	*132.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0018	EA	Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,334.16	144.05
		For Primer Tap, Add	*33.50*	
		For Chained Grate, Add	*48.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*53.00*	
		For Cast Iron Dome Grate, Add	*28.00*	
		For Nikaloy Dome Grate, Add	*255.00*	
		For Cast Iron Extension Collar, Each 2", Add	*51.00*	
		For Galvanized Extension Collar, Each 2", Add	*102.50*	
		For Galvanized Cast Iron Parts, Add	*132.00*	
22 13 19 13-0019	EA	Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,364.88	159.49
		For Primer Tap, Add	*33.50*	
		For Chained Grate, Add	*48.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*53.00*	
		For Cast Iron Dome Grate, Add	*28.00*	
		For Nikaloy Dome Grate, Add	*255.00*	
		For Cast Iron Extension Collar, Each 2", Add	*51.00*	
		For Galvanized Extension Collar, Each 2", Add	*102.50*	
		For Galvanized Cast Iron Parts, Add	*132.00*	
22 13 19 13-0020	EA	Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,397.90	176.00
		For Primer Tap, Add	*33.50*	
		For Chained Grate, Add	*48.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*53.00*	
		For Cast Iron Dome Grate, Add	*28.00*	
		For Nikaloy Dome Grate, Add	*255.00*	
		For Cast Iron Extension Collar, Each 2", Add	*51.00*	
		For Galvanized Extension Collar, Each 2", Add	*102.50*	
		For Galvanized Cast Iron Parts, Add	*132.00*	
22 13 19 13-0021	EA	Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,220.64	144.05
		For Primer Tap, Add	*33.50*	
		For Chained Grate, Add	*48.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*53.00*	
		For Cast Iron Dome Grate, Add	*28.00*	
		For Nikaloy Dome Grate, Add	*255.00*	
		For Cast Iron Extension Collar, Each 2", Add	*51.00*	
		For Galvanized Extension Collar, Each 2", Add	*102.50*	
		For Galvanized Cast Iron Parts, Add	*132.00*	
22 13 19 13-0022	EA	Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,251.36	159.49
		For Primer Tap, Add	*33.50*	
		For Chained Grate, Add	*48.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*53.00*	
		For Cast Iron Dome Grate, Add	*28.00*	
		For Nikaloy Dome Grate, Add	*255.00*	
		For Cast Iron Extension Collar, Each 2", Add	*51.00*	
		For Galvanized Extension Collar, Each 2", Add	*102.50*	
		For Galvanized Cast Iron Parts, Add	*132.00*	
22 13 19 13-0023	EA	Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,284.38	176.00
		For Primer Tap, Add	*33.50*	
		For Chained Grate, Add	*48.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*53.00*	
		For Cast Iron Dome Grate, Add	*28.00*	
		For Nikaloy Dome Grate, Add	*255.00*	
		For Cast Iron Extension Collar, Each 2", Add	*51.00*	
		For Galvanized Extension Collar, Each 2", Add	*102.50*	
		For Galvanized Cast Iron Parts, Add	*132.00*	

22 13 19 13-0024 Square Or Rectangular Top Drains *(22 13 19 13)*

22 13 19 13-0025	EA	5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,019.07	144.05
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0026	EA	5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,050.13	159.61
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0027	EA	5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,082.81	176.00
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0028	EA	6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,102.13	144.05
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0029	EA	6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,133.19	159.61
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0030	EA	6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,165.87	176.00
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0031	EA	8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,467.58	144.05
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0032	EA	8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,498.64	159.61
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0033	EA	8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,531.32	176.00
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0034	EA	5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top	958.16	144.05
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0035	EA	5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top	989.22	159.61
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0036	EA	5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top	1,021.90	176.00
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0037	EA	6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top	1,063.37	144.05
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0038	EA	6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top	1,094.43	159.61
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0039	EA	6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top	1,127.11	176.00
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0040	EA	8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top	1,359.61	144.05
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0041	EA	8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top	1,390.67	159.61
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0042	EA	8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top	1,423.35	176.00
		For Sediment Bucket, Add	*22.50*	
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0043	EA	12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top	3,528.03	159.61
		For Galvanized Cast Iron Parts, Add	*318.00*	
		For No-Hub Side Outlet, Add	*76.00*	
		For Chained Grate, Add	*48.50*	
22 13 19 13-0044	EA	12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top	3,560.71	176.00
		For Galvanized Cast Iron Parts, Add	*318.00*	
		For No-Hub Side Outlet, Add	*76.00*	
		For Chained Grate, Add	*48.50*	
22 13 19 13-0045	EA	12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top	4,430.59	159.61
		For Galvanized Cast Iron Parts, Add	*318.00*	
		For No-Hub Side Outlet, Add	*76.00*	
		For Chained Grate, Add	*48.50*	
22 13 19 13-0046	EA	12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top	4,463.27	176.00
		For Galvanized Cast Iron Parts, Add	*318.00*	
		For No-Hub Side Outlet, Add	*76.00*	
		For Chained Grate, Add	*48.50*	
22 13 19 13-0047	EA	12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top	4,322.62	159.61
		For Galvanized Cast Iron Parts, Add	*318.00*	
		For No-Hub Side Outlet, Add	*76.00*	
		For Chained Grate, Add	*48.50*	
22 13 19 13-0048	EA	12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top	4,355.30	176.00
		For Galvanized Cast Iron Parts, Add	*318.00*	
		For No-Hub Side Outlet, Add	*76.00*	
		For Chained Grate, Add	*48.50*	
22 13 19 13-0049	EA	5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,489.73	144.05
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0050	EA	5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,520.79	159.61
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0051	EA	5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,553.47	176.00
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0052	EA	5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,918.87	144.05
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0053	EA	5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,949.93	159.61
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0054	EA	5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,982.61	176.00
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0055	EA	5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top	2,018.54	144.05
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0056	EA	5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top	2,049.60	159.61
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0057	EA	5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top	2,082.28	176.00
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0058	EA	5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top	2,790.97	144.05
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0059	EA	5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top	2,822.03	159.61
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0060	EA	5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top	2,854.71	176.00
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0061	EA	5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top	1,401.14	144.05
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0062	EA	5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top	1,432.20	159.61
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0063	EA	5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top	1,464.88	176.00
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0064	EA	5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top	1,766.59	144.05
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0065	EA	5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top	1,797.65	159.61
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0066	EA	5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top	1,830.33	176.00
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0067	EA	5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top	1,866.26	144.05
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0068	EA	5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top	1,897.32	159.61
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0069	EA	5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top	1,930.00	176.00
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0070	EA	5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top	2,494.73	144.05
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0071	EA	5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top	2,525.79	159.61
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	
22 13 19 13-0072	EA	5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top	2,558.47	176.00
		For Sediment Bucket, Add	*22.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Rough Bronze Body, Add	*120.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0073		**Funnel Type Floor Drains** *(22 13 19 13)*		
22 13 19 13-0074	EA	7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top	1,406.27	128.62
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0075	EA	7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top	1,437.13	144.05
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0076	EA	7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top	1,467.85	159.49
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0077	EA	7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top	1,500.87	176.00
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
22 13 19 13-0078	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top	2,060.06	144.05
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Primer Tap, Add	*15.10*	
22 13 19 13-0079	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top	2,090.78	159.49
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Primer Tap, Add	*15.10*	
22 13 19 13-0080	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top	2,123.80	176.00
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Primer Tap, Add	*15.10*	
22 13 19 13-0081	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top	1,952.09	144.05
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Primer Tap, Add	*15.10*	
22 13 19 13-0082	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	1,982.81	159.49
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Primer Tap, Add	*15.10*	
22 13 19 13-0083	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	2,015.83	176.00
		For Galvanized Cast Iron Parts, Add	*105.00*	
		For Satin Finish Bronze Top, Deduct	*-19.50*	
		For Vandal Proof Screws, Add	*11.00*	
		For Primer Tap, Add	*15.10*	
22 13 19 13-0084		**Floor Drain With Sediment Bucket Bottom Outlet** *(22 13 19 13)*		
22 13 19 13-0085	EA	12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap	2,989.80	128.62
		For Galvanized Cast Iron Parts, Add	*247.00*	
		For Primer Tap, Add	*33.50*	
		For Vandal Proof Screws, Add	*30.50*	
22 13 19 13-0086	EA	12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap	3,020.77	144.05
		For Galvanized Cast Iron Parts, Add	*247.00*	
		For Primer Tap, Add	*33.50*	
		For Vandal Proof Screws, Add	*30.50*	
22 13 19 13-0087	EA	12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap	3,051.49	159.49
		For Galvanized Cast Iron Parts, Add	*247.00*	
		For Primer Tap, Add	*33.50*	
		For Vandal Proof Screws, Add	*30.50*	
22 13 19 13-0088	EA	12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap	3,084.51	176.00
		For Galvanized Cast Iron Parts, Add	*247.00*	
		For Primer Tap, Add	*33.50*	
		For Vandal Proof Screws, Add	*30.50*	
22 13 19 13-0089	EA	12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap	3,118.57	192.99
		For Galvanized Cast Iron Parts, Add	*247.00*	
		For Primer Tap, Add	*33.50*	
		For Vandal Proof Screws, Add	*30.50*	
22 13 19 13-0090	EA	12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron Grate	3,231.18	144.05
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0091	EA	12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron Grate	3,262.24	159.61
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0092	EA	12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron Grate	3,294.92	176.00
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0093	EA	12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron Grate	3,328.98	192.99
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0094	EA	12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron Grate	1,982.54	144.05
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0095	EA	12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron Grate	2,013.60	159.61
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0096	EA	12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron Grate	2,046.28	176.00
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0097	EA	12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron Grate	2,080.34	192.99
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0098	EA	12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,015.23	144.05
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0099	EA	12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,046.29	159.61
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0100	EA	12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,078.97	176.00
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	
22 13 19 13-0101	EA	12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,113.03	192.99
		For Galvanized Cast Iron Parts, Add	*273.75*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*31.00*	
		For Aluminum Bucket, Add	*77.50*	

22 13 19 13-0102 Other Drains *(22 13 19 13)*

22 13 19 13-0103 Shower Drains *(22 13 19 13-0102)*

22 13 19 13-0104	EA	4-1/4" Stainless Steel Shower Drain Strainer Note: Includes two 2-5/8" screws.	55.43	12.99
22 13 19 13-0105	EA	4-1/4" Brass Shower Drain Strainer Note: Includes two 2-5/8" screws.	61.72	12.99
22 13 19 13-0106	EA	4" Diameter, Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe. Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.	127.58	25.99
22 13 19 13-0107	EA	4" Chrome Finish, Threaded Brass Shower Drain And Gasket Note: For 2" pipe. Kohler K-9132.	111.98	25.99

22 13 19 13-0108 Acid Resistant Floor Drains *(22 13 19 13-0102)*

22 13 19 13-0109	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top	1,417.23	128.62
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Primer Tap, Add	*33.50*	
		For Vandal Proof Screws, Add	*30.50*	
22 13 19 13-0110	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top	1,448.20	144.05
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Primer Tap, Add	*33.50*	
		For Vandal Proof Screws, Add	*30.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0111	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top	1,478.92	159.49
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Primer Tap, Add	*33.50*	
		For Vandal Proof Screws, Add	*30.50*	

22 13 19 13-0112 Rotary And Lever Drains *(22 13 19 13-0102)*

22 13 19 13-0113	EA	1-1/2" Drain, 3" Sink Opening Lever Drain	288.78	86.75
22 13 19 13-0114	EA	2" Drain, 3" Sink Opening Lever Drain	306.72	95.71
22 13 19 13-0115	EA	1-1/2" Drain, 3-1/2" Sink Opening Lever Drain	288.78	86.75
22 13 19 13-0116	EA	2" Drain, 3-1/2" Sink Opening Lever Drain	306.72	95.71
22 13 19 13-0117	EA	1-1/2" Drain, 3" Sink Opening Twist Drain	288.78	86.75
22 13 19 13-0118	EA	2" Drain, 3" Sink Opening Twist Drain	306.72	95.71
22 13 19 13-0119	EA	1-1/2" Drain, 3-1/2" Sink Opening Twist Drain	288.78	86.75
22 13 19 13-0120	EA	2" Drain, 3-1/2" Sink Opening Twist Drain	306.72	95.71
22 13 19 13-0121	EA	1-1/2" To 2" Drain, 3-1/2" Sink Opening Rotary Twist Drain (Fisher 16100)	395.67	95.71

22 13 19 13-0122 Floor Receptor *(22 13 19 13)*

22 13 19 13-0123 9" Diameter Round Shallow Receptor *(22 13 19 13-0122)*

Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.

22 13 19 13-0124	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection	1,739.11	144.17
		For Flange With Seepage Holes, Add	*58.50*	
		For Flange With Seepage Holes And Clamp Collar, Add	*97.00*	
		For Trap Primer Connection, Add	*38.00*	
		For Full Grate With 2" Square Center Opening, Add	*36.00*	
		For Vandal Proof Secured Grate, Add	*33.50*	
		For White Acid Resistant Bucket, Add	*47.00*	
		For Stainless Steel Liner For Bucket, Add	*62.50*	
22 13 19 13-0125	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection	1,770.31	159.72
		For Flange With Seepage Holes, Add	*58.50*	
		For Flange With Seepage Holes And Clamp Collar, Add	*97.00*	
		For Trap Primer Connection, Add	*38.00*	
		For Full Grate With 2" Square Center Opening, Add	*36.00*	
		For Vandal Proof Secured Grate, Add	*33.50*	
		For White Acid Resistant Bucket, Add	*47.00*	
		For Stainless Steel Liner For Bucket, Add	*62.50*	
22 13 19 13-0126	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection	1,802.65	176.00
		For Flange With Seepage Holes, Add	*58.50*	
		For Flange With Seepage Holes And Clamp Collar, Add	*97.00*	
		For Trap Primer Connection, Add	*38.00*	
		For Full Grate With 2" Square Center Opening, Add	*36.00*	
		For Vandal Proof Secured Grate, Add	*33.50*	
		For White Acid Resistant Bucket, Add	*47.00*	
		For Stainless Steel Liner For Bucket, Add	*62.50*	

22 13 19 13-0127 Square Top Floor Receptors *(22 13 19 13-0122)*

Note: With acid resistant coating.

22 13 19 13-0128	EA	8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top	2,051.35	128.62
		For Flange With Seepage Holes, Add	*37.50*	
		For Flange With Seepage Holes And Clamp Collar, Add	*69.00*	
		For Trap Primer Connection, Add	*39.50*	
		For Full Grate With 2" Square Center Opening, Add	*36.00*	
		For Vandal Proof Secured Grate, Add	*15.50*	
		For White Acid Resistant Bucket, Add	*88.00*	
		For Stainless Steel Liner For Bucket, Add	*97.00*	
22 13 19 13-0129	EA	8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top	2,082.35	144.17
		For Flange With Seepage Holes, Add	*37.50*	
		For Flange With Seepage Holes And Clamp Collar, Add	*69.00*	
		For Trap Primer Connection, Add	*39.50*	
		For Full Grate With 2" Square Center Opening, Add	*36.00*	
		For Vandal Proof Secured Grate, Add	*15.50*	
		For White Acid Resistant Bucket, Add	*88.00*	
		For Stainless Steel Liner For Bucket, Add	*97.00*	
22 13 19 13-0130	EA	8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top	2,112.93	159.49
		For Flange With Seepage Holes, Add	*37.50*	
		For Flange With Seepage Holes And Clamp Collar, Add	*69.00*	
		For Trap Primer Connection, Add	*39.50*	
		For Full Grate With 2" Square Center Opening, Add	*36.00*	
		For Vandal Proof Secured Grate, Add	*15.50*	
		For White Acid Resistant Bucket, Add	*88.00*	
		For Stainless Steel Liner For Bucket, Add	*97.00*	
22 13 19 13-0131	EA	8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top	2,145.95	176.00
		For Flange With Seepage Holes, Add	*37.50*	
		For Flange With Seepage Holes And Clamp Collar, Add	*69.00*	
		For Trap Primer Connection, Add	*39.50*	
		For Full Grate With 2" Square Center Opening, Add	*36.00*	
		For Vandal Proof Secured Grate, Add	*15.50*	
		For White Acid Resistant Bucket, Add	*88.00*	
		For Stainless Steel Liner For Bucket, Add	*97.00*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0132		Floor Drain Accessories *(22 13 19 13)*		
22 13 19 13-0133	EA	3" Trap Guard Floor Drain Insert (ProVent TG3H) Note: Prevents emission of sewer gases.	119.11	14.96
22 13 19 13-0134	EA	2" Diameter, Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22) Note: Prevents emission of sewer gases.	96.81	14.96
22 13 19 13-0135	EA	3" Diameter, Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33) Note: Prevents emission of sewer gases.	105.73	14.96
22 13 19 13-0136	EA	3" Diameter, Trap Guard Drain Insert For 4" Diameter, Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP) Note: Prevents emission of sewer gases.	128.03	14.96
22 13 19 13-0137	EA	3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP) Note: Prevents emission of sewer gases.	114.65	14.96
22 13 19 13-0138	EA	2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02) Note: Prevents emission of sewer gases.	163.95	14.96
22 13 19 13-0139	EA	3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03) Note: Prevents emission of sewer gases.	181.90	14.96
22 13 19 13-0140	EA	4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04) Note: Prevents emission of sewer gases.	226.43	14.96
22 13 19 26		**Grease Removal Devices** *(22 13 19)*		
22 13 19 26-0001		Manual Cleaning Epoxy Coated Steel Grease Interceptor *(22 13 19 26)* Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002		Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor *(22 13 19 26-0001)* Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003	EA	7 GPM, 14 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60102H.	1,387.96	89.74
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,337.87*	
22 13 19 26-0004	EA	10 GPM, 20 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60103H.	1,618.95	201.90
		For Flange And Clamp Device, Add	*394.77*	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,415.35*	
22 13 19 26-0005	EA	15 GPM, 30 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60104H.	2,297.53	224.33
		For Flange And Clamp Device, Add	*409.72*	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,546.25*	
22 13 19 26-0006	EA	20 GPM, 40 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60105H.	2,775.05	246.77
		For Flange And Clamp Device, Add	*424.68*	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,671.73*	
22 13 19 26-0007	EA	25 GPM, 50 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60106H.	3,106.96	269.21
		For Flange And Clamp Device, Add	*470.03*	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,742.49*	
22 13 19 26-0008	EA	35 GPM, 70 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60107H.	3,815.45	314.07
		For Flange And Clamp Device, Add	*511.14*	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,919.83*	
22 13 19 26-0009	EA	50 GPM, 100 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60108H.	4,976.95	358.94
		For Flange And Clamp Device, Add	*582.01*	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*2,050.14*	
22 13 19 26-0010	EA	75 GPM, 150 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60109H.	9,783.20	403.80
		For Flange And Clamp Device, Add	*813.20*	
22 13 19 26-0011	EA	100 GPM, 200 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60110H.	11,075.53	506.35
		For Flange And Clamp Device, Add	*945.57*	
22 13 19 26-0012	EA	150 GPM, 300 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60213A.	13,667.78	810.16
		For Flange And Clamp Device, Add	*1,308.11*	
22 13 19 26-0013	EA	200 GPM, 400 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60214A.	19,611.05	1,012.70
		For Flange And Clamp Device, Add	*1,572.41*	
22 13 19 26-0014	EA	250 GPM, 500 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A.	22,877.20	1,215.24
		For Flange And Clamp Device, Add	*2,020.40*	
22 13 19 26-0015	EA	350 GPM, 700 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A,.	29,723.38	1,417.78
		For Flange And Clamp Device, Add	*2,393.19*	
22 13 19 26-0016	EA	500 GPM, 1,000 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A.	38,451.65	1,620.32
		For Flange And Clamp Device, Add	*2,801.49*	
22 13 19 26-0017		Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor *(22 13 19 26-0001)* Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA	20 GPM, 40 Lb. Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60115A.	3,995.36	246.77
22 13 19 26-0019	EA	35 GPM, 70 Lb. Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60117A.	5,139.77	314.07

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0020	EA	50 GPM, 100 Lb. Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Smith 8150.	8,477.64	358.94
22 13 19 26-0021		**Semi-Automatic Cleaning Epoxy Coated Steel Grease Interceptor** *(22 13 19 26)* Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022		**Standard Semi-Automatic Cleaning Epoxy Coated Steel Grease Interceptor** *(22 13 19 26-0021)* Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA	7 GPM, 14 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA.	3,511.18	89.74
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,337.87*	
22 13 19 26-0024	EA	10 GPM, 20 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA.	4,128.91	201.90
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,415.35*	
22 13 19 26-0025	EA	15 GPM, 30 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA.	4,411.51	224.33
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,546.25*	
22 13 19 26-0026	EA	20 GPM, 40 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA.	5,383.62	246.77
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,671.73*	
22 13 19 26-0027	EA	25 GPM, 50 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA.	6,489.78	269.21
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,742.49*	
22 13 19 26-0028	EA	35 GPM, 70 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA.	6,710.62	314.07
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*1,919.83*	
22 13 19 26-0029	EA	50 GPM, 100 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA.	7,660.25	358.94
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	*2,050.14*	
22 13 19 26-0030		**Low Profile Semi-Automatic Cleaning Epoxy Coated Steel Grease Interceptor** *(22 13 19 26-0021)* Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031	EA	35 GPM, 70 Lb. Capacity Low Profile Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60115A-SA.	9,015.65	314.07
22 13 19 26-0032		**Automatic Cleaning Stainless Steel Grease Interceptor** *(22 13 19 26)*		
22 13 19 26-0033	EA	20 GPM, 69 Lb. Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	7,683.12	246.77
22 13 19 26-0034	EA	25 GPM, 91 Lb. Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	8,935.59	269.21
22 13 19 26-0035	EA	35 GPM, 70 Lb. Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	7,658.35	314.07
22 13 19 26-0036		**Precast Concrete Grease Interceptor** *(22 13 19 26)* Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037	EA	1,000 Gallon Pre-Cast Grease Interceptor	5,389.81	456.64
22 13 19 26-0038	EA	1,250 Gallon Pre-Cast Grease Interceptor	6,156.94	456.64
22 13 19 26-0039	EA	1,500 Gallon Pre-Cast Grease Interceptor	6,988.54	522.04
22 13 19 26-0040	EA	2,000 Gallon Pre-Cast Grease Interceptor	7,973.93	737.25
22 13 19 26-0041	EA	2,500 Gallon Pre-Cast Grease Interceptor	9,002.02	991.92
22 13 19 26-0042	EA	4,000 Gallon Pre-Cast Grease Interceptor	13,475.07	1,305.03
22 13 19 26-0043	EA	5,000 Gallon Pre-Cast Grease Interceptor	17,368.41	2,140.06
22 13 19 26-0044		**Coated Steel Manual Oil Interceptor** *(22 13 19 26)* Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045	EA	10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	5,474.48	341.74
22 13 19 26-0046	EA	15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,385.63	406.07
22 13 19 26-0047	EA	20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	8,942.08	499.63
22 13 19 26-0048	EA	25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	9,711.35	541.21
22 13 19 26-0049	EA	35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	11,669.78	590.58
22 13 19 26-0050	EA	50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	15,409.13	649.71
22 13 19 26-0051	EA	75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	25,932.51	747.79
22 13 19 26-0052	EA	100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	28,332.39	920.07
22 13 19 26-0053	EA	150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	34,812.11	997.25
22 13 19 26-0054	EA	200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	48,759.66	1,196.45
22 13 19 26-0055	EA	250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	56,266.96	1,286.19
22 13 19 26-0056	EA	350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	70,909.22	1,533.86
22 13 19 26-0057	EA	400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	85,739.52	1,256.88
22 13 19 26-0058	EA	500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	101,566.65	1,495.57

22 13 19 33 Backwater Valves *(22 13 19)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 33-0001		Cast Iron Body Terminal Backwater Valves *(22 13 19 33)*		
22 13 19 33-0002	EA	2" Diameter, Cast Iron Body Terminal Backwater Valve	772.56	34.33
22 13 19 33-0003	EA	3" Diameter, Cast Iron Body Terminal Backwater Valve	785.72	43.19
22 13 19 33-0004	EA	4" Diameter, Cast Iron Body Terminal Backwater Valve	1,137.30	57.43
22 13 19 33-0005	EA	6" Diameter, Cast Iron Body Terminal Backwater Valve	3,122.44	78.97
22 13 19 33-0006	EA	8" Diameter, Cast Iron Body Terminal Backwater Valve	3,811.96	103.93
22 13 19 33-0007	EA	10" Diameter, Cast Iron Body Terminal Backwater Valve	11,181.04	128.22
22 13 19 33-0008	EA	12" Diameter, Cast Iron Body Terminal Backwater Valve	12,647.79	166.30
22 13 19 33-0009		Cast Iron Backwater Sewer Line Valve *(22 13 19 33)*		
		Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010	EA	2" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,892.28	81.86
22 13 19 33-0011	EA	3" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,909.64	99.31
22 13 19 33-0012	EA	4" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	3,593.43	128.03
22 13 19 33-0013	EA	6" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	5,080.08	143.47
22 13 19 33-0014	EA	8" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	7,075.18	170.02
22 13 19 33-0015		Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve *(22 13 19 33)*		
		Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016	EA	3" Diameter, Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	5,275.26	129.58
22 13 19 33-0017	EA	4" Diameter, Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	5,339.38	172.29
22 13 19 33-0018	EA	5" Diameter, Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	7,800.80	212.50
22 13 19 33-0019	EA	6" Diameter, Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	7,837.74	236.90
22 13 19 33-0020		Polyvinyl Chloride (PVC) Backwater Sewer Line Valve *(22 13 19 33)*		
		Note: Oatey.		
22 13 19 33-0021	EA	3" Diameter, Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900)	151.95	43.19
22 13 19 33-0022	EA	4" Diameter, Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904)	182.29	57.43
22 13 19 33-0023	EA	6" Diameter, Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908)	528.40	78.97
22 13 19 33-0024		Polyvinyl Chloride (PVC) Extendable Backwater Valves *(22 13 19 33)*		
22 13 19 33-0025	EA	3" Diameter, Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check) Note: Includes valve body, flapper assembly and collar.	357.50	86.38
22 13 19 33-0026	EA	4" Diameter, Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check) Note: Includes valve body, flapper assembly and collar.	476.06	114.86
22 13 19 33-0027	EA	6" Diameter, Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check) Note: Includes valve body, flapper assembly and collar.	818.46	157.93
22 13 19 36		**Air-Admittance Valves** *(22 13 19)*		
22 13 19 36-0001		Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent *(22 13 19 36)*		
22 13 19 36-0002	EA	1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent	176.63	16.75
22 13 19 36-0003	EA	2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent	209.66	16.75
22 13 23		**Sanitary Waste Interceptors** *(22 13)*		
22 13 23 00-0001		Sediment Bucket Solids Interceptors *(22 13 23)*		
22 13 23 00-0002	EA	1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180) Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,364.60	169.42
22 13 23 00-0003	EA	1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184) Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,366.29	169.42
22 13 23 00-0004	EA	1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARIO) Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,918.87	169.42
22 13 23 00-0005	EA	1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARIO) Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,918.87	169.42
22 13 23 00-0006	EA	1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030) Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	2,043.97	169.42
22 13 23 00-0007		Drum Trap, Solids Interceptors *(22 13 23)*		
22 13 23 00-0008		Extra Heavy-Duty Cast Iron Drum Trap *(22 13 23 00-0007)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 23 00-0009	EA	8-1/2" Diameter x 12-3/4" High Solids Interceptor, 1-1/2" Inlet/Outlet, Extra Heavy Cast Iron	1,627.49	167.50
		For Acid Coating Inside Or Outside, Add	*781.93*	
		For Acid Coating Inside And Outside, Add	*941.21*	
22 13 23 00-0010	EA	8-1/2" Diameter x 12-3/4" High Solids Interceptor, 2" Inlet/Outlet, Extra Heavy Cast Iron	1,657.40	191.43
		For Acid Coating Inside Or Outside, Add	*781.93*	
		For Acid Coating Inside And Outside, Add	*941.21*	

22 13 23 00-0011 Aluminum, Solid Interceptor, Drum Trap *(22 13 23 00-0007)*

22 13 23 00-0012	EA	8-1/2" Diameter x 12-3/4" High Solids Interceptor, 1-1/2" Inlet/Outlet, Aluminum	2,214.84	167.50
22 13 23 00-0013	EA	8-1/2" Diameter x 12-3/4" High Solids Interceptor, 2" Inlet/Outlet, Aluminum	2,244.75	191.43

22 13 23 00-0014 Solid Interceptors, Cast Iron With Internal Deep Seal Trap *(22 13 23)*

22 13 23 00-0015	EA	1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel	338.46	57.95
		For Stainless Steel Bucket, Add	*175.00*	
22 13 23 00-0016	EA	2" Inlet Cast Iron Solid Interceptor, Painted Enamel	345.87	61.73
		For Stainless Steel Bucket, Add	*175.00*	

22 13 23 00-0017 Sediment Strainers *(22 13 23)*

22 13 23 00-0018	EA	2" Strainer, Pump Suction Side	206.37	79.02

22 13 29 Sanitary Sewerage Pumps *(22 13)*

Note: Includes extra set of gaskets, bearings and seals.

22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps *(22 13 29)*

22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-Deming Series 4500) *(22 13 29 13)*

Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.

22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps *(22 13 29 13-0001)*

22 13 29 13-0003	EA	1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Diameter, Discharge Pipe, 1,750 RPM	8,107.11	1,435.27
22 13 29 13-0004	EA	3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Diameter, Discharge Pipe, 1,750 RPM	8,428.98	1,435.27
22 13 29 13-0005	EA	1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Diameter, Discharge Pipe, 1,750 RPM	8,750.84	1,435.27
22 13 29 13-0006	EA	1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Diameter, Discharge Pipe, 1,750 RPM	9,057.85	1,435.27

22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps *(22 13 29 13-0001)*

22 13 29 13-0008	EA	3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	8,998.43	1,435.27
22 13 29 13-0009	EA	1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	9,122.23	1,435.27
22 13 29 13-0010	EA	2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	9,208.88	1,435.27
22 13 29 13-0011	EA	3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	9,803.10	1,435.27
22 13 29 13-0012	EA	5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	10,384.94	1,435.27
22 13 29 13-0013	EA	7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	11,276.26	1,435.27
22 13 29 13-0014	EA	10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	12,167.58	1,435.27
22 13 29 13-0015	EA	15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	14,008.43	1,910.02

22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps *(22 13 29 13-0001)*

22 13 29 13-0017	EA	2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	9,618.72	1,435.27
22 13 29 13-0018	EA	3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	9,618.72	1,435.27
22 13 29 13-0019	EA	5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	9,833.20	1,435.27
22 13 29 13-0020	EA	7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	11,497.40	1,435.27
22 13 29 13-0021	EA	10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	11,789.33	1,435.27
22 13 29 13-0022	EA	15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	14,111.12	1,910.02
22 13 29 13-0023	EA	20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	14,853.89	1,910.02

22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less *(22 13 29 13-0001)*

22 13 29 13-0025	EA	2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	544.22	
22 13 29 13-0026	EA	3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	653.44	
22 13 29 13-0027	EA	4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	730.37	
22 13 29 13-0028	EA	5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	743.67	
22 13 29 13-0029	EA	6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	834.84	

22 13 29 13-0030 Float Switches *(22 13 29 13-0001)*

Note: Copper coated floats, brass rods and stops and switch brackets.

22 13 29 13-0031	EA	Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps	489.13	
22 13 29 13-0032	EA	Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps	513.82	
22 13 29 13-0033	EA	Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps	525.22	

22 13 29 13-0034 Square Or Round Steel Sump Covers *(22 13 29 13-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0035	EA	24" Steel Sump Covers, Square Or Round	897.42	47.86
22 13 29 13-0036	EA	30" Steel Sump Covers, Square Or Round	993.48	53.84
22 13 29 13-0037	EA	36" Steel Sump Covers, Square Or Round	1,378.83	71.79
22 13 29 13-0038	EA	40" Steel Sump Covers, Square Or Round	2,002.75	83.76
22 13 29 13-0039	EA	42" Steel Sump Covers, Square Or Round	2,147.36	86.75
22 13 29 13-0040	EA	48" Steel Sump Covers, Square Or Round	2,296.40	89.74
22 13 29 13-0041	EA	54" Steel Sump Covers, Square Or Round	2,925.86	107.68
22 13 29 13-0042	EA	60" Steel Sump Covers, Square Or Round	3,965.80	119.65
22 13 29 13-0043	EA	72" Steel Sump Covers, Square Or Round	5,029.17	149.56
22 13 29 13-0044	EA	84" Steel Sump Covers, Square Or Round	6,395.25	164.51

22 13 29 13-0045 Sludge Pumps *(22 13 29 13)*

22 13 29 13-0046 Vortex Type Sludge Pumps *(22 13 29 13-0045)*

Note: 1750 RPM motor, 230/460V, cast iron casing, cast iron impeller, and single stage.

22 13 29 13-0047	EA	15HP Vortex Type Sludge Pump, 4" Flange Connections (Wemco C)	48,970.55	1,788.25
		For Explosion Proof Motor, Add	*375.00*	
22 13 29 13-0048	EA	30HP Vortex Type Sludge Pump, 6" Flange Connections (Wemco C)	68,670.56	2,299.18
		For Explosion Proof Motor, Add	*750.00*	
22 13 29 13-0049	EA	75HP Vortex Type Sludge Pump, 8" Flange Connections (Wemco C)	88,265.64	3,512.63
		For Explosion Proof Motor, Add	*1,125.00*	
22 13 29 13-0050	EA	20 HP Vortex Type Sludge Pump, 8" Intake And 6" Discharge Flange Connections (Wemco E)	37,302.33	2,043.71
		For Explosion Proof Motor, Add	*500.00*	
22 13 29 13-0051	EA	50HP Vortex Type Sludge Pump, 6" Intake And 11" Discharge Flange Connections (Wemco E)	59,518.78	2,810.10
		For Explosion Proof Motor, Add	*1,250.00*	

22 13 29 13-0052 Polymer Feed Sludge Pumps *(22 13 29 13-0045)*

Note: 230/460 volt

22 13 29 13-0053	EA	115 GPM/100 RPM At 0 PSI, Polymer Feed Sludge Pump, 25 HP, 400 RPM Motor, 8" Flange connections (Moyno 1H115G1CDQAAA)	39,541.39	2,119.53
		Note: Single stage, cast iron casing, alloy steel rotor, and nitrile stator.		
		For 75 HP Motor, Add	*17,750.00*	
22 13 29 13-0054	EA	22 GPM/100 RPM At 0 PSI Polymer Feed Sludge Pump, 5 HP, 500 RPM Motor, 6" Flange Connections (Moyno 1E022G1SSFCAA)	29,053.60	717.28
		Note: Single stage, 316 stainless steel casing and rotor, and fluoro-elastomer stator.		
		For 7-1/2 HP Motor, Add	*2,676.00*	
22 13 29 13-0055	EA	12 GPM/100 RPM At 0 PSI Polymer Feed Sludge Pump, 3 HP, 900 RPM Motor, 4" Flange Connections (Moyno 2E012G1SSFCAA)	26,925.30	717.28
		Note: Two stage. 316 stainless steel casing and rotor, and fluoro-elastomer stator.		
22 13 29 13-0056	EA	8 GPM/100 RPM At 0 PSI Polymer Feed Sludge Pump, 3 HP, 900 RPM Motor, 4" Flange Connections (Moyno 1E008G1CSFDAA)	17,382.58	717.28
		Note: Single stage, cast iron body, 316 stainless steel rotor, and fluoro-elastomer stator.		
		For 7-1/2 HP Motor, Add	*2,676.00*	

22 13 29 13-0057 Centrifuge Pilot Pumps *(22 13 29 13-0045)*

22 13 29 13-0058	EA	Centrifuge Pilot Pump, 325 GPM/100 RPM At 0 PSI, Two Stage, 10" Flange Connections (Moyno 2K345G1CDQAAA)	90,975.61	2,107.58
		Note: 25HP, 900 RPM Motor, 230/460 volt, cast iron body, alloy steel rotor, and nitrile stator.		
		For 75 HP Motor, Add	*15,864.00*	
22 13 29 13-0059	EA	620 GPM/100 RPM At 0 PSI Centrifuge Pilot Pump, Single Stage, 10" Flange Connections (Moyno 1K620G1CDQAAA)	96,072.93	2,107.58
		Note: 25HP, 900 RPM Motor, 230/460 volt, cast iron body, alloy steel rotor, and nitrile stator.		
		For 75 HP Motor, Add	*15,864.00*	

22 13 29 16 Submersible Sewerage Pumps *(22 13 29)*

22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller *(22 13 29 16)*

22 13 29 16-0002 Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller *(22 13 29 16-0001)*

Note: Includes 25' cord.

22 13 29 16-0003	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,601.56	87.06
22 13 29 16-0004	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,707.37	87.06
22 13 29 16-0005	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,674.81	87.06
22 13 29 16-0006	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,830.82	87.06
22 13 29 16-0007	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,830.82	87.06
22 13 29 16-0008	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,936.49	108.82
22 13 29 16-0009	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	2,074.86	108.82
22 13 29 16-0010	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	2,092.50	108.82

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0011		**Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller** *(22 13 29 16-0001)*		
		Note: Includes 20' cord.		
22 13 29 16-0012	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,631.40	87.06
22 13 29 16-0013	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,783.34	87.06
22 13 29 16-0014	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,711.44	87.06
22 13 29 16-0015	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,857.95	87.06
22 13 29 16-0016	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,989.54	87.06
22 13 29 16-0017	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,852.38	108.82
22 13 29 16-0018	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,009.75	108.82
22 13 29 16-0019	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,008.39	108.82
22 13 29 16-0020	EA	1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,300.99	175.42
22 13 29 16-0021	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,433.93	175.42
22 13 29 16-0022	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,456.99	175.42
22 13 29 16-0023	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,462.13	214.41
22 13 29 16-0024	EA	2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,614.07	214.41
22 13 29 16-0025	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,618.14	214.41
22 13 29 16-0026		**Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller** *(22 13 29 16-0001)*		
		Note: Includes 20' cord.		
22 13 29 16-0027	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,935.28	87.06
22 13 29 16-0028	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,193.04	87.06
22 13 29 16-0029	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	2,141.34	108.82
22 13 29 16-0030	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	2,297.35	108.82
22 13 29 16-0031	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,611.65	175.42
22 13 29 16-0032	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,767.66	175.42
22 13 29 16-0033	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,774.15	214.41
22 13 29 16-0034	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,930.15	214.41
22 13 29 16-0035		**Submersible Sewage Pumps With Semi-Open Impeller** *(22 13 29 16)*		
		Note: Includes 25' of cord with pump.		
22 13 29 16-0036	EA	1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,731.15	108.82
22 13 29 16-0037	EA	1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	6,082.92	178.84
22 13 29 16-0038	EA	2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	6,493.72	218.58
22 13 29 16-0039	EA	3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	6,769.90	264.94
22 13 29 16-0040	EA	5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	7,589.11	311.31
22 13 29 16-0041	EA	7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Ironl Housing And Semi-Open Impeller	8,471.87	357.67
22 13 29 16-0042		**Submersible Sewage Pumps, Explosion Proof** *(22 13 29 16)*		
		Note: Includes 25' of cord with pump.		
22 13 29 16-0043	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,540.87	389.97
22 13 29 16-0044	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,871.34	389.97
22 13 29 16-0045	EA	1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,871.34	389.97
22 13 29 16-0046	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,929.17	519.95
22 13 29 16-0047	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,259.64	519.95
22 13 29 16-0048	EA	1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,259.64	519.95

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0049	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,455.57	649.94
22 13 29 16-0050	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,786.04	649.94
22 13 29 16-0051	EA	2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,786.04	649.94
22 13 29 16-0052	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,852.23	779.92
22 13 29 16-0053	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,182.71	779.92
22 13 29 16-0054	EA	3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,182.71	779.92
22 13 29 16-0055	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	10,872.41	909.91
22 13 29 16-0056	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	10,202.88	909.91
22 13 29 16-0057	EA	5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	10,202.88	909.91
22 13 29 16-0058	EA	7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	11,238.39	1,039.90
22 13 29 16-0059	EA	7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	11,238.39	1,039.90

22 13 29 16-0060 Submersible Sewage Pump Accessories *(22 13 29 16)*

22 13 29 16-0061	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump Note: Includes alarm horn, warning light and alarm float switch.	756.35	84.60
22 13 29 16-0062	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump Note: Includes alarm horn, warning light, and alarm float switch.	782.27	84.60
22 13 29 16-0063	EA	Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.	1,563.21	112.80
22 13 29 16-0064	EA	Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump Note: Includes alarm horn and warning light. Control float switches not included.	2,226.84	112.80
22 13 29 16-0065	EA	Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	5,344.23	112.80
22 13 29 16-0066	EA	Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	5,594.38	112.80
22 13 29 16-0067	EA	Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	8,964.29	141.00
22 13 29 16-0068	EA	Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	7,541.26	141.00
22 13 29 16-0069	EA	Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,727.20	141.00
22 13 29 16-0070	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,908.65	141.00
22 13 29 16-0071	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,829.59	141.00
22 13 29 16-0072	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,993.12	141.00
22 13 29 16-0073	EA	Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps Note: Includes alarm horn and warning light. Float switches not included.	3,453.79	141.00
22 13 29 16-0074	EA	Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure Note: Includes alarm horn, warning light and 15' tethered float.	632.56	56.40
22 13 29 16-0075	EA	Variable Level (Clamp Type) Float Switch With 15' Cord Note: Not for use with Intrinsically Safe Control Systems.	113.43	28.20
22 13 29 16-0076	EA	Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only	140.54	28.20
22 13 29 16-0077	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord Note: Not for use with Intrinsically Safe Control Systems.	148.27	28.20
22 13 29 16-0078	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only	159.62	28.20
22 13 29 16-0079	EA	Float Switch Tree With (3) 15' Floats Note: Not for use with Intrinsically Safe Control Systems.	464.97	28.20
22 13 29 16-0080	EA	Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only	543.05	28.20
22 13 29 16-0081	EA	Float Switch Tree And (4) Floats With 15' Cords Note: Not for use with Intrinsically Safe Control Systems.	518.91	28.20
22 13 29 16-0082	EA	Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only	620.68	28.20
22 13 29 16-0083	EA	Float Switch Tree Note: Tree only.	242.69	28.20
22 13 29 16-0084	EA	Adjustable Weight For Float Switch	62.37	14.10
22 13 29 16-0085	EA	Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge Note: Lifting equipment not included.	1,306.94	84.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0086	EA	Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge Note: Lifting equipment not included.	2,056.77	112.80
22 13 29 16-0087	EA	Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge Note: Lifting equipment not included.	2,688.95	141.00
22 13 29 16-0088	EA	Rail And Disconnect System, Stainless Steel Non-Spearking, For 3" Horizontal Discharge	3,047.48	84.60
22 13 29 16-0089	EA	Rail And Disconnect System, Stainless Steel Non-Spearking, For 4" Horizontal Discharge	4,325.80	84.60
22 13 29 16-0090	EA	Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System	363.61	56.40
22 13 29 16-0091	EA	Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems	652.06	70.50
22 13 29 16-0092	EA	Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems	647.90	84.60
22 13 29 16-0093	EA	12' Stainless Steel Lifting Cable	179.11	28.20
22 13 29 16-0094	EA	Disconnect Fitting For 2" Horizontal Discharge Note: Used for shallow systems where guide rails are not necessary.	365.20	28.20

22 13 29 19 Horizontal Sewerage Pumps *(22 13 29)*

22 13 29 19-0001 1-1/2" Solids 1,750 RPM Horizontal Sewage Pumps *(22 13 29 19)*

22 13 29 19-0002	EA	1 HP, Up To 100 GPM Sewage Pump, Horizontal, 2" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	6,276.43	1,435.27
22 13 29 19-0003	EA	1-1/2 HP, Up To 150 GPM Sewage Pump, Horizontal, 2" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	6,336.84	1,435.27
22 13 29 19-0004	EA	2 HP, Up To 150 GPM Sewage Pump, Horizontal, 2" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	6,398.74	1,435.27
22 13 29 19-0005	EA	3 HP, Up To 200 GPM Sewage Pump, Horizontal, 2" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	6,460.64	1,435.27
22 13 29 19-0006	EA	5 HP, Up To 250 GPM Sewage Pump, Horizontal, 2" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	6,909.93	1,435.27
22 13 29 19-0007	EA	7-1/2 HP, Up To 250 GPM Sewage Pump, Horizontal, 2" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	7,203.40	1,435.27
22 13 29 19-0008	EA	10 HP, Up To 250 GPM Sewage Pump, Horizontal, 2" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	7,451.00	1,435.27

22 13 29 19-0009 2" Solids 1,750 RPM Horizontal Sewage Pumps *(22 13 29 19)*

22 13 29 19-0010	EA	2 HP, Up To 150 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	6,909.93	1,435.27
22 13 29 19-0011	EA	3 HP, Up To 200 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	7,129.13	1,435.27
22 13 29 19-0012	EA	5 HP, Up To 400 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	7,327.20	1,435.27
22 13 29 19-0013	EA	7-1/2 HP, Up To 500 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	7,574.79	1,435.27
22 13 29 19-0014	EA	10 HP, Up To 600 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	8,812.74	1,435.27
22 13 29 19-0015	EA	15 HP, Up To 700 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	10,319.34	1,910.02
22 13 29 19-0016	EA	20 HP, Up To 600 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	10,752.62	1,910.02
22 13 29 19-0017	EA	25 HP, Up To 600 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	11,000.21	1,910.02
22 13 29 19-0018	EA	30 HP, Up To 600 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	11,247.80	1,910.02

22 13 29 19-0019 2-1/2" Solids 1,750 RPM Horizontal Sewage Pumps *(22 13 29 19)*

22 13 29 19-0020	EA	2 HP, Up To 150 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	8,105.46	1,435.27
22 13 29 19-0021	EA	3 HP, Up To 200 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	8,369.55	1,435.27
22 13 29 19-0022	EA	5 HP, Up To 400 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	8,565.15	1,435.27
22 13 29 19-0023	EA	7-1/2 HP, Up To 400 GPM Sewage Pump, Horizontal, 3" Discharge 15" x 48" Base Plate, 1,750 RPM	8,812.74	1,435.27
22 13 29 19-0024	EA	10 HP, Up To 500 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	9,171.89	1,435.27
22 13 29 19-0025	EA	15 HP, Up To 500 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	10,554.55	1,910.02
22 13 29 19-0026	EA	20 HP, Up To 700 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	11,928.67	1,910.02
22 13 29 19-0027	EA	25 HP, Up To 700 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	11,990.57	1,910.02
22 13 29 19-0028	EA	30 HP, Up To 800 GPM Sewage Pump, Horizontal, 3" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	12,361.96	1,910.02

22 13 29 19-0029 3" Solids 1,750 RPM Horizontal Sewage Pumps *(22 13 29 19)*

22 13 29 19-0030	EA	2 HP, Up To 100 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	8,490.87	1,435.27
22 13 29 19-0031	EA	3 HP, Up To 250 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	8,891.97	1,435.27
22 13 29 19-0032	EA	5 HP, Up To 400 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	9,293.06	1,435.27
22 13 29 19-0033	EA	7-1/2 HP, Up To 600 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 15" x 48" Base Plate, 1,750 RPM	10,643.68	1,910.02
22 13 29 19-0034	EA	10 HP, Up To 600 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	10,095.26	1,435.27
22 13 29 19-0035	EA	15 HP, Up To 800 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	11,445.87	1,910.02
22 13 29 19-0036	EA	20 HP, Up To 800 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	12,151.50	1,910.02
22 13 29 19-0037	EA	25 HP, Up To 1,000 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 20" x 54" Base Plate, 1,750 RPM	12,857.14	1,910.02
22 13 29 19-0038	EA	30 HP, Up To 1,400 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 22" x 60" Base Plate, 1,750 RPM	13,562.77	1,910.02
22 13 29 19-0039	EA	40 HP, Up To 1,400 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 22" x 60" Base Plate, 1,750 RPM	14,268.40	1,910.02
22 13 29 19-0040	EA	50 HP, Up To 1,400 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 22" x 60" Base Plate, 1,750 RPM	14,466.47	1,910.02
22 13 29 19-0041	EA	60 HP, Up To 1,600 GPM Sewage Pump, Horizontal, 4" Discharge Pipe, 22" x 60" Base Plate, 1,750 RPM	17,042.29	2,876.04

22 13 29 19-0042 >3" Solids Horizontal Sewage Pumps *(22 13 29 19)*

22 13 29 19-0043	EA	5 HP Centrifuge Sewage Pump, IDP Washington #3FNC10 Note: 1200 RPM motor, 230/460 volt, 3" flange suction and 10" flange discharge connections, closed coupled, single stage, bronze impeller, and cast iron casing.	28,082.14	1,075.13
22 13 29 19-0044	EA	10 HP Centrifuge Sewage Pump, IDP Washington #3RL9 Note: 1800 RPM motor, 230/460 volt, 3" flange suction and 13" flange discharge connections, horizontal split case, single stage, bronze impeller, and cast iron casing.	11,802.89	1,313.11
22 13 29 19-0045	EA	15 HP Centrifuge Sewage Pump, IDP Washington #4FN V10 Note: 1800 RPM motor, 230/460 volt, 4" flange suction and 10" flange discharge connections, vertical shafting, single stage, bronze impeller, and cast iron casing.	30,461.69	1,672.88
22 13 29 19-0046	EA	30 HP Centrifuge Sewage Pump, IDP Washington #3RL12 Note: 1800 RPM motor, 230/460 volt, 4" flange suction and 12" flange discharge connections, horizontal split case, single stage, bronze impeller, and cast iron casing.	18,566.01	2,148.84
22 13 29 19-0047	EA	40 HP Centrifuge Sewage Pump, IDP Washington #4RL12 Note: 1800 RPM motor, 230/460 volt, 4" flange suction and 12" flange discharge connections, horizontal split case, single stage, bronze impeller, and cast iron casing.	19,165.00	2,389.08

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 19-0048	EA	50 HP Centrifuge Sewage Pump, IDP Washington #5FN V16 Note: 1800 RPM motor, 230/460 volt, 5" flange suction and 16" flange discharge connections, vertical shafting, single stage, bronze impeller, and cast iron casing.	51,910.37	2,628.38
22 13 29 19-0049	EA	75 HP Centrifuge Sewage Pump, IDP Washington #8FNC16 Note: 1200 RPM motor, 230/460 volt, 8" flange suction and 16" flange discharge connections, closed coupled, single stage, bronze impeller, and cast iron casing.	56,424.54	3,287.02

22 13 29 33 Sewerage Pump Basins and Pits *(22 13 29)*

22 13 29 33-0001 Sewage Sump Pump Basin *(22 13 29 33)*

22 13 29 33-0002 High-Density Polyethylene (HDPE) Basin *(22 13 29 33-0001)*

22 13 29 33-0003	EA	18" Diameter x 24" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	167.08
22 13 29 33-0004	EA	18" Diameter x 30" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	216.84
22 13 29 33-0005	EA	24" Diameter x 30" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	498.56
22 13 29 33-0006	EA	24" Diameter x 36" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	701.50
22 13 29 33-0007	EA	30" Diameter x 36" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	904.45
22 13 29 33-0008	EA	36" Diameter x 36" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	1,052.68

22 13 29 33-0009 Fiberglass Basin *(22 13 29 33-0001)*

22 13 29 33-0010	EA	18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	352.01
22 13 29 33-0011	EA	24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	706.36
22 13 29 33-0012	EA	30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,261.65
22 13 29 33-0013	EA	36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,694.80
22 13 29 33-0014	EA	36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	1,951.70
22 13 29 33-0015	EA	36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub	2,061.37
22 13 29 33-0016	EA	36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub	2,419.87
22 13 29 33-0017	EA	48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	2,809.26

22 13 29 36 Explosion Proof Submersible Sewerage Pumps *(22 13 29)*

22 13 29 36-0001 Wet Pit Submersible Sewer Pump, Explosion Proof Class 1, Div 1 And 2, 4 Pole, 1,750 RPM (Ebara) *(22 13 29 36)*

22 13 29 36-0002 Ebara 3" Model DLFU Wet Pit Submersible Sewage Pump, 2HP - 30HP *(22 13 29 36-0001)*

22 13 29 36-0003	EA	2 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLFU61.5	4,036.42	239.29
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*381.65*	
		For 20' Stainless Steel Chain, Add	*284.75*	
22 13 29 36-0004	EA	2 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLMFU61.5	4,036.42	239.29
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*381.65*	
		For 20' Stainless Steel Chain, Add	*284.75*	
22 13 29 36-0005	EA	3 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLFU62.2	5,289.51	287.15
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0006	EA	3 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLMFU62.2	5,138.20	287.15
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*381.65*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0007	EA	5 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLFU63.7	5,923.90	382.87
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0008	EA	5 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLMFU63.7	6,078.02	382.87
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*381.65*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0009	EA	7.5 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLFU65.5	8,200.32	478.58
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0010	EA	7.5 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLMFU65.5	8,270.38	478.58
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*381.65*	
		For 20' Stainless Steel Chain, Add	*423.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 36-0011	EA	10 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLFU67.5	9,564.67	574.30
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0012	EA	10 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLCMFU67.5	9,522.64	574.30
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*589.90*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0013	EA	15 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLFU611	11,022.88	670.01
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0014	EA	15 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLCMFU611	10,979.45	670.01
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*589.90*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0015	EA	20 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLFU615	12,601.58	765.74
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0016	EA	25 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLFU618	15,539.30	861.45
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0017	EA	30 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 80DLFU622	17,300.14	957.16
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	

22 13 29 36-0018 Ebara 4" Model DLFU Wet Pit Submersible Sewage Pump, 2HP - 30HP *(22 13 29 36-0001)*

22 13 29 36-0019	EA	2 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU61.5	4,893.86	239.29
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*381.65*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0020	EA	3 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU62.2	5,513.68	287.15
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*381.65*	
		For 20' Stainless Steel Chain, Add	*284.75*	
22 13 29 36-0021	EA	3 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLMFU62.2	5,289.51	287.15
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0022	EA	5 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU63.7	6,223.73	382.87
		For 3" x 3" Discharge Elbow, Add	*152.15*	
		For 3" x 4" Discharge Elbow, Add	*184.45*	
		For Guide Rail System, Add	*381.65*	
		For 20' Stainless Steel Chain, Add	*284.75*	
22 13 29 36-0023	EA	5 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFMU63.7	5,923.90	382.87
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0024	EA	7.5 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU65.5	9,322.57	478.58
		For 5" x 4" Discharge Elbow, Add	*285.60*	
		For 5" x 6" Discharge Elbow, Add	*277.95*	
		For Guide Rail System, Add	*1,064.20*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0025	EA	7.5 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLMFU65.5	8,200.32	478.58
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0026	EA	10 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU67.5	10,209.16	574.30
		For 5" x 4" Discharge Elbow, Add	*285.60*	
		For 5" x 6" Discharge Elbow, Add	*277.95*	
		For Guide Rail System, Add	*1,064.20*	
		For 20' Stainless Steel Chain, Add	*423.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 36-0027	EA	10 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLMFU67.5	9,564.67	574.30
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0028	EA	15 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU611	11,609.92	670.01
		For 5" x 4" Discharge Elbow, Add	*285.60*	
		For 5" x 6" Discharge Elbow, Add	*277.95*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0029	EA	15 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLMFU611	11,022.88	670.01
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0030	EA	20 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU615	13,230.65	765.74
		For 5" x 4" Discharge Elbow, Add	*285.60*	
		For 5" x 6" Discharge Elbow, Add	*277.95*	
		For Guide Rail System, Add	*1,064.20*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0031	EA	20 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLMFU615	12,601.58	765.74
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0032	EA	25 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU618	15,958.21	861.45
		For 5" x 4" Discharge Elbow, Add	*285.60*	
		For 5" x 6" Discharge Elbow, Add	*277.95*	
		For Guide Rail System, Add	*1,064.20*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0033	EA	25 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLMFU618	15,539.30	861.45
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0034	EA	30 HP Wet Pit Submersible Sump Pump, 4" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU622	17,705.04	957.16
		For 5" x 4" Discharge Elbow, Add	*285.60*	
		For 5" x 6" Discharge Elbow, Add	*277.95*	
		For Guide Rail System, Add	*1,064.20*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0035	EA	30 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLMFU622	17,300.14	957.16
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0036	EA	30 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU630	26,643.77	957.16
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0037	EA	30 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU637	33,140.46	957.16
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0038	EA	30 HP Wet Pit Submersible Sump Pump, 3" Discharge, 3 Phase, 40 Ft Cable, Ebara 100DLFU645	35,062.71	957.16
		For 4" x 3" Discharge Elbow, Add	*184.45*	
		For 4" x 4" Discharge Elbow, Add	*170.00*	
		For 4" x 6" Discharge Elbow, Add	*214.20*	
		For Guide Rail System, Add	*754.80*	
		For 20' Stainless Steel Chain, Add	*423.30*	

22 13 29 36-0039 Ebara 6" Model DLFU Wet Pit Submersible Sewage Pump, 10 HP - 60 HP

(22 13 29 36-0001)

22 13 29 36-0040	EA	10 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, 40 Ft Cable, Ebara 150DLFU67.5	10,628.07	574.30
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0041	EA	15 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, 40 Ft Cable, Ebara 150DLFU611	12,034.44	670.01
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0042	EA	20 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, 40 Ft Cable, Ebara 150DLFU615	13,614.54	765.74
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 36-0043	EA	25 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, 40 Ft Cable, Ebara 150DLFU618	15,764.87	861.45
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0044	EA	30 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, 40 Ft Cable, Ebara 150DLFU622	18,485.43	957.16
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0045	EA	40 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, 40 Ft Cable, Ebara 150DLFU630	27,485.51	1,052.88
		For Guide Rail System, Add	*2,537.25*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0046	EA	50 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, 40 Ft Cable, Ebara 150DLFU637	33,777.36	1,148.59
		For Guide Rail System, Add	*2,537.25*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0047	EA	60 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, 40 Ft Cable, Ebara 150DLFU645	35,941.70	1,244.32
		For Guide Rail System, Add	*2,537.25*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0048		Ebara 8" Model DLFU Wet Pit Submersible Sewage Pump, 10 HP - 60 HP		
		(22 13 29 36-0001)		
22 13 29 36-0049	EA	10 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, 40 Ft Cable, Ebara 200DLFU675	11,265.55	574.30
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0050	EA	15 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, 40 Ft Cable, Ebara 200DLFU611	12,139.52	670.01
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0051	EA	20 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, 40 Ft Cable, Ebara 200DLFU61	13,627.15	765.74
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0052	EA	25 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, 40 Ft Cable, Ebara 200DLFU618	15,764.87	861.45
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0053	EA	30 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, 40 Ft Cable, Ebara 200DLFU622	18,485.43	957.16
		For 6" x 6" Discharge Elbow, Add	*323.85*	
		For 6" x 8" Discharge Elbow, Add	*471.75*	
		For Guide Rail System, Add	*1,206.15*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0054	EA	40 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, 40 Ft Cable, Ebara 200DLFU630	27,042.78	1,052.88
		For Guide Rail System, Add	*4,195.60*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0055	EA	50 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, 40 Ft Cable, Ebara 200DLFU637	33,987.52	1,148.59
		For Guide Rail System, Add	*4,195.60*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0056	EA	60 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, 40 Ft Cable, Ebara 200DLFU645	36,161.67	1,244.32
		For Guide Rail System, Add	*4,195.60*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0057		Ebara 10" Model DLFU Wet Pit Submersible Sewage Pump, 15 HP - 60 HP		
		(22 13 29 36-0001)		
22 13 29 36-0058	EA	15 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, 40 Ft Cable, Ebara 250DLFU611	13,973.50	670.01
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0059	EA	20 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, 40 Ft Cable, Ebara 250DLBFU615	15,278.99	765.74
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0060	EA	20 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, 40 Ft Cable, Ebara 250DLCFU615	16,259.73	765.74
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0061	EA	25 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, 40 Ft Cable, Ebara 250DLFU618	18,537.56	861.45
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0062	EA	30 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, 40 Ft Cable, Ebara 250DLFU622	20,138.67	957.16
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0063	EA	40 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, 40 Ft Cable, Ebara 250DLFU630	28,935.61	1,052.88
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0064	EA	50 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, 40 Ft Cable, Ebara 250DLFU637	36,191.38	1,148.59
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0065	EA	60 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, 40 Ft Cable, Ebara 250DLFU645	38,366.93	1,244.32
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 36-0066		Ebara 12" Model DLFU Wet Pit Submersible Sewage Pump, 25HP - 60HP *(22 13 29 36-0001)*		
22 13 29 36-0067	EA	25 HP Wet Pit Submersible Sump Pump, 12" Discharge, 3 Phase, 40 Ft Cable, Ebara 300DLFU618	19,400.61	861.45
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0068	EA	30 HP Wet Pit Submersible Sump Pump, 12" Discharge, 3 Phase, 40 Ft Cable, Ebara 300DLFU622	20,969.50	957.16
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0069	EA	40 HP Wet Pit Submersible Sump Pump, 12" Discharge, 3 Phase, 40 Ft Cable, Ebara 300DLFU630	29,816.87	1,052.88
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0070	EA	50 HP Wet Pit Submersible Sump Pump, 12" Discharge, 3 Phase, 40 Ft Cable, Ebara 300DLFU637	37,002.59	1,148.59
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0071	EA	60 HP Wet Pit Submersible Sump Pump, 12" Discharge, 3 Phase, 40 Ft Cable, Ebara 300DLFU645	39,166.93	1,244.32
		For Guide Rail System, Add	*3,562.35*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0072		Wet Pit Submersible Sewer Pump, Explosion Proof Class 1, Div 1 And 2, 4 And 6 Pole, 1,750 And 1,180 RPM (Ebara) *(22 13 29 36)*		
22 13 29 36-0073		Ebara 6", 8", 10", 12" Model DSC Submersible Sewage Pumps, 75 HP - 245 HP *(22 13 29 36-0072)*		
22 13 29 36-0074	EA	75 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, Ebara DSC G0852	114,174.92	1,340.03
		For Guide Rail System, Add	*4,420.00*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0075	EA	75 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, Ebara DSC E1052	124,891.59	1,340.03
		For Guide Rail System, Add	*4,420.00*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0076	EA	100 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, Ebara DSC G0932	128,684.52	1,483.61
		For Guide Rail System, Add	*4,420.00*	
		For 20' Stainless Steel Chain, Add	*423.30*	
22 13 29 36-0077	EA	100 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, Ebara DSC E1052	131,695.38	1,483.61
		For Guide Rail System, Add	*4,420.00*	
		For 20' Stainless Steel Chain, Add	*590.75*	
22 13 29 36-0078	EA	100 HP Wet Pit Submersible Sump Pump, 12" Discharge, 3 Phase, Ebara DSC C1203	115,950.33	1,483.61
		For Guide Rail System, Add	*5,695.00*	
		For 20' Stainless Steel Chain, Add	*590.75*	
22 13 29 36-0079	EA	120 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, Ebara DSC G1012	150,085.90	1,627.18
		For Guide Rail System, Add	*5,270.00*	
		For 20' Stainless Steel Chain, Add	*590.75*	
22 13 29 36-0080	EA	120 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, Ebara DSC E1152	134,078.85	1,627.18
		For Guide Rail System, Add	*5,270.00*	
		For 20' Stainless Steel Chain, Add	*590.75*	
22 13 29 36-0081	EA	145 HP Wet Pit Submersible Sump Pump, 6" Discharge, 3 Phase, Ebara DSC G1012	134,138.51	1,818.61
		For Guide Rail System, Add	*6,375.00*	
		For 20' Stainless Steel Chain, Add	*590.75*	
22 13 29 36-0082	EA	145 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, Ebara DSC F1102	159,356.10	1,818.61
		For Guide Rail System, Add	*6,375.00*	
		For 20' Stainless Steel Chain, Add	*590.75*	
22 13 29 36-0083	EA	200 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, Ebara DSC F1102	181,417.93	2,010.04
		For Guide Rail System, Add	*6,970.00*	
		For 20' Stainless Steel Chain, Add	*845.75*	
22 13 29 36-0084	EA	200 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, Ebara DSC G1102	181,417.93	2,010.04
		For Guide Rail System, Add	*6,970.00*	
		For 20' Stainless Steel Chain, Add	*845.75*	
22 13 29 36-0085	EA	245 HP Wet Pit Submersible Sump Pump, 8" Discharge, 3 Phase, Ebara DSC G1102	187,991.10	2,201.48
		For Guide Rail System, Add	*9,180.00*	
		For 20' Stainless Steel Chain, Add	*845.75*	
22 13 29 36-0086	EA	245 HP Wet Pit Submersible Sump Pump, 10" Discharge, 3 Phase, Ebara DSC E1262	190,653.11	2,201.48
		For Guide Rail System, Add	*9,180.00*	
		For 20' Stainless Steel Chain, Add	*845.75*	
22 13 29 36-0087		Dry Pit Submersible Sewer Pump, Explosion Proof Class 1, Div 1 And 2, 4 Pole, 1,750 RPM (Ebara) *(22 13 29 36)*		
22 13 29 36-0088		Ebara Model DLFU Dry Pit Submersible Sewage Pump, 15 HP - 60 HP *(22 13 29 36-0087)*		
22 13 29 36-0089	EA	3" x 4" 15 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 100x80DDLFU611	17,626.05	670.01
22 13 29 36-0090	EA	3" x 4" 20 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 100x80DDLFU615	19,798.80	765.74
22 13 29 36-0091	EA	3" x 4" 25 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 100x80DDLFU618	21,654.90	861.45
22 13 29 36-0092	EA	3" x 4" 30 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 100x80DDLFU622	23,010.84	957.16
22 13 29 36-0093	EA	4" x 6" 15 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 150x100DDLFU611	18,224.30	670.01
22 13 29 36-0094	EA	4" x 6" 20 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 150x100DDLFU615	19,884.26	765.74
22 13 29 36-0095	EA	4" x 6" 25 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 150x100DDLFU618	22,251.75	861.45
22 13 29 36-0096	EA	4" x 6" 30 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 150x100DDLFU622	23,924.32	957.16
22 13 29 36-0097	EA	4" x 6" 40 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 150x100DDLFU61130	33,788.86	1,052.88
22 13 29 36-0098	EA	4" x 6" 50 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 150x100DDLFU637	39,661.79	1,148.59
22 13 29 36-0099	EA	4" x 6" 60 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 150x100DDLFU645	41,213.87	1,244.32
22 13 29 36-0100	EA	8" x 10" 15 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x150DDLFU611	18,825.35	670.01
22 13 29 36-0101	EA	8" x 10" 20 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x150DDLFU615	20,247.13	765.74
22 13 29 36-0102	EA	8" x 10" 25 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x150DDLFU618	22,408.67	861.45

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 36-0103	EA	8" x 10" 30 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x150DDLFU622	24,484.75	957.16
22 13 29 36-0104	EA	8" x 10" 40 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x150DDLFU630	34,806.03	1,052.88
22 13 29 36-0105	EA	8" x 10" 50 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x150DDLFU637	43,042.54	1,148.59
22 13 29 36-0106	EA	8" x 10" 60 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x150DDLFU645	43,496.19	1,244.32
22 13 29 36-0107	EA	8" X 8" 30 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x200DDLFU630	36,078.48	957.16
22 13 29 36-0108	EA	8" X 8" 50 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x200DDLFU637	43,172.84	1,148.59
22 13 29 36-0109	EA	8" X 8" 60 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 200x200DDLFU645	43,831.04	1,244.32
22 13 29 36-0110	EA	10" x 10" 40 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 250x250DDLFU630	42,933.55	1,052.88
22 13 29 36-0111	EA	10" x 10" 50 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 250x250DDLFU637	43,172.84	1,148.59
22 13 29 36-0112	EA	10" x 10" 60 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 250x250DDLFU645	43,859.06	1,244.32
22 13 29 36-0113	EA	12" X 12" 40 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 300x300DDLFU630	36,872.58	1,052.88
22 13 29 36-0114	EA	12" X 12" 50 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 300x300DDLFU637	43,385.80	1,148.59
22 13 29 36-0115	EA	12" X 12" 60 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara 300x300DDLFU645	43,941.73	1,244.32
22 13 29 36-0116		Dry Pit Submersible Sewer Pump, Explosion Proof Class 1, Div 1 And 2, 4 And 6 Pole, 1,750 And 1,180 RPM (Ebara) *(22 13 29 36)*		
22 13 29 36-0117		Ebara Model DSC Dry Pit Submersible Sewage Pump, 75 HP - 245 HP *(22 13 29 36-0116)*		
22 13 29 36-0118	EA	10" x 6" 75 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC G0852	116,864.86	1,340.03
22 13 29 36-0119	EA	10" x 8" 75 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC E1052	127,601.66	1,340.03
22 13 29 36-0120	EA	10" x 6" 100 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC G0932	132,037.75	1,483.61
22 13 29 36-0121	EA	10" x 8" 100 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC E1052	134,702.41	1,483.61
22 13 29 36-0122	EA	16" x 12" 100 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC C1203	117,474.25	1,483.61
22 13 29 36-0123	EA	10" x 6" 120 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC G1012	153,786.14	1,627.18
22 13 29 36-0124	EA	10" x 8" 120 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC E1152	135,061.35	1,627.18
22 13 29 36-0125	EA	10" x 6" 145 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC G1012	135,539.93	1,818.61
22 13 29 36-0126	EA	10" x 8" 145 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC F1102	160,505.66	1,818.61
22 13 29 36-0127	EA	12" x 8" 200 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC F1102	191,361.44	2,010.04
22 13 29 36-0128	EA	14" x 10" 200 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC G1102	186,949.71	1,938.25
22 13 29 36-0129	EA	12" x 8" 245 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC G1102	191,090.70	2,201.48
22 13 29 36-0130	EA	14" x 10" 245 HP Dry Pit Submersible Sewer Pump, 3 Phase, Ebara DSC E1262	191,090.70	2,201.48

22 13 33 Packaged, Submersible Sewerage Pump Units *(22 13)*

22 13 33 00-0001 Submersible Pumps (Flygt) *(22 13 33)*

22 13 33 00-0002 Wet Pit Submersible Pumps (Flygt) *(22 13 33 00-0001)*

22 13 33 00-0003 Wet Pit Submersible Explosion Proof Pumps (Flygt) *(22 13 33 00-0002)*

22 13 33 00-0004	EA	3 HP, 3" To 4" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3085) Note: FLS and 50' electrical cable	15,663.90	287.15
22 13 33 00-0005	EA	4 HP, 3" To 4" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3085) Note: FLS and 50' electrical cable	16,360.37	335.01
22 13 33 00-0006	EA	5 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3102) Note: FLS and 50' electrical cable	19,570.16	382.87
22 13 33 00-0007	EA	7 HP, 3" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3102) Note: FLS and 50' electrical cable	18,490.99	478.58
22 13 33 00-0008	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3127) Note: FLS and 50' electrical cable	26,008.47	526.44
22 13 33 00-0009	EA	10 To 12 HP, 3" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3127) Note: FLS and 50' electrical cable	30,318.35	574.30
22 13 33 00-0010	EA	12 To 14 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3153) Note: FLS and 50' electrical cable	45,703.34	622.16
22 13 33 00-0011	EA	15 To 17 HP, 3" To 10" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3153) Note: FLS and 50' electrical cable	48,016.99	670.01
22 13 33 00-0012	EA	20 To 23 HP, 3" To 4" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3153) Note: FLS and 50' electrical cable	52,234.33	765.74
22 13 33 00-0013	EA	18 To 25 HP, 4" To 10" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3171) Note: FLS and 50' electrical cable	65,901.35	861.45
22 13 33 00-0014	EA	30 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3171) Note: FLS and 50' electrical cable	72,446.61	957.16
22 13 33 00-0015	EA	34 To 35 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3171) Note: FLS and 50' electrical cable	87,034.34	1,005.03
22 13 33 00-0016	EA	34 To 45 HP, 4" To 12" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3202) Note: FLS and 50' electrical cable	120,354.55	1,052.88
22 13 33 00-0017	EA	50 To 60 HP, 4" To 12" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3202) Note: FLS and 50' electrical cable	135,086.97	1,244.32
22 13 33 00-0018	EA	67 To 72 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3202) Note: FLS and 50' electrical cable	130,517.83	1,292.17
22 13 33 00-0019	EA	60 To 70 HP, 10" To 14" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3301) Note: FLS and 50' electrical cable	166,672.74	1,340.03
22 13 33 00-0020	EA	85 HP, 6" To 12" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3301) Note: FLS and 50' electrical cable	184,253.95	1,435.75
22 13 33 00-0021	EA	105 HP, 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3301) Note: FLS and 50' electrical cable	187,560.74	1,531.46
22 13 33 00-0022	EA	70 To 90 HP, 14" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3315) Note: FLS and 50' electrical cable	164,878.39	1,340.03
22 13 33 00-0023	EA	110 To 140 HP, 10" To 12" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3315) Note: FLS and 50' electrical cable	193,506.51	1,627.18
22 13 33 00-0024	EA	130 To 160 HP, 6" Discharge, Wet Pit Submersible Explosion Proof Pump (Flygt NP3315) Note: FLS and 50' electrical cable	189,450.81	1,818.61

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0025	EA	3 HP, 3" To 4" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3085) Note: FLS and 50' electrical cable	16,642.44	287.15
22 13 33 00-0026	EA	4 HP, 3" To 4" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3085) Note: FLS and 50' electrical cable	17,338.92	335.01
22 13 33 00-0027	EA	5 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3102) Note: FLS and 50' electrical cable	21,218.24	382.87
22 13 33 00-0028	EA	7 HP, 3" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3102) Note: FLS and 50' electrical cable	20,139.07	478.58
22 13 33 00-0029	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3127) Note: FLS and 50' electrical cable	27,666.85	526.44
22 13 33 00-0030	EA	10 To 12 HP, 3" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3127) Note: FLS and 50' electrical cable	31,976.73	574.30
22 13 33 00-0031	EA	12 To 14 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3153) Note: FLS and 50' electrical cable	47,433.83	622.16
22 13 33 00-0032	EA	15 To 17 HP, 3" To 10" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3153) Note: FLS and 50' electrical cable	49,747.47	670.01
22 13 33 00-0033	EA	20 To 23 HP, 3" To 4" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3153) Note: FLS and 50' electrical cable	53,964.82	765.74
22 13 33 00-0034	EA	18 To 25 HP, 4" To 10" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3171) Note: FLS and 50' electrical cable	68,826.70	861.45
22 13 33 00-0035	EA	30 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3171) Note: FLS and 50' electrical cable	75,371.95	957.16
22 13 33 00-0036	EA	34 To 35 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3171) Note: FLS and 50' electrical cable	89,959.68	1,005.03
22 13 33 00-0037	EA	34 To 45 HP, 4" To 12" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3202) Note: FLS and 50' electrical cable	123,279.90	1,052.88
22 13 33 00-0038	EA	50 To 60 HP, 4" To 12" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3202) Note: FLS and 50' electrical cable	138,012.31	1,244.32
22 13 33 00-0039	EA	67 To 72 HP, 4" To 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3202) Note: FLS and 50' electrical cable	134,844.04	1,292.17
22 13 33 00-0040	EA	60 To 70 HP, 10" To 14" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3301) Note: FLS and 50' electrical cable	170,998.95	1,340.03
22 13 33 00-0041	EA	85 HP, 6" To 12" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3301) Note: FLS and 50' electrical cable	188,580.16	1,435.75
22 13 33 00-0042	EA	105 HP, 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3301) Note: FLS and 50' electrical cable	191,886.95	1,531.46
22 13 33 00-0043	EA	70 To 90 HP, 14" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3315) Note: FLS and 50' electrical cable	169,204.60	1,340.03
22 13 33 00-0044	EA	130 To 160 HP, 6" Discharge, Wet Pit Submersible Explosion Proof Pump With Shielded Power Cable (Flygt NP3315) Note: FLS and 50' electrical cable	193,983.03	1,818.61

22 13 33 00-0045 Dry Pit Submersible Vertical Pumps (Flygt) *(22 13 33 00-0001)*

22 13 33 00-0046 Dry Pit Submersible Vertical Non-Explosion Proof Pumps (Flygt) *(22 13 33 00-0045)*

22 13 33 00-0047	EA	3 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3085) Note: FLS and 50' electrical cable. Includes stand and inlet elbow.	15,237.45	287.15
22 13 33 00-0048	EA	4 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3085) Note: FLS and 50' electrical cable. Includes stand and inlet elbow.	15,944.23	335.01
22 13 33 00-0049	EA	5 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3102) Note: FLS and 50' electrical cable. Includes stand and inlet elbow.	18,154.87	382.87
22 13 33 00-0050	EA	7 HP, 3" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3102) Note: FLS and 50' electrical cable. Includes stand and inlet elbow.	18,280.86	478.58
22 13 33 00-0051	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3127) Note: FLS and 50' electrical cable. Includes stand and inlet elbow.	27,211.57	526.44
22 13 33 00-0052	EA	10 To 12 HP, 3" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3127) Note: FLS and 50' electrical cable. Includes stand and inlet elbow.	30,194.75	574.30
22 13 33 00-0053	EA	15 To 17 HP, 3" To 10" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3153) Note: FLS and 50' electrical cable	45,293.54	670.01
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*2,055.98*	
22 13 33 00-0054	EA	20 To 23 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3153) Note: FLS and 50' electrical cable	49,259.55	765.74
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*1,452.37*	
22 13 33 00-0055	EA	18 To 25 HP, 4" To 10" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3171) Note: FLS and 50' electrical cable	61,941.84	861.45
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*3,374.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0056	EA	30 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3171) Note: FLS and 50' electrical cable	66,696.87	957.16
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*2,101.30*	
22 13 33 00-0057	EA	34 To 35 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3171) Note: FLS and 50' electrical cable	82,971.83	1,005.03
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*2,101.30*	
22 13 33 00-0058	EA	34 To 45 HP, 4" To 12" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3202) Note: FLS and 50' electrical cable	111,483.76	1,052.88
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,832.99*	
22 13 33 00-0059	EA	50 To 60 HP, 4" To 12" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3202) Note: FLS and 50' electrical cable	137,769.22	1,244.32
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,832.99*	
22 13 33 00-0060	EA	67 To 72 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3202) Note: FLS and 50' electrical cable	131,832.17	1,292.17
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*2,173.41*	
22 13 33 00-0061	EA	85 HP, 6" To 12" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3301) Note: FLS and 50' electrical cable	146,644.76	1,435.75
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0062	EA	105 HP, 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3301) Note: FLS and 50' electrical cable	151,473.97	1,531.46
		For Inlet Elbow, Add	*4,594.02*	
		For Stand, Add	*4,528.10*	
22 13 33 00-0063	EA	70 To 90 HP, 14" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3315) Note: FLS and 50' electrical cable	149,510.04	1,340.03
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0064	EA	110 To 140 HP, 10" To 12" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump (Flygt NT3315) Note: FLS and 50' electrical cable	190,214.47	1,627.18
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0065	EA	3 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3085) Note: FLS and 50' electrical cable	16,216.00	287.15
22 13 33 00-0066	EA	4 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3085) Note: FLS and 50' electrical cable	16,922.78	335.01
22 13 33 00-0067	EA	5 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3102) Note: FLS and 50' electrical cable	19,813.26	382.87
22 13 33 00-0068	EA	7 HP, 3" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3102) Note: FLS and 50' electrical cable	19,939.24	478.58
22 13 33 00-0069	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3127) Note: FLS and 50' electrical cable	28,869.95	526.44
22 13 33 00-0070	EA	10 To 12 HP, 3" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3127) Note: FLS and 50' electrical cable	31,853.13	574.30
22 13 33 00-0071	EA	12 To 14 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3153) Note: FLS and 50' electrical cable	42,555.51	622.16
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*1,452.37*	
22 13 33 00-0072	EA	15 To 17 HP, 3" To 10" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3153) Note: FLS and 50' electrical cable	47,044.62	670.01
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*2,055.98*	
22 13 33 00-0073	EA	20 To 23 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3153) Note: FLS and 50' electrical cable	51,010.63	765.74
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*1,452.37*	
22 13 33 00-0074	EA	18 To 25 HP, 4" To 10" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3171) Note: FLS and 50' electrical cable	64,856.88	861.45
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*3,374.44*	
22 13 33 00-0075	EA	30 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3171) Note: FLS and 50' electrical cable	69,611.91	957.16
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*2,101.30*	
22 13 33 00-0076	EA	34 To 35 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3171) Note: FLS and 50' electrical cable	85,886.87	1,005.03
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*2,101.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0077	EA	34 To 45 HP, 4" To 12" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3202)	114,398.81	1,052.88
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,832.99*	
22 13 33 00-0078	EA	50 To 60 HP, 4" To 12" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3202)	140,684.26	1,244.32
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,832.99*	
22 13 33 00-0079	EA	67 To 72 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3202)	136,158.38	1,292.17
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*2,173.41*	
22 13 33 00-0080	EA	60 To 70 HP, 10" To 14" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3301)	136,422.23	1,340.03
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0081	EA	85 HP, 6" To 12" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3301)	150,970.97	1,435.75
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0082	EA	105 HP, 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3301)	155,800.18	1,531.46
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*4,594.02*	
		For Stand, Add	*4,528.10*	
22 13 33 00-0083	EA	70 To 90 HP, 14" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3315)	153,836.25	1,340.03
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0084	EA	110 To 140 HP, 10" To 12" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3315)	194,540.68	1,627.18
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0085	EA	130 To 160 HP, 6" Discharge, Dry Pit Submersible Vertical Non-Explosion Proof Pump With Shielded Power Cable (Flygt NT3315)	177,491.93	1,818.61
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,528.10*	
22 13 33 00-0086		**Dry Pit Submersible Vertical Explosion Proof Pumps (Flygt)** *(22 13 33 00-0045)*		
22 13 33 00-0087	EA	3 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3085)	17,085.36	287.15
		Note: FLS and 50' electrical cable. Includes stand and inlet elbow.		
22 13 33 00-0088	EA	4 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3085)	17,792.14	335.01
		Note: FLS and 50' electrical cable. Includes stand and inlet elbow.		
22 13 33 00-0089	EA	7 HP, 3" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3102)	20,128.77	478.58
		Note: FLS and 50' electrical cable. Includes stand and inlet elbow.		
22 13 33 00-0090	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3127)	29,487.98	526.44
		Note: FLS and 50' electrical cable. Includes stand and inlet elbow.		
22 13 33 00-0091	EA	12 To 14 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3153)	43,307.45	622.16
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*1,452.37*	
22 13 33 00-0092	EA	15 To 17 HP, 3" To 10" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3153)	47,796.56	670.01
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*2,055.98*	
22 13 33 00-0093	EA	20 To 23 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3153)	51,762.57	765.74
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*1,452.37*	
22 13 33 00-0094	EA	18 To 25 HP, 4" To 10" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3171)	65,295.68	861.45
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*3,374.44*	
22 13 33 00-0095	EA	34 To 35 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3171)	86,325.67	1,005.03
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*2,101.30*	
22 13 33 00-0096	EA	34 To 45 HP, 4" To 12" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3202)	114,837.61	1,052.88
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,832.99*	
22 13 33 00-0097	EA	50 To 60 HP, 4" To 12" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3202)	141,123.06	1,244.32
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,832.99*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0098	EA	67 To 72 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3202)	135,186.02	1,292.17
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*2,173.41*	
22 13 33 00-0099	EA	60 To 70 HP, 10" To 14" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3301)	139,361.99	1,340.03
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0100	EA	85 HP, 6" To 12" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3301)	153,910.74	1,435.75
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0101	EA	105 HP, 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3301)	158,739.94	1,531.46
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*4,594.02*	
		For Stand, Add	*4,528.10*	
22 13 33 00-0102	EA	70 To 90 HP, 14" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3315)	156,982.03	1,340.03
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0103	EA	110 To 140 HP, 10" To 12" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3315)	197,686.45	1,627.18
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0104	EA	130 To 160 HP, 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump (Flygt NT3315)	180,421.39	1,818.61
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,528.10*	
22 13 33 00-0105	EA	3 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3085)	18,063.91	287.15
		Note: FLS and 50' electrical cable		
22 13 33 00-0106	EA	4 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3085)	18,770.69	335.01
		Note: FLS and 50' electrical cable		
22 13 33 00-0107	EA	5 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3102)	21,661.16	382.87
		Note: FLS and 50' electrical cable		
22 13 33 00-0108	EA	7 HP, 3" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3102)	21,787.15	478.58
		Note: FLS and 50' electrical cable		
22 13 33 00-0109	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3127)	31,146.36	526.44
		Note: FLS and 50' electrical cable		
22 13 33 00-0110	EA	10 To 12 HP, 3" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3127)	34,129.54	574.30
		Note: FLS and 50' electrical cable		
22 13 33 00-0111	EA	12 To 14 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3153)	45,058.53	622.16
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*1,452.37*	
22 13 33 00-0112	EA	15 To 17 HP, 3" To 10" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3153)	49,547.64	670.01
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*2,055.98*	
22 13 33 00-0113	EA	20 To 23 HP, 3" To 4" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3153)	53,513.65	765.74
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*1,452.37*	
22 13 33 00-0114	EA	18 To 25 HP, 4" To 10" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3171)	68,210.73	861.45
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*3,374.44*	
22 13 33 00-0115	EA	30 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3171)	72,965.76	957.16
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*2,589.55*	
		For Stand, Add	*2,101.30*	
22 13 33 00-0116	EA	34 To 35 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3171)	89,240.71	1,005.03
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*2,101.30*	
22 13 33 00-0117	EA	34 To 45 HP, 4" To 12" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3202)	117,752.65	1,052.88
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,832.99*	
22 13 33 00-0118	EA	50 To 60 HP, 4" To 12" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3202)	144,038.10	1,244.32
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,832.99*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0119	EA	67 To 72 HP, 4" To 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3202)	139,512.23	1,292.17
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*2,173.41*	
22 13 33 00-0120	EA	60 To 70 HP, 10" To 14" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3301)	143,688.20	1,340.03
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0121	EA	85 HP, 6" To 12" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3301)	158,236.95	1,435.75
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*3,498.05*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0122	EA	105 HP, 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3301)	163,066.15	1,531.46
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*4,594.02*	
		For Stand, Add	*4,528.10*	
22 13 33 00-0123	EA	70 To 90 HP, 14" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3315)	161,308.24	1,340.03
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0124	EA	110 To 140 HP, 10" To 12" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3315)	202,012.66	1,627.18
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,903.04*	
22 13 33 00-0125	EA	130 To 160 HP, 6" Discharge, Dry Pit Submersible Vertical Explosion Proof Pump With Shielded Power Cable (Flygt NT3315)	184,963.91	1,818.61
		Note: FLS and 50' electrical cable		
		For Inlet Elbow, Add	*8,320.74*	
		For Stand, Add	*4,528.10*	

22 13 33 00-0126 Dry Pit Submersible Horizontal Pumps (Flygt) *(22 13 33 00-0001)*

22 13 33 00-0127 Dry Pit Submersible Horizontal Non-Explosion Proof Pumps (Flygt) *(22 13 33 00-0126)*

22 13 33 00-0128	EA	3 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3085)	13,727.40	287.15
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,656.68*	
22 13 33 00-0129	EA	4 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3085)	12,087.73	335.01
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,656.68*	
22 13 33 00-0130	EA	5 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3102)	16,243.10	382.87
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,533.07*	
22 13 33 00-0131	EA	7 HP, 3" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3102)	15,804.62	478.58
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,533.07*	
22 13 33 00-0132	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3127)	24,220.30	526.44
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,914.19*	
22 13 33 00-0133	EA	10 To 12 HP, 3" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3127)	27,022.19	574.30
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,914.19*	
22 13 33 00-0134	EA	15 To 17 HP, 3" To 10" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3153)	45,291.48	670.01
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0135	EA	20 To 23 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3153)	49,259.55	765.74
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0136	EA	18 To 25 HP, 4" To 10" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3171)	61,941.84	861.45
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	
22 13 33 00-0137	EA	30 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3171)	66,696.87	957.16
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	
22 13 33 00-0138	EA	34 To 35 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3171)	82,975.95	1,005.03
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	
22 13 33 00-0139	EA	34 To 45 HP, 4" To 12" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3202)	111,481.70	1,052.88
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0140	EA	50 To 60 HP, 4" To 12" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3202)	137,769.22	1,244.32
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0141	EA	67 To 72 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3202) Note: FLS and 50' electrical cable	131,832.17	1,292.17
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0142	EA	60 To 70 HP, 10" To 14" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3301) Note: FLS and 50' electrical cable	132,096.02	1,340.03
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0143	EA	85 HP, 6" To 12" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3301) Note: FLS and 50' electrical cable	140,462.40	1,435.75
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0144	EA	105 HP, 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3301) Note: FLS and 50' electrical cable	149,413.87	1,531.46
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0145	EA	70 To 90 HP, 14" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3315) Note: FLS and 50' electrical cable	149,510.04	1,340.03
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0146	EA	110 To 140 HP, 10" To 12" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3315) Note: FLS and 50' electrical cable	190,214.47	1,627.18
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0147	EA	130 To 160 HP, 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump (Flygt NZ3315) Note: FLS and 50' electrical cable	172,949.40	1,818.61
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0148	EA	3 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3085) Note: FLS and 50' electrical cable	14,705.95	287.15
		For Steel Z Stand Kit, Add	*3,656.68*	
22 13 33 00-0149	EA	4 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3085) Note: FLS and 50' electrical cable	13,066.27	335.01
		For Steel Z Stand Kit, Add	*3,656.68*	
22 13 33 00-0150	EA	5 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3102) Note: FLS and 50' electrical cable	17,901.48	382.87
		For Steel Z Stand Kit, Add	*3,533.07*	
22 13 33 00-0151	EA	7 HP, 3" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3102) Note: FLS and 50' electrical cable	17,463.00	478.58
		For Steel Z Stand Kit, Add	*3,533.07*	
22 13 33 00-0152	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3127) Note: FLS and 50' electrical cable	25,878.68	526.44
		For Steel Z Stand Kit, Add	*3,914.19*	
22 13 33 00-0153	EA	10 To 12 HP, 3" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3127) Note: FLS and 50' electrical cable	28,680.57	574.30
		For Steel Z Stand Kit, Add	*3,914.19*	
22 13 33 00-0154	EA	12 To 14 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3153) Note: FLS and 50' electrical cable	42,555.51	622.16
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0155	EA	15 To 17 HP, 3" To 10" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3153) Note: FLS and 50' electrical cable	47,042.56	670.01
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0156	EA	20 To 23 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3153) Note: FLS and 50' electrical cable	51,010.63	765.74
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0157	EA	18 To 25 HP, 4" To 10" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3171) Note: FLS and 50' electrical cable	64,856.88	861.45
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	
22 13 33 00-0158	EA	30 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3171) Note: FLS and 50' electrical cable	69,611.91	957.16
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	
22 13 33 00-0159	EA	34 To 35 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3171) Note: FLS and 50' electrical cable	85,890.99	1,005.03
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0160	EA	34 To 45 HP, 4" To 12" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3202)	114,396.75	1,052.88
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0161	EA	50 To 60 HP, 4" To 12" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3202)	140,684.26	1,244.32
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0162	EA	67 To 72 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3202)	136,158.38	1,292.17
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0163	EA	60 To 70 HP, 10" To 14" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3301)	136,422.23	1,340.03
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0164	EA	85 HP, 6" To 12" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3301)	144,788.61	1,435.75
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0165	EA	105 HP, 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3301)	153,740.08	1,531.46
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0166	EA	70 To 90 HP, 14" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3315)	153,836.25	1,340.03
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0167	EA	110 To 140 HP, 10" To 12" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3315)	194,540.68	1,627.18
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0168	EA	130 To 160 HP, 6" Discharge, Dry Pit Submersible Horizontal Non-Explosion Proof Pump With Shielded Power Cable (Flygt NZ3315)	177,491.93	1,818.61
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	

22 13 33 00-0169 Dry Pit Submersible Horizontal Explosion Proof Pumps (Flygt) *(22 13 33 00-0126)*

22 13 33 00-0170	EA	3 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3085)	15,575.31	287.15
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,656.68*	
22 13 33 00-0171	EA	4 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3085)	13,935.64	335.01
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,656.68*	
22 13 33 00-0172	EA	5 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3102)	18,091.01	382.87
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,533.07*	
22 13 33 00-0173	EA	7 HP, 3" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3102)	17,652.53	478.58
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,533.07*	
22 13 33 00-0174	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3127)	26,496.71	526.44
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,914.19*	
22 13 33 00-0175	EA	10 To 12 HP, 3" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3127)	29,298.60	574.30
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,914.19*	
22 13 33 00-0176	EA	12 To 14 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3153)	43,307.45	622.16
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0177	EA	15 To 17 HP, 3" To 10" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3153)	47,794.50	670.01
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0178	EA	20 To 23 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3153)	51,762.57	765.74
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0179	EA	18 To 25 HP, 4" To 10" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3171)	65,295.68	861.45
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	
22 13 33 00-0180	EA	30 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3171)	70,050.71	957.16
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0181	EA	34 To 35 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3171)	86,329.79	1,005.03
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	
22 13 33 00-0182	EA	34 To 45 HP, 4" To 12" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3202)	114,835.55	1,052.88
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0183	EA	50 To 60 HP, 4" To 12" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3202)	141,123.06	1,244.32
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0184	EA	67 To 72 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3202)	135,186.02	1,292.17
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0185	EA	60 To 70 HP, 10" To 14" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3301)	139,361.99	1,340.03
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0186	EA	85 HP, 6" To 12" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3301)	147,728.38	1,435.75
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0187	EA	105 HP, 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3301)	156,679.84	1,531.46
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0188	EA	70 To 90 HP, 14" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3315)	156,982.03	1,340.03
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0189	EA	110 To 140 HP, 10" To 12" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3315)	197,686.45	1,627.18
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0190	EA	130 To 160 HP, 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump (Flygt NZ3315)	180,421.39	1,818.61
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0191	EA	3 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3085)	16,553.86	287.15
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,656.68*	
22 13 33 00-0192	EA	4 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3085)	14,914.18	335.01
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,656.68*	
22 13 33 00-0193	EA	5 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3102)	19,749.39	382.87
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,533.07*	
22 13 33 00-0194	EA	7 HP, 3" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3102)	19,310.91	478.58
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,533.07*	
22 13 33 00-0195	EA	7.5 To 8.5 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3127)	28,155.09	526.44
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,914.19*	
22 13 33 00-0196	EA	10 To 12 HP, 3" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3127)	30,956.98	574.30
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*3,914.19*	
22 13 33 00-0197	EA	12 To 14 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3153)	45,058.53	622.16
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0198	EA	15 To 17 HP, 3" To 10" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3153)	49,545.58	670.01
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0199	EA	20 To 23 HP, 3" To 4" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3153)	53,513.65	765.74
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*7,333.96*	
		For Horizontal Service Car, Add	*7,303.05*	
22 13 33 00-0200	EA	18 To 25 HP, 4" To 10" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3171)	68,210.73	861.45
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0201	EA	30 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3171)	72,965.76	957.16
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	
22 13 33 00-0202	EA	34 To 35 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3171)	89,244.83	1,005.03
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*6,036.09*	
		For Horizontal Service Car, Add	*9,738.09*	
22 13 33 00-0203	EA	34 To 45 HP, 4" To 12" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3202)	117,750.59	1,052.88
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0204	EA	50 To 60 HP, 4" To 12" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3202)	144,038.10	1,244.32
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0205	EA	67 To 72 HP, 4" To 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3202)	139,512.23	1,292.17
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*8,487.61*	
		For Horizontal Service Car, Add	*11,124.54*	
22 13 33 00-0206	EA	60 To 70 HP, 10" To 14" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3301)	143,688.20	1,340.03
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0207	EA	85 HP, 6" To 12" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3301)	152,054.59	1,435.75
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0208	EA	105 HP, 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3301)	161,006.05	1,531.46
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*11,474.76*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0209	EA	70 To 90 HP, 14" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3315)	161,308.24	1,340.03
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0210	EA	110 To 140 HP, 10" To 12" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3315)	202,012.66	1,627.18
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	
22 13 33 00-0211	EA	130 To 160 HP, 6" Discharge, Dry Pit Submersible Horizontal Explosion Proof Pump With Shielded Power Cable (Flygt NZ3315)	184,963.91	1,818.61
		Note: FLS and 50' electrical cable		
		For Steel Z Stand Kit, Add	*14,060.18*	
		For Horizontal Service Car, Add	*14,317.70*	

22 13 33 00-0212 Submersible Pump Add-On Accessories (Flygt) *(22 13 33 00-0001)*

22 13 33 00-0213	EA	3" Stainless Steel Discharge Connection Package for 2" Guide Rails Note: Includes cast iron discharge connection, stainless steel upper guide bar bracket, stainless steel safety hook, and stainless steel 20' lifting cable	4,326.21
22 13 33 00-0214	EA	4" Stainless Steel Discharge Connection Package for 2" Guide Rails Note: Includes cast iron discharge connection, stainless steel upper guide bar bracket, stainless steel safety hook, and stainless steel 20' lifting cable	4,738.23
22 13 33 00-0215	EA	6" Stainless Steel Discharge Connection Package for 2" Guide Rails Note: Includes cast iron discharge connection, stainless steel upper guide bar bracket, stainless steel safety hook, and stainless steel 20' lifting cable	5,150.25
22 13 33 00-0216	EA	8" Stainless Steel Discharge Connection Package for 2" Guide Rails Note: Includes cast iron discharge connection, stainless steel upper guide bar bracket, stainless steel safety hook, and stainless steel 20' lifting cable	6,489.32
22 13 33 00-0217	EA	6" Stainless Steel Discharge Connection Package for 3" Guide Rails Note: Includes cast iron discharge connection, stainless steel upper guide bar bracket, stainless steel safety hook, and stainless steel 20' lifting cable	12,978.63
22 13 33 00-0218	EA	8" Stainless Steel Discharge Connection Package for 3" Guide Rails Note: Includes cast iron discharge connection, stainless steel upper guide bar bracket, stainless steel safety hook, and stainless steel 20' lifting cable	12,978.63
22 13 33 00-0219	EA	10" Stainless Steel Discharge Connection Package for 3" Guide Rails Note: Includes cast iron discharge connection, stainless steel upper guide bar bracket, stainless steel safety hook, and stainless steel 20' lifting cable	14,317.70
22 13 33 00-0220	EA	12" Stainless Steel Discharge Connection Package for 3" Guide Rails Note: Includes cast iron discharge connection, stainless steel upper guide bar bracket, stainless steel safety hook, and stainless steel 20' lifting cable	18,643.90
22 13 33 00-0221	EA	14" Stainless Steel Discharge Connection Package for 3" Guide Rails Note: Includes cast iron discharge connection, stainless steel upper guide bar bracket, stainless steel safety hook, and stainless steel 20' lifting cable	21,631.05
22 13 33 00-0222	EA	Mini CAS Unit: Thermal and Seal Protection Relay Unit Price	1,060.95

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0223		Submersible Pumps (Vaughan) *(22 13 33)*		
22 13 33 00-0224		Electric Submersible Pumps (Vaughan) *(22 13 33 00-0223)*		
22 13 33 00-0225	EA	5 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3F/3G)	19,158.14	382.87
22 13 33 00-0226	EA	7.5 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3F/3G)	21,597.62	478.58
22 13 33 00-0227	EA	5 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3L/3M)	21,358.33	382.87
22 13 33 00-0228	EA	7.5 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3L/3M)	23,550.60	478.58
22 13 33 00-0229	EA	10 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3L/3M)	25,744.93	574.30
22 13 33 00-0230	EA	15 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3L/3M)	28,305.95	670.01
22 13 33 00-0231	EA	7.5 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3P)	24,772.23	478.58
22 13 33 00-0232	EA	10 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3P)	26,845.02	574.30
22 13 33 00-0233	EA	15 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3P)	29,282.44	670.01
22 13 33 00-0234	EA	20 HP, 1750 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3P)	30,743.37	765.74
22 13 33 00-0235	EA	15 HP, 3510 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3V/3W)	30,015.84	670.01
22 13 33 00-0236	EA	20 HP, 3510 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3V/3W)	31,476.77	765.74
22 13 33 00-0237	EA	25 HP, 3510 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3V/3W)	35,869.22	861.45
22 13 33 00-0238	EA	30 HP, 3510 RPM, 230/460 Volt, 3" Electric Submersible Pump (Vaughan 3V/3W)	37,818.39	957.16
22 13 33 00-0239	EA	5 HP, 870 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	30,152.90	382.87
22 13 33 00-0240	EA	5 HP, 1170 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	25,633.04	382.87
22 13 33 00-0241	EA	5 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	23,006.41	382.87
22 13 33 00-0242	EA	7.5 HP, 870 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	32,223.62	478.58
22 13 33 00-0243	EA	7.5 HP, 1170 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	27,703.76	478.58
22 13 33 00-0244	EA	7.5 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	25,260.48	478.58
22 13 33 00-0245	EA	10 HP, 1170 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	29,409.85	574.30
22 13 33 00-0246	EA	10 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	27,333.27	574.30
22 13 33 00-0247	EA	15 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	29,770.68	670.01
22 13 33 00-0248	EA	20 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	31,355.22	765.74
22 13 33 00-0249	EA	25 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4K/4L)	35,135.82	861.45
22 13 33 00-0250	EA	5 HP, 1170 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	27,588.07	382.87
22 13 33 00-0251	EA	7.5 HP, 870 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	34,178.65	478.58
22 13 33 00-0252	EA	7.5 HP, 1170 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	29,658.79	478.58
22 13 33 00-0253	EA	10 HP, 870 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	35,029.80	574.30
22 13 33 00-0254	EA	10 HP, 1170 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	31,364.88	574.30
22 13 33 00-0255	EA	15 HP, 1170 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	35,512.18	670.01
22 13 33 00-0256	EA	15 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	31,725.72	670.01
22 13 33 00-0257	EA	20 HP, 1170 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	37,339.81	765.74
22 13 33 00-0258	EA	20 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	32,698.40	765.74
22 13 33 00-0259	EA	25 HP, 1170 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	41,489.17	861.45
22 13 33 00-0260	EA	25 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	36,602.61	861.45
22 13 33 00-0261	EA	30 HP, 1750 RPM, 230/460 Volt, 4" Electric Submersible Pump (Vaughan 4S/4T)	40,995.06	957.16
22 13 33 00-0262	EA	5 HP, 870 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	38,704.37	382.87
22 13 33 00-0263	EA	7.5 HP, 870 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	41,263.33	478.58
22 13 33 00-0264	EA	7.5 HP, 1170 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	36,743.48	478.58
22 13 33 00-0265	EA	10 HP, 870 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	41,992.94	574.30
22 13 33 00-0266	EA	10 HP, 1170 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	38,328.02	574.30
22 13 33 00-0267	EA	15 HP, 870 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	50,414.95	670.01
22 13 33 00-0268	EA	15 HP, 1170 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	42,475.32	670.01
22 13 33 00-0269	EA	20 HP, 1170 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	44,181.40	765.74
22 13 33 00-0270	EA	25 HP, 1170 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	48,328.70	861.45
22 13 33 00-0271	EA	25 HP, 1750 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	43,442.14	861.45
22 13 33 00-0272	EA	30 HP, 1170 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	50,523.03	957.16
22 13 33 00-0273	EA	30 HP, 1750 RPM, 230/460 Volt, 6" Electric Submersible Pump (Vaughan 6U/6W/6X)	47,834.60	957.16
22 13 33 00-0274	EA	10 HP, 870 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8N)	45,167.55	574.30
22 13 33 00-0275	EA	15 HP, 870 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8N)	53,591.62	670.01
22 13 33 00-0276	EA	15 HP, 1170 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8N)	45,530.45	670.01
22 13 33 00-0277	EA	20 HP, 870 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8N)	63,237.33	765.74
22 13 33 00-0278	EA	20 HP, 1170 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8N)	47,356.02	765.74
22 13 33 00-0279	EA	25 HP, 870 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8N)	63,964.86	861.45
22 13 33 00-0280	EA	25 HP, 1170 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8N)	51,505.38	861.45
22 13 33 00-0281	EA	30 HP, 870 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8N)	67,135.67	957.16
22 13 33 00-0282	EA	30 HP, 1170 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8N)	53,576.09	957.16
22 13 33 00-0283	EA	30 HP, 1170 RPM, 230/460 Volt, 8" Electric Submersible Pump (Vaughan 8P)	53,576.09	957.16
22 13 33 00-0284	EA	25 HP, 870 RPM, 230/460 Volt, 10" Electric Submersible Pump (Vaughan 10R)	73,249.73	861.45
22 13 33 00-0285	EA	30 HP, 870 RPM, 230/460 Volt, 10" Electric Submersible Pump (Vaughan 10R)	76,420.54	957.16
22 13 33 00-0286	EA	30 HP, 1170 RPM, 230/460 Volt, 10" Electric Submersible Pump (Vaughan 10R)	63,227.66	957.16
22 13 33 00-0287		Horizontal Chopper Pumps (Vaughan) *(22 13 33 00-0223)*		
22 13 33 00-0288	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan HE3F6/HE3G6)	19,642.59	598.23
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0289	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan HE3L6/HE3M6)	20,619.07	598.23
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0290	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan HE3P6)	21,107.32	598.23
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0291	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan HE3V6/HE3W6)	21,107.32	598.23
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0292	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan HE4K6/HE4L6)	21,836.92	717.87
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0293	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan HE4S6/HE4T6)	22,813.41	717.87
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0294	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan HE6U8)	25,127.38	897.34
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0295	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan HE6W8/6X)	25,127.38	897.34
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0296	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan HE3F6/HE3G6)	20,130.83	598.23
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0297	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan HE3L6/HE3M6)	21,107.32	598.23
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0298	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan HE3P6)	21,597.62	598.23
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0299	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan HE3V6/HE3W6)	21,597.62	598.23
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0300	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan HE4K6/HE4L6)	22,325.16	717.87
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0301	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan HE4S6/HE4T6)	23,301.65	717.87
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0302	EA	3" - 6", Ductile Iron And Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan HE6U8)	25,615.63	897.34
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
		For Base, Deduct	*-1,133.04*	
22 13 33 00-0303	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan STHE3F6/STHE3G6)	27,827.36	598.23
22 13 33 00-0304	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan STHE3L6/STHE3M6)	29,049.00	598.23
22 13 33 00-0305	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan STHE3P6)	30,270.64	598.23
22 13 33 00-0306	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan STHE3V6/STHE3W6)	30,270.64	598.23
22 13 33 00-0307	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan STHE4K6/STHE4L6)	30,998.19	717.87
22 13 33 00-0308	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan STHE4S6/STHE4T6)	37,837.72	717.87
22 13 33 00-0309	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan STHE6U8)	46,259.89	897.34
22 13 33 00-0310	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Packing (Vaughan STHE6W8/6X)	46,259.89	897.34
22 13 33 00-0311	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan STHE3F6/STHE3G6)	28,315.61	598.23
22 13 33 00-0312	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan STHE3L6/STHE3M6)	29,537.25	598.23
22 13 33 00-0313	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan STHE3P6)	30,758.89	598.23
22 13 33 00-0314	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan STHE3V6/STHE3W6)	30,758.89	598.23
22 13 33 00-0315	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan STHE4K6/STHE4L6)	31,486.43	717.87
22 13 33 00-0316	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan STHE4S6/STHE4T6)	38,328.02	717.87
22 13 33 00-0317	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan STHE6U8)	46,748.13	897.34
22 13 33 00-0318	EA	3" - 6", Stainless Steel, Horizontal Chopper Pump With Mechanical Seal (Vaughan STHE6W8/6X)	46,748.13	897.34

22 13 33 00-0319 Horizontal End Suction Pumps (Vaughan) *(22 13 33 00-0223)*

22 13 33 00-0320	EA	8" - 12", Upgraded Roller Thrust And Radial Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 8K-HES)	40,267.53	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0321	EA	8" - 12", Upgraded Roller Thrust And Radial Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 8K-HET)	42,710.81	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0322	EA	8" - 12", Standard Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 8P-HE)	49,795.49	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0323	EA	8" - 12", Standard Roller Thrust And Radial Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 8P-HER)	49,795.49	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0324	EA	8" - 12", Upgraded Roller Thrust And Radial Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 8P-HES)	52,238.77	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0325	EA	8" - 12", Standard Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 8N-HE)	49,795.49	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0326	EA	8" - 12", Standard Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 10R-HE)	67,620.11	1,316.11
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,266.11*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0327	EA	8" - 12", Standard Roller Thrust And Radial Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 10R-HER)	67,620.11	1,316.11
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,266.11*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0328	EA	8" - 12", Standard Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 12W-HE)	80,315.09	1,555.40
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,472.12*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0329	EA	8" - 12", Standard Roller Thrust And Radial Bearing, Ductile Iron And Stainless Steel, Horizontal End Suction Pump (Vaughan 12W-HER)	80,315.09	1,555.40
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,472.12*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0330	EA	8" - 12", Upgraded Roller Thrust And Radial Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 8K-HES)	66,165.05	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0331	EA	8" - 12", Upgraded Roller Thrust And Radial Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 8K-HET)	68,608.33	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0332	EA	8" - 12", Standard Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 8P-HE)	84,732.73	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0333	EA	8" - 12", Standard Roller Thrust And Radial Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 8P-HER)	84,732.73	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0334	EA	8" - 12", Upgraded Roller Thrust And Radial Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 8P-HES)	87,176.01	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0335	EA	8" - 12", Standard Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 8N-HE)	84,732.73	1,076.81
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,060.10*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0336	EA	8" - 12", Standard Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 10R-HE)	110,863.67	1,316.11
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,266.11*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0337	EA	8" - 12", Standard Roller Thrust And Radial Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 10R-HER)	110,863.67	1,316.11
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,266.11*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0338	EA	8" - 12", Standard Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 12W-HE)	129,909.94	1,555.40
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,472.12*	
		For Coupling, Deduct	*-412.02*	
22 13 33 00-0339	EA	8" - 12", Standard Roller Thrust And Radial Bearing, Stainless Steel, Horizontal End Suction Pump (Vaughan 12W-HER)	129,909.94	1,555.40
		For Stool, Deduct	*-1,030.05*	
		For No Base, Deduct	*-2,472.12*	
		For Coupling, Deduct	*-412.02*	

22 13 33 00-0340 Vertical Pedestal Chopper Pumps (Vaughan) *(22 13 33 00-0223)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0341	EA	3" - 6", Vertical Pedestal Chopper Pump With Packing (Vaughan PE3F6/PE3G6)	19,642.59	598.23
		For Pedestal, Deduct	*-1,133.04*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0342	EA	3" - 6", Vertical Pedestal Chopper Pump With Packing (Vaughan PE3L6/PE3M6)	20,619.07	598.23
		For Pedestal, Deduct	*-1,133.04*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0343	EA	3" - 6", Vertical Pedestal Chopper Pump With Packing (Vaughan PE3P6)	21,107.32	598.23
		For Pedestal, Deduct	*-1,133.04*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0344	EA	3" - 6", Vertical Pedestal Chopper Pump With Packing (Vaughan PE3V6/PE3W6)	21,107.32	598.23
		For Pedestal, Deduct	*-1,133.04*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0345	EA	3" - 6", Vertical Pedestal Chopper Pump With Packing (Vaughan PE4K6/PE4L6)	21,836.92	717.87
		For Pedestal, Deduct	*-1,290.82*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0346	EA	3" - 6", Vertical Pedestal Chopper Pump With Packing (Vaughan PE4S6/PE4T6)	22,813.41	717.87
		For Pedestal, Deduct	*-1,290.82*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0347	EA	3" - 6", Vertical Pedestal Chopper Pump With Packing (Vaughan PE6U8)	25,615.63	897.34
		For pedestal, Deduct	*-1,648.08*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0348	EA	Ductile Iron And Stainless Steel, Upgraded Roller Thrust And Radial Bearing, Vertical Dry Pit Pedestal (Vaughan 8K-PES)	40,998.87	1,076.81
		For No Stool, Deduct	*-1,030.05*	
		For No Coupling, Deduct	*-412.02*	
		For No Pedestal, Deduct	*-2,472.12*	
22 13 33 00-0349	EA	3" - 6", Vertical Pedestal Chopper Pump With Mechanical Seal (Vaughan PE3F6/PE3G6)	20,130.83	598.23
		For Pedestal, Deduct	*-1,133.04*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0350	EA	Ductile Iron And Stainless Steel, Standard Bearing, Vertical Dry Pit Pedestal (Vaughan 8P-PE)	50,771.98	1,076.81
		For No Stool, Deduct	*-1,030.05*	
		For No Coupling, Deduct	*-412.02*	
		For No Pedestal, Deduct	*-2,472.12*	
		For Stool, Deduct	*-1,030.05*	
22 13 33 00-0351	EA	3" - 6", Vertical Pedestal Chopper Pump With Mechanical Seal (Vaughan PE3L6/PE3M6)	21,107.32	598.23
		For Pedestal, Deduct	*-1,133.04*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0352	EA	Ductile Iron And Stainless Steel, Standard Roller Thrust And Radial Bearing, Vertical Dry Pit Pedestal (Vaughan 8P-PER)	50,771.98	1,076.81
		For No Stool, Deduct	*-1,030.05*	
		For No Coupling, Deduct	*-412.02*	
		For No Pedestal, Deduct	*-2,472.12*	
22 13 33 00-0353	EA	3" - 6", Vertical Pedestal Chopper Pump With Mechanical Seal (Vaughan PE3P6)	21,597.62	598.23
		For Pedestal, Deduct	*-1,133.04*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0354	EA	Ductile Iron And Stainless Steel, Standard Bearing, Vertical Dry Pit Pedestal (Vaughan 8N-PE)	50,771.98	1,076.81
		For No Stool, Deduct	*-1,030.05*	
		For No Coupling, Deduct	*-412.02*	
		For No Pedestal, Deduct	*-2,472.12*	
22 13 33 00-0355	EA	3" - 6", Vertical Pedestal Chopper Pump With Mechanical Seal (Vaughan PE3V6/PE3W6)	21,597.62	598.23
		For Pedestal, Deduct	*-1,133.04*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0356	EA	Ductile Iron And Stainless Steel, Standard Bearing, Vertical Dry Pit Pedestal (Vaughan 10R-PE)	69,330.00	1,316.11
		For No Stool, Deduct	*-1,030.05*	
		For No Coupling, Deduct	*-412.02*	
		For No Pedestal, Deduct	*-2,678.13*	
22 13 33 00-0357	EA	3" - 6", Vertical Pedestal Chopper Pump With Mechanical Seal (Vaughan PE4K6/PE4L6)	22,325.16	717.87
		For Pedestal, Deduct	*-1,290.82*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0358	EA	Ductile Iron And Stainless Steel, Standard Bearing, Vertical Dry Pit Pedestal (Vaughan 12W-PE)	82,024.97	1,555.40
		For No Stool, Deduct	*-1,030.05*	
		For No Coupling, Deduct	*-412.02*	
		For No Pedestal, Deduct	*-2,884.14*	
22 13 33 00-0359	EA	3" - 6", Vertical Pedestal Chopper Pump With Mechanical Seal (Vaughan PE4S6/PE4T6)	23,301.65	717.87
		For Pedestal, Deduct	*-1,290.82*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	
22 13 33 00-0360	EA	3" - 6", Vertical Pedestal Chopper Pump With Mechanical Seal (Vaughan PE6W8/6X)	26,103.87	897.34
		For pedestal, Deduct	*-1,648.08*	
		For Stool, Deduct	*-721.02*	
		For Coupling, Deduct	*-206.01*	

22 13 33 00-0361 Submersible Pump Accessories (Vaughan) *(22 13 33)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0362	EA	Guide Rail Adapter Bracket For 3" Submersible Pump	1,221.64	
22 13 33 00-0363	EA	Discharge Elbow Base For 3" Submersible Pump	1,812.77	68.68
22 13 33 00-0364	EA	Top Guide Rail And Lift Chain Bracket For 3" Submersible Pump	512.48	11.98
22 13 33 00-0365	EA	Intermediate Guide Rail Support Bracket (Every 10') For 3" Sumbersible Pump	488.24	
22 13 33 00-0366	EA	Class 1, Guide Rail Adapter Bracket For 3" Submersible Pump	3,176.67	
22 13 33 00-0367	EA	Class 1, Discharge Elbow Base For 3" Submersible Pump	1,709.88	
22 13 33 00-0368	EA	Class 1, Top Guide Rail And Lift Chain Bracket For 3" Submersible Pump	512.48	11.98
22 13 33 00-0369	EA	Class 1, Intermediate Guide Rail Support Bracket (Every 10') For 3" Submersible Pump	488.24	
22 13 33 00-0370	EA	25', 316 Stainless Steel, Safety Lift Cable With Stainless Steel Clevis For 3" Submersible Pump	854.94	
22 13 33 00-0371	EA	25', Galvanized, Safety Chain With Hook For 3" Submersible Pump	733.40	
22 13 33 00-0372	EA	25", 316 Stainless Steel, Safety Chain With Clevis For 3" Submersible Pump	1,709.88	
22 13 33 00-0373	LF	Galvanized Pipe, Guide Rails For 3" Submersible Pump	98.40	11.98
22 13 33 00-0374	LF	316 Stainless Steel Pipe, Guide Rails For 3" Submersible Pump	182.87	11.98
22 13 33 00-0375	EA	Stainless Steel, Cable Holder Bracket For 3" Submersible Pump	609.79	
22 13 33 00-0376	EA	Guide Rail Adapter Bracket For 4" Submersible Pump	1,466.79	
22 13 33 00-0377	EA	Discharge Elbow Base For 4" Submersible Pump	2,074.68	79.80
22 13 33 00-0378	EA	Top Guide Rail And Lift Chain Bracket For 4" Submersible Pump	512.48	11.98
22 13 33 00-0379	EA	Intermediate Guide Rail Support Bracket (Every 10') For 4" Submersible Pump	512.96	
22 13 33 00-0380	EA	Class 1, Guide Rail Adapter Bracket For 4" Submersible Pump	3,419.77	
22 13 33 00-0381	EA	Class 1, Discharge Elbow Base For 4" Submersible Pump	1,955.03	
22 13 33 00-0382	EA	Class 1, Top Guide Rail And Lift Chain Bracket For 4" Submersible Pump	512.48	11.98
22 13 33 00-0383	EA	Class 1, Intermediate Guide Rail Support Bracket (Every 10') For 4" Submersible Pump	512.96	
22 13 33 00-0384	EA	25', 316 Stainless Steel, Safety Lift Cable With Stainless Steel Clevis For 4" Submersible Pump	854.94	
22 13 33 00-0385	EA	25', Galvanized, Safety Chain With Hook For 4" Submersible Pump	733.40	
22 13 33 00-0386	EA	25", 316 Stainless Steel, Safety Chain With Clevis For 4" Submersible Pump	1,709.88	
22 13 33 00-0387	EA	Galvanized Pipe, Guide Rails For 4" Submersible Pump	74.16	
22 13 33 00-0388	EA	316 Stainless Steel Pipe, Guide Rails For 4" Submersible Pump	182.87	11.98
22 13 33 00-0389	EA	Stainless Steel, Cable Holder Bracket For 4" Submersible Pump	609.79	
22 13 33 00-0390	EA	Portable Stand For 4" Submersible Pump	976.49	
22 13 33 00-0391	EA	Guide Rail Adapter Bracket For 6" Submersible Pump	1,709.88	
22 13 33 00-0392	EA	Discharge Elbow Base For 6" Submersible Pump	2,598.81	103.74
22 13 33 00-0393	EA	Top Guide Rail And Lift Chain Bracket For 6" Submersible Pump	512.48	11.98
22 13 33 00-0394	EA	Intermediate Guide Rail Support Bracket (Every 10') For 6" Sumbersible Pump	537.69	
22 13 33 00-0395	EA	Class 1, Guide Rail Adapter Bracket For 6" Submersible Pump	3,664.92	
22 13 33 00-0396	EA	Class 1, Discharge Elbow Base For 6" Submersible Pump	2,443.28	
22 13 33 00-0397	EA	Class 1, Top Guide Rail And Lift Chain Bracket For 6" Submersible Pump	512.48	11.98
22 13 33 00-0398	EA	Class 1, Intermediate Guide Rail Support Bracket (Every 10') For 6" Submersible Pump	537.69	
22 13 33 00-0399	EA	25', 316 Stainless Steel, Safety Lift Cable With Stainless Steel Clevis For 6" Submersible Pump	854.94	
22 13 33 00-0400	EA	25', Galvanized, Safety Chain With Hook For 6" Submersible Pump	733.40	
22 13 33 00-0401	EA	25", 316 Stainless Steel, Safety Chain With Clevis For 6" Submersible Pump	1,709.88	
22 13 33 00-0402	EA	Galvanized Pipe, Guide Rails For 6" Submersible Pump	74.16	
22 13 33 00-0403	EA	316 Stainless Steel Pipe, Guide Rails For 6" Submersible Pump	182.87	11.98
22 13 33 00-0404	EA	Stainless Steel, Cable Holder Bracket For 6" Submersible Pump	609.79	
22 13 33 00-0405	EA	Portable Stand For 6" Submersible Pump	976.49	
22 13 33 00-0406	EA	Guide Rail Adapter Bracket For 8" Submersible Pump	2,198.13	
22 13 33 00-0407	EA	Discharge Elbow Base For 8" Submersible Pump	3,837.21	114.86
22 13 33 00-0408	EA	Intermediate Guide Rail Support Bracket (Every 10') For 8" Sumbersible Pump	854.94	
22 13 33 00-0409	EA	Class 1, Guide Rail Adapter Bracket For 8" Submersible Pump	4,153.16	
22 13 33 00-0410	EA	Class 1, Discharge Elbow Base For 8" Submersible Pump	3,664.92	
22 13 33 00-0411	EA	Class 1, Top Guide Rail And Lift Chain Bracket For 8" Submersible Pump	757.64	11.98
22 13 33 00-0412	EA	Class 1, Intermediate Guide Rail Support Bracket (Every 10') For 8" Submersible Pump	854.94	
22 13 33 00-0413	EA	25', 316 Stainless Steel, Safety Lift Cable With Stainless Steel Clevis For 8" Submersible Pump	1,831.43	
22 13 33 00-0414	EA	25', Galvanized, Safety Chain With Hook For 8" Submersible Pump	1,466.79	
22 13 33 00-0415	EA	25", 316 Stainless Steel, Safety Chain With Clevis For 8" Submersible Pump	4,153.16	
22 13 33 00-0416	EA	Galvanized Pipe, Guide Rails For 8" Submersible Pump	121.55	
22 13 33 00-0417	EA	316 Stainless Steel Pipe, Guide Rails For 8" Submersible Pump	269.39	11.98
22 13 33 00-0418	EA	Stainless Steel, Cable Holder Bracket For 8" Submersible Pump	609.79	
22 13 33 00-0419	EA	Portable Stand For 8" Submersible Pump	2,198.13	
22 13 33 00-0420	EA	Guide Rail Adapter Bracket For 10" Submersible Pump	2,688.43	
22 13 33 00-0421	EA	Discharge Elbow Base For 10" Submersible Pump	4,342.20	125.63
22 13 33 00-0422	EA	Straight Thru Discharge Base For 10" Submersible Pump	4,153.16	
22 13 33 00-0423	EA	Top Guide Rail And Lift Chain Bracket For 10" Submersible Pump	757.64	12.09
22 13 33 00-0424	EA	Intermediate Guide Rail Support Bracket (Every 10') For 10" Sumbersible Pump	1,629.54	
22 13 33 00-0425	EA	Class 1, Guide Rail Adapter Bracket For 10" Submersible Pump	5,619.95	
22 13 33 00-0426	EA	Class 1, Discharge Elbow Base For 10" Submersible Pump	4,153.16	
22 13 33 00-0427	EA	Class 1, Straight Thru Discharge Base For 10" Submersible Pump	4,153.16	
22 13 33 00-0428	EA	Class 1, Top Guide Rail And Lift Chain Bracket For 10" Submersible Pump	757.64	12.09
22 13 33 00-0429	EA	Class 1, Intermediate Guide Rail Support Bracket (Every 10') For 10" Submersible Pump	1,221.64	
22 13 33 00-0430	EA	25', 316 Stainless Steel, Safety Lift Cable With Stainless Steel Clevis For 10" Submersible Pump	1,831.43	
22 13 33 00-0431	EA	25', Galvanized, Safety Chain With Hook For 10" Submersible Pump	1,466.79	
22 13 33 00-0432	EA	25", 316 Stainless Steel, Safety Chain With Clevis For 10" Submersible Pump	4,153.16	
22 13 33 00-0433	EA	Galvanized Pipe, Guide Rails For 10" Submersible Pump	145.79	12.09
22 13 33 00-0434	EA	316 Stainless Steel Pipe, Guide Rails For 10" Submersible Pump	269.39	12.09
22 13 33 00-0435	EA	Stainless Steel, Cable Holder Bracket For 10" Submersible Pump	609.79	
22 13 33 00-0436	EA	Portable Stand For 10" Submersible Pump	2,198.13	
22 13 33 00-0437	EA	5 - 15 HP, 3" - 6" Pump Belt Drive	2,931.52	
22 13 33 00-0438	EA	20 - 30 HP, 3" - 6" Pump Belt Drive	3,176.67	
22 13 33 00-0439	EA	40 - 50 HP, 3" - 6" Pump Belt Drive	3,419.77	
22 13 33 00-0440	EA	60 - 75 HP, 3" - 6" Pump Belt Drive	3,664.92	
22 13 33 00-0441	EA	100 HP, 3" - 6" Pump Belt Drive	3,910.07	
22 13 33 00-0442	EA	5 - 15 HP, 8" - 12" Pump Belt Drive	4,398.31	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0443	EA	20 - 30 HP, 8" - 12" Pump Belt Drive	4,641.41	
22 13 33 00-0444	EA	40 - 50 HP, 8" - 12" Pump Belt Drive	4,886.56	
22 13 33 00-0445	EA	60 - 75 HP, 8" - 12" Pump Belt Drive	5,129.65	
22 13 33 00-0446	EA	100 HP, 8" - 12" Pump Belt Drive	5,619.95	
22 13 33 00-0447	EA	125 HP, 8" - 12" Pump Belt Drive	6,596.44	
22 13 33 00-0448	EA	150 - 200 HP, 8" - 12" Pump Belt Drive	6,841.59	

22 13 33 00-0449 Submersible Pumps (Zoeller) *(22 13 33)*

22 13 33 00-0450	EA	0.5 HP, 2" Discharge, 1750 RPM, Vortex Impeller With 25' Cord (Zoeller 6282)	3,473.01	335.01
		For Moisture Probe, Add	*271.93*	
		For 3 Phase Adder, Add	*169.96*	
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 50' Cord Adder, Add	*283.26*	
22 13 33 00-0451	EA	1 HP, 2" Discharge, 1750 RPM, Vortex Impeller With 25' Cord (Zoeller 6284)	3,781.56	382.87
		For Moisture Probe, Add	*271.93*	
		For 3 Phase Adder, Add	*169.96*	
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 50' Cord Adder, Add	*283.26*	
22 13 33 00-0452	EA	1 HP, 2" Discharge, 3450 RPM, Vortex Impeller With 25' Cord (Zoeller 6292)	3,665.16	382.87
		For Moisture Probe, Add	*271.93*	
		For 3 Phase Adder, Add	*169.96*	
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 50' Cord Adder, Add	*283.26*	
22 13 33 00-0453	EA	0.5 HP, 2" Discharge, 1750 RPM, Explosion Proof Vortex Impeller With 25' Cord (Zoeller X6282)	6,287.51	335.01
		For 3 Phase Adder, Add	*169.96*	
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 50' Cord Adder, Add	*283.26*	
22 13 33 00-0454	EA	1 HP, 2" Discharge, 1750 RPM, Explosion Proof Vortex Impeller With 25' Cord (Zoeller X6284)	6,978.21	382.87
		For 3 Phase Adder, Add	*169.96*	
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 50' Cord Adder, Add	*283.26*	
22 13 33 00-0455	EA	1 HP, 2" Discharge, 3450 RPM, Explosion Proof Vortex Impeller With 25' Cord (Zoeller X6292)	6,729.56	382.87
		For 3 Phase Adder, Add	*169.96*	
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 50' Cord Adder, Add	*283.26*	
22 13 33 00-0456	EA	1 HP, 3" Discharge, 1750 RPM, 61HD Semi-Open Impeller With 25' Cord (Zoeller 6120)	7,682.97	382.87
22 13 33 00-0457	EA	1.5 HP, 3" Dischrage, 1750 RPM, 61HD Semi-Open Impeller With 25' Cord (Zoeller 6121)	8,270.34	514.48
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For Thermal And Moisture Sensors, Add	*385.24*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0458	EA	2 HP, 3" Discharge, 1750 RPM, 61HD Semi-Open Impeller With 25' Cord (Zoeller 6122)	8,458.87	646.08
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For Thermal And Moisture Sensors, Add	*385.24*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0459	EA	3 HP, 3" Discharge, 1750 RPM, 61HD Semi-Open Impeller With 25' Cord (Zoeller 6123)	9,315.28	777.69
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For Thermal And Moisture Sensors, Add	*385.24*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0460	EA	5 HP, 3" Discharge, 1750 RPM, 61HD Semi-Open Impeller With 25' Cord (Zoeller 6124)	10,458.05	909.30
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For Thermal And Moisture Sensors, Add	*385.24*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0461	EA	7.5 HP, 3" Discharge, 1750 RPM, 61HD Semi-Open Impeller With 25' Cord (Zoeller 6125)	12,958.42	1,040.92
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For Thermal And Moisture Sensors, Add	*385.24*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0462	EA	1 HP, 3" Discharge, 1750 RPM, Explosion Proof, 61HD Semi-Open Impeller With 25' Cord (Zoeller X6120)	9,402.95	382.87

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0463	EA	1.5 HP, 3" Discharge, 1750 RPM, Explosion Proof, 61HD Semi-Open Impeller With 25' Cord (Zoeller X6121)	9,813.56	514.48
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0464	EA	2 HP, 3" Discharge, 1750 RPM, Explosion Proof, 61HD Semi-Open Impeller With 25' Cord (Zoeller X6122)	10,400.93	646.08
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0465	EA	3 HP, 3" Discharge, 1750 RPM, Explosion Proof, 61HD Semi-Open Impeller With 25' Cord (Zoeller X6123)	11,189.97	777.69
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0466	EA	5 HP, 3" Discharge, 1750 RPM, Explosion Proof, 61HD Semi-Open Impeller With 25' Cord (Zoeller Engineered Products X6124)	12,334.80	909.30
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0467	EA	7.5 HP, 3" Discharge, 1750 RPM, Explosion Proof, 61HD Semi-Open Impeller With 25' Cord (Zoeller X6125)	12,958.42	1,040.92
		For Silicone Carbide / Silicone Carbide Seal	*192.62*	
		For Certified Test, Add	*453.22*	
		For 1 Phase Adder, Add	*249.27*	
		For 3" Solids Capacity, Add	*634.51*	
		For Impeller Trim, Add	*339.92*	
		For 50' Cord Adder, Add	*566.53*	
22 13 33 00-0468	EA	115 V/230 V, Variable Level Control Switch With 25' Cord (Zoeller 10-1877)	173.13	29.92
22 13 33 00-0469	EA	115 V/230 V, Variable Level Control Switch With 50' Cord (Zoeller 10-1879)	232.04	29.92
22 13 33 00-0470	EA	30 Volt DC / 125 Volt AC, Intrinsically Safe Variable Control Switch With 25' Cord (Zoeller 10-2066)	213.92	29.92
22 13 33 00-0471	EA	30 Volt DC / 125 Volt AC, Intrinsically Safe Variable Control Switch With 50' Cord (Zoeller 10-2068)	272.83	29.92
22 13 33 00-0472	EA	Stainless Steel, 4 Float Bracket (Zoeller 10-0253)	398.83	75.37
22 13 33 00-0473	EA	2" Z Rail Base Elbow And Disconnect (Zoeller 39-0128)	1,543.13	56.24
22 13 33 00-0474	EA	2" Z Rail Base Elbow And Disconnect With Stainless Steel Upper Rail Bracket (Zoeller 39-0129)	2,009.95	56.24
22 13 33 00-0475	EA	3" Base Elbow And Disconnect (Zoeller 39-0094)	2,634.13	68.19
22 13 33 00-0476	EA	4" Base Elbow And Disconnect (Zoeller 39-0016)	3,533.24	80.16

22 13 33 00-0477 Mounted Motors (Vaughan) *(22 13 33)*

22 13 33 00-0478 C-FACE Mounted Motors (Vaughan) *(22 13 33 00-0477)*

22 13 33 00-0479	EA	5 HP, 1170 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 215TC)	3,646.37	225.60
22 13 33 00-0480	EA	5 HP, 1170 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 215TC)	3,829.72	225.60
22 13 33 00-0481	EA	5 HP, 1750 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 184TC)	2,303.18	225.60
22 13 33 00-0482	EA	5 HP, 1750 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 184TC)	2,511.25	225.60
22 13 33 00-0483	EA	7.5 HP, 1170 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 254TC)	4,918.04	225.60
22 13 33 00-0484	EA	7.5 HP, 1170 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 254TC)	5,859.50	225.60
22 13 33 00-0485	EA	7.5 HP, 1750 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 213TC)	3,146.35	225.60
22 13 33 00-0486	EA	7.5 HP, 1750 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 213TC)	3,453.31	225.60
22 13 33 00-0487	EA	10 HP, 1170 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 256TC)	6,120.93	394.80
22 13 33 00-0488	EA	10 HP, 1170 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 256TC)	7,134.50	394.80
22 13 33 00-0489	EA	10 HP, 1750 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 215TC)	3,593.19	394.80
22 13 33 00-0490	EA	10 HP, 1750 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 215TC)	3,994.91	394.80
22 13 33 00-0491	EA	15 HP, 1170 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 284TC)	8,137.39	394.80
22 13 33 00-0492	EA	15 HP, 1170 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 284TC)	8,773.96	394.80
22 13 33 00-0493	EA	15 HP, 1750 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 254TC)	5,084.32	394.80
22 13 33 00-0494	EA	15 HP, 1750 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 254TC)	5,560.20	394.80
22 13 33 00-0495	EA	15 HP, 3510 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 254TC)	5,059.60	394.80
22 13 33 00-0496	EA	20 HP, 1170 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 286TC)	10,077.62	564.00
22 13 33 00-0497	EA	20 HP, 1170 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 286TC)	11,567.07	564.00
22 13 33 00-0498	EA	20 HP, 1750 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 256TC)	6,278.79	564.00
22 13 33 00-0499	EA	20 HP, 1750 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 256TC)	6,486.86	564.00
22 13 33 00-0500	EA	20 HP, 3510 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 256TC)	6,167.55	564.00
22 13 33 00-0501	EA	25 HP, 1170 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 324TC)	11,926.75	564.00
22 13 33 00-0502	EA	25 HP, 1170 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 324TC)	12,952.68	564.00
22 13 33 00-0503	EA	25 HP, 1750 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 284TC)	7,699.43	564.00
22 13 33 00-0504	EA	25 HP, 1750 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 284TC)	8,016.68	564.00
22 13 33 00-0505	EA	25 HP, 3510 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 284TSC)	7,516.08	564.00
22 13 33 00-0506	EA	30 HP, 1170 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 326TC)	13,951.74	564.00
22 13 33 00-0507	EA	30 HP, 1170 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 326TC)	14,734.58	564.00
22 13 33 00-0508	EA	30 HP, 1750 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 286TC)	9,431.88	564.00
22 13 33 00-0509	EA	30 HP, 1750 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 286TC)	9,763.56	564.00
22 13 33 00-0510	EA	40 HP, 1170 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 364TC)	16,679.93	846.00
22 13 33 00-0511	EA	40 HP, 1170 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 364TC)	21,199.78	846.00
22 13 33 00-0512	EA	40 HP, 1750 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 324TC)	12,343.41	846.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 33 00-0513	EA	50 HP, 1170 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 365TC)	22,809.33	846.00
22 13 33 00-0514	EA	50 HP, 1170 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 365TC)	23,847.62	846.00
22 13 33 00-0515	EA	50 HP, 1750 RPM, High Efficiency, C-FACE Mounted Motor For Direct Drive Only (Vaughan 326TC)	12,817.84	846.00
22 13 33 00-0516	EA	50 HP, 1750 RPM, Chemical Duty, C-FACE Mounted Motor For Direct Drive Only (Vaughan 326TC)	14,074.50	846.00
22 13 33 00-0517		Foot Mounted Motors (Vaughan) *(22 13 33 00-0477)*		
22 13 33 00-0518	EA	5 HP, 1170 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 215T)	3,366.20	225.60
22 13 33 00-0519	EA	5 HP, 1170 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 215T)	3,732.89	225.60
22 13 33 00-0520	EA	5 HP, 1750 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 184T)	2,179.58	225.60
22 13 33 00-0521	EA	5 HP, 1750 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 184T)	2,474.17	225.60
22 13 33 00-0522	EA	7.5 HP, 1170 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 254T)	4,479.24	225.60
22 13 33 00-0523	EA	7.5 HP, 1170 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 254T)	5,468.08	225.60
22 13 33 00-0524	EA	7.5 HP, 1750 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 213T)	2,658.11	225.60
22 13 33 00-0525	EA	7.5 HP, 1750 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 213T)	3,391.50	225.60
22 13 33 00-0526	EA	10 HP, 1170 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 256T)	5,632.68	394.80
22 13 33 00-0527	EA	10 HP, 1170 RPM, hemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 256T)	6,755.44	394.80
22 13 33 00-0528	EA	10 HP, 1750 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 215T)	3,298.59	394.80
22 13 33 00-0529	EA	10 HP, 1750 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 215T)	3,935.16	394.80
22 13 33 00-0530	EA	15 HP, 1170 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 284T)	7,490.52	394.80
22 13 33 00-0531	EA	15 HP, 1170 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 284T)	8,261.00	394.80
22 13 33 00-0532	EA	15 HP, 1750 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 254T)	4,363.29	394.80
22 13 33 00-0533	EA	15 HP, 1750 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 254T)	5,327.41	394.80
22 13 33 00-0534	EA	20 HP, 1170 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 286T)	9,430.75	564.00
22 13 33 00-0535	EA	20 HP, 1170 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 286T)	11,041.74	564.00
22 13 33 00-0536	EA	20 HP, 1750 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 256T)	5,423.85	564.00
22 13 33 00-0537	EA	20 HP, 1750 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 256T)	6,363.26	564.00
22 13 33 00-0538	EA	25 HP, 1170 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 324T)	11,108.89	564.00
22 13 33 00-0539	EA	25 HP, 1170 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 324T)	12,256.37	564.00
22 13 33 00-0540	EA	25 HP, 1750 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 284T)	6,636.42	564.00
22 13 33 00-0541	EA	25 HP, 1750 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 284T)	7,907.50	564.00
22 13 33 00-0542	EA	30 HP, 1170 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 326T)	12,950.53	564.00
22 13 33 00-0543	EA	30 HP, 1170 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 326T)	14,038.26	564.00
22 13 33 00-0544	EA	30 HP, 1750 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 286T)	7,880.63	564.00
22 13 33 00-0545	EA	30 HP, 1750 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 286T)	9,359.78	564.00
22 13 33 00-0546	EA	40 HP, 1170 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 364T)	16,521.30	846.00
22 13 33 00-0547	EA	40 HP, 1170 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 364T)	19,110.84	846.00
22 13 33 00-0548	EA	40 HP, 1750 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 324T)	10,413.10	846.00
22 13 33 00-0549	EA	40 HP, 1750 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 324T)	11,401.95	846.00
22 13 33 00-0550	EA	50 HP, 1170 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 365T)	21,600.05	846.00
22 13 33 00-0551	EA	50 HP, 1170 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 365T)	22,405.55	846.00
22 13 33 00-0552	EA	50 HP, 1750 RPM, High Efficiency, Foot Mount Motor For Belt Drive Only (Vaughan 326T)	12,475.86	846.00
22 13 33 00-0553	EA	50 HP, 1750 RPM, Chemical Duty, Foot Mount Motor For Belt Drive Only (Vaughan 326T)	13,281.36	846.00
22 13 33 00-0554		Submersible Pumps (Hayward Gordon) *(22 13 33)*		
22 13 33 00-0555		Chopper Pumps (Hayward Gordon) *(22 13 33 00-0554)*		
22 13 33 00-0556	EA	5 HP, 460 Volt, 60 Hertz, 28' Total Dynamic Head, 180 GPM, 1510 RPM, 3 Phase, Submersible Chopper Pump (Hayward Gordon)	34,330.78	382.87
22 13 33 00-0557	EA	20 HP, 460 Volt, 60 Hertz, 60' Total Dynamic Head, 600 GPM, 1570 RPM, 3 Phase Submersible Chopper Pump (Hayward Gordon 20-60-600-1570SP)	58,258.07	765.74
22 13 33 00-0558	EA	75 HP, 460 Volt, 60 Hertz, 29' Total Dynamic Head, 5500 GPM, 790 RPM, 3 Phase Submersible Chopper Pump (Hayward Gordon 75-29-5500-790SP)	109,562.49	1,292.17
22 13 33 00-0559		Recessed Impeller Centrifugal Pumps (Hayward Gordon) *(22 13 33 00-0554)*		
22 13 33 00-0560	EA	40 HP, 460 Volt, 60 Hertz, 65' Total Dynamic Head, 450 GPM, 1460 RPM, 3 Phase, Submersible Recessed Impeller Centrifugal Pump (Hayward Gordon)	49,602.48	1,052.88
22 13 33 00-0561	EA	50 HP, 460 Volt, 60 Hertz, 65' Total Dynamic Head, 1,000 GPM, 1550 RPM, 3 Phase, Submersible Recessed Impeller Centrifugal Pump (Hayward Gordon)	55,282.81	1,244.32
22 13 33 00-0562	EA	100 HP, 460 Volt, 60 Hertz, 130' Total Dynamic Head, 900 GPM, 1430 RPM, 3 Phase Submersible Recessed Impeller Centrifugal Pump (Hayward Gordon 100-130-900-1430SP)	90,939.99	1,531.46
22 13 33 00-0563	EA	100 HP, 460 Volt, 60 Hertz, 53' To 132' Total Dynamic Head, 952 GPM, 1450 RPM, 3 Phase Submersible Recessed Impeller Centrifugal Pump (Hayward Gordon)	90,939.99	1,531.46
22 13 33 00-0564		Screw Centrifugal Pumps (Hayward Gordon) *(22 13 33 00-0554)*		
22 13 33 00-0565	EA	25 HP, 460 Volt, 60 Hertz, 67' Total Dynamic Head, 900 GPM, 1700 RPM, 3 Phase Submersible Screw Centrifugal Pump (Hayward Gordon)	46,960.80	861.45
22 13 33 00-0566	EA	60 HP, 460 Volt, 60 Hertz, 29' Total Dynamic Head, 1500 GPM, 1460 RPM, 3 Phase Submersible Screw Centrifugal Pump (Hayward Gordon)	67,396.20	1,244.32
22 13 33 00-0567	EA	75 HP, 460 Volt, 60 Hertz, 67' Total Dynamic Head, 1440 GPM, 1510 RPM, 3 Phase Submersible Screw Centrifugal Pump (Hayward Gordon)	76,394.88	1,292.17
22 13 33 00-0568	EA	75 HP, 460 Volt, 60 Hertz, 29' Total Dynamic Head, 5500 GPM, 970 RPM, 3 Phase Submersible Screw Centrifugal Pump (Hayward Gordon 75-29-5500-970SP)	104,226.83	1,292.17
22 13 33 00-0569	EA	100 HP, 460 Volt, 60 Hertz, 44' Total Dynamic Head, 4514 GPM, 1030 RPM, 3 Phase Submersible Screw Centrifugal Pump (Hayward Gordon)	103,589.00	1,531.46
22 13 33 00-0570	EA	100 HP, 460 Volt, 60 Hertz, 132' Total Dynamic Head, 900 GPM, 1690 RPM, 3 Phase Submersible Screw Centrifugal Pump (Hayward Gordon)	78,332.18	1,531.46

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 36		**Packaged, Wastewater Pump Units** *(22 13)*		
22 13 36 00-0001		Dri-Prime Pumps With Diesel Engine; Godwin Pumps, CD Series With PrimeGuard *(22 13 36)*		
22 13 36 00-0002	EA	4" Trailer Mounted Trash Pump (Godwin Pumps CD100M)	40,653.73	
22 13 36 00-0003	EA	4" Skid Mounted Trash Pump (Godwin Pumps CD100M)	39,228.88	
22 13 36 00-0004	EA	6" Trailer Mounted Trash Pump (Godwin Pumps CD150M)	52,496.87	
22 13 36 00-0005	EA	6" Skid Mounted Trash Pump (Godwin Pumps CD150M)	50,627.70	
22 13 36 00-0006	EA	8" Trailer Mounted Trash Pump (Godwin Pumps CD225M)	74,183.74	
22 13 36 00-0007	EA	8" Skid Mounted Trash Pump (Godwin Pumps CD225M)	71,242.11	
22 13 36 00-0008		Dri-Prime Pumps Critically Silenced With Diesel Engine; Godwin Pumps, CD Series With PrimeGuard *(22 13 36)*		
22 13 36 00-0009	EA	4" Critically Silenced Trailer Mounted Trash Pump (Godwin Pumps CD100M)	61,520.93	
22 13 36 00-0010	EA	4" Critically Silenced Skid Mounted Trash Pump (Godwin Pumps CD100M)	55,752.58	
22 13 36 00-0011	EA	6" Critically Silenced Trailer Mounted Trash Pump (Godwin Pumps CD150M)	73,747.09	
22 13 36 00-0012	EA	6" Critically Silenced Skid Mounted Trash Pump (Godwin Pumps CD150M)	68,024.70	
22 13 36 00-0013	EA	8" Critically Silenced Trailer Mounted Trash Pump (Godwin Pumps CD225M)	93,243.06	
22 13 36 00-0014	EA	8" Critically Silenced Skid Mounted Trash Pump (Godwin Pumps CD225M)	85,161.24	
22 13 36 00-0015		Heidra Hydraulic Submersible Pumps With Diesel Engine; Godwin Pumps, HS Series With PrimeGuard *(22 13 36)*		
		Note: Includes pump, pumpend, and hoses.		
22 13 36 00-0016	EA	4" Trailer Mounted Hydraulic Submersible Pump (Godwin Pumps HS100MR)	46,543.63	
		Note: Includes pump, pumpend, two 3/4" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0017	EA	4" Skid Mounted Hydraulic Submersible Pump (Godwin Pumps HS100MR)	45,197.19	
		Note: Includes pump, pumpend, two 3/4" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0018	EA	6" Trailer Mounted Hydraulic Submersible Pump (Godwin Pumps HS150MR)	62,709.31	
		Note: Includes pump, pumpend, two 1" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0019	EA	6" Skid Mounted Hydraulic Submersible Pump (Godwin Pumps HS150MR)	60,668.74	
		Note: Includes pump, pumpend, two 1" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0020	EA	8" Trailer Mounted Hydraulic Submersible Pump (Godwin Pumps HS200MR)	115,680.55	
		Note: Includes pump, pumpend, two 1-1/4" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0021	EA	8" Skid Mounted Hydraulic Submersible Pump (Godwin Pumps HS200MR)	108,998.52	
		Note: Includes pump, pumpend, two 1-1/4" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0022		Heidra Hydraulic Submersible Pumps Critically Silenced With Diesel Engine; Godwin Pumps, HS Series With PrimeGuard *(22 13 36)*		
		Note: Includes pump, pumpend, and hoses.		
22 13 36 00-0023	EA	4" Trailer Mounted Hydraulic Submersible Pump Critically Silenced (Godwin Pumps HS100MR)	73,422.31	
		Note: Includes pump, pumpend, two 3/4" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0024	EA	4" Skid Mounted Hydraulic Submersible Pump Critically Silenced (Godwin Pumps HS100MR)	67,576.58	
		Note: Includes pump, pumpend, two 3/4" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0025	EA	6" Trailer Mounted Hydraulic Submersible Pump Critically Silenced (Godwin Pumps HS150MR)	92,138.71	
		Note: Includes pump, pumpend, two 1" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0026	EA	6" Skid Mounted Hydraulic Submersible Pump Critically Silenced (Godwin Pumps HS150MR)	83,315.74	
		Note: Includes pump, pumpend, two 1" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0027	EA	8" Trailer Mounted Hydraulic Submersible Pump Critically Silenced (Godwin Pumps HS200MR)	144,532.90	
		Note: Includes pump, pumpend, two 1-1/4" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0028	EA	8" Skid Mounted Hydraulic Submersible Pump Critically Silenced (Godwin Pumps HS200MR)	133,535.56	
		Note: Includes pump, pumpend, two 1-1/4" x 50' hoses and one 1/2" x 50' hose.		
22 13 36 00-0029		Auto Start Controls Accessories *(22 13 36)*		
22 13 36 00-0030	EA	Two Float Assembly for Godwin PrimeGuard Controller	546.96	
22 13 36 00-0031	EA	Level Transducer for Godwin PrimeGuard Controller	2,745.52	
22 13 36 00-0032	EA	Pressure Transducer for Godwin PrimeGuard Controller	957.56	
22 13 36 00-0033	EA	3016D/4045D Auto Throttle for Godwin PrimeGuard Controller	1,601.04	
22 14		**Facility Storm Drainage** *(22 10)*		
22 14 13		**Facility Storm Drainage Piping** *(22 14)*		
		See CSI section 22 13 16 00-0000 for storm drainage piping.		
22 14 26		**Facility Storm Drains** *(22 14)*		
22 14 26 13		**Roof Drains** *(22 14 26)*		
22 14 26 13-0001		Cast Iron Roof Drains *(22 14 26 13)*		
22 14 26 13-0002		Cast Iron Roof Drains With Large Polypropylene Dome *(22 14 26 13-0001)*		
		Note: Dome free area is 124 square inches.		
22 14 26 13-0003	EA	15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,037.70	199.45
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Bronze Dome, Add	*448.80*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0004	EA	15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,137.40	239.29
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Bronze Dome, Add	*448.80*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0005	EA	15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,237.11	299.11
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Bronze Dome, Add	*448.80*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0006	EA	15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,661.10	358.94
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Bronze Dome, Add	*448.80*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0007	EA	15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,710.94	398.78
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Bronze Dome, Add	*448.80*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0008	EA	15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome	2,023.16	418.76
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Bronze Dome, Add	*448.80*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0009	EA	15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome	2,738.02	433.72
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Bronze Dome, Add	*448.80*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	

22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint *(22 14 26 13-0001)*

Note: With polypropylene dome. Dome free area is 124 square inches.

22 14 26 13-0011	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome	1,606.90	199.45
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0012	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome	1,746.36	239.29
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0013	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome	1,923.50	299.11
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0014	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome	2,659.29	358.94
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0015	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome	2,853.52	398.78
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	

22 14 26 13-0016 Cast Iron Roof Drains With Flat Bronze Promenade Top *(22 14 26 13-0001)*

22 14 26 13-0017	EA	14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top	2,223.24	199.45
		For Galvanized Iron Parts, Add	*480.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0018	EA	14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top	2,322.94	239.29
		For Galvanized Iron Parts, Add	*480.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0019	EA	14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top	2,422.65	299.11
		For Galvanized Iron Parts, Add	*480.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0020	EA	14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top	2,829.08	358.94
		For Galvanized Iron Parts, Add	*480.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0021	EA	14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top	2,878.92	398.78
		For Galvanized Iron Parts, Add	*480.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	

22 14 26 13-0022 Cast Iron Scupper Drain With L-Shaped Bronze Grate *(22 14 26 13-0001)*

22 14 26 13-0023	EA	Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate	1,437.28	79.80
		For Galvanized Cast Iron Parts, Add	*128.00*	
		For Vandal Proof Grate, Add	*33.00*	
22 14 26 13-0024	EA	Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate	1,477.16	99.66
		For Galvanized Cast Iron Parts, Add	*128.00*	
		For Vandal Proof Grate, Add	*33.00*	
22 14 26 13-0025	EA	Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate	1,495.29	108.76
		For Galvanized Cast Iron Parts, Add	*128.00*	
		For Vandal Proof Grate, Add	*33.00*	
22 14 26 13-0026	EA	Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate	2,103.94	144.17
		For Galvanized Iron Parts, Add	*258.00*	
		For Vandal Proof Grate, Add	*33.00*	
22 14 26 13-0027	EA	Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate	2,167.54	176.00
		For Galvanized Iron Parts, Add	*258.00*	
		For Vandal Proof Grate, Add	*33.00*	

22 14 26 13-0028 Cast Iron Roof Drain With Flat Cast Iron Grate *(22 14 26 13-0001)*

22 14 26 13-0029	EA	9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top	1,138.69	199.45
		For Galvanized Cast Iron Parts, Add	*144.00*	
		For Deck Clamp Assembly, Add	*80.40*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*93.60*	
22 14 26 13-0030	EA	9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top	1,238.39	239.29
		For Galvanized Cast Iron Parts, Add	*144.00*	
		For Deck Clamp Assembly, Add	*80.40*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*93.60*	
22 14 26 13-0031	EA	9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top	1,338.10	299.11
		For Galvanized Cast Iron Parts, Add	*144.00*	
		For Deck Clamp Assembly, Add	*80.40*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*93.60*	

22 14 26 13-0032 Cast Iron Roof Drains With Large Cast Iron Dome *(22 14 26 13-0001)*

22 14 26 13-0033	EA	15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome	1,226.50	199.45
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0034	EA	15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome	1,326.20	239.29
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0035	EA	15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome	1,425.91	299.11
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0036	EA	15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome	1,849.91	358.94
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0037	EA	15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome	1,899.75	398.78
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0038	EA	15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome	2,211.97	418.76
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0039	EA	15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome	2,926.83	433.72
		For Galvanized Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	

22 14 26 13-0040 Aluminum Roof Drains *(22 14 26 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0041		Aluminum Dome Roof Drains *(22 14 26 13-0040)*		
22 14 26 13-0042	EA	15" Diameter Roof Drain With 2" Outlet, Aluminum Dome	1,259.44	199.45
		For Galvanized Cast Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0043	EA	15" Diameter Roof Drain With 3" Outlet, Aluminum Dome	1,359.14	239.29
		For Galvanized Cast Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0044	EA	15" Diameter Roof Drain With 4" Outlet, Aluminum Dome	1,458.85	299.11
		For Galvanized Cast Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0045	EA	15" Diameter Roof Drain With 6" Outlet, Aluminum Dome	1,932.68	398.42
		For Galvanized Cast Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0046	EA	15" Diameter Roof Drain With 8" Outlet, Aluminum Dome	2,245.14	418.76
		For Galvanized Cast Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0047	EA	15" Diameter Roof Drain With 10" Outlet, Aluminum Dome	2,959.76	433.72
		For Galvanized Cast Iron Parts, Add	*518.00*	
		For Deck Clamp Assembly, Add	*130.00*	
		For Drain Receiver, Add	*147.00*	
		For 4" Fixed Extension Collar, Cast Iron, Add	*357.00*	
22 14 26 13-0048		Retrofit Roof Drains *(22 14 26 13)*		
22 14 26 13-0049		Retrofit Copolymer Roof Drains With Copolymer Strainer Dome *(22 14 26 13-0048)*		
22 14 26 13-0050	EA	Copolymer Retrofit 3" Roof Drains, With Copolymer Dome	911.75	239.29
22 14 26 13-0051	EA	Copolymer Retrofit 4" Roof Drains, With Copolymer Dome	1,027.35	299.11
22 14 26 13-0052	EA	Copolymer Retrofit 5" Roof Drains, With Copolymer Dome	1,240.49	358.94
22 14 26 13-0053	EA	Copolymer Retrofit 6" Roof Drains, With Copolymer Dome	1,353.90	398.42
22 14 26 13-0054		Retrofit Copolymer Roof Drains With Cast Aluminum Strainer Dome *(22 14 26 13-0048)*		
22 14 26 13-0055	EA	Copolymer Retrofit Drain, 3", With Cast Aluminum Dome	1,054.79	239.29
22 14 26 13-0056	EA	Copolymer Retrofit Drain, 4", With Cast Aluminum Dome	1,164.04	299.11
22 14 26 13-0057	EA	Copolymer Retrofit Drain, 5", With Cast Aluminum Dome	1,386.71	358.94
22 14 26 13-0058	EA	Copolymer Retrofit Drain, 6", With Cast Aluminum Dome	1,455.62	398.42
22 14 26 13-0059		Retrofit Roof Aluminum Drains With Cast Aluminum Strainer Dome *(22 14 26 13-0048)*		
22 14 26 13-0060	EA	Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome	918.11	239.29
		For Copolymer Strainer Dome, Deduct	*-24.00*	
22 14 26 13-0061	EA	Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome	1,033.71	299.11
		For Copolymer Strainer Dome, Deduct	*-24.00*	
22 14 26 13-0062	EA	Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome	1,246.85	358.94
		For Copolymer Strainer Dome, Deduct	*-24.00*	
22 14 26 13-0063	EA	Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome	1,309.40	398.42
		For Copolymer Strainer Dome, Deduct	*-24.00*	
22 14 26 13-0064		Bronze Downspout Nozzles *(22 14 26 13)*		
22 14 26 13-0065	EA	2" Outlet, Bronze Roof Drain Downspout Nozzle	550.22	119.65
22 14 26 13-0066	EA	3" Outlet, Bronze Roof Drain Downspout Nozzle	550.22	119.65
22 14 26 13-0067	EA	4" Outlet, Bronze Roof Drain Downspout Nozzle	550.22	119.65
22 14 26 13-0068	EA	5" Outlet, Bronze Roof Drain Downspout Nozzle	858.93	149.56
22 14 26 13-0069	EA	6" Outlet, Bronze Roof Drain Downspout Nozzle	858.93	149.56
22 14 26 13-0070	EA	8" Outlet, Bronze Roof Drain Downspout Nozzle	1,119.56	149.56
22 14 26 16		**Facility Area Drains** *(22 14 26)*		
22 14 26 16-0001		Area Drain *(22 14 26 16)*		
22 14 26 16-0002	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,231.18	144.05
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0003	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,262.24	159.61
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0004	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,294.92	176.00
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0005	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,328.98	192.99
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0006	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,982.54	144.05
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0007	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,013.60	159.61
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0008	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,046.28	176.00
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0009	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,080.34	192.99
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0010	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,015.23	144.05
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0011	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,046.29	159.61
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0012	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,078.97	176.00
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0013	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,113.03	192.99
		For Galvanized Cast Iron Parts, Add	*152.25*	
		For Ductile Iron Grate, Add	*123.50*	
		For Vandal Proof Screws, Add	*29.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0014	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,531.35	144.05
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0015	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,562.41	159.61
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0016	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,595.09	176.00
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0017	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,629.15	192.99
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0018	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,181.35	144.05
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0019	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,212.41	159.61
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0020	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,245.09	176.00
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0021	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,279.15	192.99
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0022	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,190.82	144.05
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0023	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,221.88	159.61
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0024	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,254.56	176.00
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0025	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,288.62	192.99
		For Galvanized Cast Iron Parts, Add	*258.50*	
		For Ductile Iron Grate, Add	*123.50*	
		For Primer Tap, Add	*36.00*	
22 14 26 16-0026	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots	1,431.59	144.05
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Grate, Add	*30.50*	
22 14 26 16-0027	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots	1,462.65	159.61
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Grate, Add	*30.50*	
22 14 26 16-0028	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots	1,495.33	176.00
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Grate, Add	*30.50*	
22 14 26 16-0029	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots	861.26	144.05
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Grate, Add	*30.50*	
22 14 26 16-0030	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots	892.32	159.61
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Grate, Add	*30.50*	
22 14 26 16-0031	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots	925.00	176.00
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Grate, Add	*30.50*	
22 14 26 16-0032	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots	1,348.53	144.05
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Grate, Add	*30.50*	
22 14 26 16-0033	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots	1,379.59	159.61
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Grate, Add	*30.50*	
22 14 26 16-0034	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots	1,412.27	176.00
		For Galvanized Cast Iron Parts, Add	*87.50*	
		For Vandal Proof Grate, Add	*30.50*	
22 14 26 16-0035	EA	12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy-Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	4,346.93	144.05
		For Galvanized Cast Iron Parts, Add	*307.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*126.00*	
22 14 26 16-0036	EA	12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy-Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	4,377.99	159.61
		For Galvanized Cast Iron Parts, Add	*307.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*126.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0037	EA	12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy-Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	4,410.67	176.00
		For Galvanized Cast Iron Parts, Add	*307.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*126.00*	
22 14 26 16-0038	EA	12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy-Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,821.43	144.05
		For Galvanized Cast Iron Parts, Add	*307.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*126.00*	
22 14 26 16-0039	EA	12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy-Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,852.49	159.61
		For Galvanized Cast Iron Parts, Add	*307.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*126.00*	
22 14 26 16-0040	EA	12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy-Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,885.17	176.00
		For Galvanized Cast Iron Parts, Add	*307.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*126.00*	
22 14 26 16-0041	EA	12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy-Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	4,081.14	144.05
		For Galvanized Cast Iron Parts, Add	*307.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*126.00*	
22 14 26 16-0042	EA	12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy-Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	4,112.20	159.61
		For Galvanized Cast Iron Parts, Add	*307.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*126.00*	
22 14 26 16-0043	EA	12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy-Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	4,144.88	176.00
		For Galvanized Cast Iron Parts, Add	*307.50*	
		For Vandal Proof Screws, Add	*30.50*	
		For Ductile Iron Grate, Add	*126.00*	

22 14 26 19 Facility Trench Drains *(22 14 26)*

22 14 26 19-0001 Trench Drain *(22 14 26 19)*

Note: Each section is 39.4" in length.

22 14 26 19-0002	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,177.84	144.05
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0003	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,208.90	159.61
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0004	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,241.58	176.00
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0005	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	718.36	144.05
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0006	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	749.42	159.61
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0007	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	782.10	176.00
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0008	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,115.23	144.05
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0009	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,146.29	159.61
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0010	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,178.97	176.00
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0011	EA	6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,033.16	71.79
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0012	EA	6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	573.68	71.79
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0013	EA	6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	970.55	71.79
		For Galvanized Cast Iron Parts, Add	*98.25*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*66.00*	
22 14 26 19-0014	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,865.55	144.05
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0015	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,896.61	159.61
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0016	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,929.29	176.00
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0017	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,297.00	144.05
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0018	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,328.06	159.61
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0019	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,360.74	176.00
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0020	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,787.79	144.05
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0021	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,818.85	159.61
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0022	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,851.53	176.00
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0023	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,562.59	144.05
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0024	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,593.65	159.61
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0025	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,626.33	176.00
		For Galvanized Cast Iron Parts, Add	*131.50*	
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
		For Sediment Bucket, Add	*116.00*	
		For Galvanized Sediment Bucket, Add	*188.50*	
22 14 26 19-0026	EA	12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,720.85	71.79
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
22 14 26 19-0027	EA	12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,152.30	71.79
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
22 14 26 19-0028	EA	12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,643.09	71.79
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	
22 14 26 19-0029	EA	12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy-Duty Body Sections, Heavy-Duty Loose Set Grate With Perimeter Drainage Slots	1,417.89	71.79
		For Vandal Proof Screws, Add	*48.50*	
		For Ductile Iron Grate, Add	*181.50*	
		For Convex Grate On Cast Iron Or Ductile Price, Add	*38.50*	

22 14 29 Sump Pumps *(22 14)*

See CSI section 22 11 16 00-0000 for pipe extensions into well.

22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps *(22 14 29)*

22 14 29 13-0001 Vertical Mounted Sump Pumps *(22 14 29 13)*

Note: Supplied with 1750 RPM premium efficient motor with drip cover, float switch assembly, steel support mounting plate and 5' column sections.

22 14 29 13-0002	EA	1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head	6,807.05	347.14
		For Explosion Proof Motor, Add	*344.79*	
22 14 29 13-0003	EA	1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head	7,191.95	420.16
		For Explosion Proof Motor, Add	*383.31*	
22 14 29 13-0004	EA	2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head	8,214.32	499.17
		For Explosion Proof Motor, Add	*495.18*	
22 14 29 13-0005	EA	3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head	8,755.32	614.08
		For Explosion Proof Motor, Add	*561.20*	
22 14 29 13-0006	EA	5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head	9,243.94	665.55
		For Explosion Proof Motor, Add	*819.80*	
22 14 29 13-0007	EA	10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head	10,960.94	798.42
		For Explosion Proof Motor, Add	*929.84*	
22 14 29 13-0008	EA	15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head	12,833.71	826.91
		For Explosion Proof Motor, Add	*1,524.05*	
22 14 29 13-0009	EA	20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head	15,506.40	1,010.87
		For Explosion Proof Motor, Add	*2,022.90*	
22 14 29 13-0010	EA	30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head	16,732.56	1,178.92
		For Explosion Proof Motor, Add	*2,622.62*	
22 14 29 13-0011	EA	50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head	22,486.68	1,415.21
		For Explosion Proof Motor, Add	*3,416.74*	
22 14 29 13-0012	EA	60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head	31,208.48	1,571.90
		For Explosion Proof Motor, Add	*5,415.80*	

22 14 29 13-0013 Extra Column Assemblies *(22 14 29 13)*

22 14 29 13-0014	EA	1-1/2" Diameter x 5' Long Extra Column Assembly	1,074.44
22 14 29 13-0015	EA	2" Diameter x 5' Long Extra Column Assembly	1,175.68
22 14 29 13-0016	EA	2-1/2" Diameter x 5' Long Extra Column Assembly	1,286.47
22 14 29 13-0017	EA	3" Diameter x 5' Long Extra Column Assembly	1,544.67
22 14 29 13-0018	EA	4" Diameter x 5' Long Extra Column Assembly	1,726.52
22 14 29 13-0019	EA	5" Diameter x 5' Long Extra Column Assembly	1,757.96
22 14 29 13-0020	EA	6" Diameter x 5' Long Extra Column Assembly	1,973.49

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 13-0021	EA	8" Diameter x 5' Long Extra Column Assembly	2,159.46	
22 14 29 13-0022		Support Plate *(22 14 29 13)*		
22 14 29 13-0023	EA	24" Steel Support Plate, Round Or Square	897.42	47.86
22 14 29 13-0024	EA	30" Steel Support Plate, Round Or Square	993.48	53.84
22 14 29 13-0025	EA	36" Steel Support Plate, Round Or Square	1,378.83	71.79
22 14 29 13-0026	EA	40" Steel Support Plate, Round Or Square	2,002.75	83.76
22 14 29 13-0027	EA	42" Steel Support Plate, Round Or Square	2,147.36	86.75
22 14 29 13-0028	EA	48" Steel Support Plate, Round Or Square	2,296.28	89.74
22 14 29 13-0029	EA	54" Steel Support Plate, Round Or Square	2,925.86	107.68
22 14 29 13-0030	EA	60" Steel Support Plate, Round Or Square	3,965.80	119.65
22 14 29 13-0031	EA	72" Steel Support Plate, Round Or Square	5,295.65	149.56
22 14 29 13-0032	EA	84" Steel Support Plate, Round Or Square	6,395.25	164.51
22 14 29 16		**Submersible Sump Pumps** *(22 14 29)*		
22 14 29 16-0001		Submersible Sump/Effluent Pumps *(22 14 29 16)*		
22 14 29 16-0002		Wet Pit Submersible Pumps, (KSB) Series KRT K *(22 14 29 16-0001)* Note: Includes 33' (10m) of cord with pump.		
22 14 29 16-0003		4 Pole / 1,750 RPM *(22 14 29 16-0002)*		
22 14 29 16-0004	EA	To 10 HP, 600 GPM At 32' Head, Wet Pit Submersible Pump	8,650.03	397.41
22 14 29 16-0005	EA	11-20 HP, 900 GPM At 60' Head, Wet Pit Submersible Pump	10,215.52	662.36
22 14 29 16-0006	EA	21-36 HP, 1,000 GPM At 105' Head, Wet Pit Submersible Pump	17,454.13	927.29
22 14 29 16-0007	EA	51-83 HP, 2,500GPM At 115' Head, Wet Pit Submersible Pump	41,791.87	1,192.23
22 14 29 16-0008	EA	83-110 HP, 2,600 GPM At 140' Head, Wet Pit Submersible Pump	45,344.95	1,457.18
22 14 29 16-0009	EA	83-110 HP, 3,000 GPM At 100' Head, Wet Pit Submersible Pump	49,188.53	1,457.18
22 14 29 16-0010	EA	83-110 HP, 3,500 GPM At 80' Head, Wet Pit Submersible Pump	50,117.12	1,457.18
22 14 29 16-0011	EA	110-160 HP, 3,000 GPM At 180' Head, Wet Pit Submersible Pump	58,342.11	1,722.12
22 14 29 16-0012	EA	110-160 HP, 3,500 GPM At 140' Head, Wet Pit Submersible Pump	59,988.83	1,722.12
22 14 29 16-0013	EA	110-160 HP, 4,500 GPM At 110' Head, Wet Pit Submersible Pump	62,052.77	1,722.12
22 14 29 16-0014	EA	160-210 HP, 3,800 GPM At 150' Head, Wet Pit Submersible Pump	66,016.71	1,987.06
22 14 29 16-0015	EA	160-210 HP, 5,000 GPM At 130' Head, Wet Pit Submersible Pump	70,410.43	1,987.06
22 14 29 16-0016		6 Pole / 1160 RPM *(22 14 29 16-0002)*		
22 14 29 16-0017	EA	To 10 HP, 1,100 GPM At 26' Head, Wet Pit Submersible Pump	11,995.16	397.41
22 14 29 16-0018	EA	To 10 HP, 1,800 GPM At 16' Head, Wet Pit Submersible Pump	12,984.67	397.41
22 14 29 16-0019	EA	11-24 HP, 1,400 GPM At 47' Head, Wet Pit Submersible Pump	16,924.24	662.36
22 14 29 16-0020	EA	11-24 HP, 2,400 GPM At 30' Head, Wet Pit Submersible Pump	18,432.51	662.36
22 14 29 16-0021	EA	21-50 HP, 2,100 GPM At 75' Head, Wet Pit Submersible Pump	26,647.71	927.29
22 14 29 16-0022	EA	21-50 HP, 2,400 GPM At 60' Head, Wet Pit Submersible Pump	28,248.28	927.29
22 14 29 16-0023	EA	21-50 HP, 3,200 GPM At 50' Head, Wet Pit Submersible Pump	34,120.73	927.29
22 14 29 16-0024	EA	21-50 HP, 5,000 GPM At 29' Head, Wet Pit Submersible Pump	40,718.69	927.29
22 14 29 16-0025	EA	51-80 HP, 2,800 GPM At 80' Head, Wet Pit Submersible Pump	41,516.80	1,192.23
22 14 29 16-0026	EA	51-80 HP, 4,000 GPM At 60' Head, Wet Pit Submersible Pump	47,440.94	1,192.23
22 14 29 16-0027	EA	51-80 HP, 5,500 GPM At 43' Head, Wet Pit Submersible Pump	47,817.54	1,192.23
22 14 29 16-0028	EA	76-112 HP, 2,200 GPM At 105' Head, Wet Pit Submersible Pump	56,159.41	1,457.18
22 14 29 16-0029	EA	76-112 HP, 4,100 GPM At 70' Head, Wet Pit Submersible Pump	60,405.44	1,457.18
22 14 29 16-0030	EA	76-112 HP, 6,500 GPM At 50' Head, Wet Pit Submersible Pump	69,628.55	1,457.18
22 14 29 16-0031	EA	112-143 HP, 2,500 GPM At 120' Head, Wet Pit Submersible Pump	75,924.36	1,722.12
22 14 29 16-0032	EA	112-143 HP, 6,500 GPM At 65' Head, Wet Pit Submersible Pump	76,476.35	1,722.12
22 14 29 16-0033	EA	155-200 HP, 3,000 GPM At 150' Head, Wet Pit Submersible Pump	94,132.81	1,987.06
22 14 29 16-0034	EA	155-200 HP, 6,000 GPM At 110' Head, Wet Pit Submersible Pump	104,302.98	1,987.06
22 14 29 16-0035	EA	201-280 HP, 6,500 GPM At 130' Head, Wet Pit Submersible Pump	114,451.45	2,252.00
22 14 29 16-0036	EA	281-450 HP, 12,000 GPM At 110' Head, Wet Pit Submersible Pump	163,828.40	2,516.95
22 14 29 16-0037		8 Pole / 875 RPM *(22 14 29 16-0002)*		
22 14 29 16-0038	EA	To 20 HP, 2,300 GPM At 25' Head, Wet Pit Submersible Pump	11,572.40	662.36
22 14 29 16-0039	EA	21-30 HP, 2,500 GPM At 31' Head, Wet Pit Submersible Pump	13,296.72	927.29
22 14 29 16-0040	EA	31-50 HP, 4,700 GPM At 29' Head, Wet Pit Submersible Pump	19,042.38	1,192.23
22 14 29 16-0041	EA	51-117 HP, 6,500 GPM At 45' Head, Wet Pit Submersible Pump	36,380.29	1,457.18
22 14 29 16-0042	EA	118-175 HP, 9,000 GPM At 60' Head, Wet Pit Submersible Pump	45,993.54	1,722.12
22 14 29 16-0043	EA	176-210 HP, 14,000 GPM At 50' Head, Wet Pit Submersible Pump	62,673.42	1,987.06
22 14 29 16-0044	EA	211-250 HP, 14,000 GPM At 60' Head, Wet Pit Submersible Pump	66,916.22	2,252.00
22 14 29 16-0045		10 Pole / 700 RPM *(22 14 29 16-0002)*		
22 14 29 16-0046	EA	To 55 HP, 6,500 GPM At 25' Head Wet Pit Submersible Pump	31,514.03	927.29
22 14 29 16-0047	EA	56-76 HP, 7,000 GPM At 36' Head Wet Pit Submersible Pump	35,851.12	1,192.23
22 14 29 16-0048	EA	76-117 HP, 10,000 GPM At 30' Head Wet Pit Submersible Pump	53,849.94	1,457.18
22 14 29 16-0049	EA	118-150 HP, 11,500 GPM At 40' Head Wet Pit Submersible Pump	63,459.49	1,722.12
22 14 29 16-0050		Dry Pit Submersible Pumps, (KSB) Series KRT K-D *(22 14 29 16-0001)* Note: Includes 33' (10m) of cord with pump.		
22 14 29 16-0051		4 Pole / 1,750 RPM *(22 14 29 16-0050)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0052	EA	To 35 HP, 800 GPM At 90' Head Dry Pit Submersible Pump	27,515.38	927.29
22 14 29 16-0053	EA	To 35 HP, 1,700 GPM At 50' Head Dry Pit Submersible Pump	30,376.83	927.29
22 14 29 16-0054	EA	36-50 HP, 1,300 GPM At 80' Head Dry Pit Submersible Pump	31,449.88	1,059.76
22 14 29 16-0055	EA	36-50 HP, 2,000 GPM At 66' Head Dry Pit Submersible Pump	36,393.73	1,059.76
22 14 29 16-0056	EA	51-75 HP, 1,600 GPM At 110' Head Dry Pit Submersible Pump	54,259.20	1,192.23
22 14 29 16-0057	EA	51-75 HP, 2,400 GPM At 80' Head Dry Pit Submersible Pump	55,263.48	1,192.23
22 14 29 16-0058	EA	76-110 HP, 1,900 GPM At 125' Head Dry Pit Submersible Pump	59,687.30	1,457.18
22 14 29 16-0059	EA	76-110 HP, 2,600 GPM At 110' Head Dry Pit Submersible Pump	59,923.60	1,457.18
22 14 29 16-0060	EA	110-150 HP, 3,000 GPM At 160' Head Dry Pit Submersible Pump	84,853.95	1,722.12
22 14 29 16-0061	EA	110-150 HP, 4,000 GPM At 100' Head Dry Pit Submersible Pump	98,251.10	1,722.12
22 14 29 16-0062		**6 Pole / 1160 RPM** *(22 14 29 16-0050)*		
22 14 29 16-0063	EA	To 35 HP, 1,300 GPM At 55' Head Dry Pit Submersible Pump	34,338.57	927.29
22 14 29 16-0064	EA	To 35 HP, 1,800 GPM At 45' Head Dry Pit Submersible Pump	37,635.70	927.29
22 14 29 16-0065	EA	To 35 HP, 2,800 GPM At 35' Head Dry Pit Submersible Pump	46,460.06	927.29
22 14 29 16-0066	EA	36-50 HP, 2,000 GPM At 55' Head Dry Pit Submersible Pump	50,617.93	1,059.76
22 14 29 16-0067	EA	36-50 HP, 3,200 GPM At 50' Head Dry Pit Submersible Pump	58,050.33	1,059.76
22 14 29 16-0068	EA	51-75 HP, 2,500 GPM At 88' Head Dry Pit Submersible Pump	63,855.23	1,192.23
22 14 29 16-0069	EA	51-75 HP, 5,500 GPM At 45' Head Dry Pit Submersible Pump	78,003.74	1,192.23
22 14 29 16-0070	EA	76-112 HP, 3,100 GPM At 100' Head Dry Pit Submersible Pump	87,993.55	1,457.18
22 14 29 16-0071	EA	76-112 HP, 8,400 GPM At 55' Head Dry Pit Submersible Pump	96,867.76	1,457.18
22 14 29 16-0072	EA	112-154 HP, 3,300 GPM At 130' Head Dry Pit Submersible Pump	118,489.89	1,722.12
22 14 29 16-0073	EA	112-154 HP, 5,000 GPM At 80' Head Dry Pit Submersible Pump	143,257.17	1,722.12
22 14 29 16-0074	EA	154-200 HP, 3,700 GPM At 140' Head Dry Pit Submersible Pump	148,031.55	1,987.06
22 14 29 16-0075	EA	154-200 HP, 5,700 GPM At 100' Head Dry Pit Submersible Pump	152,277.58	1,987.06
22 14 29 16-0076	EA	201-300 HP, 6,500 GPM At 130' Head Dry Pit Submersible Pump	223,975.03	2,252.00
22 14 29 16-0077		**8 Pole / 875 RPM** *(22 14 29 16-0050)*		
22 14 29 16-0078	EA	To 35 HP, 2,000 GPM At 45' Head, Dry Pit Submersible Pump	49,142.44	927.29
22 14 29 16-0079	EA	To 35 HP, 2,400 GPM At 32' Head, Dry Pit Submersible Pump	61,904.53	927.29
22 14 29 16-0080	EA	36-50 HP, 4,600 GPM At 30' Head, Dry Pit Submersible Pump	69,392.77	1,059.76
22 14 29 16-0081	EA	51-75 HP, 4,250 GPM At 51' Head, Dry Pit Submersible Pump	86,246.57	1,192.23
22 14 29 16-0082	EA	76-110 HP, 4,600 GPM At 70' Head, Dry Pit Submersible Pump	109,044.63	1,457.18
22 14 29 16-0083	EA	76-110 HP, 8,500 GPM At 40' Head, Dry Pit Submersible Pump	116,310.88	1,457.18
22 14 29 16-0084	EA	110-154 HP, 5,000 GPM At 75' Head, Dry Pit Submersible Pump	128,255.76	1,722.12
22 14 29 16-0085	EA	110-154 HP, 9,000 GPM At 55' Head, Dry Pit Submersible Pump	143,321.78	1,722.12
22 14 29 16-0086	EA	110-154 HP, 12,000 GPM At 32' Head, Dry Pit Submersible Pump	186,492.83	1,722.12
22 14 29 16-0087	EA	154-214 HP, 13,000 GPM At 50' Head, Dry Pit Submersible Pump	244,715.50	1,987.06
22 14 29 16-0088	EA	215-244 HP, 14,000 GPM At 55' Head, Dry Pit Submersible Pump	265,532.59	2,252.00
22 14 29 16-0089		**10 Pole / 700 RPM** *(22 14 29 16-0050)*		
22 14 29 16-0090	EA	To 55 HP, 3,600 GPM At 40' Head Dry Pit Submersible Pump	104,540.67	1,059.76
22 14 29 16-0091	EA	To 55 HP, 6,250 GPM At 28' Head Dry Pit Submersible Pump	111,566.92	1,059.76
22 14 29 16-0092	EA	56-75 HP, 4,000 GPM At 47' Head Dry Pit Submersible Pump	116,706.30	1,192.23
22 14 29 16-0093	EA	55-82 HP, 9,000 GPM At 37' Head Dry Pit Submersible Pump	121,580.93	1,192.23
22 14 29 16-0094	EA	76-110 HP, 10,500 GPM At 30' Head Dry Pit Submersible Pump	182,674.49	1,457.18
22 14 29 16-0095	EA	110-154 HP, 11,500 GPM At 40' Head Dry Pit Submersible Pump	201,054.87	1,722.12
22 14 29 16-0096	EA	154-214 HP, 13,000 GPM At 55' Head Dry Pit Submersible Pump	258,880.62	1,987.06
22 14 29 16-0097		**Submersible Sump Pump With Vortex Impeller** *(22 14 29 16)*		
22 14 29 16-0098		**Submersible Sump Pump With Cast Iron Vortex Impeller** *(22 14 29 16-0097)*		
22 14 29 16-0099	EA	1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	569.22	77.97
22 14 29 16-0100	EA	1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	632.27	77.97
22 14 29 16-0101	EA	1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,001.36	82.51
22 14 29 16-0102	EA	1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,101.13	82.51
22 14 29 16-0103		**Submersible Sump Pump With Bronze Vortex Impeller** *(22 14 29 16-0097)*		
		Note: Includes 20' of cord with pump.		
22 14 29 16-0104	EA	1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,696.95	82.51
22 14 29 16-0105	EA	1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,847.29	82.51
22 14 29 16-0106	EA	1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,939.78	90.95
22 14 29 16-0107	EA	1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	2,100.51	90.95
22 14 29 16-0108	EA	1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	2,160.28	103.95
22 14 29 16-0109	EA	1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	2,318.24	103.95

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0110	EA	2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	2,318.96	123.44
22 14 29 16-0111	EA	2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	2,456.13	123.44

22 14 29 16-0112 Submersible Sump Pump With Semi-Open Impeller *(22 14 29 16)*

Note: Includes 20' of cord with pump.

22 14 29 16-0113	EA	1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,324.55	77.97
22 14 29 16-0114	EA	1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,367.66	77.97
22 14 29 16-0115	EA	1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,708.08	82.51
22 14 29 16-0116	EA	1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,738.37	82.51
22 14 29 16-0117	EA	3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,085.78	87.06
22 14 29 16-0118	EA	3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,085.78	87.06
22 14 29 16-0119	EA	1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,205.97	90.95
22 14 29 16-0120	EA	1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,205.97	90.95
22 14 29 16-0121	EA	1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,517.62	103.95
22 14 29 16-0122	EA	1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,517.62	103.95
22 14 29 16-0123	EA	2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,928.49	123.44
22 14 29 16-0124	EA	2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,876.05	123.44

22 14 29 19 Sump-Pump Basins and Pits *(22 14 29)*

See CSI section 22 13 29 33-0000 for basins and pits.

END OF SECTION 22

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electricial equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems *(26)*

26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution *(26 01)*

26 01 10 91 Medium-Voltage Electrical Distribution Restoration *(26 01 10)*

26 01 10 91-0001 Retrofit Distribution Enclosures *(26 01 10 91)*
Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.

26 01 10 91-0002	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C) Note: 2mm thick, aluminum frame, hinged cover.	526.97	
		For Up To 20, Add	*114.32*	
		For >20 To 50, Add	*91.46*	
		For >50 To 100, Add	*45.73*	
26 01 10 91-0003	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C) Note: 2mm thick, aluminum frame, hinged cover.	690.88	
		For Up To 20, Add	*155.30*	
		For >20 To 50, Add	*124.24*	
		For >50 To 100, Add	*62.12*	
26 01 10 91-0004	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C) Note: 4mm thick, aluminum frame, hinged cover.	1,051.46	
		For Up To 20, Add	*245.45*	
		For >20 To 50, Add	*196.36*	
		For >50 To 100, Add	*98.18*	
26 01 10 91-0005	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2) Note: 2mm thick, aluminum frame, twist cover.	525.18	
		For Up To 20, Add	*113.88*	
		For >20 To 50, Add	*91.10*	
		For >50 To 100, Add	*45.55*	
26 01 10 91-0006	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3) Note: 2mm thick, aluminum frame, twist cover.	677.53	
		For Up To 20, Add	*151.96*	
		For >20 To 50, Add	*121.57*	
		For >50 To 100, Add	*60.79*	
26 01 10 91-0007	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4) Note: 4mm thick, aluminum frame, twist cover.	1,021.82	
		For Up To 20, Add	*238.04*	
		For >20 To 50, Add	*190.43*	
		For >50 To 100, Add	*95.21*	
26 01 10 91-0008	EA	2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR) Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	408.96	
		For Up To 20, Add	*84.82*	
		For >20 To 50, Add	*67.86*	
		For >50 To 100, Add	*33.93*	
26 01 10 91-0009	EA	3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR) Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	585.98	
		For Up To 20, Add	*129.08*	
		For >20 To 50, Add	*103.26*	
		For >50 To 100, Add	*51.63*	
26 01 10 91-0010	EA	4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR) Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	844.13	
		For Up To 20, Add	*193.61*	
		For >20 To 50, Add	*154.89*	
		For >50 To 100, Add	*77.45*	
26 01 10 91-0011	EA	2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) Note: 4mm thick, aluminum frame, magnetic cover.	767.53	
		For Up To 20, Add	*174.46*	
		For >20 To 50, Add	*139.57*	
		For >50 To 100, Add	*69.79*	
26 01 10 91-0012	EA	3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) Note: 4mm thick, aluminum frame, magnetic cover.	1,063.69	
		For Up To 20, Add	*248.50*	
		For >20 To 50, Add	*198.80*	
		For >50 To 100, Add	*99.40*	
26 01 10 91-0013	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) Note: 4mm thick, aluminum frame, magnetic cover.	1,968.25	
		For Up To 20, Add	*474.64*	
		For >20 To 50, Add	*379.71*	
		For >50 To 100, Add	*189.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014	EA	3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	885.25	
		Note: 4mm thick, aluminum frame, magnetic cover.		
		For Up To 20, Add	*203.89*	
		For >20 To 50, Add	*163.11*	
		For >50 To 100, Add	*81.56*	
26 01 10 91-0015	EA	4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,314.07	
		Note: 4mm thick, aluminum frame, magnetic cover.		
		For Up To 20, Add	*311.10*	
		For >20 To 50, Add	*248.88*	
		For >50 To 100, Add	*124.44*	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution *(26 01)*

26 01 20 91 Low-Voltage Electrical Distribution Restoration *(26 01 20)*

26 01 20 91-0001 Lock Out/Tag Out Devices *(26 01 20 91)*

Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.

26 01 20 91-0002	EA	Lock Out/Tag Out Local Disconnect	40.68
		Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	
26 01 20 91-0003	EA	Lock Out/Tag Out Breaker Or Motor Starter	40.68
		Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	
26 01 20 91-0004	EA	Lock Out Padlock Device	11.30
		Note: Includes the installation and removal of pad lock when required	
26 01 20 91-0005	EA	Lock Out Tags	4.67
		Note: Includes filling out tag information, installation and removal of identifying tags.	

26 01 20 91-0006 Existing Circuit Tracing *(26 01 20 91)*

26 01 20 91-0007	EA	Motors, Diconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	23.50
26 01 20 91-0008	EA	Lighting, Existing Circuit Tracing Per Circuit	23.50

26 01 26 Maintenance Testing of Electrical Systems *(26 01)*

26 01 26 00-0001 NETA Electrical Maintenance Testing *(26 01 26)*

26 01 26 00-0002	EA	600 Volt Cable Insulation NETA Electrical Maintenance Testing Per Conductor	363.75
26 01 26 00-0003	EA	NETA Field Maintenance Testing Of Aged Medium Voltage (5 KV - 15 KV) Cables, Per Cable	485.00
		Note: Provide test equipment, labor, and technical personnel as necessary to perform the electrical maintenance tests. Perform Full Dielectric-Absorption (Megger) test, DC High Potential test and provide "Final Test Report".	
26 01 26 00-0004	EA	Panel Board NETA Electrical Maintenance Testing	363.75
		Note: Excludes metering and CT's.	
26 01 26 00-0005	EA	Primary Injection Breaker NETA Electrical Maintenance Testing	545.62
		Note: Includes setting breaker 3 phase from 400 amperes to 1,200 amperes.	
26 01 26 00-0006	EA	Primary Injection Breaker NETA Electrical Maintenance Testing	727.50
		Note: Includes setting breaker 3 phase from 1,200 amperes to 2,000 amperes.	
26 01 26 00-0007	EA	Primary And Secondary Injection Low Voltage Air Circuit Breaker NETA Electrical Maintenance Testing	1,091.25
		Note: Includes CT ratio test to include setting breaker 3 phase 400A to 2000A. Excludes breaker removal from gear.	
26 01 26 00-0008	EA	Single, Primary And Secondary Acceptance Test, 400 Amperes Circuit Breaker NETA Electrical Maintenance Testing	727.50
		Note: Includes CT ratio test to include setting breaker 3 phase 400 Amperes to 2000 Amperes. Excludes breaker removal from gear.	
26 01 26 00-0009	EA	2 To 3, Primary And Secondary Acceptance Test, 400 Amperes Circuit Breaker NETA Electrical Maintenance Testing	454.69
		Note: Includes CT ratio test to include setting breaker 3 phase 400 Amperes to 2,000 Amperes. Excludes breaker removal from gear.	
26 01 26 00-0010	EA	4 Or More, Primary And Secondary Acceptance Test, 400 Amperes Circuit Breaker NETA Electrical Testing	318.28
		Note: Includes CT ratio test to include setting breaker 3 phase 400 Amperes to 2000 Amperes. Excludes breaker removal from gear.	

26 01 26 00-0011 TTR Maintenance Testing Or Meggar Maintenance Testing of Transformers *(26 01 26)*

Note: Includes all required small tools and equipment. Use other MRO tasks required to remove equipment cover.

26 01 26 00-0012 TTR Maintenance Testing Or Meggar Maintenance Testing of Transformers, Not Connected *(26 01 26 00-0011)*

26 01 26 00-0013	EA	TTR Or Megger Maintenance Testing Of Up To 15 KVA, Single Phase Transformer, Not Connected	28.20
26 01 26 00-0014	EA	TTR Or Megger Maintenance Testing Of >15 To 50 KVA, Single Phase Transformer, Not Connected	47.00
26 01 26 00-0015	EA	TTR Or Megger Maintenance Testing Of 75 KVA, Single Phase Transformer, Not Connected	65.80
26 01 26 00-0016	EA	TTR Or Megger Maintenance Testing Of 100 KVA, Single Phase Transformer, Not Connected	84.60
26 01 26 00-0017	EA	TTR Or Megger Maintenance Testing Of 150 KVA, Single Phase Transformer, Not Connected	103.40
26 01 26 00-0018	EA	TTR Or Megger Maintenance Testing Of 167 KVA, Single Phase Transformer, Not Connected	122.20
26 01 26 00-0019	EA	TTR Or Megger Maintenance Testing Of 200 KVA, Single Phase Transformer, Not Connected	131.60
26 01 26 00-0020	EA	TTR Or Megger Maintenance Testing Of 250 KVA, Single Phase Transformer, Not Connected	141.00
26 01 26 00-0021	EA	TTR Or Megger Maintenance Testing Of Up To 15 KVA, Three Phase Transformer, Not Connected	47.00
26 01 26 00-0022	EA	TTR Or Megger Maintenance Testing Of >15 To 45 KVA, Three Phase Transformer, Not Connected	65.80
26 01 26 00-0023	EA	TTR Or Megger Maintenance Testing Of 75 KVA, Three Phase Transformer, Not Connected	84.60
26 01 26 00-0024	EA	TTR Or Megger Maintenance Testing Of 112.5 KVA, Three Phase Transformer, Not Connected	94.00

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 26 00-0025		EA	TTR Or Megger Maintenance Testing Of 150 KVA, Three Phase Transformer, Not Connected	131.60	
26 01 26 00-0026		EA	TTR Or Megger Maintenance Testing Of 225 KVA, Three Phase Transformer, Not Connected	150.40	
26 01 26 00-0027		EA	TTR Or Megger Testing Of 300 KVA, Three Phase Transformer, Not Connected	169.20	
26 01 26 00-0028			TTR Maintenance Testing Or Meggar Maintenance Testing of Transformers, Connected *(26 01 26 00-0011)*		
26 01 26 00-0029		EA	TTR Or Megger Maintenance Testing Of Up To 15 KVA, Single Phase Transformer, Connected	47.00	
26 01 26 00-0030		EA	TTR Or Megger Maintenance Testing Of >15 To 50 KVA, Single Phase Transformer, Connected	65.80	
26 01 26 00-0031		EA	TTR Or Megger Maintenance Testing Of 75 KVA, Single Phase Transformer, Connected	75.20	
26 01 26 00-0032		EA	TTR Or Megger Maintenance Testing Of 100 KVA, Single Phase Transformer, Connected	94.00	
26 01 26 00-0033		EA	TTR Or Megger Maintenance Testing Of 150 KVA, Single Phase Transformer, Connected	131.60	
26 01 26 00-0034		EA	TTR Or Megger Maintenance Testing Of 167 KVA, Single Phase Transformer, Connected	159.80	
26 01 26 00-0035		EA	TTR Or Megger Maintenance Testing Of 200 KVA, Single Phase Transformer, Connected	169.20	
26 01 26 00-0036		EA	TTR Or Megger Maintenance Testing Of 250 KVA, Single Phase Transformer, Connected	178.60	
26 01 26 00-0037		EA	TTR Or Megger Maintenance Testing Of Up To 15 KVA, Three Phase Transformer, Connected	65.80	
26 01 26 00-0038		EA	TTR Or Megger Maintenance Testing Of >15 To 45 KVA, Three Phase Transformer, Connected	84.60	
26 01 26 00-0039		EA	TTR Or Megger Maintenance Testing Of 75 KVA, Three Phase Transformer, Connected	112.80	
26 01 26 00-0040		EA	TTR Or Megger Maintenance Testing Of 112.5 KVA, Three Phase Transformer, Connected	150.40	
26 01 26 00-0041		EA	TTR Or Megger Maintenance Testing Of 150 KVA, Three Phase Transformer, Connected	169.20	
26 01 26 00-0042		EA	TTR Or Megger Maintenance Testing Of 225 KVA, Three Phase Transformer, Connected	197.40	
26 01 26 00-0043		EA	TTR Or Megger Testing Of 300 KVA, Three Phase Transformer, Connected	253.80	

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment *(26 01)*

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration *(26 01 30)*

26 01 30 91-0001 Emergency Generator Permits *(26 01 30 91)*

26 01 30 91-0002 Air Pollution Control Board *(26 01 30 91-0001)*

26 01 30 91-0003		EA	APCD Permit To Construct And Operate Emergency Generator	5,181.28

26 01 50 Operation and Maintenance of Lighting *(26 01)*

26 01 50 51 Luminaire Relamping *(26 01 50)*

26 01 50 51-0001 Replace Lamps In Existing Fixtures *(26 01 50 51)*

Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps.

26 01 50 51-0002 Halogen Lamps *(26 01 50 51-0001)*

26 01 50 51-0003		EA	300 Watt, T3, Tungsten Halogen Lamp	60.33
26 01 50 51-0004		EA	500 Watt, T3, Tungsten Halogen Lamp	78.83
26 01 50 51-0005		EA	1,000 Watt, T3, Tungsten Halogen Lamp	119.11
26 01 50 51-0006		EA	60 Watt, PAR38, Halogen Lamp	27.59
26 01 50 51-0007		EA	75 Watt, PAR38, Halogen Lamp	27.59
26 01 50 51-0008		EA	90 Watt, PAR38, Halogen Lamp	25.94
26 01 50 51-0009		EA	100 Watt, PAR38, Halogen Lamp	25.94
26 01 50 51-0010		EA	60 Watt, PAR38, Halogen IR Reflective Lamp	37.39
26 01 50 51-0011		EA	67 Watt, PAR38, Halogen IR Reflective Lamp	41.31
26 01 50 51-0012		EA	70 Watt, PAR38, Halogen IR Reflective Lamp	40.30
26 01 50 51-0013		EA	90 Watt, PAR38, Halogen IR Reflective Lamp	43.29
26 01 50 51-0014		EA	100 Watt, PAR38, Halogen IR Reflective Lamp	43.93
26 01 50 51-0015		EA	20-50 Watt, 12 Volt MR16 Low-Voltage Halogen Lamp	17.29
26 01 50 51-0016		EA	20-37 Watt, Infrared Reflecting, 12 Volt MR16 Low-Voltage Halogen Lamp	24.77
26 01 50 51-0017		EA	50 Watt, Infrared Reflecting, 12 Volt MR16 Low-Voltage Halogen Lamp	23.67
26 01 50 51-0018		EA	12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	23.11
26 01 50 51-0019		EA	12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	23.11
26 01 50 51-0020		EA	12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	25.47
26 01 50 51-0021		EA	12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	25.47

26 01 50 51-0022 Incandescent Lamps *(26 01 50 51-0001)*

26 01 50 51-0023		EA	100 Watt, Frosted, Interior Incandescent Lamp	6.68
			For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.87*
26 01 50 51-0024		EA	150 Watt, Frosted, Interior Incandescent Lamp	8.76
			For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.87*
26 01 50 51-0025		EA	200 Watt, Frosted, Interior Incandescent Lamp	11.11
			For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.87*
26 01 50 51-0026		EA	300 Watt, PS25, Interior Incandescent Lamp	14.06
			For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.87*
26 01 50 51-0027		EA	60 Watt, G25, Clear, Interior Incandescent Lamp	10.08
			For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.87*
26 01 50 51-0028		EA	75 Watt, R20, Interior Incandescent Lamp	16.67
			For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.24*
26 01 50 51-0029		EA	75 Watt, PAR38, Exterior Incandescent Lamp	20.80
			For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.24*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0030	EA	100 Watt, PAR38, Exterior Incandescent Lamp	19.15	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.24*	
26 01 50 51-0031	EA	150 Watt, PAR38, Exterior Incandescent Lamp	34.82	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.24*	
26 01 50 51-0032	EA	250 Watt, PAR38, Exterior Incandescent Lamp	73.90	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.62*	
26 01 50 51-0033	EA	300 Watt, PAR56, Exterior Incandescent Lamp	85.40	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.62*	
26 01 50 51-0034		**Exit Light Lamps** *(26 01 50 51-0001)*		
26 01 50 51-0035	EA	Convert Exit Light Lamps To Red LED Lamps	114.58	
		For Green LED Lamps, Add	*25.00*	
26 01 50 51-0036	EA	Fluorescent Lamp For Exit Light	33.04	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-7.48*	
26 01 50 51-0037	EA	Lamp Replacement For Emergency Lights On Exit Sign	48.83	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.74*	
26 01 50 51-0038		**Fluorescent Lamps** *(26 01 50 51-0001)*		
26 01 50 51-0039	EA	18", 15 Watt, T8 Fluorescent Lamp	12.30	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0040	EA	2', 17 Watt, T8 Fluorescent Lamp	15.10	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0041	EA	3', 25 Watt, T8 Fluorescent Lamp	17.39	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0042	EA	4', 32 Watt, T8 Fluorescent Lamp	17.32	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0043	EA	4', 30 Watt, T8 Fluorescent Lamp	22.22	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0044	EA	4', 28 Watt, T8 Fluorescent Lamp	19.28	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0045	EA	4', 25 Watt, T8 Fluorescent Lamp	19.16	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0046	EA	4', 44 Watt, T8HO Fluorescent Lamp	31.82	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0047	EA	8', 59 Watt, T8 Fluorescent Lamp	23.87	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0048	EA	18", 15 Watt, T12 Fluorescent Lamp	19.35	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0049	EA	2', 20 Watt, T12 Fluorescent Lamp	14.30	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0050	EA	3', 30 Watt, T12 Fluorescent Lamp	16.06	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0051	EA	4', 34 Watt, T12 Fluorescent Lamp	16.15	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0052	EA	4', 40 Watt, T12 Fluorescent Lamp	15.78	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0053	EA	8', 60 Watt, T12 Fluorescent Lamp	24.51	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0054	EA	8', 75 Watt, T12 Fluorescent Lamp	20.45	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0055	EA	8', 95 Watt, Instant Start T12 Fluorescent Lamp	36.20	
26 01 50 51-0056	EA	6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	19.61	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0057	EA	8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	15.86	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0058	EA	12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	15.29	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0059	EA	16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	17.08	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0060	EA	6", 4 Watt, T5 Fluorescent Lamp	13.82	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0061	EA	9", 6 Watt, T5 Fluorescent Lamp	13.56	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0062	EA	12", 8 Watt, T5 Fluorescent Lamp	14.05	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0063	EA	21", 13 Watt, T5 Fluorescent Lamp	14.76	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0064	EA	24", 14 Watt, T5 Fluorescent Lamp	17.24	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0065	EA	34", 21 Watt, T5 Fluorescent Lamp	18.70	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0066	EA	46", 28 Watt, T5 Fluorescent Lamp	18.06	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0067	EA	46", 54 Watt, T5HO Fluorescent Lamp	19.92	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0068	EA	46", 54 Watt T5 Fluorescent Lamp	18.39	
26 01 50 51-0069	EA	5-13 Watt, 2-Pin Compact Fluorescent Lamp	11.18	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.87*	
26 01 50 51-0070	EA	9-26 Watt, 4-Pin Compact Fluorescent Lamp	12.47	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.87*	
26 01 50 51-0071	EA	27-55 Watt, 4-Pin Compact Fluorescent Lamp	26.65	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.87*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0072	EA	Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	34.46	
26 01 50 51-0073	EA	Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	34.46	
26 01 50 51-0074	EA	32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin	66.91	
26 01 50 51-0075	EA	26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp	23.65	
26 01 50 51-0076	EA	15 Watt Compact Fluorescent Reflector Lamps, Screw-In, BR30	15.53	
		For Dimming Capability, Add	*4.10*	
26 01 50 51-0077	EA	32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp	28.84	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.74*	
26 01 50 51-0078	EA	40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	27.74	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.74*	
26 01 50 51-0079	EA	<9 Watt, Screw-In, Spiral Compact Fluorescent Lamps	11.68	
26 01 50 51-0080	EA	9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps	9.94	
26 01 50 51-0081	EA	29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps	10.48	
26 01 50 51-0082	EA	33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps	46.40	
26 01 50 51-0083	EA	43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps	50.71	
26 01 50 51-0084	EA	85 Watt, Screw-In, Spiral Compact Fluorescent Lamps	97.51	
26 01 50 51-0085	EA	105 Watt, Screw-In, Spiral Compact Fluorescent Lamps	117.01	
26 01 50 51-0086	EA	200 Watt, Screw-In, Spiral Compact Fluorescent Lamps	120.98	
26 01 50 51-0087	EA	11 Watt, Screw-In, Compact Fluorescent Reflector Lamps	43.01	
26 01 50 51-0088	EA	15 Watt, Screw-In, Compact Fluorescent Reflector Lamps	44.91	
26 01 50 51-0089	EA	20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps	52.06	

26 01 50 51-0090 Metal Halide Lamps *(26 01 50 51-0001)*

26 01 50 51-0091	EA	50 Watt, Pulse Start Metal Halide Lamp	49.93	
26 01 50 51-0092	EA	70 Watt, Pulse Start Metal Halide Lamp	47.63	
26 01 50 51-0093	EA	100 Watt, Pulse Start Metal Halide Lamp	54.88	
26 01 50 51-0094	EA	150 Watt, Pulse Start Metal Halide Lamp	53.24	
26 01 50 51-0095	EA	175 Watt, Pulse Start Metal Halide Lamp	52.76	
26 01 50 51-0096	EA	250 Watt, Pulse Start Metal Halide Lamp	53.09	
26 01 50 51-0097	EA	400 Watt, Pulse Start Metal Halide Lamp	64.64	
26 01 50 51-0098	EA	1,000 Watt, Pulse Start Metal Halide Lamp	75.71	
26 01 50 51-0099	EA	1,500 Watt, Pulse Start Metal Halide Lamp	75.26	

26 01 50 51-0100 High Pressure Sodium Lamps *(26 01 50 51-0001)*

26 01 50 51-0101	EA	35 Watt, High Pressure Sodium Lamp	40.59	
		For Enclosed And Gasket Light Fixtures, Add	*2.88*	
26 01 50 51-0102	EA	50 Watt, High Pressure Sodium Lamp	40.59	
		For Enclosed And Gasket Light Fixtures, Add	*2.88*	
26 01 50 51-0103	EA	70 Watt, High Pressure Sodium Lamp	41.57	
		For Enclosed And Gasket Light Fixtures, Add	*2.88*	
26 01 50 51-0104	EA	100 Watt, High Pressure Sodium Lamp	43.46	
		For Enclosed And Gasket Light Fixtures, Add	*2.88*	
26 01 50 51-0105	EA	150 Watt, High Pressure Sodium Lamp	41.57	
		For Enclosed And Gasket Light Fixtures, Add	*2.88*	
26 01 50 51-0106	EA	250 Watt, High Pressure Sodium Lamp	41.57	
		For Enclosed And Gasket Light Fixtures, Add	*2.88*	
26 01 50 51-0107	EA	400 Watt, High Pressure Sodium Lamp	38.77	
		For Enclosed And Gasket Light Fixtures, Add	*2.88*	
26 01 50 51-0108	EA	1,000 Watt, High Pressure Sodium Lamp	93.89	

26 01 50 51-0109 Low Pressure Sodium Lamps *(26 01 50 51-0001)*

26 01 50 51-0110	EA	35 Watt, Low Pressure Sodium Lamp	108.63	
26 01 50 51-0111	EA	55 Watt, Low Pressure Sodium Lamp	121.62	
26 01 50 51-0112	EA	70 Watt, Low Pressure Sodium Lamp	124.55	
26 01 50 51-0113	EA	90 Watt, Low Pressure Sodium Lamp	127.47	
26 01 50 51-0114	EA	135 Watt, Low Pressure Sodium Lamp	139.18	
26 01 50 51-0115	EA	180 Watt, Low Pressure Sodium Lamp	191.86	

26 01 50 51-0116 LED Lamps *(26 01 50 51-0001)*

26 01 50 51-0117 LED Lamps, Candelabra Base, CA10 *(26 01 50 51-0116)*

26 01 50 51-0118	EA	3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star)	25.84	

26 01 50 51-0119 LED Lamps, Medium Base, A19 Or A21 *(26 01 50 51-0116)*

26 01 50 51-0120	EA	6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	37.21	
26 01 50 51-0121	EA	11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	37.21	
26 01 50 51-0122	EA	14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	67.74	
26 01 50 51-0123	EA	17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	44.92	
26 01 50 51-0124	EA	18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	86.82	

26 01 50 51-0125 LED Lamps, Medium Base, BR30 Or BR40 *(26 01 50 51-0116)*

26 01 50 51-0126	EA	9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	49.05	
26 01 50 51-0127	EA	14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	42.60	
26 01 50 51-0128	EA	11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	59.73	
26 01 50 51-0129	EA	14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	48.32	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0130	EA	14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	67.36	
26 01 50 51-0131	EA	18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	48.32	
26 01 50 51-0132		**LED Lamps, Medium Base, PAR** *(26 01 50 51-0116)*		
26 01 50 51-0133	EA	7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	55.15	
26 01 50 51-0134	EA	12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	78.85	
26 01 50 51-0135	EA	16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	78.85	
26 01 50 51-0136	EA	15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	75.03	
26 01 50 51-0137	EA	12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	71.22	
26 01 50 51-0138	EA	15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	71.22	
26 01 50 51-0139	EA	18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	148.30	
26 01 50 51-0140	EA	15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	78.85	
26 01 50 51-0141	EA	18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	75.03	
26 01 50 51-0142	EA	19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	78.85	
26 01 50 51-0143	EA	24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	78.85	
26 01 50 51-0144		**LED Lamps, GU Base, MR16** *(26 01 50 51-0116)*		
26 01 50 51-0145	EA	4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star)	34.97	
26 01 50 51-0146	EA	6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star)	49.05	
26 01 50 51-0147	EA	8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star)	55.15	
26 01 50 51-0148		**LED Lamps, PL Series** *(26 01 50 51-0116)*		
26 01 50 51-0149	EA	3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23)	17.11	
26 01 50 51-0150	EA	26 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/827/DIR)	22.53	
26 01 50 51-0151	EA	26 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/830/DIR)	19.00	
26 01 50 51-0152	EA	26 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/835/DIR)	21.21	
26 01 50 51-0153	EA	26 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/840/DIR)	21.21	
26 01 50 51-0154	EA	26 Watt, 3000K CCT, High CRI, PL EDGE DIRect Series (Green Creative 10.5PLH/930/DIR)	25.19	
26 01 50 51-0155	EA	13-18 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/827/DIR)	21.21	
26 01 50 51-0156	EA	13-18 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/830/DIR)	21.21	
26 01 50 51-0157	EA	13-18 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/835/DIR)	21.21	
26 01 50 51-0158	EA	13-18 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/840/DIR)	21.21	
26 01 50 51-0159	EA	26 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 10PLV/827/DIR)	23.86	
26 01 50 51-0160	EA	26 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 10PLV/830/DIR)	23.86	
26 01 50 51-0161	EA	26 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 10PLV/835/DIR)	23.86	
26 01 50 51-0162	EA	26 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 10PLV/840/DIR)	23.86	
26 01 50 51-0163	EA	26 Watt, 3000K CCT, High CRI, PL EDGE DIRect Series (Green Creative 11PLV/930/DIR)	22.53	
26 01 50 51-0164	EA	13-18 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/827/DIR)	22.53	
26 01 50 51-0165	EA	13-18 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/830/DIR)	22.53	
26 01 50 51-0166	EA	13-18 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/835/DIR)	23.42	
26 01 50 51-0167	EA	13-18 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/840/DIR)	23.42	
26 01 50 51-0168	EA	26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP)	23.61	
26 01 50 51-0169	EA	26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP)	23.61	
26 01 50 51-0170	EA	26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP)	23.61	
26 01 50 51-0171	EA	26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP)	23.61	
26 01 50 51-0172	EA	13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP)	24.30	
26 01 50 51-0173	EA	13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP)	24.30	
26 01 50 51-0174	EA	13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26)	24.30	
26 01 50 51-0175	EA	13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26)	24.30	
26 01 50 51-0176	EA	13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26)	24.30	
26 01 50 51-0177	EA	13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24)	24.30	
26 01 50 51-0178	EA	13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24)	24.30	
26 01 50 51-0179	EA	13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24)	24.30	
26 01 50 51-0180	EA	26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP)	31.21	
26 01 50 51-0181	EA	26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP)	31.21	
26 01 50 51-0182	EA	26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP)	31.21	
26 01 50 51-0183	EA	26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP)	29.62	
26 01 50 51-0184	EA	13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP)	29.62	
26 01 50 51-0185	EA	13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP)	29.62	
26 01 50 51-0186	EA	4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898)	26.87	
26 01 50 51-0187		**HID LED Lamps, Medium Base E26** *(26 01 50 51-0116)*		
26 01 50 51-0188	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26)	60.12	
26 01 50 51-0189	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26)	60.12	
26 01 50 51-0190	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26)	76.47	
26 01 50 51-0191	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26)	76.47	
26 01 50 51-0192	EA	10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	51.68	
26 01 50 51-0193	EA	10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	51.68	
26 01 50 51-0194	EA	10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	51.68	
26 01 50 51-0195	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	51.68	
26 01 50 51-0196	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	53.45	
26 01 50 51-0197	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	53.45	
26 01 50 51-0198	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	53.45	
26 01 50 51-0199	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	53.45	
26 01 50 51-0200	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	60.53	
26 01 50 51-0201	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	60.53	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0202	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	60.53	
26 01 50 51-0203	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	60.53	
26 01 50 51-0204	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	69.37	
26 01 50 51-0205	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	69.37	
26 01 50 51-0206	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	69.37	
26 01 50 51-0207	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	69.37	
26 01 50 51-0208	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	88.82	
26 01 50 51-0209	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	88.82	
26 01 50 51-0210	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	88.82	
26 01 50 51-0211	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	88.82	
26 01 50 51-0212	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	105.63	
26 01 50 51-0213	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	105.63	
26 01 50 51-0214	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	105.63	
26 01 50 51-0215	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	105.63	
26 01 50 51-0216	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	117.12	
26 01 50 51-0217	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	117.12	
26 01 50 51-0218	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	117.12	
26 01 50 51-0219	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	117.12	
26 01 50 51-0220	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	158.68	
26 01 50 51-0221	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	158.68	
26 01 50 51-0222	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	158.68	
26 01 50 51-0223	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	158.68	
26 01 50 51-0224	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	163.99	
26 01 50 51-0225	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	163.99	
26 01 50 51-0226	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	163.99	
26 01 50 51-0227	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	163.99	
26 01 50 51-0228	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	194.94	
26 01 50 51-0229	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	194.94	
26 01 50 51-0230	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	194.94	
26 01 50 51-0231	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	194.94	
26 01 50 51-0232	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	232.08	
26 01 50 51-0233	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	232.08	
26 01 50 51-0234	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	232.08	
26 01 50 51-0235	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	232.08	
26 01 50 51-0236	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT40KMED-G6)	74.68	
26 01 50 51-0237	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT50KMED-G6)	80.87	
26 01 50 51-0238	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT40KMED-G5)	80.87	
26 01 50 51-0239	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT50KMED-G5)	74.68	
26 01 50 51-0240	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT40KMED-G5)	94.13	
26 01 50 51-0241	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT50KMED-G5)	86.18	
26 01 50 51-0242	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT40KMED-G5)	103.86	
26 01 50 51-0243	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT50KMED-G5)	102.82	
26 01 50 51-0244	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT40KMED-G5)	105.19	
26 01 50 51-0245	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT50KMED-G5)	105.19	
26 01 50 51-0246	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT40KMED-G7)	63.21	
26 01 50 51-0247	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT50KMED-G7)	63.21	
26 01 50 51-0248	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT40KMED-G7)	71.39	
26 01 50 51-0249	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT50KMED-G7)	71.39	
26 01 50 51-0250	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT40KMED-G7)	76.83	
26 01 50 51-0251	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT50KMED-G7)	76.83	
26 01 50 51-0252	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT40KMED-G7)	85.00	
26 01 50 51-0253	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT50KMED-G7)	85.00	
26 01 50 51-0254	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	85.42	
26 01 50 51-0255	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	92.68	
26 01 50 51-0256	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	115.58	
26 01 50 51-0257	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	127.43	
26 01 50 51-0258	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	49.34	
26 01 50 51-0259	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	55.71	
26 01 50 51-0260	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	58.89	
26 01 50 51-0261	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	64.82	
26 01 50 51-0262	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148015-UNV)	78.19	
26 01 50 51-0263	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148020-UNV)	91.80	
26 01 50 51-0264	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148025-UNV)	125.81	
26 01 50 51-0265	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148030-UNV)	132.61	
26 01 50 51-0266	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148035-UNV)	143.50	
26 01 50 51-0267	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148040-UNV)	150.30	
26 01 50 51-0268	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148060-UNV)	216.96	
26 01 50 51-0269	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	66.05	

26 01 50 51-0270 HID LED Lamps, Mogul Base E39 Or EX39 *(26 01 50 51-0116)*

26 01 50 51-0271	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	207.00	
26 01 50 51-0272	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	207.00	
26 01 50 51-0273	EA	120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	207.00	
26 01 50 51-0274	EA	27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	60.12	
26 01 50 51-0275	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	60.12	
26 01 50 51-0276	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39)	60.12	
26 01 50 51-0277	EA	45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39)	76.47	
26 01 50 51-0278	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R)	76.47	
26 01 50 51-0279	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39)	76.47	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0280	EA	80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39)	142.80	
26 01 50 51-0281	EA	80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039)	158.68	
26 01 50 51-0282	EA	80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039)	158.68	
26 01 50 51-0283	EA	80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039)	158.68	
26 01 50 51-0284	EA	80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039)	158.68	
26 01 50 51-0285	EA	100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039)	163.99	
26 01 50 51-0286	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039)	163.99	
26 01 50 51-0287	EA	100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039)	163.99	
26 01 50 51-0288	EA	100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039)	163.99	
26 01 50 51-0289	EA	120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039)	194.94	
26 01 50 51-0290	EA	120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039)	194.94	
26 01 50 51-0291	EA	120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039)	194.94	
26 01 50 51-0292	EA	120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039)	194.94	
26 01 50 51-0293	EA	150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039)	232.08	
26 01 50 51-0294	EA	150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039)	232.08	
26 01 50 51-0295	EA	150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039)	232.08	
26 01 50 51-0296	EA	150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039)	232.08	
26 01 50 51-0297	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5)	80.87	
26 01 50 51-0298	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5)	80.87	
26 01 50 51-0299	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5)	94.13	
26 01 50 51-0300	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5)	92.91	
26 01 50 51-0301	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5)	103.86	
26 01 50 51-0302	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5)	102.82	
26 01 50 51-0303	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5)	105.19	
26 01 50 51-0304	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5)	102.11	
26 01 50 51-0305	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5)	222.36	
26 01 50 51-0306	EA	20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT/180/40KMOG-G7)	80.84	
26 01 50 51-0307	EA	20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT/180/50KMOG-G7)	80.84	
26 01 50 51-0308	EA	30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT/180/40KMOG-G7)	91.84	
26 01 50 51-0309	EA	30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT/180/50KMOG-G7)	91.84	
26 01 50 51-0310	EA	40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT/180/40KMOG-G7)	98.46	
26 01 50 51-0311	EA	40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT/180/50KMOG-G7)	98.46	
26 01 50 51-0312	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7)	63.10	
26 01 50 51-0313	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7)	63.10	
26 01 50 51-0314	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7)	71.39	
26 01 50 51-0315	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7)	71.39	
26 01 50 51-0316	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7)	76.83	
26 01 50 51-0317	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7)	76.83	
26 01 50 51-0318	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7)	85.00	
26 01 50 51-0319	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7)	85.00	
26 01 50 51-0320	EA	65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39)	153.87	
26 01 50 51-0321	EA	80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39)	178.10	
26 01 50 51-0322	EA	100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39)	212.59	
26 01 50 51-0323	EA	120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39)	415.67	
26 01 50 51-0324	EA	150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39)	392.48	
26 01 50 51-0325	EA	200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39)	415.67	
26 01 50 51-0326	EA	250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39)	417.48	
26 01 50 51-0327	EA	24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A)	62.70	
26 01 50 51-0328	EA	24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A)	62.70	
26 01 50 51-0329	EA	24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A)	62.70	
26 01 50 51-0330	EA	100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50)	186.01	
26 01 50 51-0331	EA	115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D)	431.45	
26 01 50 51-0332	EA	40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K)	178.00	
26 01 50 51-0333	EA	100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K)	210.00	
26 01 50 51-0334	EA	45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K)	91.64	
26 01 50 51-0335	EA	40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K)	299.52	

26 01 50 51-0336 LED Lamps, 2G11 Base *(26 01 50 51-0116)*

26 01 50 51-0337	EA	19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR)	49.85	

26 01 50 51-0338 LED Lamps, GX23 Or G23 Base *(26 01 50 51-0116)*

26 01 50 51-0339	EA	5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4)	24.02	

26 01 50 51-0340 LED Lamps, G24 Base *(26 01 50 51-0116)*

26 01 50 51-0341	EA	5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R)	31.51	

26 01 50 51-0342 LED Tubes (Fluorescent Lamp Replacement) *(26 01 50 51-0116)*

26 01 50 51-0343	EA	2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K)	43.26	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0344	EA	2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K)	56.72	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0345	EA	3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K)	46.64	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0346	EA	4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K)	51.13	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0347	EA	4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K)	56.18	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0348	EA	4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN)	34.71	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0349	EA	2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN)	33.57	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0350	EA	2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF)	30.45	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.99*	
26 01 50 51-0351	EA	3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF)	30.93	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.18*	
26 01 50 51-0352	EA	4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF)	30.83	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	
26 01 50 51-0353	EA	4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF)	32.02	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-3.37*	

26 01 50 51-0354 Filament LED Lamps *(26 01 50 51-0116)*

26 01 50 51-0355	EA	7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827)	19.17	
26 01 50 51-0356	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R)	19.17	
26 01 50 51-0357	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827)	18.29	
26 01 50 51-0358	EA	4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A)	18.29	
26 01 50 51-0359	EA	4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827)	19.70	
26 01 50 51-0360	EA	4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A)	19.70	
26 01 50 51-0361	EA	3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827)	16.52	
26 01 50 51-0362	EA	3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26)	16.52	
26 01 50 51-0363	EA	3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A)	17.05	
26 01 50 51-0364	EA	3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A)	20.94	
26 01 50 51-0365	EA	4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521)	23.25	

26 01 50 51-0366 Other Lamps *(26 01 50 51-0116)*

26 01 50 51-0367	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1)	18.15	
26 01 50 51-0368	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM)	18.15	
26 01 50 51-0369	EA	11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM)	18.15	
26 01 50 51-0370	EA	12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1)	19.03	
26 01 50 51-0371	EA	13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1)	19.03	
26 01 50 51-0372	EA	8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1)	19.03	

26 01 50 51-0373 LED Lamps, Light Engines, Round, LER Series *(26 01 50 51-0116)*

26 01 50 51-0374	EA	5.5" Diameter, 17 Watt, 3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730)	55.84	
26 01 50 51-0375	EA	9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U)	30.93	

26 01 50 51-0376 Remove Hazardous Lamps From Fixture For Recycling *(26 01 50 51)*

Note: Excludes containers, shipping costs and recycling fees. See CSI section 26 01 50 51-0385 for recycling hazardous lamps.

26 01 50 51-0377	EA	Removal Of 2' Length Linear Fluorescent Lamps	3.97	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.31*	
26 01 50 51-0378	EA	Removal Of 3' Length Linear Fluorescent Lamps	4.53	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.49*	
26 01 50 51-0379	EA	Removal Of 4' Length Linear Fluorescent Lamps	5.09	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.68*	
26 01 50 51-0380	EA	Removal Of 6' Length Linear Fluorescent Lamps	5.67	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-1.87*	
26 01 50 51-0381	EA	Removal Of 8' Length Linear Fluorescent Lamps	6.23	
		For Removal Of Multiple Lamps In A Fixture, Deduct	*-2.06*	
26 01 50 51-0382	EA	Removal Of Compact Fluorescent Lamps	3.40	
		For >25 To 40, Deduct	*-0.34*	
		For >40, Deduct	*-0.68*	
26 01 50 51-0383	EA	Removal Of U-Shaped Or Circular Fluorescent Lamps	5.39	
		For >25 To 40, Deduct	*-0.54*	
		For >40, Deduct	*-1.08*	
26 01 50 51-0384	EA	Removal Of High Intensity Discharge (HID) Or Metal Halide Lamps	9.64	
		For >25 To 40, Deduct	*-0.96*	
		For >40, Deduct	*-1.93*	

26 01 50 51-0385 Recycle Hazardous Lamps *(26 01 50 51)*

Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 26 01 50 51-0001 for removal of lamps from fixtures.

26 01 50 51-0386	EA	Recycle 2' Length Linear Fluorescent Lamps	1.83	
26 01 50 51-0387	EA	Recycle 3' Length Linear Fluorescent Lamps	2.35	
26 01 50 51-0388	EA	Recycle 4' Length Linear Fluorescent Lamps	2.86	
26 01 50 51-0389	EA	Recycle 6' Length Linear Fluorescent Lamps	4.05	
26 01 50 51-0390	EA	Recycle 8' Length Linear Fluorescent Lamps	5.07	
26 01 50 51-0391	EA	Recycle Compact Fluorescent Lamps	4.67	
26 01 50 51-0392	EA	Recycle U-Shaped Or Circular Fluorescent Lamps	4.67	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0393	EA	Recycle High Intensity Discharge (HID) Lamps	7.38	

26 01 50 52 Ballasts Replacement *(26 01 50)*

26 01 50 52-0001 Lighting Ballasts *(26 01 50 52)*

Note: Excludes recycling fees. See CSI section 02 84 16 00-0003 for ballast recycling.

26 01 50 52-0002 Fluorescent Ballasts *(26 01 50 52-0001)*

26 01 50 52-0003 Retrofit For Existing Ballasts, In Place *(26 01 50 52-0002)*

Note: CEE listed ballasts. Excludes ballast removal or recycling fees. See CSI section 26 01 50 52-0035 for ballast removal.

26 01 50 52-0004 Instant Start Fluorescent Ballasts *(26 01 50 52-0003)*

26 01 50 52-0005	EA	1 Lamp, Normal Or Low Power Factor, Instant Start Fluorescent Ballast (General Electric UltraMax™ 132)	53.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
		For High Power, Add	*3.24*
		For Programmed Start, Add	*5.22*
26 01 50 52-0006	EA	2 Lamp, Normal Or Low Power Factor, Instant Start Fluorescent Ballast (General Electric UltraMax™ 232)	53.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
		For High Power, Add	*3.24*
		For Programmed Start, Add	*5.22*
26 01 50 52-0007	EA	3 Lamp, Normal Or Low Power Factor, Instant Start Fluorescent Ballast (General Electric UltraMax™ 332)	59.69
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
		For High Power, Add	*2.83*
		For Programmed Start, Add	*5.55*
26 01 50 52-0008	EA	4 Lamp, Normal Or Low Power Factor, Instant Start Fluorescent Ballast (General Electric UltraMax™ 432)	63.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
		For High Power, Add	*3.19*
		For Programmed Start, Add	*6.08*

26 01 50 52-0009 Program/Rapid Start Fluorescent Ballasts *(26 01 50 52-0003)*

26 01 50 52-0010	EA	1 Lamp, Normal Power Factor, Program/Rapid Start Fluorescent Ballast (General Electric UltraStart® 132-MVPS-N)	79.39
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0011	EA	2 Lamp, Normal Power Factor, Program/Rapid Start Fluorescent Ballast (General Electric UltraStart® 232-MVPS-N)	79.39
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0012	EA	3 Lamp, Normal Power Factor, Program/Rapid Start Fluorescent Ballast (General Electric UltraStart® 332-MVPS-N)	83.91
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0013	EA	4 Lamp, Normal Power Factor, Program/Rapid Start Fluorescent Ballast (General Electric UltraStart® 432-MVPS-N)	87.42
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0014	EA	2 Lamp, Normal Power Factor, Program/Rapid Start Fluorescent Ballast (General Electric UltraStart® 228MVPS)	99.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0015	EA	2 Lamp, Normal Power Factor, Program/Rapid Start Fluorescent Ballast (General Electric UltraStart® 254MVPS)	117.62
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0016	EA	4 Lamp, Normal Power Factor, Program/Rapid Start Fluorescent Ballast (General Electric UltraStart® 454MVPS90)	129.56
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*

26 01 50 52-0017 Slimline, Instant Start Fluorescent Ballasts *(26 01 50 52-0003)*

26 01 50 52-0018	EA	2 Lamp, Standard Performance, Normal Power Factor, Slimline, Instant Start Fluorescent Ballast (General Electric GE-259-MV-N)	73.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0019	EA	2 Lamp, Premium Performance, Normal Power Factor, Slimline, Instant Start Fluorescent Ballast (General Electric GE-259-MAX-N/ULTRA)	76.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*

26 01 50 52-0020 Step Dimming, Instant Start Fluorescent Ballasts *(26 01 50 52-0003)*

26 01 50 52-0021	EA	1 Or 2 Lamp, High Power Factor, Step Dimming, Instant Start Fluorescent Ballast (General Electric UltraMax™ 232MAX90-S60)	75.58
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0022	EA	3 Lamp, High Power Factor, Step Dimming, Instant Start Fluorescent Ballast (General Electric UltraMax™ 332MAX90-S60)	78.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0023	EA	4 Lamp, High Power Factor, Step Dimming, Instant Start Fluorescent Ballast (General Electric UltraMax™ 432MAX90-S60)	93.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*
26 01 50 52-0024	EA	6 Lamp, High Power Factor, Step Dimming, Instant Start Fluorescent Ballast (General Electric UltraMax™ 632MAX-H90-S60)	135.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*

26 01 50 52-0025 Load Shed 0-10 V Dimming, Instant Start Fluorescent Ballasts *(26 01 50 52-0003)*

26 01 50 52-0026	EA	1 Or 2 Lamp, High Power Factor, Load Shed 0-10 V Dimming, Instant Start Fluorescent Ballast (General Electric UltraMax™ 232MAX90-V60)	75.58
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0027	EA	3 Lamp, High Power Factor, Load Shed 0-10 V Dimming, Instant Start Fluorescent Ballast (General Electric UltraMax™ 332MAX90-V60)	81.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*	
26 01 50 52-0028	EA	4 Lamp, High Power Factor, Load Shed 0-10 V Dimming, Instant Start Fluorescent Ballast (General Electric UltraMax™ 432MAX90-V60)	93.68	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*	
26 01 50 52-0029	EA	6 Lamp, High Power Factor, Load Shed 0-10 V Dimming, Instant Start Fluorescent Ballast (General Electric UltraMax™ 632MAX90-V60)	143.41	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*	

26 01 50 52-0030 Dimming To 5%, Rapid Start Fluorescent Ballasts *(26 01 50 52-0003)*

26 01 50 52-0031	EA	1 Lamp, Normal Power Factor, Dimming To 5%, Rapid Start Fluorescent Ballast (General Electric B132R120V5)	155.44	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*	
26 01 50 52-0032	EA	2 Lamp, Normal Power Factor, Dimming To 5%, Rapid Start Fluorescent Ballast (General Electric B232SR120V5)	149.90	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*	
26 01 50 52-0033	EA	3 Lamp, Normal Power Factor, Dimming To 5%, Rapid Start Fluorescent Ballast (General Electric B332SR120V5)	160.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*	
26 01 50 52-0034	EA	4 Lamp, Normal Power Factor, Dimming To 5%, Rapid Start Fluorescent Ballast (Sylvania QTP 4X32T8/UNV DIM-TC)	178.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.47*	

26 01 50 52-0035 Fluorescent Ballast Removal From Fixture *(26 01 50 52-0002)*

Note: Place removed ballast in leak-proof container and transfer to on-site storage area.

26 01 50 52-0036	EA	Fluorescent Ballast Removal	22.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0037	EA	Inspect Ballast To Determine If It Is T8 or T12	11.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.40*	

26 01 50 52-0038 T5 Fluorescent Ballasts *(26 01 50 52-0002)*

26 01 50 52-0039 T5 Fluorescent Electronic Ballasts *(26 01 50 52-0038)*

Note: Includes 120/277 Volt and normal ballast factor.

26 01 50 52-0040 14 Watt, T5 Fluorescent Electronic Ballasts *(26 01 50 52-0039)*

26 01 50 52-0041	EA	1 Lamp, 14 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	122.36	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*7.00*	
26 01 50 52-0042	EA	2 Lamp, 14 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	128.01	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*7.00*	

26 01 50 52-0043 21 Watt, T5 Fluorescent Electronic Ballasts *(26 01 50 52-0039)*

26 01 50 52-0044	EA	1 Lamp, 21 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	122.36	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*7.00*	
26 01 50 52-0045	EA	2 Lamp, 21 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	128.01	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*7.00*	

26 01 50 52-0046 28 Watt, T5 Fluorescent Electronic Ballasts *(26 01 50 52-0039)*

26 01 50 52-0047	EA	1 Lamp, 28 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	122.36	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*7.00*	
26 01 50 52-0048	EA	2 Lamp, 28 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	128.01	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*7.00*	

26 01 50 52-0049 35 Watt, T5 Fluorescent Electronic Ballasts *(26 01 50 52-0039)*

26 01 50 52-0050	EA	1 Lamp, 35 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	122.36	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0051	EA	2 Lamp, 35 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	128.01	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	

26 01 50 52-0052 54 Watt, T5 Fluorescent Electronic Ballasts *(26 01 50 52-0039)*

26 01 50 52-0053	EA	1 Lamp, 54 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	122.22	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0054	EA	2 Lamp, 54 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	127.87	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0055	EA	3 Lamp, 54 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	175.40	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0056	EA	4 Lamp, 54 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast	181.07	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	

26 01 50 52-0057 High-Output, T5HO Fluorescent Electronic Ballasts *(26 01 50 52-0038)*

Note: Includes 120/277 Volt and normal ballast factor.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0058		**12 Watt, High-Output, T5HO Fluorescent Electronic Ballasts** *(26 01 50 52-0057)*		
26 01 50 52-0059	EA	1 Lamp, 12 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast	102.48	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0060	EA	2 Lamp, 12 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast	108.13	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0061		**24 Watt, High-Output, T5HO Fluorescent Electronic Ballasts** *(26 01 50 52-0057)*		
26 01 50 52-0062	EA	1 Lamp, 24 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast	134.26	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0063	EA	2 Lamp, 24 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast	139.91	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0064		**39 Watt, High-Output, T5HO Fluorescent Electronic Ballasts** *(26 01 50 52-0057)*		
26 01 50 52-0065	EA	1 Lamp, 39 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast	134.26	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0066	EA	2 Lamp, 39 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast	139.91	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0067		**54 Watt, High-Output, T5HO Fluorescent Electronic Ballasts** *(26 01 50 52-0057)*		
26 01 50 52-0068	EA	1 Lamp, 54 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast	102.48	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0069	EA	2 Lamp, 54 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast	108.13	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0070		**Dimming, T5 Fluorescent Electronic Ballasts** *(26 01 50 52-0038)*		
26 01 50 52-0071		**Step Dimming, T5 Fluorescent Electronic Ballasts** *(26 01 50 52-0070)* Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0072		**28 Watt, Step Dimming, T5 Fluorescent Electronic Ballast** *(26 01 50 52-0071)*		
26 01 50 52-0073	EA	2 Lamp, 28 Watt, Programmed Start, Step Dimming, T5 Fluorescent Electronic Ballast	126.18	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0074		**Dimming To 5%, T5 Fluorescent Electronic Ballasts** *(26 01 50 52-0070)* Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0075		**54 Watt, Dimming To 5%, High-Output, T5HO Fluorescent Electronic Ballasts** *(26 01 50 52-0074)*		
26 01 50 52-0076	EA	1 Lamp, 54 Watt, Programmed Start, Dimming To 5%, High-Output, T5HO Fluorescent Electronic Ballast	435.34	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0077	EA	2 Lamp, 54 Watt, Programmed Start, Dimming To 5%, High-Output, T5HO Fluorescent Electronic Ballast	428.98	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0078		**T8 Fluorescent Ballasts** *(26 01 50 52-0002)*		
26 01 50 52-0079		**T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0078)* Note: Includes 120/277 Volt and low or normal ballast factor.		
26 01 50 52-0080		**17 Watt, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0079)*		
26 01 50 52-0081	EA	1 Lamp, 17 Watt, Instant Start, T8 Fluorescent Electronic Ballast	53.11	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*17.03*	
26 01 50 52-0082	EA	1 Lamp, 17 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	94.08	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0083	EA	2 Lamp, 17 Watt, Instant Start, T8 Fluorescent Electronic Ballast	58.76	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*17.03*	
26 01 50 52-0084	EA	2 Lamp, 17 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	99.73	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0085	EA	3 Lamp, 17 Watt, Instant Start, T8 Fluorescent Electronic Ballast	71.63	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
		For High Ballast Factor, Add	*16.58*	
26 01 50 52-0086	EA	3 Lamp, 17 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	111.70	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
		For High Ballast Factor, Add	*9.52*	
26 01 50 52-0087	EA	4 Lamp, 17 Watt, Instant Start, T8 Fluorescent Electronic Ballast	81.97	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
		For High Ballast Factor, Add	*41.98*	
26 01 50 52-0088	EA	4 Lamp, 17 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	122.27	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
		For High Ballast Factor, Add	*24.50*	
26 01 50 52-0089		**25 Watt, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0079)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0090	EA	1 Lamp, 25 Watt, Instant Start, T8 Fluorescent Electronic Ballast	53.11	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*17.03*	
26 01 50 52-0091	EA	1 Lamp, 25 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	94.08	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0092	EA	2 Lamp, 25 Watt, Instant Start, T8 Fluorescent Electronic Ballast	58.76	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*17.03*	
26 01 50 52-0093	EA	2 Lamp, 25 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	99.73	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0094	EA	3 Lamp, 25 Watt, Instant Start, T8 Fluorescent Electronic Ballast	71.63	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
		For High Ballast Factor, Add	*16.58*	
26 01 50 52-0095	EA	3 Lamp, 25 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	111.70	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
		For High Ballast Factor, Add	*9.52*	
26 01 50 52-0096	EA	4 Lamp, 25 Watt, Instant Start, T8 Fluorescent Electronic Ballast	81.97	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
		For High Ballast Factor, Add	*41.98*	
26 01 50 52-0097	EA	4 Lamp, 25 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	122.27	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
		For High Ballast Factor, Add	*24.50*	
26 01 50 52-0098		**28 Watt, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0079)*		
26 01 50 52-0099	EA	1 Lamp, 28 Watt, Instant Start, T8 Fluorescent Electronic Ballast	53.11	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*17.03*	
26 01 50 52-0100	EA	1 Lamp, 28 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	94.08	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0101	EA	2 Lamp, 28 Watt, Instant Start, T8 Fluorescent Electronic Ballast	58.76	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*17.03*	
26 01 50 52-0102	EA	2 Lamp, 28 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	99.73	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0103	EA	3 Lamp, 28 Watt, Instant Start, T8 Fluorescent Electronic Ballast	71.63	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
		For High Ballast Factor, Add	*16.58*	
26 01 50 52-0104	EA	3 Lamp, 28 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	111.70	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
		For High Ballast Factor, Add	*9.52*	
26 01 50 52-0105	EA	4 Lamp, 28 Watt, Instant Start, T8 Fluorescent Electronic Ballast	81.97	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
		For High Ballast Factor, Add	*41.98*	
26 01 50 52-0106	EA	4 Lamp, 28 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	122.27	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
		For High Ballast Factor, Add	*24.50*	
26 01 50 52-0107		**32 Watt, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0079)*		
26 01 50 52-0108	EA	1 Lamp, 32 Watt, Instant Start, T8 Fluorescent Electronic Ballast	53.11	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*17.03*	
26 01 50 52-0109	EA	1 Lamp, 32 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	94.08	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0110	EA	2 Lamp, 32 Watt, Instant Start, T8 Fluorescent Electronic Ballast	58.76	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*17.03*	
26 01 50 52-0111	EA	2 Lamp, 32 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	99.73	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0112	EA	3 Lamp, 32 Watt, Instant Start, T8 Fluorescent Electronic Ballast	71.63	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
		For High Ballast Factor, Add	*16.58*	
26 01 50 52-0113	EA	3 Lamp, 32 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	111.70	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
		For High Ballast Factor, Add	*9.52*	
26 01 50 52-0114	EA	4 Lamp, 32 Watt, Instant Start, T8 Fluorescent Electronic Ballast	81.97	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
		For High Ballast Factor, Add	*41.98*	
26 01 50 52-0115	EA	4 Lamp, 32 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	122.27	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
		For High Ballast Factor, Add	*24.50*	
26 01 50 52-0116		**40 Watt, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0079)*		
26 01 50 52-0117	EA	1 Lamp, 40 Watt, Instant Start, T8 Fluorescent Electronic Ballast	85.40	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*7.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0118	EA	1 Lamp, 40 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	94.08	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0119	EA	2 Lamp, 40 Watt, Instant Start, T8 Fluorescent Electronic Ballast	91.05	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*7.28*	
26 01 50 52-0120	EA	2 Lamp, 40 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	99.73	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*11.20*	
26 01 50 52-0121	EA	3 Lamp, 40 Watt, Instant Start, T8 Fluorescent Electronic Ballast	113.80	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
		For High Ballast Factor, Add	*4.48*	
26 01 50 52-0122	EA	3 Lamp, 40 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	111.70	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0123	EA	4 Lamp, 40 Watt, Instant Start, T8 Fluorescent Electronic Ballast	119.47	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
		For High Ballast Factor, Add	*4.48*	
26 01 50 52-0124	EA	4 Lamp, 40 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast	122.27	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0125		96 Watt, T8 Fluorescent Electronic Ballasts *(26 01 50 52-0079)*		
26 01 50 52-0126	EA	1 Lamp, 96 Watt, Instant Start, T8 Fluorescent Electronic Ballast	102.48	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
		For High Ballast Factor, Add	*15.60*	
26 01 50 52-0127	EA	2 Lamp, 96 Watt, Instant Start, T8 Fluorescent Electronic Ballast	108.13	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
		For High Ballast Factor, Add	*15.60*	
26 01 50 52-0128		High-Output, T8HO Fluorescent Electronic Ballasts *(26 01 50 52-0078)*		
		Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0129		48 Watt, High-Output, T8HO Fluorescent Electronic Ballasts *(26 01 50 52-0128)*		
26 01 50 52-0130	EA	1 Lamp, 48 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast	124.46	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0131	EA	1 Lamp, 48 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast	162.43	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0132	EA	2 Lamp, 48 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast	130.11	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0133	EA	2 Lamp, 48 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast	168.08	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0134		60 Watt, High-Output, T8HO Fluorescent Electronic Ballasts *(26 01 50 52-0128)*		
26 01 50 52-0135	EA	1 Lamp, 60 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast	124.46	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0136	EA	1 Lamp, 60 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast	162.43	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0137	EA	2 Lamp, 60 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast	130.11	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0138	EA	2 Lamp, 60 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast	168.08	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0139		72 Watt, High-Output, T8HO Fluorescent Electronic Ballasts *(26 01 50 52-0128)*		
26 01 50 52-0140	EA	1 Lamp, 72 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast	124.46	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0141	EA	1 Lamp, 72 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast	162.43	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0142	EA	2 Lamp, 72 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast	130.11	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0143	EA	2 Lamp, 72 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast	168.08	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0144		96 Watt, High-Output, T8HO Fluorescent Electronic Ballasts *(26 01 50 52-0128)*		
26 01 50 52-0145	EA	1 Lamp, 96 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast	124.46	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0146	EA	1 Lamp, 96 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast	162.43	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0147	EA	2 Lamp, 96 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast	130.11	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0148	EA	2 Lamp, 96 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast	168.08	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0149		Dimming, T8 Fluorescent Electronic Ballasts *(26 01 50 52-0078)*		
26 01 50 52-0150		Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts *(26 01 50 52-0149)*		
		Note: Includes 120/277 Volt and high ballast factor.		
26 01 50 52-0151		17 Watt, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts *(26 01 50 52-0150)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0152	EA	1 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0153	EA	2 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0154	EA	3 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	86.97	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0155	EA	4 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0156	EA	5 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	160.51	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0157	EA	6 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	166.18	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0158		**25 Watt, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0150)*		
26 01 50 52-0159	EA	1 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0160	EA	2 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0161	EA	3 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	86.97	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0162	EA	4 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0163	EA	5 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	160.51	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0164	EA	6 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	166.18	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0165		**28 Watt, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0150)*		
26 01 50 52-0166	EA	1 Lamp, 28 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0167	EA	2 Lamp, 28 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0168	EA	3 Lamp, 28 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	86.97	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0169	EA	4 Lamp, 28 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0170	EA	5 Lamp, 28 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	160.51	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0171	EA	6 Lamp, 28 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	166.18	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0172		**32 Watt, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0150)*		
26 01 50 52-0173	EA	1 Lamp, 32 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0174	EA	2 Lamp, 32 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0175	EA	3 Lamp, 32 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	86.97	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0176	EA	4 Lamp, 32 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0177	EA	5 Lamp, 32 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	160.51	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0178	EA	6 Lamp, 32 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	166.18	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0179		**40 Watt, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0150)*		
26 01 50 52-0180	EA	1 Lamp, 40 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0181	EA	2 Lamp, 40 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0182	EA	3 Lamp, 40 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	86.97	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0183	EA	4 Lamp, 40 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0184	EA	5 Lamp, 40 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	160.51	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0185	EA	6 Lamp, 40 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast	166.18	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0186		**Step Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0149)* Note: Includes 120/277 Volt and high ballast factor.		
26 01 50 52-0187		**17 Watt, Step Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0186)*		
26 01 50 52-0188	EA	1 Lamp, 17 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0189	EA	2 Lamp, 17 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0190	EA	3 Lamp, 17 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	84.47	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0191	EA	4 Lamp, 17 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0192	EA	5 Lamp, 17 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	152.55	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0193	EA	6 Lamp, 17 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	158.22	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0194		**25 Watt, Step Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0186)*		
26 01 50 52-0195	EA	1 Lamp, 25 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0196	EA	2 Lamp, 25 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0197	EA	3 Lamp, 25 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	84.47	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0198	EA	4 Lamp, 25 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0199	EA	5 Lamp, 25 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	152.55	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0200	EA	6 Lamp, 25 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	158.22	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0201		**28 Watt, Step Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0186)*		
26 01 50 52-0202	EA	1 Lamp, 28 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0203	EA	2 Lamp, 28 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0204	EA	3 Lamp, 28 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	84.47	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0205	EA	4 Lamp, 28 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0206	EA	5 Lamp, 28 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	152.55	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0207	EA	6 Lamp, 28 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	158.22	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0208		**32 Watt, Step Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0186)*		
26 01 50 52-0209	EA	1 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0210	EA	2 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0211	EA	3 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	84.47	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0212	EA	4 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0213	EA	5 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	152.55	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0214	EA	6 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	158.22	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0215		**40 Watt, Step Dimming, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0186)*		
26 01 50 52-0216	EA	1 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	70.03	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0217	EA	2 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	75.68	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0218	EA	3 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	84.47	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0219	EA	4 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	105.12	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0220	EA	5 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	152.55	45.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0221	EA	6 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast	158.22	50.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.30*	
26 01 50 52-0222		**Dimming To 3%, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0149)*		
		Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0223		**17 Watt, Dimming To 3%, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0222)*		
26 01 50 52-0224	EA	1 Lamp, 17 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	153.58	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0225	EA	2 Lamp, 17 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	159.23	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0226	EA	3 Lamp, 17 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	190.24	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0227	EA	4 Lamp, 17 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	195.91	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0228		**25 Watt, Dimming To 3%, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0222)*		
26 01 50 52-0229	EA	1 Lamp, 25 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	153.58	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0230	EA	2 Lamp, 25 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	159.23	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0231	EA	3 Lamp, 25 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	190.24	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0232	EA	4 Lamp, 25 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	195.91	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0233		**28 Watt, Dimming To 3%, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0222)*		
26 01 50 52-0234	EA	1 Lamp, 28 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	153.58	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0235	EA	2 Lamp, 28 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	159.23	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0236	EA	3 Lamp, 28 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	190.24	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0237	EA	4 Lamp, 28 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	195.91	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0238		**32 Watt, Dimming To 3%, T8 Fluorescent Electronic Ballasts** *(26 01 50 52-0222)*		
26 01 50 52-0239	EA	1 Lamp, 32 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	153.58	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0240	EA	2 Lamp, 32 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	159.23	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0241	EA	3 Lamp, 32 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	190.24	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0242	EA	4 Lamp, 32 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast	195.91	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0243		**T10 Fluorescent Ballasts** *(26 01 50 52-0002)*		
26 01 50 52-0244		**T10 Fluorescent Electronic Ballasts** *(26 01 50 52-0243)*		
		Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0245		**40 Watt, T10 Fluorescent Electronic Ballasts** *(26 01 50 52-0244)*		
26 01 50 52-0246	EA	1 Lamp, 40 Watt, Program/Rapid Start, T10 Fluorescent Electronic Ballast	75.59	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0247	EA	2 Lamp, 40 Watt, Program/Rapid Start, T10 Fluorescent Electronic Ballast	81.24	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0248	EA	3 Lamp, 40 Watt, Program/Rapid Start, T10 Fluorescent Electronic Ballast	99.66	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0249		**T12 Fluorescent Ballasts** *(26 01 50 52-0002)*		
26 01 50 52-0250		**T12 Fluorescent Electronic Ballasts** *(26 01 50 52-0249)*		
		Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0251		**25 Watt, T12 Fluorescent Electronic Ballasts** *(26 01 50 52-0250)*		
26 01 50 52-0252	EA	1 Lamp, 25 Watt, Instant Start, T12 Fluorescent Electronic Ballast	53.11	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0253	EA	1 Lamp, 25 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	75.59	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0254	EA	2 Lamp, 25 Watt, Instant Start, T12 Fluorescent Electronic Ballast	58.76	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0255	EA	2 Lamp, 25 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	81.24	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0256	EA	3 Lamp, 25 Watt, Instant Start, T12 Fluorescent Electronic Ballast	71.63	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0257	EA	4 Lamp, 25 Watt, Instant Start, T12 Fluorescent Electronic Ballast	81.97	39.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0258		**30 Watt, T12 Fluorescent Electronic Ballasts** *(26 01 50 52-0250)*		
26 01 50 52-0259	EA	1 Lamp, 30 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	75.59	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0260	EA	2 Lamp, 30 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	81.24	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0261	EA	3 Lamp, 30 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	99.66	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0262		**34 Watt, T12 Fluorescent Electronic Ballasts** *(26 01 50 52-0250)*		
26 01 50 52-0263	EA	1 Lamp, 34 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	75.59	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0264	EA	2 Lamp, 34 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	81.24	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0265	EA	3 Lamp, 34 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	99.66	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0266		**40 Watt, T12 Fluorescent Electronic Ballasts** *(26 01 50 52-0250)*		
26 01 50 52-0267	EA	1 Lamp, 40 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	75.59	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0268	EA	2 Lamp, 40 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	81.24	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0269	EA	3 Lamp, 40 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	99.66	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0270		**96 Watt, T12 Fluorescent Electronic Ballasts** *(26 01 50 52-0250)*		
26 01 50 52-0271	EA	1 Lamp, 96 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	95.06	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0272	EA	2 Lamp, 96 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast	108.13	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0273		**High-Output, T12HO Fluorescent Electronic Ballasts** *(26 01 50 52-0249)*		
		Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0274		**48 Watt, High-Output, T12HO Fluorescent Electronic Ballasts** *(26 01 50 52-0273)*		
26 01 50 52-0275	EA	1 Lamp, 48 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	124.88	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0276	EA	2 Lamp, 48 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	130.53	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0277		**60 Watt, High-Output, T12HO Fluorescent Electronic Ballasts** *(26 01 50 52-0273)*		
26 01 50 52-0278	EA	1 Lamp, 60 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	124.88	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0279	EA	2 Lamp, 60 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	130.53	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0280		**72 Watt, High-Output, T12HO Fluorescent Electronic Ballasts** *(26 01 50 52-0273)*		
26 01 50 52-0281	EA	1 Lamp, 72 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	124.88	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0282	EA	2 Lamp, 72 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	130.53	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0283		**96 Watt, High-Output, T12HO Fluorescent Electronic Ballasts** *(26 01 50 52-0273)*		
26 01 50 52-0284	EA	2 Lamp, 96 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	124.88	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0285	EA	2 Lamp, 96 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	130.53	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0286		**Emergency Fluorescent Ballasts** *(26 01 50 52-0002)*		
		Note: 120/277 Volt.		
26 01 50 52-0287	EA	350 To 450 Lumens, One Lamp, Code Compliance, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B100)	194.91	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0288	EA	600 To 700 Lumens, Two Lamp, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B60)	323.78	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0289	EA	1,100 To 1,400 Lumens, One Or Two Lamp, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B50)	403.61	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0290	EA	600 To 700 Lumens, One Or Two Lamp, Two Hour Illumination, Emergency Fluorescent Ballast (Bodine B70A)	297.09	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0291	EA	2,700 To 3,400 Lumens, Two Or Three Lamp, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B33)	1,413.07	33.99
		For Factory Installation In New Fixtures, Deduct	*-49.85*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.96*	
26 01 50 52-0292	EA	225 To 450 Lumens, One Lamp, Four Hour Illumination, Emergency Fluorescent Ballast (Bodine B54)	409.74	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0293	EA	325 To 1,000 Lumens, One Or Two Lamp, Ninety Minute Illumination, Emergency Compact Fluorescent Ballast (Bodine B84CG)	689.97	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0294	EA	300 To 750 Lumens, One Or Two Lamp, Ninety Minute Illumination, Emergency Compact Fluorescent Ballast (Bodine B94CG)	377.32	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0295	EA	200 To 625 Lumens, One Lamp, Ninety Minute Illumination, Damp Location, Emergency Compact Fluorescent Ballast (Bodine B413)	516.74	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0296	EA	300 To 650 Lumens, One Lamp, Damp Location, Ninety Minute Illumination, Emergency Compact Fluorescent Ballast (Bodine B463)	399.55	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0297	EA	450 To 950 Lumens, One Or Two Lamp, Ninety Minute Illumination, Damp Location, Emergency Compact Fluorescent Ballast (Bodine B426)	451.69	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0298	EA	1,100 To 1,400 Lumens, One Or Two Lamp, Ninety Minute Illumination, Damp Location, Emergency Fluorescent Ballast (Bodine BDL500)	489.24	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0299	EA	600 To 700 Lumens, Two Lamp, Damp Location, Emergency Fluorescent Ballast (Bodine BDL600)	410.92	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0300	EA	600 To 700 Lumens, One Lamp, Two Hour Illumination, Emergency Fluorescent Ballast (Bodine BDL700)	417.53	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0301	EA	500 To 600 Lumens, One Lamp, Damp Location, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine BDL900)	363.23	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0302	EA	300 To 750 Lumens, One Or Two Lamp, Damp Location, Ninety Minute Illumination, Emergency Compact Fluorescent Ballast (Bodine BDL94C)	377.32	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0303	EA	450 Lumens, One Lamp, Low Profile, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine LP400)	369.08	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0304	EA	1,100 To 1,400 Lumens, One Or Two Lamp, Self Testing, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B50ST)	679.05	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0305	EA	1,800 To 3,500 Lumens, One Or Two Lamp, Self Testing, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B30ST)	850.34	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0306	EA	1,450 To 3,500 Lumens, One Or Two Lamp, Remote Control Testing, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B30RCT)	1,595.43	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0307	EA	1,100 To 1,400 Lumens, One Or Two Lamp, Remote Control Testing, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B50RCT)	1,106.78	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0308	EA	1,100 To 3,100 Lumens, One Or Two Lamp, Central Battery, Emergency Fluorescent Ballast With Voltage Sensing Circuit (Bodine CB90-48)	560.45	28.32
		For Factory Installation In New Fixtures, Deduct	*-47.59*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.28*	
26 01 50 52-0309	EA	1,050 To 3,200 Lumens, One Lamp, Interim Lighting For Generator Backup, Five Minute Illumination, Emergency Fluorescent Ballast (Bodine GEN1)	728.24	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0310	EA	250 Watt, Self-Diagnostic, Ninety Minute Illumination, Fluorescent Emergency Lighting Inverter (Bodine ELI-250-SD)	4,095.73	28.32
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	

26 01 50 52-0311 LED Emergency Ballasts *(26 01 50 52-0001)*

26 01 50 52-0312	EA	Up To 520 Lumens, Ninety Minute Illumination, 120-277 Volt, 4 Watt Output, Emergency LED Driver (Bodine BSL4L)	143.09	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0313	EA	Up To 780 Lumens, Ninety Minute Illumination, 120-277 Volt, 6 Watt Output, Emergency LED Driver (Bodine BSL6LST)	215.62	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0314	EA	Up To 975 Lumens, Ninety Minute Illumination, 120-277 Volt, 7.5 Watt Output, Emergency LED Driver (Bodine BSL17C)	259.12	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0315	EA	Up To 1,300 Lumens, Ninety Minute Illumination, 120-277 Volt, 10 Watt Output, Emergency LED Driver (Bodine BSL310)	290.17	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0316	EA	Up To 2,200 Lumens, Ninety Minute Illumination, 120-277 Volt, 18 Watt Output, Emergency LED Driver (Bodine BSL718)	298.02	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0317	EA	Up To 2,600 Lumens, Ninety Minute Illumination, 120-277 Volt, 20 Watt Output, Emergency LED Driver (Bodine BSL20LV)	388.92	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0318	EA	Up To 2,300 Lumens, Ninety Minute Illumination, 120-277 Volt, 23 Watt LED Emergency Battery Backup (LiteTronics EB23UQ)	461.85	22.67
		For Factory Installation In New Fixtures, Deduct	*-45.32*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.60*	
26 01 50 52-0319		Compact Fluorescent Ballasts *(26 01 50 52-0001)*		
26 01 50 52-0320		Compact Fluorescent Electronic Ballasts *(26 01 50 52-0319)* Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0321		18 Watt, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0320)*		
26 01 50 52-0322	EA	1 Lamp, 18 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	115.64	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0323	EA	2 Lamp, 18 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	121.29	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0324		26 Watt, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0320)*		
26 01 50 52-0325	EA	1 Lamp, 26 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	115.64	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0326	EA	2 Lamp, 26 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	121.29	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0327		32 Watt, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0320)*		
26 01 50 52-0328	EA	1 Lamp, 32 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	143.78	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0329	EA	2 Lamp, 32 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	149.43	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0330		40 Watt, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0320)*		
26 01 50 52-0331	EA	1 Lamp, 40 Watt, Instant Start, Compact Fluorescent Electronic Ballast	112.28	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0332	EA	1 Lamp, 40 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	143.78	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0333	EA	2 Lamp, 40 Watt, Instant Start, Compact Fluorescent Electronic Ballast	212.47	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0334	EA	2 Lamp, 40 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	149.43	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0335	EA	3 Lamp, 40 Watt, Instant Start, Compact Fluorescent Electronic Ballast	251.08	33.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.20*	
26 01 50 52-0336		42 Watt, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0320)*		
26 01 50 52-0337	EA	1 Lamp, 42 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	143.78	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0338	EA	2 Lamp, 42 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	149.43	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0339		55 Watt, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0320)*		
26 01 50 52-0340	EA	1 Lamp, 55 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	143.78	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0341	EA	2 Lamp, 55 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	149.43	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0342		Dimming, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0319)*		
26 01 50 52-0343		Dimming To 5%, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0342)* Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0344		18 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0343)*		
26 01 50 52-0345	EA	1 Lamp, 18 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	215.75	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0346	EA	2 Lamp, 18 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	221.40	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0347		26 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0343)*		
26 01 50 52-0348	EA	1 Lamp, 26 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	215.75	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	

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26 01 50 52-0349	EA	2 Lamp, 26 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	221.40	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0350		32 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0343)*		
26 01 50 52-0351	EA	1 Lamp, 32 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	215.75	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0352	EA	2 Lamp, 32 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	236.94	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0353		40 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0343)*		
26 01 50 52-0354	EA	2 Lamp, 40 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	236.94	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0355		42 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0343)*		
26 01 50 52-0356	EA	1 Lamp, 42 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	215.75	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0357	EA	2 Lamp, 42 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	236.94	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0358		55 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts *(26 01 50 52-0343)*		
26 01 50 52-0359	EA	1 Lamp, 55 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	345.96	22.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0360	EA	2 Lamp, 55 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	388.15	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0361		High Intensity Discharge (HID) Ballasts *(26 01 50 52-0001)*		
26 01 50 52-0362		Magnetic High Intensity Discharge (HID) Ballasts *(26 01 50 52-0361)*		
26 01 50 52-0363		Core And Coil High Intensity Discharge (HID) Ballasts *(26 01 50 52-0362)*		
26 01 50 52-0364		Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts *(26 01 50 52-0363)*		
26 01 50 52-0365	EA	1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	255.56	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0366	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	262.54	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0367	EA	1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	262.54	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0368	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	242.66	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0369	EA	1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	242.66	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0370	EA	1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	375.87	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0371	EA	1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	375.87	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0372	EA	1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	493.20	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0373	EA	1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	553.05	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0374		High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts *(26 01 50 52-0363)*		
26 01 50 52-0375	EA	1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	227.97	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0376	EA	1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	243.58	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0377	EA	1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	236.84	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0378	EA	1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	283.76	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0379	EA	1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	277.05	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0380	EA	1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	320.59	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0381	EA	1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	320.59	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0382	EA	1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	393.01	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0383	EA	1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	393.01	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0384	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	647.11	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	

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26 01 50 52-0385	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	647.11	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0386		**Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0363)*		
26 01 50 52-0387	EA	Single Mounting Bracket For Core And Coil Type	17.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.40*	
26 01 50 52-0388	EA	Double Mounting Bracket For Core And Coil Type	29.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.10*	
26 01 50 52-0389		**F-Can High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0362)*		
26 01 50 52-0390		**Metal Halide, F-Can High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0389)*		
26 01 50 52-0391	EA	1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	332.45	28.32
		For Pulse Start Ballast, Add	*29.28*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0392	EA	1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	351.82	28.32
		For Pulse Start Ballast, Add	*31.22*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0393	EA	1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	317.79	28.32
		For Pulse Start Ballast, Add	*27.81*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0394	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	373.71	28.32
		For Pulse Start Ballast, Add	*33.41*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0395	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	530.43	28.32
		For Pulse Start Ballast, Add	*49.08*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0396		**High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0389)*		
26 01 50 52-0397	EA	1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	405.84	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0398	EA	1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	436.03	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0399		**Postline High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0362)*		
26 01 50 52-0400		**Metal Halide, Postline High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0399)*		
26 01 50 52-0401	EA	1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast	695.25	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0402		**High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0399)*		
26 01 50 52-0403	EA	1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast	1,087.24	28.25
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.87*	
26 01 50 52-0404	EA	1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast	1,215.93	28.25
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.87*	
26 01 50 52-0405	EA	1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast	1,171.41	28.25
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.87*	
26 01 50 52-0406		**Indoor Enclosed High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0362)*		
26 01 50 52-0407		**Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0406)*		
26 01 50 52-0408	EA	1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	862.89	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0409	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	983.40	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0410	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	1,308.39	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0411	EA	1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	1,301.39	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0412	EA	2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	1,833.57	30.59
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*12.58*	
26 01 50 52-0413	EA	2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	1,833.57	30.59
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*12.58*	
26 01 50 52-0414	EA	1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	1,253.58	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0415	EA	1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	1,480.08	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0416		**High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts** *(26 01 50 52-0406)*		
26 01 50 52-0417	EA	1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	1,635.82	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	

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26 01 50 52-0418	EA	1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	1,556.00	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0419	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	2,008.58	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0420	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast	2,008.58	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0421		Outdoor Weatherproof High Intensity Discharge (HID) Ballasts *(26 01 50 52-0362)*		
26 01 50 52-0422		Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts *(26 01 50 52-0421)*		
26 01 50 52-0423	EA	1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	973.32	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0424	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,053.75	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0425	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,045.83	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0426	EA	1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,099.71	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0427	EA	2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,763.31	30.59
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*12.58*	
26 01 50 52-0428	EA	2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	2,174.78	30.59
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*12.58*	
26 01 50 52-0429	EA	1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,645.18	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0430	EA	1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,495.15	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0431		High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts *(26 01 50 52-0421)*		
26 01 50 52-0432	EA	1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,265.17	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0433	EA	1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,366.62	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0434	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	2,055.41	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0435	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,764.39	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0436		Electronic High Intensity Discharge (HID) Ballasts *(26 01 50 52-0361)*		
26 01 50 52-0437		Electronic Low Frequency High Intensity Discharge (HID) Ballasts *(26 01 50 52-0436)*		
26 01 50 52-0438	EA	1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	371.02	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0439	EA	1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	371.02	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0440	EA	1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	421.88	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0441	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	1,134.40	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0442	EA	1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	1,134.40	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0443	EA	1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	1,134.40	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0444	EA	1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	1,134.40	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0445	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	1,134.40	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0446		Owner Supplied Ballasts *(26 01 50 52-0001)*		
26 01 50 52-0447	EA	Install Owner Supplied, 1 Lamp Fluorescent Ballast	22.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 01 50 52-0448	EA	Install Owner Supplied, 2 Lamp Fluorescent Ballast	28.32	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.50*	
26 01 50 52-0449	EA	Install Owner Supplied, 3 Lamp Fluorescent Ballast	32.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*9.86*	
26 01 50 52-0450	EA	Install Owner Supplied, 4 Lamp Fluorescent Ballast	35.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.54*	
26 01 50 52-0451	EA	Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast	39.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.90*	
26 01 50 52-0452	EA	Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast	41.93	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*12.58*	

26 01 50 53 Lens and Accessory Replacement *(26 01 50)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 53-0001		**Lens and Accessory Replacement** *(26 01 50 53)*		
26 01 50 53-0002	EA	Removal And Replacement Of Parabolic Aluminum Louver	84.28	
26 01 50 53-0003	EA	Removal And Replacement Of Visor For Fixtures	181.62	
26 01 50 53-0004	EA	Removal And Replacement Of Globe On Pole	209.03	
26 01 50 53-0005	EA	Removal And Replacement Of Lenses For Flat Top Pole Fixtures	86.18	
26 01 50 53-0006	EA	Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser	29.32	
26 01 50 53-0007	EA	Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser	30.40	
26 01 50 53-0008	EA	Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser	35.08	
26 01 50 53-0009	EA	Removal And Replacement Of Slide-On Lampholder	12.99	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.39*	
26 01 50 53-0010	EA	Removal And Replacement Of Screw Mount Lampholder	13.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.39*	
26 01 50 53-0011	EA	Removal And Replacement Of Medium Bi-Pin Lampholder	14.59	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.39*	
26 01 50 53-0012	EA	Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type	16.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.39*	
26 01 50 53-0013	EA	Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type	18.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.39*	
26 01 50 53-0014	EA	Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in	14.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.39*	
26 01 50 53-0015	EA	Removal And Replacement Of Exterior Light Globes	54.93	
26 01 50 81		**Luminaire Replacement** *(26 01 50)*		
26 01 50 81-0001		Retrofit Lighting Fixtures *(26 01 50 81)*		
26 01 50 81-0002		LED Lighting Retrofits For Existing Fixtures *(26 01 50 81-0001)*		
26 01 50 81-0003		LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative) *(26 01 50 81-0002)*		
		Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0004	EA	7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927)	105.86	
26 01 50 81-0005	EA	7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930)	105.86	
26 01 50 81-0006	EA	7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940)	105.86	
26 01 50 81-0007	EA	4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827)	86.49	
26 01 50 81-0008	EA	4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830)	86.49	
26 01 50 81-0009	EA	4" Diameter, 8.5 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840)	86.49	
26 01 50 81-0010	EA	6" Diameter, 11.6 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827)	94.65	
26 01 50 81-0011	EA	6" Diameter, 11.6 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830)	94.65	
26 01 50 81-0012	EA	6" Diameter, 11.6 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840)	94.65	
26 01 50 81-0013		LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) *(26 01 50 81-0002)*		
		Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0014	EA	2,300 Lumens, 23 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-20w)	313.38	
26 01 50 81-0015	EA	3,300 Lumens, 33 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-30w)	325.62	
26 01 50 81-0016	EA	4,400 Lumens, 44 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-40w)	337.86	
26 01 50 81-0017	EA	5,400 Lumens, 54 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-50w)	352.35	
26 01 50 81-0018	EA	6,500 Lumens, 65 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-60w)	388.04	
26 01 50 81-0019	EA	7,600 Lumens, 75 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-70w)	402.54	
26 01 50 81-0020	EA	8,600 Lumens, 86 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-80w)	436.19	
26 01 50 81-0021	EA	9,600 Lumens, 96 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-90w)	448.43	
26 01 50 81-0022	EA	10,700 Lumens, 107 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-100w)	462.92	
26 01 50 81-0023	EA	11,700 Lumens, 117 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-110w)	485.35	
26 01 50 81-0024	EA	12,800 Lumens, 128 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-120w)	509.03	
26 01 50 81-0025	EA	13,800 Lumens, 138 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-130w)	532.48	
26 01 50 81-0026	EA	14,900 Lumens, 149 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-140w)	544.72	
26 01 50 81-0027	EA	16,100 Lumens, 161 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-150w)	565.11	
26 01 50 81-0028	EA	17,200 Lumens, 172 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-160w)	588.90	
26 01 50 81-0029	EA	18,200 Lumens, 182 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-170w)	614.39	
26 01 50 81-0030	EA	19,300 Lumens, 193 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-180w)	653.14	
26 01 50 81-0031	EA	20,300 Lumens, 203 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-190w)	670.47	
26 01 50 81-0032	EA	21,400 Lumens, 214 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-200w)	700.26	
26 01 50 81-0033	EA	22,400 Lumens, 224 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-210w)	740.03	
26 01 50 81-0034	EA	23,500 Lumens, 235 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-220w)	760.43	
26 01 50 81-0035	EA	24,500 Lumens, 245 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-230w)	808.68	
26 01 50 81-0036	EA	25,600 Lumens, 256 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-240w)	853.55	
26 01 50 81-0037	EA	26,600 Lumens, 266 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-250w)	884.36	
26 01 50 81-0038	EA	27,700 Lumens, 277 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-260w)	928.21	
26 01 50 81-0039	EA	28,700 Lumens, 287 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-270w)	1,013.06	
26 01 50 81-0040	EA	29,800 Lumens, 298 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-280w)	1,023.26	
26 01 50 81-0041	EA	31,900 Lumens, 319 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-300w)	1,049.08	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0042		LED Lighting Retrofits For Existing Fixtures (Optilumen) *(26 01 50 81-0002)* Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0043	EA	20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35) Note: Fits 1' x 4' Troffer/Strip	131.96	
26 01 50 81-0044	EA	20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40) Note: Fits 1' x 4' Troffer/Strip	131.96	
26 01 50 81-0045	EA	20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50) Note: Fits 1' x 4' Troffer/Strip	131.96	
26 01 50 81-0046	EA	30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35) Note: Fits 2' x 4' Troffer/Strip	137.06	
26 01 50 81-0047	EA	2 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2415M-40) Note: Fits 2' x 4' Troffer/Strip	137.06	
26 01 50 81-0048	EA	2 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2415M-50) Note: Fits 2' x 4' Troffer/Strip	137.06	
26 01 50 81-0049	EA	2 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2418M-35) Note: Fits 2' x 4' Troffer/Strip	147.25	
26 01 50 81-0050	EA	2 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2418M-40) Note: Fits 2' x 4' Troffer/Strip	147.25	
26 01 50 81-0051	EA	2 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2418M-50) Note: Fits 2' x 4' Troffer/Strip	147.25	
26 01 50 81-0052	EA	3 x 42", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3415M-35) Note: Fits 2' x 4' Troffer/Strip	137.06	
26 01 50 81-0053	EA	3 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3415M-40) Note: Fits 2' x 4' Troffer/Strip	137.06	
26 01 50 81-0054	EA	3 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3415M-50) Note: Fits 2' x 4' Troffer/Strip	137.06	
26 01 50 81-0055	EA	3 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3418M-35) Note: Fits 2' x 4' Troffer/Strip	147.25	
26 01 50 81-0056	EA	3 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3418M-40) Note: Fits 2' x 4' Troffer/Strip	147.25	
26 01 50 81-0057	EA	3 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3418M-50) Note: Fits 2' x 4' Troffer/Strip	147.25	
26 01 50 81-0058	EA	3 x 42", 60 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3424M-35) Note: Fits 2' x 4' Troffer/Strip	167.65	
26 01 50 81-0059	EA	3 x 42", 60 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3424M-40) Note: Fits 2' x 4' Troffer/Strip	167.65	
26 01 50 81-0060	EA	3 x 42", 60 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3424M-50) Note: Fits 2' x 4' Troffer/Strip	167.65	
26 01 50 81-0061	EA	1 x 21", 10 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT1209M-35) Note: Fits 1' x 2' Troffer/Strip	131.96	
26 01 50 81-0062	EA	1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40) Note: Fits 1' x 2' Troffer/Strip	131.96	
26 01 50 81-0063	EA	1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50) Note: Fits 1' x 2' Troffer/Strip	131.96	
26 01 50 81-0064	EA	2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35) Note: Fits 2' x 2' Troffer/Strip	131.96	
26 01 50 81-0065	EA	2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40) Note: Fits 2' x 2' Troffer/Strip	131.96	
26 01 50 81-0066	EA	2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50) Note: Fits 2' x 2' Troffer/Strip	131.96	
26 01 50 81-0067	EA	3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35) Note: Fits 2' x 2' Troffer/Strip	137.06	
26 01 50 81-0068	EA	3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40) Note: Fits 2' x 2' Troffer/Strip	137.06	
26 01 50 81-0069	EA	3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50) Note: Fits 2' x 2' Troffer/Strip	137.06	
26 01 50 81-0070	EA	3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35) Note: Fits 2' x 2' Troffer/Strip	143.17	
26 01 50 81-0071	EA	3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40) Note: Fits 2' x 2' Troffer/Strip	143.17	
26 01 50 81-0072	EA	3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50) Note: Fits 2' x 2' Troffer/Strip	143.17	
26 01 50 81-0073		LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG) *(26 01 50 81-0002)* Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0074	EA	34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN)	301.34	
26 01 50 81-0075	EA	34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN)	301.34	
26 01 50 81-0076	EA	26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN)	271.76	
26 01 50 81-0077	EA	26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN)	271.76	
26 01 50 81-0078	EA	25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV) Note: No sensor, ZigBee ready driver	134.47	
26 01 50 81-0079	EA	25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV) Note: No sensor, ZigBee ready driver	134.47	
26 01 50 81-0080	EA	31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV) Note: No sensor, ZigBee ready driver	153.84	
26 01 50 81-0081	EA	31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV) Note: No sensor, ZigBee ready driver	153.84	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0082	EA	25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV)	168.12	
		Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0083	EA	25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV)	168.12	
		Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0084	EA	31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV)	173.21	
		Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0085	EA	31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV)	173.21	
		Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0086	EA	2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120)	104.89	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0087	EA	2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120)	104.89	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0088	EA	2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880)	117.13	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0089	EA	2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880)	117.13	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0090	EA	2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L)	107.95	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0091	EA	2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L)	107.95	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0092	EA	2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L)	120.19	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0093	EA	2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L)	120.19	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0094	EA	6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450)	106.93	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0095	EA	6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450)	106.93	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0096	EA	8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000)	116.11	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0097	EA	8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000)	116.11	
		Note: No sensor, ZigBee ready driver		

26 01 50 81-0098 LED Lighting Retrofit Accessories (LG) *(26 01 50 81-0002)*

See CSI section 02 84 16 00-0003 for ballast recycling.

26 01 50 81-0099	EA	Dongle (LG LGE-DONGLE)	25.75	
26 01 50 81-0100	EA	1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B)	141.13	12.89
26 01 50 81-0101	EA	2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B)	146.28	15.46
26 01 50 81-0102	EA	1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B)	182.33	12.89
26 01 50 81-0103	EA	2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B)	187.48	15.46
26 01 50 81-0104	EA	Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR)	92.71	10.31
26 01 50 81-0105	EA	Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP)	29.10	10.31
26 01 50 81-0106	EA	Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE)	31.51	10.31
26 01 50 81-0107	EA	Wireless Interface Module (LG PIHN-W005A)	85.50	15.46
		Note: includes dongle		

26 01 50 81-0108 Retrofit Existing (T12) Fluorescent Fixtures *(26 01 50 81-0001)*

Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal.

26 01 50 81-0109 Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector *(26 01 50 81-0108)*

Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.

26 01 50 81-0110	EA	Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp	105.97
		For Specular Ballast Cover, Add	*13.28*
26 01 50 81-0111	EA	Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps	113.63
		For Specular Ballast Cover, Add	*14.82*
26 01 50 81-0112	EA	Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps	157.41
		For Specular Ballast Cover, Add	*23.57*
26 01 50 81-0113	EA	Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps	182.01
		For Specular Ballast Cover, Add	*28.49*

26 01 50 81-0114 Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector *(26 01 50 81-0108)*

Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.

26 01 50 81-0115	EA	Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp	112.41
		For Specular Reflector, Add	*17.05*
26 01 50 81-0116	EA	Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps	120.84
		For Specular Reflector, Add	*17.05*
26 01 50 81-0117	EA	Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps	166.42
		For Specular Reflector, Add	*17.05*
26 01 50 81-0118	EA	Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps	212.73
		For Specular Reflector, Add	*17.05*

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0119		Retrofit Existing (T12) Troffer Style Fluorescent Fixtures *(26 01 50 81-0108)*		
		Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120	EA	Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps	140.45	
		For Specular Reflector, Add	*17.05*	
26 01 50 81-0121	EA	Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps	148.10	
		For Specular Reflector, Add	*17.05*	
26 01 50 81-0122	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps	150.03	
		For Specular Reflector, Add	*17.05*	
26 01 50 81-0123	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps	168.42	
		For Specular Reflector, Add	*17.05*	
26 01 50 81-0124	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps	204.71	
		For Specular Reflector, Add	*17.05*	
26 01 50 81-0125	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps	155.83	
		For Specular Reflector, Add	*17.05*	
26 01 50 81-0126	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps	171.97	
		For Specular Reflector, Add	*17.05*	
26 01 50 81-0127	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps	185.59	
		For Specular Reflector, Add	*17.05*	
26 01 50 81-0128		Retrofit Existing Recessed Lay-In/Troffer Fixtures *(26 01 50 81-0001)*		
26 01 50 81-0129		Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) *(26 01 50 81-0128)*		
		Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0130	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	179.99	
26 01 50 81-0131	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	179.99	
26 01 50 81-0132	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	179.99	
26 01 50 81-0133	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	196.51	
26 01 50 81-0134	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	179.99	
26 01 50 81-0135	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	179.99	
26 01 50 81-0136	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	179.99	
26 01 50 81-0137	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	196.51	
26 01 50 81-0138	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	181.06	
26 01 50 81-0139	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	181.06	
26 01 50 81-0140	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	181.06	
26 01 50 81-0141	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	197.58	
26 01 50 81-0142	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	181.06	
26 01 50 81-0143	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	181.06	
26 01 50 81-0144	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	181.06	
26 01 50 81-0145	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	197.58	
26 01 50 81-0146		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) *(26 01 50 81-0128)*		
		Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0147	EA	2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025)	253.08	
26 01 50 81-0148	EA	4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045)	264.31	
26 01 50 81-0149		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) *(26 01 50 81-0128)*		
		Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0150	EA	1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L)	364.83	
26 01 50 81-0151	EA	2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L)	373.80	
26 01 50 81-0152	EA	2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L)	364.83	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0153	EA	3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L)	373.80	
26 01 50 81-0154	EA	3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L)	418.65	
26 01 50 81-0155	EA	4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L)	432.11	
26 01 50 81-0156	EA	5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L)	463.51	
26 01 50 81-0157		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) *(26 01 50 81-0128)*		
		Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0158	EA	3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST)	337.38	
26 01 50 81-0159	EA	3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST)	349.89	
26 01 50 81-0160	EA	3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST)	353.64	
26 01 50 81-0161	EA	3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST)	366.15	
26 01 50 81-0162	EA	2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST)	252.92	
26 01 50 81-0163	EA	4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST)	258.86	
26 01 50 81-0164	EA	3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST)	268.37	
26 01 50 81-0165	EA	4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST)	274.31	
26 01 50 81-0166	EA	6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST)	340.88	
26 01 50 81-0167	EA	8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST)	407.44	
26 01 50 81-0168		Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) *(26 01 50 81-0128)*		
		Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0169	EA	1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	297.34	
26 01 50 81-0170	EA	1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	220.86	
26 01 50 81-0171	EA	2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	305.76	
26 01 50 81-0172	EA	2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	229.20	
26 01 50 81-0173	EA	3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	320.91	
26 01 50 81-0174	EA	3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	250.36	
26 01 50 81-0175	EA	1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	353.39	
26 01 50 81-0176	EA	1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	276.70	
26 01 50 81-0177	EA	2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	361.26	
26 01 50 81-0178	EA	2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	284.65	
26 01 50 81-0179	EA	3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	376.22	
26 01 50 81-0180	EA	3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	305.70	
26 01 50 81-0181		LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) *(26 01 50 81-0128)*		
		Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0182	EA	3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT)	680.28	
26 01 50 81-0183	EA	4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT)	756.77	
26 01 50 81-0184		Retrofit Existing Fluorescent Fixtures *(26 01 50 81-0001)*		
26 01 50 81-0185		Retrofit Existing Fluorescent Fixtures (Cree® UR) *(26 01 50 81-0184)*		
		Note: Fully assembled Cree® UR retrofit. Includes one lightbar retrofit and one driver retrofit. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0186		**LED Lightbar Retrofit For Existing Fluorescent Fixtures (Cree® UR)** *(26 01 50 81-0185)*		
26 01 50 81-0187	EA	2' Length, 2 Pack, LED Lightbar Retrofit For Existing Fluorescent Fixtures (Cree® UR-24-35K-FD-LB-2)	90.86	
26 01 50 81-0188	EA	2' Length, 3 Pack, LED Lightbar Retrofit For Existing Fluorescent Fixtures (Cree® UR-24-35K-FD-LB-3)	127.82	
26 01 50 81-0189	EA	4' Length, 2 Pack, LED Lightbar Retrofit For Existing Fluorescent Fixtures (Cree® UR-48-35K-FD-LB-2)	109.30	
26 01 50 81-0190	EA	4' Length, 3 Pack, LED Lightbar Retrofit For Existing Fluorescent Fixtures (Cree® UR-48-35K-FD-LB-3)	155.51	
26 01 50 81-0191		**LED Driver Retrofit For Existing Fluorescent Fixtures (Cree® UR)** *(26 01 50 81-0185)*		
26 01 50 81-0192	EA	3,600 Lumens, 2' Length, 2 Lightbars, Step Dimming, LED Driver Retrofit For Existing Fluorescent Fixtures (Cree® UR2-24-36L-S-FD-DR)	98.58	
26 01 50 81-0193	EA	3,600 Lumens, 2' Length, 3 Lightbars, Step Dimming, LED Driver Retrofit For Existing Fluorescent Fixtures (Cree® UR3-24-36L-S-FD-DR)	117.05	
26 01 50 81-0194	EA	3,600 Lumens, 2' Length, 2 Lightbars, 0-10V Dimming, LED Driver Retrofit For Existing Fluorescent Fixtures (Cree® UR2-24-36L-10V-FD-DR)	135.53	
26 01 50 81-0195	EA	3,600 Lumens, 2' Length, 3 Lightbars, 0-10V Dimming, LED Driver Retrofit For Existing Fluorescent Fixtures (Cree® UR3-24-36L-10V-FD-DR)	172.49	
26 01 50 81-0196	EA	4,500 Lumens, 4' Length, 2 Lightbars, Step Dimming, LED Driver Retrofit For Existing Fluorescent Fixtures (Cree® UR2-48-45L-S-FD-DR)	107.75	
26 01 50 81-0197	EA	4,500 Lumens, 4' Length, 3 Lightbars, Step Dimming, LED Driver Retrofit For Existing Fluorescent Fixtures (Cree® UR3-48-45L-S-FD-DR)	126.22	
26 01 50 81-0198	EA	4,500 Lumens, 4' Length, 2 Lightbars, 0-10V Dimming, LED Driver Retrofit For Existing Fluorescent Fixtures (Cree® UR2-48-45L-10V-FD-DR)	144.71	
26 01 50 81-0199	EA	4,500 Lumens, 4' Length, 3 Lightbars, 0-10V Dimming, LED Driver Retrofit For Existing Fluorescent Fixtures (Cree® UR3-48-45L-10V-FD-DR)	181.66	
26 01 50 81-0200		**Retrofit Existing HID Fixtures** *(26 01 50 81-0001)*		
26 01 50 81-0201	EA	Tear Drop LED Retrofit Kit (Holophane LTDRL2 P35S 40K AS BK TDRD 3 P)	1,543.94	
26 01 50 81-0202		**LED Lighting Retrofits For Existing Fluorescent Fixtures** *(26 01 50 81-0001)*		
		Note: Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0203		**LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia)** *(26 01 50 81-0202)*		
26 01 50 81-0204	EA	2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT)	111.57	
		For >25 To 50, Deduct	*-5.58*	
		For >50 To 100, Deduct	*-9.64*	
		For >100, Deduct	*-16.24*	
26 01 50 81-0205	EA	2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT)	163.62	
		For >25 To 50, Deduct	*-8.18*	
		For >50 To 100, Deduct	*-13.54*	
		For >100, Deduct	*-21.45*	
26 01 50 81-0206	EA	3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT)	121.46	
		For >25 To 50, Deduct	*-6.07*	
		For >50 To 100, Deduct	*-10.45*	
		For >100, Deduct	*-17.51*	
26 01 50 81-0207	EA	3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT)	111.30	
		For >25 To 50, Deduct	*-5.57*	
		For >50 To 100, Deduct	*-9.69*	
		For >100, Deduct	*-16.50*	
26 01 50 81-0208	EA	4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT)	146.72	
		For >25 To 50, Deduct	*-7.34*	
		For >50 To 100, Deduct	*-12.42*	
		For >100, Deduct	*-20.32*	
26 01 50 81-0209	EA	4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT)	191.83	
		For >25 To 50, Deduct	*-9.59*	
		For >50 To 100, Deduct	*-15.80*	
		For >100, Deduct	*-24.83*	
26 01 50 81-0210	EA	4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT)	120.40	
		For >25 To 50, Deduct	*-6.02*	
		For >50 To 100, Deduct	*-10.44*	
		For >100, Deduct	*-17.69*	
26 01 50 81-0211	EA	4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT)	120.40	
		For >25 To 50, Deduct	*-6.02*	
		For >50 To 100, Deduct	*-10.44*	
		For >100, Deduct	*-17.69*	
26 01 50 81-0212	EA	4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT)	155.74	
		For >25 To 50, Deduct	*-7.79*	
		For >50 To 100, Deduct	*-13.09*	
		For >100, Deduct	*-21.22*	
26 01 50 81-0213	EA	4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT)	131.68	
		For >25 To 50, Deduct	*-6.58*	
		For >50 To 100, Deduct	*-11.29*	
		For >100, Deduct	*-18.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0214	EA	4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT)	131.68	
		For >25 To 50, Deduct	*-6.58*	
		For >50 To 100, Deduct	*-11.29*	
		For >100, Deduct	*-18.82*	

26 01 50 81-0215 LED Retrofit For Existing Fluorescent Fixtures (Lithonia) *(26 01 50 81-0202)*

26 01 50 81-0216	EA	1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2)	269.68	
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	*179.91*	
		For nLight AIR radio module without sensor (nLight RIO), Add	*116.95*	
		For >25 To 50, Deduct	*-13.48*	
		For >50 To 100, Deduct	*-21.64*	
		For >100, Deduct	*-32.62*	
26 01 50 81-0217	EA	1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2)	291.02	
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	*179.91*	
		For nLight AIR radio module without sensor (nLight RIO), Add	*116.95*	
		For >25 To 50, Deduct	*-14.55*	
		For >50 To 100, Deduct	*-23.24*	
		For >100, Deduct	*-34.75*	
26 01 50 81-0218	EA	2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2)	306.97	
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	*179.91*	
		For nLight AIR radio module without sensor (nLight RIO), Add	*116.95*	
		For >25 To 50, Deduct	*-15.35*	
		For >50 To 100, Deduct	*-24.44*	
		For >100, Deduct	*-36.35*	
26 01 50 81-0219	EA	2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2)	331.89	
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	*179.91*	
		For nLight AIR radio module without sensor (nLight RIO), Add	*116.95*	
		For >25 To 50, Deduct	*-16.59*	
		For >50 To 100, Deduct	*-26.30*	
		For >100, Deduct	*-38.84*	
26 01 50 81-0220	EA	2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO)	355.46	
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	*179.91*	
		For nLight AIR radio module without sensor (nLight RIO), Add	*116.95*	
		For >25 To 50, Deduct	*-17.77*	
		For >50 To 100, Deduct	*-28.35*	
		For >100, Deduct	*-42.33*	
26 01 50 81-0221	EA	2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO)	384.40	
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	*179.91*	
		For nLight AIR radio module without sensor (nLight RIO), Add	*116.95*	
		For >25 To 50, Deduct	*-19.22*	
		For >50 To 100, Deduct	*-30.53*	
		For >100, Deduct	*-45.22*	

26 01 50 81-0222 LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights) *(26 01 50 81-0202)*

Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling.

26 01 50 81-0223	EA	2' Dimmable, 20 Watts, 2,900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40) Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver	105.15	
		For >25 To 50, Deduct	*-5.26*	
		For >50 To 100, Deduct	*-9.16*	
		For >100, Deduct	*-15.60*	
26 01 50 81-0224	EA	2' Dimmable, 20 Watts, 2,900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50) Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver	105.15	
		For >25 To 50, Deduct	*-5.26*	
		For >50 To 100, Deduct	*-9.16*	
		For >100, Deduct	*-15.60*	
26 01 50 81-0225	EA	4' Dimmable, 32 Watts, 5,000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40) Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver	139.88	
		For >25 To 50, Deduct	*-6.99*	
		For >50 To 100, Deduct	*-11.90*	
		For >100, Deduct	*-19.64*	
26 01 50 81-0226	EA	4' Dimmable, 32 Watts, 5,000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50) Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver	139.88	
		For >25 To 50, Deduct	*-6.99*	
		For >50 To 100, Deduct	*-11.90*	
		For >100, Deduct	*-19.64*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0227	EA	4' Dimmable, 35 Watts, 5,500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30)	140.00	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-7.00*	
		For >50 To 100, Deduct	*-11.91*	
		For >100, Deduct	*-19.65*	
26 01 50 81-0228	EA	4' Dimmable, 35 Watts, 5,500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F)	153.38	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-7.67*	
		For >50 To 100, Deduct	*-12.92*	
		For >100, Deduct	*-20.99*	
26 01 50 81-0229	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35)	140.00	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-7.00*	
		For >50 To 100, Deduct	*-11.91*	
		For >100, Deduct	*-19.65*	
26 01 50 81-0230	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F)	153.38	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-7.67*	
		For >50 To 100, Deduct	*-12.92*	
		For >100, Deduct	*-20.99*	
26 01 50 81-0231	EA	4' Dimmable, 35 Watts, 5,500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40)	140.00	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-7.00*	
		For >50 To 100, Deduct	*-11.91*	
		For >100, Deduct	*-19.65*	
26 01 50 81-0232	EA	4' Dimmable, 35 Watts, 5,500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F)	153.38	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-7.67*	
		For >50 To 100, Deduct	*-12.92*	
		For >100, Deduct	*-20.99*	
26 01 50 81-0233	EA	4' Dimmable, 35 Watts, 5,500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50)	140.00	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-7.00*	
		For >50 To 100, Deduct	*-11.91*	
		For >100, Deduct	*-19.65*	
26 01 50 81-0234	EA	4' Dimmable, 35 Watts, 5,500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F)	153.38	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-7.67*	
		For >50 To 100, Deduct	*-12.92*	
		For >100, Deduct	*-20.99*	
26 01 50 81-0235	EA	4' Dimmable, 46 Watts, 6,800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50)	153.26	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-7.66*	
		For >50 To 100, Deduct	*-12.91*	
		For >100, Deduct	*-20.98*	
26 01 50 81-0236	EA	4' Dimmable, 31 Watts, 5,730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40)	181.88	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-9.09*	
		For >50 To 100, Deduct	*-15.05*	
		For >100, Deduct	*-23.84*	
26 01 50 81-0237	EA	4' Dimmable, 31 Watts, 5,730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F)	198.59	
		Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-9.93*	
		For >50 To 100, Deduct	*-16.31*	
		For >100, Deduct	*-25.51*	
26 01 50 81-0238	EA	4' Dimmable, 31 Watts, 5,730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50)	181.88	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-9.09*	
		For >50 To 100, Deduct	*-15.05*	
		For >100, Deduct	*-23.84*	
26 01 50 81-0239	EA	4' Dimmable, 31 Watts, 5,730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F)	198.59	
		Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-9.93*	
		For >50 To 100, Deduct	*-16.31*	
		For >100, Deduct	*-25.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0240	EA	20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800)	203.55	
		Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts		
		For >25 To 50, Deduct	*-10.18*	
		For >50 To 100, Deduct	*-15.55*	
		For >100, Deduct	*-21.49*	
26 01 50 81-0241	EA	20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W)	186.63	
		Note: 90-minute emergency battery with power output of 20 Watts		
		For >25 To 50, Deduct	*-9.33*	
		For >50 To 100, Deduct	*-14.28*	
		For >100, Deduct	*-19.79*	
26 01 50 81-0242	EA	8' Dimmable, 46 Watts, 7,400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50)	181.91	
		Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-9.10*	
		For >50 To 100, Deduct	*-15.48*	
		For >100, Deduct	*-25.54*	
26 01 50 81-0243	EA	8' Dimmable, 49 Watts, 6,680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F)	190.27	
		Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-9.51*	
		For >50 To 100, Deduct	*-16.11*	
		For >100, Deduct	*-26.37*	
26 01 50 81-0244	EA	8' Dimmable, 64 Watts, 11,850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40)	272.38	
		Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-13.62*	
		For >50 To 100, Deduct	*-22.26*	
		For >100, Deduct	*-34.58*	
26 01 50 81-0245	EA	8' Dimmable, 64 Watts, 11,850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F)	305.82	
		Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-15.29*	
		For >50 To 100, Deduct	*-24.77*	
		For >100, Deduct	*-37.93*	
26 01 50 81-0246	EA	8' Dimmable, 64 Watts, 11,850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50)	272.38	
		Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-13.62*	
		For >50 To 100, Deduct	*-22.26*	
		For >100, Deduct	*-34.58*	
26 01 50 81-0247	EA	8' Dimmable, 64 Watts, 11,850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F)	305.82	
		Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	*-15.29*	
		For >50 To 100, Deduct	*-24.77*	
		For >100, Deduct	*-37.93*	
26 01 50 81-0248		Vapor Tight LED Retrofit Kit (ILP) *(26 01 50 81-0001)*		
		Note: 120-277 volt universal driver, 0-10 volt dimmable driver, 3000K, 3500K, 4000K or 5000K CCT. Compatible fixtures: Columbia XEM & HEM Series; LSI EG3 Series; HE Williams 96 Series; Simkar ENZ Series; Texas Fluorescents CIT Series; Atlas IFW Series; LDPI 376 Series; Daybrite DW Series; LIGHTOLIER STW.		
26 01 50 81-0249	EA	4' Length, 18 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	221.30	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	
26 01 50 81-0250	EA	4' Length, 25 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	223.42	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	
26 01 50 81-0251	EA	4' Length, 28 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	240.62	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0252	EA	4' Length, 40 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	242.46	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	
26 01 50 81-0253	EA	4' Length, 48 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	250.91	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	
26 01 50 81-0254	EA	8' Length, 36 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	327.40	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	
26 01 50 81-0255	EA	8' Length, 50 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	346.42	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	
26 01 50 81-0256	EA	8' Length, 56 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	348.50	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	
26 01 50 81-0257	EA	8' Length, 80 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	350.64	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	
26 01 50 81-0258	EA	8' Length, 96 Watt, Vapor Tight LED Retrofit Kit (ILP VTR Series DLC Premium Listed)	352.72	
		For On/Off Wet Location Sensor, Add	*171.41*	
		For User Select Bi-level Dim With Occupational Sensor, Add	*197.81*	
		For Preset Bi-level Dim Sensor With Photocell, Add	*197.81*	
		For 480 Volt Or 347 Volt Step Down Transformer, Add	*49.57*	
		For Factory Installed 7 Watt LED Battery Backup, Add	*276.92*	
		For Factory Installed 10 Watt LED Battery Backup, Add	*303.31*	
		For Factory Installed 12 Watt LED Battery Backup, Add	*329.71*	

26 05 Common Work Results for Electrical *(26)*

26 05 13 Medium-Voltage Cables *(26 05)*

26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables *(26 05 13)*

26 05 13 16-0001 Wire And Cable *(26 05 13 16)*

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable *(26 05 13 16-0001)*

26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct *(26 05 13 16-0002)*

26 05 13 16-0004	MLF	#6 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	4,047.03	912.15
26 05 13 16-0005	MLF	#4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	4,878.35	995.98
26 05 13 16-0006	MLF	#2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	5,888.81	1,125.31
26 05 13 16-0007	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	7,719.36	1,386.43
26 05 13 16-0008	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	8,810.86	1,561.24
26 05 13 16-0009	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	11,007.00	1,732.93

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0010	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	12,393.15	1,947.13
26 05 13 16-0011	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	14,864.63	2,166.27
26 05 13 16-0012	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	17,263.41	2,586.47
26 05 13 16-0013	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	21,996.88	3,040.33
26 05 13 16-0014	MLF	750 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	33,772.47	3,583.36
26 05 13 16-0015	MLF	1,000 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	45,553.73	4,126.13

26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial *(26 05 13 16-0002)*

Note: Excludes excavation.

26 05 13 16-0017	MLF	#6 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	3,933.01	
26 05 13 16-0018	MLF	#4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,554.67	
26 05 13 16-0019	MLF	#2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,241.76	
26 05 13 16-0020	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,633.85	
26 05 13 16-0021	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,288.23	
26 05 13 16-0022	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,268.84	
26 05 13 16-0023	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,119.52	
26 05 13 16-0024	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,262.37	
26 05 13 16-0025	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,724.41	
26 05 13 16-0026	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	17,425.78	

26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) *(26 05 13 16-0002)*

26 05 13 16-0028	MLF	#6 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,279.45	568.10
26 05 13 16-0029	MLF	#4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,010.58	609.11
26 05 13 16-0030	MLF	#2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,126.57	770.27
26 05 13 16-0031	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,743.35	935.10
26 05 13 16-0032	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,830.75	1,097.72
26 05 13 16-0033	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,017.42	1,255.36
26 05 13 16-0034	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,403.82	1,456.56
26 05 13 16-0035	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,328.59	1,832.45
26 05 13 16-0036	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,971.15	2,318.63
26 05 13 16-0037	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	22,153.28	2,913.13

26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor *(26 05 13 16-0002)*

26 05 13 16-0039	MLF	1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	8,960.36	1,817.80
26 05 13 16-0040	MLF	2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	10,571.29	1,843.93
26 05 13 16-0041	MLF	3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	12,182.23	1,870.06
26 05 13 16-0042	MLF	4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	12,726.94	1,911.39
26 05 13 16-0043	MLF	350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	15,527.77	1,984.30
26 05 13 16-0044	MLF	500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	22,862.29	2,079.57
26 05 13 16-0045	MLF	750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	35,937.59	2,599.46
26 05 13 16-0046	MLF	1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	41,047.70	3,465.99

26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct *(26 05 13 16-0002)*

26 05 13 16-0048	MLF	#6 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	4,365.05	912.15
26 05 13 16-0049	MLF	#4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	5,308.27	995.98
26 05 13 16-0050	MLF	#2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	6,442.41	1,125.31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0051	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	7,463.50	1,255.80
26 05 13 16-0052	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	8,484.97	1,386.43
26 05 13 16-0053	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	9,694.26	1,561.24
26 05 13 16-0054	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	12,208.42	1,732.93
26 05 13 16-0055	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	13,747.69	1,947.13
26 05 13 16-0056	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	16,565.47	2,166.27
26 05 13 16-0057	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	19,206.88	2,586.47
26 05 13 16-0058	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	24,588.18	3,040.33
26 05 13 16-0059	MLF	750 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	38,239.59	3,583.36
26 05 13 16-0060	MLF	1,000 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	51,896.64	4,126.13

26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial *(26 05 13 16-0002)*

Note: Excludes excavation.

26 05 13 16-0062	MLF	#6 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,251.03	
26 05 13 16-0063	MLF	#4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,984.59	
26 05 13 16-0064	MLF	#2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,795.36	
26 05 13 16-0065	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,597.90	
26 05 13 16-0066	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,399.46	
26 05 13 16-0067	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,171.63	
26 05 13 16-0068	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,470.26	
26 05 13 16-0069	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,474.06	
26 05 13 16-0070	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,963.21	
26 05 13 16-0071	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	15,667.89	
26 05 13 16-0072	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	20,017.08	

26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) *(26 05 13 16-0002)*

26 05 13 16-0074	MLF	#6 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,597.47	568.10
26 05 13 16-0075	MLF	#4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,440.50	609.11
26 05 13 16-0076	MLF	#2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,680.17	770.27
26 05 13 16-0077	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,593.02	852.08
26 05 13 16-0078	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,508.96	935.10
26 05 13 16-0079	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,714.15	1,097.72
26 05 13 16-0080	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,218.84	1,255.36
26 05 13 16-0081	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,758.36	1,456.56
26 05 13 16-0082	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,029.43	1,832.45
26 05 13 16-0083	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	18,914.63	2,318.63
26 05 13 16-0084	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	24,744.58	2,913.13

26 05 13 16-0085 15 KV Cable *(26 05 13 16-0001)*

26 05 13 16-0086 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable *(26 05 13 16-0085)*

26 05 13 16-0087 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct *(26 05 13 16-0086)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0088	MLF	#4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	8,945.55	1,817.80
26 05 13 16-0089	MLF	#2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	9,840.85	1,817.80
26 05 13 16-0090	MLF	#1 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	10,182.35	1,817.80
26 05 13 16-0091	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	11,294.83	1,817.80
26 05 13 16-0092	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	12,350.74	1,817.80
26 05 13 16-0093	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	14,322.20	1,897.48
26 05 13 16-0094	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	14,737.02	1,897.48
26 05 13 16-0095	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	17,216.96	1,984.30
26 05 13 16-0096	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	19,765.60	2,030.84
26 05 13 16-0097	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installled In Duct	24,612.14	2,287.53

26 05 13 16-0098 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial *(26 05 13 16-0086)*

Note: Excludes excavation.

26 05 13 16-0099	MLF	#1 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,226.94	
26 05 13 16-0100	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,339.42	
26 05 13 16-0101	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,395.33	
26 05 13 16-0102	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,391.93	
26 05 13 16-0103	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,806.74	
26 05 13 16-0104	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	15,393.62	
26 05 13 16-0105	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	17,945.98	
26 05 13 16-0106	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	22,532.58	

26 05 13 16-0107 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) *(26 05 13 16-0086)*

26 05 13 16-0108	MLF	#1 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,798.75	811.54
26 05 13 16-0109	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,240.26	935.10
26 05 13 16-0110	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,729.21	1,097.72
26 05 13 16-0111	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,921.51	1,255.36
26 05 13 16-0112	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,872.04	1,456.56
26 05 13 16-0113	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,771.52	1,695.64
26 05 13 16-0114	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	19,949.89	1,975.84
26 05 13 16-0115	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	25,005.03	2,295.13

26 05 13 16-0116 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable *(26 05 13 16-0085)*

26 05 13 16-0117 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct *(26 05 13 16-0116)*

26 05 13 16-0118	MLF	#4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,737.74	1,817.80
26 05 13 16-0119	MLF	#2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,794.18	1,817.80
26 05 13 16-0120	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,197.15	1,817.80
26 05 13 16-0121	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,509.89	1,817.80
26 05 13 16-0122	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	13,755.86	1,817.80
26 05 13 16-0123	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,046.36	1,897.48
26 05 13 16-0124	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,535.85	1,897.48

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0125	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	19,423.06	1,984.30
26 05 13 16-0126	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	22,409.53	2,030.84
26 05 13 16-0127	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	28,012.94	2,287.53
26 05 13 16-0128		**Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial** *(26 05 13 16-0116)*		
		Note: Excludes excavation.		
26 05 13 16-0129	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,241.75	
26 05 13 16-0130	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,554.47	
26 05 13 16-0131	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,800.45	
26 05 13 16-0132	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,116.09	
26 05 13 16-0133	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,605.56	
26 05 13 16-0134	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	17,593.30	
26 05 13 16-0135	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	20,581.77	
26 05 13 16-0136	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	25,933.38	
26 05 13 16-0137		**Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)** *(26 05 13 16-0116)*		
26 05 13 16-0138	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,813.56	811.54
26 05 13 16-0139	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,455.31	935.10
26 05 13 16-0140	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,134.33	1,097.72
26 05 13 16-0141	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,645.67	1,255.36
26 05 13 16-0142	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	15,670.86	1,456.56
26 05 13 16-0143	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	18,977.62	1,695.64
26 05 13 16-0144	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	22,593.82	1,975.84
26 05 13 16-0145	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	28,405.83	2,295.13
26 05 13 16-0146		**15 KV Non-Shielded Single Copper Conductor** *(26 05 13 16-0085)*		
26 05 13 16-0147	MLF	1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	13,721.90	1,824.17
26 05 13 16-0148	MLF	2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	11,540.52	1,867.78
26 05 13 16-0149	MLF	3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	18,350.94	1,911.39
26 05 13 16-0150	MLF	350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	25,886.68	2,038.76
26 05 13 16-0151		**Shielded, Armored Copper, 15 KV, 3 Conductor Cable** *(26 05 13 16-0085)*		
		Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152		**Galvanized Steel Interlocked Armor Cable** *(26 05 13 16-0151)*		
26 05 13 16-0153	LF	#2 AWG, TC, 15 KV, Three Conductors, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	59.31	13.91
26 05 13 16-0154	LF	1/0 AWG, TC, 15 KV, Three Conductors, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	72.83	14.82
26 05 13 16-0155		**Aluminum Interlocked Armor Cable** *(26 05 13 16-0151)*		
26 05 13 16-0156	LF	#2 AWG, TC, 15 KV, Three Conductors, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	59.31	13.91
26 05 13 16-0157	LF	1/0 AWG, TC, 15 KV, Three Conductors, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	72.83	14.82
26 05 13 16-0158		**Underground Residential Distribution (URD), 15 KV Primary Concentric UD Cable** *(26 05 13 16-0085)*		
		Note: 0.175" cross-linked polyethylene (XLPE) insulation, copper conductor.		
26 05 13 16-0159	MLF	#4 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,414.83	912.15
26 05 13 16-0160	MLF	#2 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,375.57	995.98

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0161	MLF	#1 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	6,529.06	1,125.31
26 05 13 16-0162	MLF	1/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	8,595.57	1,382.65
26 05 13 16-0163	MLF	2/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	9,820.86	1,556.56
26 05 13 16-0164	MLF	3/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	12,396.47	1,732.93
26 05 13 16-0165	MLF	4/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	13,941.55	1,939.85
26 05 13 16-0166		**15 KV, Underground Residential Distribution (URD), Copper Cable, Direct Burial** *(26 05 13 16-0085)*		
26 05 13 16-0167	MLF	#6 AWG, 15 KV, Three Conductors, URD Copper Cable, Direct Burial	25,262.79	
26 05 13 16-0168		**Wire Connections** *(26 05 13 16-0001)*		
26 05 13 16-0169		**Medium Voltage Up To 5 KV** *(26 05 13 16-0168)*		
26 05 13 16-0170		**Shielded One Conductor Cable Splice** *(26 05 13 16-0169)*		
26 05 13 16-0171	EA	#6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	510.29	112.80
26 05 13 16-0172	EA	#2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	800.24	112.80
26 05 13 16-0173	EA	1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	800.24	112.80
26 05 13 16-0174	EA	2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	833.81	135.36
26 05 13 16-0175	EA	3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	833.81	135.36
26 05 13 16-0176	EA	4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	833.81	135.36
26 05 13 16-0177	EA	250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	878.57	157.93
26 05 13 16-0178	EA	350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	878.57	157.93
26 05 13 16-0179	EA	500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	878.57	157.93
26 05 13 16-0180		**Cable Termination Without Stress Cone** *(26 05 13 16-0169)*		
26 05 13 16-0181	EA	#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	884.02	135.36
26 05 13 16-0182	EA	250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	1,015.22	157.93
26 05 13 16-0183		**Cable Termination With Stress Cone** *(26 05 13 16-0169)*		
26 05 13 16-0184	EA	#6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	3,029.01	270.72
26 05 13 16-0185	EA	250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	4,143.47	372.24
26 05 13 16-0186		**Connect To Pothead, Pothead Included** *(26 05 13 16-0169)*		
26 05 13 16-0187	EA	#6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	3,204.14	270.72
26 05 13 16-0188	EA	250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	4,193.32	310.20
26 05 13 16-0189		**Two Conductor Pothead** *(26 05 13 16-0169)* Note: Includes 5 KV pothead.		
26 05 13 16-0190	EA	#6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,806.99	372.24
26 05 13 16-0191	EA	250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	2,522.49	473.77
26 05 13 16-0192	EA	400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	4,393.07	537.16
26 05 13 16-0193	EA	750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	7,890.90	626.72
26 05 13 16-0194	EA	1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	15,155.13	939.96
26 05 13 16-0195		**Three Conductor Pothead** *(26 05 13 16-0169)* Note: Includes 5 KV pothead.		
26 05 13 16-0196	EA	#6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	10,317.29	541.44
26 05 13 16-0197	EA	250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	11,180.97	631.68
26 05 13 16-0198		**Copper Cable Splice, Crimp Compression Connection** *(26 05 13 16-0169)* Note: For bare wire.		
26 05 13 16-0199	EA	#6 AWG Crimp Compression Connection For Bare Copper Wire	83.40	
26 05 13 16-0200	EA	#4 AWG Crimp Compression Connection For Bare Copper Wire	93.70	
26 05 13 16-0201	EA	#3 AWG Crimp Compression Connection For Bare Copper Wire	109.15	
26 05 13 16-0202	EA	#2 AWG Crimp Compression Connection For Bare Copper Wire	122.15	
26 05 13 16-0203	EA	#1 AWG Crimp Compression Connection For Bare Copper Wire	138.59	
26 05 13 16-0204	EA	1/0 AWG Crimp Compression Connection For Bare Copper Wire	153.69	
26 05 13 16-0205	EA	2/0 AWG Crimp Compression Connection For Bare Copper Wire	168.21	
26 05 13 16-0206	EA	3/0 AWG Crimp Compression Connection For Bare Copper Wire	185.07	
26 05 13 16-0207	EA	4/0 AWG Crimp Compression Connection For Bare Copper Wire	200.52	
26 05 13 16-0208	EA	250 MCM Crimp Compression Connection For Bare Copper Wire	217.03	
26 05 13 16-0209	EA	300 MCM Crimp Compression Connection For Bare Copper Wire	234.88	
26 05 13 16-0210	EA	350 MCM Crimp Compression Connection For Bare Copper Wire	249.51	
26 05 13 16-0211	EA	400 MCM Crimp Compression Connection For Bare Copper Wire	284.38	
26 05 13 16-0212	EA	500 MCM Crimp Compression Connection For Bare Copper Wire	322.48	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0213		Aluminum Cable Splice, Crimp Compression Connection *(26 05 13 16-0169)*		
		Note: For bare wire.		
26 05 13 16-0214	EA	#6 AWG Crimp Compression Connection For Bare Aluminum Wire	89.65	
26 05 13 16-0215	EA	#4 AWG Crimp Compression Connection For Bare Aluminum Wire	97.15	
26 05 13 16-0216	EA	#2 AWG Crimp Compression Connection For Bare Aluminum Wire	133.55	
26 05 13 16-0217	EA	#1 AWG Crimp Compression Connection For Bare Aluminum Wire	167.58	
26 05 13 16-0218	EA	1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	181.04	
26 05 13 16-0219	EA	2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	194.34	
26 05 13 16-0220	EA	3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	215.40	
26 05 13 16-0221	EA	4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	232.61	
26 05 13 16-0222	EA	250 MCM Crimp Compression Connection For Bare Aluminum Wire	248.35	
26 05 13 16-0223	EA	300 MCM Crimp Compression Connection For Bare Aluminum Wire	265.50	
26 05 13 16-0224	EA	350 MCM Crimp Compression Connection For Bare Aluminum Wire	281.65	
26 05 13 16-0225	EA	400 MCM Crimp Compression Connection For Bare Aluminum Wire	330.43	
26 05 13 16-0226	EA	500 MCM Crimp Compression Connection For Bare Aluminum Wire	379.92	
26 05 13 16-0227		15 KV *(26 05 13 16-0168)*		
26 05 13 16-0228		Single Conductor Pothead On Racks *(26 05 13 16-0227)*		
		Note: Includes pothead.		
26 05 13 16-0229	EA	#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks	2,156.62	473.77
26 05 13 16-0230	EA	250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks	2,787.64	586.56
26 05 13 16-0231		Two Conductor Pothead On Rack *(26 05 13 16-0227)*		
		Note: Includes pothead.		
26 05 13 16-0232	EA	#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks	3,087.01	721.92
26 05 13 16-0233	EA	250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks	3,756.54	857.28
26 05 13 16-0234		Three Conductor Pothead On Rack *(26 05 13 16-0227)*		
		Note: Includes pothead.		
26 05 13 16-0235	EA	#2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks	3,892.00	936.24
26 05 13 16-0236	EA	250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks	4,836.77	1,173.12
26 05 13 16-0237		Stress Relief Cone On Rack *(26 05 13 16-0227)*		
26 05 13 16-0238	EA	#2 To 4/0 AWG Stress Relief Cone, On Rack	1,945.03	473.77
26 05 13 16-0239	EA	250 To 500 MCM Stress Relief Cone, On Rack	2,549.75	586.56
26 05 13 16-0240		Grounded, Shielded Cable Splice *(26 05 13 16-0227)*		
26 05 13 16-0241	EA	#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV	1,264.60	349.68
26 05 13 16-0242	EA	250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV	1,610.93	451.20
26 05 13 16-0243	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way	10,475.47	1,240.80
26 05 13 16-0244	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way	14,157.16	1,353.61
26 05 13 16-0245		Cable Termination *(26 05 13 16-0227)*		
26 05 13 16-0246	EA	#2 To 3/0 AWG Cable Termination 15 KV	940.94	197.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*118.44*	
26 05 13 16-0247	EA	4/0 To 250 MCM Cable Termination 15 KV	1,175.81	253.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*152.28*	
26 05 13 16-0248	EA	350 To 500 MCM Cable Termination 15 KV	1,470.81	310.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*186.12*	
26 05 13 16-0249	EA	#2 To 3/0 AWG Cable Elbow Termination 15 KV	637.57	112.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*67.68*	
26 05 13 16-0250		Stress Cones, 5-15 KV, 4 Skirted *(26 05 13 16-0227)*		
26 05 13 16-0251	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted	1,511.37	146.64
26 05 13 16-0252	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted	1,736.87	162.07
26 05 13 16-0253	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted	2,107.30	177.37
26 05 13 16-0254	EA	400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted	2,780.47	204.35
26 05 13 16-0255		Stress Cones, 5-15 KV, 6 Skirted *(26 05 13 16-0227)*		
26 05 13 16-0256	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted	3,022.80	293.78
26 05 13 16-0257	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted	3,474.27	324.14
26 05 13 16-0258	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted	4,201.41	348.15
26 05 13 16-0259	EA	400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted	5,560.93	408.70
26 05 13 16-0260		35 KV *(26 05 13 16-0168)*		
26 05 13 16-0261		35 KV One Conductor Splice *(26 05 13 16-0260)*		
26 05 13 16-0262	EA	#1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing	3,185.59	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0263		Cable Termination *(26 05 13 16-0260)*		
26 05 13 16-0264	EA	#2 To 3/0 AWG Cable Termination, 35 KV	929.98	135.47
26 05 13 16-0265	EA	3/0 AWG To 250 MCM, 35 KV, Cable Termination	1,215.10	204.40
26 05 13 16-0266	EA	350 To 500 MCM Cable Termination 35 KV	1,463.49	218.61
26 05 13 16-0267	EA	#2 To 3/0 AWG Cable Elbow Termination 35 KV	722.76	112.80
26 05 13 16-0268		70 KV *(26 05 13 16-0168)*		
26 05 13 16-0269		Cable Splice *(26 05 13 16-0268)*		
26 05 13 16-0270	EA	350 MCM, 70 KV, Cable Splicing	26,802.91	
26 05 13 16-0271	EA	#2 To 4/0, 70 KV, Cable Splicing	3,399.64	

26 05 19 Low-Voltage Electrical Power Conductors and Cables *(26 05)*

26 05 19 13 Undercarpet Electrical Power Cables *(26 05 19)*

26 05 19 13-0001		Under Carpet Power System *(26 05 19 13)* Note: Includes laying out, floor prep, taping, drill floor, folds, identifying, tagging and testing		
26 05 19 13-0002	LF	3-Conductor, #12 Flat Cable With Attached Bottom Shield	7.87	0.51
26 05 19 13-0003	LF	Steel, Top Shield	13.67	0.51
26 05 19 13-0004	EA	3-Conductor, Splice	39.61	8.76
26 05 19 13-0005	EA	Splice Top Shield For 3 Conductor	10.06	4.12
26 05 19 13-0006	EA	3-Conductor, Tap	49.91	10.31
26 05 19 13-0007	EA	Insulating Patch, Splice Tap And End	84.15	8.76
26 05 19 13-0008	EA	3-Conductor, Transition Block Assembly	55.39	5.15
26 05 19 13-0009	EA	Single, Direct Connected, Receptacle With Box	166.25	16.48
26 05 19 13-0010	EA	Dual, Direct Connected, Receptacle With Box	278.53	25.76
26 05 19 13-0011	EA	Floor Mounted Box With Cover	281.94	20.61
26 05 19 13-0012	LF	5-Conductor, #12 Cable With Attached Bottom Shield	12.79	0.51
26 05 19 13-0013	LF	Steel, Top Shield For 5-Conductor Cable	12.69	0.51
26 05 19 13-0014	EA	5-Conductor, Splice	40.24	8.76
26 05 19 13-0015	EA	5-Conductor, Transition Block Assembly	74.72	5.15
26 05 19 13-0016	EA	Box, Wall, Flush With Cover	116.74	20.61
26 05 19 13-0017	EA	Telephone, Transition Fitting Wall Box	73.98	17.01
26 05 19 13-0018	EA	RJ-45, Telephone Fitting With Duplex Jack And Cover	99.79	19.58
26 05 19 13-0019	EA	Miniature Telephone With Duplex RJ-45	43.55	7.73
26 05 19 13-0020	LF	4-Pair, Level 5, Under Carpet Telephone Wire	2.47	0.51
26 05 19 13-0021	EA	BNC, Coax Plug, Connector	31.16	10.31
26 05 19 13-0022	EA	TNC, Coax Plug, Connector	31.16	10.31
26 05 19 13-0023	CLF	Under Carpet Power System; Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm	166.15	51.52

26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables *(26 05 19)*

26 05 19 16-0001		Cable Installation Methods *(26 05 19 16)*		
26 05 19 16-0002		Pull Cord *(26 05 19 16-0001)* Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003	LF	Pull String Installed To Remain In Place, In Existing Conduit	0.36	
26 05 19 16-0004	LF	Pull String Installed To Remain In Place, In New Conduits	0.19	
26 05 19 16-0005	LF	1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.64	
26 05 19 16-0006	LF	1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits	0.42	
26 05 19 16-0007		Bore Conduit Into Dirt Or Sand *(26 05 19 16-0001)* Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008	LF	Bore 1" To 4" Conduit Into Dirt Or Sand	3.66	
26 05 19 16-0009	LF	Bore 5" To 8" Conduit Into Dirt Or Sand	4.65	
26 05 19 16-0010	EA	Minimum Set-up Charge For Boring Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.	512.15	
26 05 19 16-0011		Wire and Cable *(26 05 19 16)* Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, labeling and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations.		
26 05 19 16-0012		600 Volt Wire *(26 05 19 16-0011)*		
26 05 19 16-0013		Single Solid Conductor, Copper *(26 05 19 16-0012)*		
26 05 19 16-0014	MLF	#14 AWG,Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit	655.37	250.10
26 05 19 16-0015	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit	828.74	294.21
26 05 19 16-0016	MLF	#10 AWG,Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit	1,039.11	359.75
26 05 19 16-0017	MLF	#14 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Copper, Single Solid Cable, Installed In Conduit	858.58	250.10
26 05 19 16-0018	MLF	#12 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Copper, Single Solid Cable, Installed In Conduit	1,046.52	294.21
26 05 19 16-0019	MLF	#10 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Copper, Single Solid Cable, Installed In Conduit	1,269.37	359.75

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0020		Power Cable, Stranded Conductor, Copper *(26 05 19 16-0012)*		
26 05 19 16-0021		Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Single Stranded Conductor, Power Cable *(26 05 19 16-0020)*		
26 05 19 16-0022	MLF	#16 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	707.96	206.10
26 05 19 16-0023	MLF	#14 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	831.37	247.32
26 05 19 16-0024	MLF	#12 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	1,040.80	288.55
26 05 19 16-0025	MLF	#10 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	1,308.29	329.76
26 05 19 16-0026	MLF	#8 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit	1,773.71	412.20
26 05 19 16-0027	MLF	#6 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	2,465.38	494.65
26 05 19 16-0028	MLF	#4 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	3,440.63	618.31
26 05 19 16-0029	MLF	#3 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	4,105.09	700.74
26 05 19 16-0030	MLF	#2 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	4,912.51	783.19
26 05 19 16-0031	MLF	#1 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	6,207.02	865.63
26 05 19 16-0032	MLF	1/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	7,501.87	989.29
26 05 19 16-0033	MLF	2/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	9,066.84	1,112.95
26 05 19 16-0034	MLF	3/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	10,958.99	1,236.61
26 05 19 16-0035	MLF	4/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	13,267.98	1,360.27
26 05 19 16-0036	MLF	250 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	14,013.75	1,483.94
26 05 19 16-0037	MLF	300 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	16,785.90	1,607.60
26 05 19 16-0038	MLF	350 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	17,888.56	1,731.25
26 05 19 16-0039	MLF	400 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	20,100.38	1,854.92
26 05 19 16-0040	MLF	500 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	23,463.68	1,978.58
26 05 19 16-0041	MLF	600 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	27,172.35	2,143.46
26 05 19 16-0042	MLF	750 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	42,269.73	2,390.78
26 05 19 16-0043	MLF	1,000 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	60,255.31	2,802.99
26 05 19 16-0044		Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Multi Stranded Conductor, Power Cable *(26 05 19 16-0020)*		
26 05 19 16-0045	MLF	2 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	1,662.74	494.54
26 05 19 16-0046	MLF	3 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,081.92	577.19
26 05 19 16-0047	MLF	4 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,604.24	700.74
26 05 19 16-0048	MLF	6 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,184.02	762.27
26 05 19 16-0049	MLF	7 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,500.74	803.69
26 05 19 16-0050	MLF	9 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,132.60	886.03
26 05 19 16-0051	MLF	10 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,521.80	923.54
26 05 19 16-0052	MLF	12 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,081.58	1,009.90
26 05 19 16-0053	MLF	14 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,662.69	1,071.94
26 05 19 16-0054	MLF	24 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	8,514.53	1,360.37
26 05 19 16-0055	MLF	37 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	12,933.01	2,019.80
26 05 19 16-0056	MLF	2 Conductors, #12 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,081.85	577.19
26 05 19 16-0057	MLF	3 Conductors, #12 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,710.31	700.74
26 05 19 16-0058	MLF	4 Conductors, #12 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,338.79	824.41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0059	MLF	2 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,821.87	741.65
26 05 19 16-0060	MLF	3 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,716.81	906.02
26 05 19 16-0061	MLF	4 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,821.43	1,154.38
26 05 19 16-0062	MLF	6 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	6,614.37	1,484.45
26 05 19 16-0063	MLF	9 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	9,095.44	1,896.24
26 05 19 16-0064	MLF	2 Conductors, #8 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,598.94	845.02
26 05 19 16-0065	MLF	3 Conductors, #8 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,702.81	989.29
26 05 19 16-0066	MLF	4 Conductors, #8 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	6,115.84	1,257.22
26 05 19 16-0067	MLF	2 Conductors, #6 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,827.83	948.07
26 05 19 16-0068	MLF	3 Conductors, #6 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	6,623.27	1,174.79
26 05 19 16-0069	MLF	4 Conductors, #6 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	8,537.34	1,448.89
26 05 19 16-0070	MLF	2 Conductors, #4 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	6,665.28	1,150.26
26 05 19 16-0071	MLF	3 Conductors, #4 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	8,973.75	1,315.65
26 05 19 16-0072	MLF	4 Conductors, #4 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	11,683.86	1,641.81
26 05 19 16-0073	MLF	2 Conductors, #2 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	9,411.76	1,401.08
26 05 19 16-0074	MLF	3 Conductors, #2 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	12,780.57	1,566.79
26 05 19 16-0075	MLF	4 Conductors, #2 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	16,970.70	2,061.02
26 05 19 16-0076	MLF	3 Conductors, #1 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	17,074.44	1,978.27
26 05 19 16-0077	MLF	4 Conductors, #1 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	22,352.20	2,472.20
26 05 19 16-0078	MLF	3 Conductors, 1/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	20,445.53	2,143.87
26 05 19 16-0079	MLF	3 Conductors, 2/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	25,033.82	2,472.20
26 05 19 16-0080	MLF	3 Conductors, 3/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	30,812.82	2,884.19
26 05 19 16-0081	MLF	4 Conductors, 3/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	40,740.40	3,708.29
26 05 19 16-0082	MLF	3 Conductors, 4/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	37,853.03	3,300.42
26 05 19 16-0083	MLF	3 Conductors, 250 MCM, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	40,182.31	3,708.29
26 05 19 16-0084	MLF	3 Conductors, 350 MCM, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	50,986.29	4,122.04
26 05 19 16-0085	MLF	3 Conductors, 500 MCM, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	66,877.51	4,530.33

26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0012)

Note: Direct bury.

26 05 19 16-0087	MLF	#14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	985.43	
26 05 19 16-0088	MLF	#12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	1,161.43	
26 05 19 16-0089	MLF	#10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	1,477.10	
26 05 19 16-0090	MLF	#8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	1,957.79	
26 05 19 16-0091	MLF	#6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	2,794.67	
26 05 19 16-0092	MLF	#4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	3,703.30	
26 05 19 16-0093	MLF	#2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	5,425.29	
26 05 19 16-0094	MLF	#1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	6,818.55	
26 05 19 16-0095	MLF	1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	8,410.08	
26 05 19 16-0096	MLF	2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	10,245.13	
26 05 19 16-0097	MLF	3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	12,417.18	
26 05 19 16-0098	MLF	4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	14,050.48	
26 05 19 16-0099	MLF	250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	15,208.54	
26 05 19 16-0100	MLF	300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	18,315.23	
26 05 19 16-0101	MLF	350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	20,519.26	
26 05 19 16-0102	MLF	400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	23,110.59	
26 05 19 16-0103	MLF	500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	27,510.78	
26 05 19 16-0104	MLF	600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	32,588.30	
26 05 19 16-0105	MLF	750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	52,481.74	
26 05 19 16-0106	MLF	#14 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	822.74	
26 05 19 16-0107	MLF	#12 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	994.99	
26 05 19 16-0108	MLF	#10 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	1,208.29	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0109		MLF	#8 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	1,473.77	
26 05 19 16-0110		MLF	#6 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	1,933.86	
26 05 19 16-0111		MLF	#4 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	2,614.22	
26 05 19 16-0112		MLF	#2 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	3,610.10	
26 05 19 16-0113		MLF	#1 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	4,337.26	
26 05 19 16-0114		MLF	1/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	4,899.41	
26 05 19 16-0115		MLF	2/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	5,524.13	
26 05 19 16-0116		MLF	3/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	6,480.60	
26 05 19 16-0117		MLF	4/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	7,664.85	
26 05 19 16-0118		MLF	250 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	8,757.80	
26 05 19 16-0119		MLF	300 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	9,917.95	
26 05 19 16-0120		MLF	350 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	11,188.56	
26 05 19 16-0121		MLF	400 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	12,507.25	
26 05 19 16-0122		MLF	500 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	14,763.39	
26 05 19 16-0123		MLF	750 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	25,680.24	
26 05 19 16-0124		MLF	#14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	688.57	
26 05 19 16-0125		MLF	#12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	866.27	
26 05 19 16-0126		MLF	#10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	1,093.85	
26 05 19 16-0127		MLF	#8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	1,575.86	
26 05 19 16-0128		MLF	#6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	2,205.61	
26 05 19 16-0129		MLF	#4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	2,991.89	
26 05 19 16-0130		MLF	#2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	4,351.99	
26 05 19 16-0131		MLF	#1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	5,246.18	
26 05 19 16-0132		MLF	1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	6,108.32	
26 05 19 16-0133		MLF	2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	6,980.86	
26 05 19 16-0134		MLF	3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	8,405.52	
26 05 19 16-0135		MLF	4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	10,114.37	
26 05 19 16-0136		MLF	250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	11,975.30	
26 05 19 16-0137		MLF	300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	13,920.51	
26 05 19 16-0138		MLF	350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	16,022.54	
26 05 19 16-0139		MLF	400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	18,045.45	
26 05 19 16-0140		MLF	500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	21,660.62	
26 05 19 16-0141		MLF	600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	26,233.48	
26 05 19 16-0142		MLF	750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	42,620.95	
26 05 19 16-0143		MLF	#2 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	7,266.71	
26 05 19 16-0144		MLF	1/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	10,631.79	
26 05 19 16-0145		MLF	2/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	11,782.80	
26 05 19 16-0146		MLF	3/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	13,423.91	
26 05 19 16-0147		MLF	4/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	14,939.91	
26 05 19 16-0148		MLF	250 MCM,Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	16,073.73	
26 05 19 16-0149		MLF	350 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	23,631.52	
26 05 19 16-0150		MLF	400 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	25,730.70	
26 05 19 16-0151		MLF	500 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable	29,547.39	

26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors *(26 05 19 16-0012)*

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0153		**ACTHH, Solid** *(26 05 19 16-0152)*		
26 05 19 16-0154	MLF	1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable	2,589.09	676.80
26 05 19 16-0155	MLF	1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable	2,994.10	767.04
26 05 19 16-0156	MLF	1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable	3,464.87	812.16
26 05 19 16-0157	MLF	2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable	3,643.75	1,128.00
26 05 19 16-0158	MLF	2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable	3,871.65	1,263.14
26 05 19 16-0159	MLF	2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable	5,020.06	1,399.51
26 05 19 16-0160	MLF	2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable	6,735.91	1,534.65
26 05 19 16-0161	MLF	3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable	4,465.79	1,263.14
26 05 19 16-0162	MLF	3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable	4,633.34	1,399.51
26 05 19 16-0163	MLF	3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable	6,049.08	1,579.88
26 05 19 16-0164	MLF	3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable	8,057.98	1,714.33
26 05 19 16-0165	MLF	4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable	5,388.30	1,399.51
26 05 19 16-0166	MLF	4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable	5,877.02	1,579.88
26 05 19 16-0167	MLF	4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable	7,626.68	1,759.79
26 05 19 16-0168	MLF	4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable	10,122.50	1,895.83
26 05 19 16-0169		**ACTHH, Stranded** *(26 05 19 16-0152)*		
26 05 19 16-0170	MLF	2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable	6,962.57	1,625.34
26 05 19 16-0171	MLF	2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable	8,571.90	1,849.13
26 05 19 16-0172	MLF	3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable	8,284.27	1,804.81
26 05 19 16-0173	MLF	3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable	10,534.13	2,028.82
26 05 19 16-0174	MLF	3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable	13,522.93	2,256.00
26 05 19 16-0175	MLF	3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable	15,618.09	2,479.12
26 05 19 16-0176	MLF	3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable	17,980.66	2,705.05
26 05 19 16-0177	MLF	4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable	10,795.68	2,165.08
26 05 19 16-0178	MLF	4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable	13,213.88	2,389.79
26 05 19 16-0179	MLF	4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable	17,282.58	2,617.19
26 05 19 16-0180	MLF	4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable	18,956.92	2,841.32
26 05 19 16-0181	MLF	4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable	22,682.16	3,065.23
26 05 19 16-0182		**HCFC, Solid** *(26 05 19 16-0152)*		
26 05 19 16-0183	MLF	2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable	4,161.17	1,128.00
26 05 19 16-0184	MLF	2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable	4,536.09	1,267.42
26 05 19 16-0185	MLF	2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable	5,085.12	1,392.63
26 05 19 16-0186	MLF	3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable	5,106.29	1,267.42
26 05 19 16-0187	MLF	3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable	5,458.23	1,392.63
26 05 19 16-0188	MLF	3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable	7,282.86	1,588.79
26 05 19 16-0189	MLF	4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable	6,376.08	1,392.63
26 05 19 16-0190	MLF	4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable	6,924.92	1,588.79
26 05 19 16-0191	MLF	4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable	9,720.45	1,762.51
26 05 19 16-0192		**MC, Solid Or Stranded, Galvanized Steel Armor** *(26 05 19 16-0152)*		
26 05 19 16-0193	MLF	2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	4,066.77	1,128.00
26 05 19 16-0194	MLF	2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	4,524.56	1,267.42
26 05 19 16-0195	MLF	2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,748.95	1,392.63
26 05 19 16-0196	MLF	2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	8,045.78	1,488.17
26 05 19 16-0197	MLF	2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	10,669.97	1,577.63
26 05 19 16-0198	MLF	3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	4,781.04	1,267.42
26 05 19 16-0199	MLF	3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,482.97	1,392.63
26 05 19 16-0200	MLF	3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	7,396.29	1,588.79
26 05 19 16-0201	MLF	3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	10,443.10	1,714.33
26 05 19 16-0202	MLF	3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	12,582.34	1,849.13
26 05 19 16-0203	MLF	3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	16,288.79	1,985.96
26 05 19 16-0204	MLF	3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	24,021.78	2,120.31
26 05 19 16-0205	MLF	4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,725.68	1,392.63
26 05 19 16-0206	MLF	4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,575.09	1,588.79
26 05 19 16-0207	MLF	4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	11,455.71	1,762.51
26 05 19 16-0208	MLF	4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	16,608.97	1,941.51
26 05 19 16-0209	MLF	4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	21,004.80	2,077.32
26 05 19 16-0210	MLF	4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	28,982.93	2,211.78
26 05 19 16-0211	MLF	4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	38,668.29	2,345.11
26 05 19 16-0212		**MC, Solid Or Stranded, Aluminum Armor** *(26 05 19 16-0152)*		
26 05 19 16-0213	MLF	2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	4,011.58	1,128.00
26 05 19 16-0214	MLF	2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	4,381.46	1,267.42
26 05 19 16-0215	MLF	2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,622.37	1,392.63
26 05 19 16-0216	MLF	3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,011.54	1,267.42
26 05 19 16-0217	MLF	3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,355.82	1,392.63
26 05 19 16-0218	MLF	3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,295.74	1,588.79
26 05 19 16-0219	MLF	4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	6,821.50	1,392.63
26 05 19 16-0220	MLF	4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,369.31	1,588.79
26 05 19 16-0221	MLF	4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	11,455.71	1,762.51

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0222		**FPLP Solid TFN Red Armored Cable** *(26 05 19 16-0152)*		
		Note: Color coded red.		
26 05 19 16-0223	MLF	#18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	3,939.56	857.28
26 05 19 16-0224	MLF	#18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,459.96	992.64
26 05 19 16-0225	MLF	#18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,602.84	1,128.00
26 05 19 16-0226	MLF	#18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	6,448.49	1,263.36
26 05 19 16-0227	MLF	#16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	4,471.81	992.64
26 05 19 16-0228	MLF	#16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,318.53	1,128.00
26 05 19 16-0229	MLF	#16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	6,789.88	1,263.36
26 05 19 16-0230	MLF	#16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	7,751.85	1,398.72
26 05 19 16-0231		**FPLP Solid THHN Red Armored Cable** *(26 05 19 16-0152)*		
		Note: Color coded red.		
26 05 19 16-0232	MLF	#14/2 With #14 Ground Type THHN FPLP Red Armored Cable	4,949.13	1,128.00
26 05 19 16-0233	MLF	#14/4 With #14 Ground Type THHN FPLP Red Armored Cable	6,244.94	1,263.36
26 05 19 16-0234	MLF	#14/6 With #14 Ground Type THHN FPLP Red Armored Cable	8,513.25	1,398.72
26 05 19 16-0235	MLF	#14/8 With #14 Ground Type THHN FPLP Red Armored Cable	9,933.98	1,534.08
26 05 19 16-0236	MLF	#12/2 With #12 Ground Type THHN FPLP Red Armored Cable	6,359.10	1,263.36
26 05 19 16-0237	MLF	#12/4 With #12 Ground Type THHN FPLP Red Armored Cable	7,887.54	1,398.72
26 05 19 16-0238		**FPLP Twisted Shielded Pair Red Armored Cable** *(26 05 19 16-0152)*		
		Note: Color coded red.		
26 05 19 16-0239	MLF	#18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,327.26	857.28
26 05 19 16-0240	MLF	#18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	7,013.89	1,263.36
26 05 19 16-0241	MLF	#16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	5,366.75	992.64
26 05 19 16-0242	MLF	#16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	6,371.79	1,128.00
26 05 19 16-0243	MLF	#16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,983.88	1,398.72
26 05 19 16-0244	MLF	#14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	6,278.90	1,173.12
26 05 19 16-0245	MLF	#14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	7,826.44	1,353.61
26 05 19 16-0246		**Armored Cable Connectors** *(26 05 19 16-0152)*		
26 05 19 16-0247	EA	3/4" Armored Cable Connector	6.99	2.48
		For Work In Restricted Working Space, Add	*1.86*	
		For Elevated Installation >10' To 15' Above Floor, Add	*0.62*	
		For Elevated Installation >15' To 20' Above Floor, Add	*1.24*	
		For Elevated Installation >20' To 25' Above Floor, Add	*1.55*	
		For Elevated Installation >25' To 30' Above Floor, Add	*2.17*	
		For Elevated Installation >30' To 35' Above Floor, Add	*2.48*	
		For Elevated Installation >35' To 40' Above Floor, Add	*3.10*	
		For Elevated Installation >40' Above Floor, Add	*3.40*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*1.86*	
26 05 19 16-0248	EA	1" Armored Cable Connector	9.32	3.30
		For Work In Restricted Working Space, Add	*2.47*	
		For Elevated Installation >10' To 15' Above Floor, Add	*0.82*	
		For Elevated Installation >15' To 20' Above Floor, Add	*1.65*	
		For Elevated Installation >20' To 25' Above Floor, Add	*2.06*	
		For Elevated Installation >25' To 30' Above Floor, Add	*2.88*	
		For Elevated Installation >30' To 35' Above Floor, Add	*3.30*	
		For Elevated Installation >35' To 40' Above Floor, Add	*4.12*	
		For Elevated Installation >40' Above Floor, Add	*4.53*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*2.47*	
26 05 19 16-0249	EA	1-1/4" Armored Cable Connector	11.74	4.12
		For Work In Restricted Working Space, Add	*3.09*	
		For Elevated Installation >10' To 15' Above Floor, Add	*1.03*	
		For Elevated Installation >15' To 20' Above Floor, Add	*2.06*	
		For Elevated Installation >20' To 25' Above Floor, Add	*2.58*	
		For Elevated Installation >25' To 30' Above Floor, Add	*3.61*	
		For Elevated Installation >30' To 35' Above Floor, Add	*4.12*	
		For Elevated Installation >35' To 40' Above Floor, Add	*5.16*	
		For Elevated Installation >40' Above Floor, Add	*5.67*	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.09*	
26 05 19 16-0250		**600 Volt, Feeder Wire, Single Stranded Copper** *(26 05 19 16-0012)*		
26 05 19 16-0251	MLF	#12 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	918.50	250.21
26 05 19 16-0252	MLF	#10 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,172.35	294.21
26 05 19 16-0253	MLF	#8 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,712.46	400.15
26 05 19 16-0254	MLF	#6 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,431.44	478.98
26 05 19 16-0255	MLF	#4 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,339.90	558.43
26 05 19 16-0256	MLF	#2 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,899.68	719.40
26 05 19 16-0257	MLF	#1 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,938.83	800.39
26 05 19 16-0258	MLF	1/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,917.42	901.80
26 05 19 16-0259	MLF	2/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,930.39	1,000.42
26 05 19 16-0260	MLF	3/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	9,611.71	1,123.36
26 05 19 16-0261	MLF	4/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	11,615.40	1,239.29
26 05 19 16-0262	MLF	250 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	13,803.21	1,362.34
26 05 19 16-0263	MLF	300 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,093.05	1,489.08
26 05 19 16-0264	MLF	350 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	18,572.75	1,600.69

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0265	MLF	400 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	20,956.67	1,778.55
26 05 19 16-0266	MLF	500 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	25,268.30	1,960.03
26 05 19 16-0267	MLF	#14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	963.81	165.19
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*51.83*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*120.93*	
26 05 19 16-0268	MLF	#12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,073.56	182.92
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*52.83*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*123.27*	
26 05 19 16-0269	MLF	#10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,338.61	228.67
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*77.13*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*179.97*	
26 05 19 16-0270	MLF	#8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,875.86	363.77
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*126.80*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*295.87*	
26 05 19 16-0271	MLF	#6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,657.12	436.52
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*213.08*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*497.18*	
26 05 19 16-0272	MLF	#4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,694.83	506.80
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*322.36*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*752.17*	
26 05 19 16-0273	MLF	#3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,221.66	580.07
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*370.47*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*864.43*	
26 05 19 16-0274	MLF	#2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,448.33	653.34
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*523.55*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*1,221.63*	
26 05 19 16-0275	MLF	#1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,880.12	727.65
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*707.41*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*1,650.62*	
26 05 19 16-0276	MLF	1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,363.25	820.90
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*883.50*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*2,061.51*	
26 05 19 16-0277	MLF	2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	10,186.26	910.35
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*1,110.58*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*2,591.36*	
26 05 19 16-0278	MLF	3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	12,343.60	1,016.29
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*1,387.81*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*3,238.22*	
26 05 19 16-0279	MLF	4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	13,966.51	1,129.95
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*1,584.87*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*3,698.04*	
26 05 19 16-0280	MLF	250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	14,829.13	1,239.29
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*1,667.90*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*3,891.76*	
26 05 19 16-0281	MLF	300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	17,677.24	1,362.34
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*2,048.74*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*4,780.39*	
26 05 19 16-0282	MLF	350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	19,796.70	1,444.26
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*2,320.28*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*5,414.00*	
26 05 19 16-0283	MLF	400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	22,286.15	1,614.20
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*2,647.33*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*6,177.10*	
26 05 19 16-0284	MLF	500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	25,641.43	1,795.25
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*3,104.25*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*7,243.24*	
26 05 19 16-0285	MLF	600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	30,237.96	1,867.80
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*3,731.90*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*8,707.76*	
26 05 19 16-0286	MLF	750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	50,406.21	1,940.24
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*6,664.39*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*15,550.24*	
26 05 19 16-0287	MLF	1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	64,034.53	2,073.18
		For Ethylene-Propylene Rubber (EPR) Insulation, Add	*8,646.80*	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	*20,175.88*	
26 05 19 16-0288	MLF	#16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,704.64	370.78
26 05 19 16-0289	MLF	#14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,184.94	412.20
26 05 19 16-0290	MLF	#12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,765.71	495.06
26 05 19 16-0291	MLF	#10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,288.56	576.88
26 05 19 16-0292	MLF	#8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,148.29	617.69
26 05 19 16-0293	MLF	#18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	531.87	206.10
26 05 19 16-0294	MLF	#16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	662.55	226.71
26 05 19 16-0295	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	680.32	165.29
26 05 19 16-0296	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	854.47	197.04
26 05 19 16-0297	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,076.15	247.84
26 05 19 16-0298	MLF	#8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,544.98	326.67
26 05 19 16-0299	MLF	#6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,154.56	394.48
26 05 19 16-0300	MLF	#4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,913.22	466.20
26 05 19 16-0301	MLF	#3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,504.60	527.72
26 05 19 16-0302	MLF	#2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,228.17	590.99
26 05 19 16-0303	MLF	#1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,089.60	666.95
26 05 19 16-0304	MLF	1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,925.41	730.32
26 05 19 16-0305	MLF	2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,766.21	807.09
26 05 19 16-0306	MLF	3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,132.84	853.68

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0307	MLF	4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	9,775.04	960.43
26 05 19 16-0308	MLF	250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	11,562.08	1,021.75
26 05 19 16-0309	MLF	300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	13,429.38	1,157.16
26 05 19 16-0310	MLF	350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	15,446.04	1,280.61
26 05 19 16-0311	MLF	400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	17,387.36	1,315.65
26 05 19 16-0312	MLF	500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	20,845.08	1,391.91
26 05 19 16-0313	MLF	600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	26,130.43	1,638.00
26 05 19 16-0314	MLF	750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	40,856.35	1,940.24
26 05 19 16-0315	MLF	1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	49,063.66	2,342.55
26 05 19 16-0316	MLF	#16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,836.65	495.06
26 05 19 16-0317	MLF	#14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,138.50	576.88
26 05 19 16-0318	MLF	#12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,641.55	660.04
26 05 19 16-0319	MLF	#10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,792.16	741.65
26 05 19 16-0320	MLF	#8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,438.88	824.41
26 05 19 16-0321	MLF	#6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,011.69	906.02
26 05 19 16-0322		**600 Volt, Single Stranded Copper, Low Smoke Zero Halogen** *(26 05 19 16-0012)*		
26 05 19 16-0323	MLF	#14 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	744.65	165.29
26 05 19 16-0324	MLF	#12 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	966.64	197.04
26 05 19 16-0325	MLF	#10 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	1,331.91	247.84
26 05 19 16-0326	MLF	#8 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	2,056.46	326.67
26 05 19 16-0327	MLF	#6 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	3,035.85	394.48
26 05 19 16-0328	MLF	#4 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	4,006.50	466.20
26 05 19 16-0329	MLF	#3 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	4,855.79	527.72
26 05 19 16-0330	MLF	#2 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	5,948.37	590.99
26 05 19 16-0331	MLF	#1 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	6,835.27	666.95
26 05 19 16-0332	MLF	1/0 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	7,862.84	730.32
26 05 19 16-0333	MLF	2/0 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	9,102.05	807.09
26 05 19 16-0334	MLF	3/0 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	11,133.72	853.68
26 05 19 16-0335	MLF	4/0 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	13,600.32	960.43
26 05 19 16-0336	MLF	250 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	15,545.37	1,021.75
26 05 19 16-0337	MLF	300 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	18,333.16	1,157.16
26 05 19 16-0338	MLF	350 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	21,325.80	1,280.61
26 05 19 16-0339	MLF	400 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	23,428.55	1,315.65
26 05 19 16-0340	MLF	500 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	28,436.77	1,391.91
26 05 19 16-0341	MLF	600 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	34,003.83	1,638.00
26 05 19 16-0342	MLF	750 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	44,497.19	1,940.24
26 05 19 16-0343	MLF	1,000 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	58,092.72	2,342.55
26 05 19 16-0344		**600 Volt, Feeder Wire, Single Stranded Aluminum** *(26 05 19 16-0012)*		
26 05 19 16-0345	MLF	#6 AWG,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,305.71	326.16
26 05 19 16-0346	MLF	#4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,552.51	379.26
26 05 19 16-0347	MLF	#2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,037.39	486.84
26 05 19 16-0348	MLF	#1 AWG,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,560.45	543.64
26 05 19 16-0349	MLF	1/0 AWG,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,973.01	612.48
26 05 19 16-0350	MLF	2/0 AWG,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,393.83	676.02
26 05 19 16-0351	MLF	3/0 AWG,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,023.87	762.92
26 05 19 16-0352	MLF	4/0 AWG,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,456.18	841.70
26 05 19 16-0353	MLF	250 MCM,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,184.54	925.30
26 05 19 16-0354	MLF	300 MCM,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,481.58	1,006.26
26 05 19 16-0355	MLF	350 MCM,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,749.52	1,087.18
26 05 19 16-0356	MLF	400 MCM,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,736.60	1,209.24
26 05 19 16-0357	MLF	500 MCM,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,527.15	1,331.26
26 05 19 16-0358	MLF	600 MCM,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,464.09	1,550.77
26 05 19 16-0359	MLF	700 MCM,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,854.53	1,700.08
26 05 19 16-0360	MLF	750 MCM,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	12,089.53	1,763.10
26 05 19 16-0361	MLF	1,000 MCM,Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	16,783.66	2,138.74
26 05 19 16-0362	MLF	#8 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,496.45	365.94
26 05 19 16-0363	MLF	#6 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,682.22	412.20
26 05 19 16-0364	MLF	#4 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,071.05	507.11
26 05 19 16-0365	MLF	#2 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,644.52	621.61
26 05 19 16-0366	MLF	#1 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,426.35	731.77
26 05 19 16-0367	MLF	1/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,978.25	824.72
26 05 19 16-0368	MLF	2/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,554.79	916.02
26 05 19 16-0369	MLF	3/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,311.76	999.39
26 05 19 16-0370	MLF	4/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,785.18	1,063.59
26 05 19 16-0371	MLF	250 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,661.47	1,138.00
26 05 19 16-0372	MLF	300 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,320.57	1,219.61

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0373	MLF	350 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,652.35	1,317.51
26 05 19 16-0374	MLF	400 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,856.99	1,436.74
26 05 19 16-0375	MLF	500 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,032.52	1,648.82
26 05 19 16-0376	MLF	600 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	13,093.84	1,735.18
26 05 19 16-0377	MLF	700 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,681.10	1,829.36
26 05 19 16-0378	MLF	750 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	15,071.35	1,944.17
26 05 19 16-0379	MLF	1,000 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	22,013.34	2,724.67
26 05 19 16-0380	MLF	#6 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,429.10	412.20
26 05 19 16-0381	MLF	#4 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,779.87	507.01
26 05 19 16-0382	MLF	#2 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,216.64	622.43
26 05 19 16-0383	MLF	#1 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,764.22	727.65
26 05 19 16-0384	MLF	1/0 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,122.71	820.90
26 05 19 16-0385	MLF	2/0 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,528.62	910.35
26 05 19 16-0386	MLF	3/0 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,070.11	999.39
26 05 19 16-0387	MLF	4/0 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,435.59	1,063.59
26 05 19 16-0388	MLF	250 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,006.98	1,137.27
26 05 19 16-0389	MLF	300 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,013.82	1,221.15
26 05 19 16-0390	MLF	350 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,373.03	1,319.26
26 05 19 16-0391	MLF	400 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,045.75	1,433.44
26 05 19 16-0392	MLF	500 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,107.93	1,648.82
26 05 19 16-0393	MLF	600 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,223.24	1,730.53
26 05 19 16-0394	MLF	700 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,199.29	1,829.36
26 05 19 16-0395	MLF	750 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,608.24	1,938.29

26 05 19 16-0396 Non-Metallic Sheathed Cable *(26 05 19 16-0012)*

26 05 19 16-0397 Indoor Installation *(26 05 19 16-0396)*

Note: For NM, NM-B, NMC-B and NMS-B.

26 05 19 16-0398	MLF	#14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,430.53	783.09
		For Installation In Wood Stud Wall (Includes Drilling), Add	*293.65*	
26 05 19 16-0399	MLF	#14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,389.55	948.07
		For Installation In Wood Stud Wall (Includes Drilling), Add	*355.54*	
26 05 19 16-0400	MLF	#14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,331.95	1,049.06
		For Installation In Wood Stud Wall (Includes Drilling), Add	*393.40*	
26 05 19 16-0401	MLF	#12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,654.98	890.36
		For Installation In Wood Stud Wall (Includes Drilling), Add	*316.88*	
26 05 19 16-0402	MLF	#12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,277.39	989.08
		For Installation In Wood Stud Wall (Includes Drilling), Add	*370.92*	
26 05 19 16-0403	MLF	#12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	10,192.40	1,104.70
		For Installation In Wood Stud Wall (Includes Drilling), Add	*414.27*	
26 05 19 16-0404	MLF	#10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,981.85	989.60
		For Installation In Wood Stud Wall (Includes Drilling), Add	*371.11*	
26 05 19 16-0405	MLF	#10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	10,539.83	1,154.38
		For Installation In Wood Stud Wall (Includes Drilling), Add	*432.89*	
26 05 19 16-0406	MLF	#10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	12,711.14	1,319.05
		For Installation In Wood Stud Wall (Includes Drilling), Add	*494.64*	
26 05 19 16-0407	MLF	#8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	13,132.94	1,185.08
		For Installation In Wood Stud Wall (Includes Drilling), Add	*422.00*	
26 05 19 16-0408	MLF	#8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	16,970.41	1,432.41
		For Installation In Wood Stud Wall (Includes Drilling), Add	*510.10*	
26 05 19 16-0409	MLF	#6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	17,718.59	1,349.96
		For Installation In Wood Stud Wall (Includes Drilling), Add	*479.19*	
26 05 19 16-0410	MLF	#6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	24,069.29	1,628.20
		For Installation In Wood Stud Wall (Includes Drilling), Add	*579.66*	
26 05 19 16-0411	MLF	#4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	60,446.24	1,793.08
		For Installation In Wood Stud Wall (Includes Drilling), Add	*637.63*	
26 05 19 16-0412	MLF	#2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	70,848.61	1,947.67
		For Installation In Wood Stud Wall (Includes Drilling), Add	*695.59*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0413			**Direct Burial Cable** *(26 05 19 16-0396)*		
			Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0414		MLF	#14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,405.03	
26 05 19 16-0415		MLF	#14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,165.86	
26 05 19 16-0416		MLF	#12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,070.44	
26 05 19 16-0417		MLF	#12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,036.75	
26 05 19 16-0418		MLF	#10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,389.44	
26 05 19 16-0419		MLF	#10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,992.30	
26 05 19 16-0420		MLF	#8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,511.62	
26 05 19 16-0421		MLF	#8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	7,108.75	
26 05 19 16-0422		MLF	#6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	7,018.54	
26 05 19 16-0423		MLF	#6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	9,362.49	
26 05 19 16-0424			**SEU Cable Copper, 3 Conductor** *(26 05 19 16-0396)*		
26 05 19 16-0425		MLF	12-12-12 Cable SEU Copper	3,200.38	992.98
26 05 19 16-0426		MLF	10-10-10 Cable SEU Copper	4,103.51	1,128.00
26 05 19 16-0427		MLF	8-8-8 Cable SEU Copper	5,209.48	1,263.14
26 05 19 16-0428		MLF	6-6-8 Cable SEU Copper	6,418.01	1,354.17
26 05 19 16-0429		MLF	6-6-6 Cable SEU Copper	6,946.34	1,399.51
26 05 19 16-0430		MLF	4-4-6 Cable SEU Copper	8,595.02	1,534.65
26 05 19 16-0431		MLF	4-4-4 Cable SEU Copper	9,316.16	1,579.88
26 05 19 16-0432		MLF	3-3-5 Cable SEU Copper	10,940.53	1,714.33
26 05 19 16-0433		MLF	3-3-3 Cable SEU Copper	11,632.74	1,804.81
26 05 19 16-0434		MLF	2-2-4 Cable SEU Copper	12,451.02	1,895.83
26 05 19 16-0435		MLF	2-2-2 Cable SEU Copper	13,342.60	1,985.96
26 05 19 16-0436		MLF	1-1-1 Cable SEU Copper	16,463.52	2,256.00
26 05 19 16-0437		MLF	1/0-1/0-1/0 Cable SEU Copper	19,710.16	2,529.21
26 05 19 16-0438		MLF	2/0-2/0-2/0 Cable SEU Copper	23,883.62	2,848.55
26 05 19 16-0439		MLF	3/0-3/0-3/0 Cable SEU Copper	28,930.19	3,168.56
26 05 19 16-0440		MLF	4/0-4/0-4/0 Cable SEU Copper	32,334.83	3,536.06
26 05 19 16-0441			**SEU Cable Aluminum, 3 Conductor** *(26 05 19 16-0396)*		
26 05 19 16-0442		MLF	8-8-8 Cable SEU Aluminum	4,193.25	1,267.42
26 05 19 16-0443		MLF	6-6-6 Cable SEU Aluminum	4,798.93	1,392.63
26 05 19 16-0444		MLF	4-4-6 Cable SEU Aluminum	5,403.67	1,524.38
26 05 19 16-0445		MLF	4-4-4 Cable SEU Aluminum	5,660.93	1,588.79
26 05 19 16-0446		MLF	2-2-4 Cable SEU Aluminum	6,780.68	1,880.04
26 05 19 16-0447		MLF	2-2-2 Cable SEU Aluminum	7,203.93	1,978.96
26 05 19 16-0448		MLF	1-1-1 Cable SEU Aluminum	8,697.98	2,256.00
26 05 19 16-0449		MLF	1/0-1/0-2 Cable SEU Aluminum	9,212.19	2,374.78
26 05 19 16-0450		MLF	1/0-1/0-1/0 Cable SEU Aluminum	11,336.91	2,506.64
26 05 19 16-0451		MLF	2/0-2/0-1 Cable SEU Aluminum	10,399.46	2,685.77
26 05 19 16-0452		MLF	2/0-2/0-2/0 Cable SEU Aluminum	10,992.34	2,820.00
26 05 19 16-0453		MLF	3/0-3/0-1/0 Cable SEU Aluminum	12,018.61	2,952.88
26 05 19 16-0454		MLF	3/0-3/0-3/0 Cable SEU Aluminum	12,867.47	3,133.36
26 05 19 16-0455		MLF	4/0-4/0-2/0 Cable SEU Aluminum	13,555.69	3,387.39
26 05 19 16-0456		MLF	4/0-4/0-4/0 Cable SEU Aluminum	14,336.11	3,525.00
26 05 19 16-0457			**SER Cable Copper, 4 Conductor** *(26 05 19 16-0396)*		
26 05 19 16-0458		MLF	6-6-6-6 Cable SER Copper	11,018.75	1,625.34
26 05 19 16-0459		MLF	4-4-4-6 Cable SER Copper	12,097.42	1,759.79
26 05 19 16-0460		MLF	3-3-3-5 Cable SER Copper	15,118.81	1,985.96
26 05 19 16-0461		MLF	2-2-2-4 Cable SER Copper	17,379.17	2,165.08
26 05 19 16-0462		MLF	1-1-1-3 Cable SER Copper	20,285.01	2,479.12
26 05 19 16-0463		MLF	1/0-1/0-1/0-2 Cable SER Copper	24,822.54	2,841.32
26 05 19 16-0464		MLF	2/0-2/0-2/0-1 Cable SER Copper	31,423.36	3,065.23
26 05 19 16-0465		MLF	3/0-3/0-3/0-1/0 Cable SER Copper	36,368.69	3,428.56
26 05 19 16-0466			**SER Cable Aluminum, 4 Conductor** *(26 05 19 16-0396)*		
26 05 19 16-0467		MLF	8-8-8-8 Cable SER Aluminum	5,127.35	1,517.05
26 05 19 16-0468		MLF	6-6-6-6 Cable SER Aluminum	5,593.01	1,625.34
26 05 19 16-0469		MLF	4-4-4-6 Cable SER Aluminum	6,267.06	1,759.79
26 05 19 16-0470		MLF	2-2-2-4 Cable SER Aluminum	7,900.06	2,165.08
26 05 19 16-0471		MLF	1-1-1-3 Cable SER Aluminum	9,524.80	2,479.12
26 05 19 16-0472		MLF	1/0-1/0-1/0-2 Cable SER Aluminum	10,756.04	2,841.32
26 05 19 16-0473		MLF	2/0-2/0-2/0-1 Cable SER Aluminum	12,046.92	3,065.23
26 05 19 16-0474		MLF	3/0-3/0-3/0-1/0 Cable SER Aluminum	13,721.79	3,428.56
26 05 19 16-0475		MLF	4/0-4/0-4/0-2/0 Cable SER Aluminum	15,590.24	3,820.42

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0476		Control Tray Cable, Low Voltage *(26 05 19 16-0011)*		
		Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0477	MLF	2 Conductor #18 AWG, Stranded, Type TC Control Cable	1,232.90	499.90
		For Work In Restricted Working Space, Add	*249.95*	
26 05 19 16-0478	MLF	3 Conductor #18 AWG, Stranded, Type TC Control Cable	1,445.94	559.20
		For Work In Restricted Working Space, Add	*279.60*	
26 05 19 16-0479	MLF	4 Conductor #18 AWG, Stranded, Type TC Control Cable	1,550.63	559.16
		For Work In Restricted Working Space, Add	*279.60*	
26 05 19 16-0480	MLF	5 Conductor #18 AWG, Stranded, Type TC Control Cable	1,939.84	701.34
		For Work In Restricted Working Space, Add	*350.67*	
26 05 19 16-0481	MLF	7 Conductor #18 AWG, Stranded, Type TC Control Cable	2,480.88	854.65
		For Work In Restricted Working Space, Add	*427.33*	
26 05 19 16-0482	MLF	9 Conductor #18 AWG, Stranded, Type TC Control Cable	2,879.80	939.82
		For Work In Restricted Working Space, Add	*469.91*	
26 05 19 16-0483	MLF	12 Conductor #18 AWG, Stranded, Type TC Control Cable	3,492.97	1,067.87
		For Work In Restricted Working Space, Add	*533.94*	
26 05 19 16-0484	MLF	15 Conductor #18 AWG, Stranded, Type TC Control Cable	4,478.67	1,305.24
		For Work In Restricted Working Space, Add	*652.62*	
26 05 19 16-0485	MLF	19 Conductor #18 AWG, Stranded, Type TC Control Cable	5,209.51	1,423.96
		For Work In Restricted Working Space, Add	*711.98*	
26 05 19 16-0486	MLF	25 Conductor #18 AWG, Stranded, Type TC Control Cable	6,463.89	1,468.48
		For Work In Restricted Working Space, Add	*734.24*	
26 05 19 16-0487	MLF	30 Conductor #18 AWG, Stranded, Type TC Control Cable	7,882.94	1,834.52
		For Work In Restricted Working Space, Add	*917.26*	
26 05 19 16-0488	MLF	37 Conductor #18 AWG, Stranded, Type TC Control Cable	9,531.31	2,143.98
		For Work In Restricted Working Space, Add	*1,071.99*	
26 05 19 16-0489	MLF	2 Conductor #16 AWG, Stranded, Type TC Control Cable	1,376.63	526.59
		For Work In Restricted Working Space, Add	*263.09*	
26 05 19 16-0490	MLF	3 Conductor #16 AWG, Stranded, Type TC Control Cable	1,623.49	588.63
		For Work In Restricted Working Space, Add	*294.32*	
26 05 19 16-0491	MLF	4 Conductor #16 AWG, Stranded, Type TC Control Cable	1,902.74	677.66
		For Work In Restricted Working Space, Add	*338.83*	
26 05 19 16-0492	MLF	5 Conductor #16 AWG, Stranded, Type TC Control Cable	2,194.09	738.25
		For Work In Restricted Working Space, Add	*369.13*	
26 05 19 16-0493	MLF	7 Conductor #16 AWG, Stranded, Type TC Control Cable	2,819.96	899.64
		For Work In Restricted Working Space, Add	*449.82*	
26 05 19 16-0494	MLF	9 Conductor #16 AWG, Stranded, Type TC Control Cable	3,290.61	989.29
		For Work In Restricted Working Space, Add	*494.65*	
26 05 19 16-0495	MLF	12 Conductor #16 AWG, Stranded, Type TC Control Cable	4,014.93	1,124.08
		For Work In Restricted Working Space, Add	*562.04*	
26 05 19 16-0496	MLF	15 Conductor #16 AWG, Stranded, Type TC Control Cable	5,168.87	1,373.88
		For Work In Restricted Working Space, Add	*686.94*	
26 05 19 16-0497	MLF	19 Conductor #16 AWG, Stranded, Type TC Control Cable	6,043.27	1,498.77
		For Work In Restricted Working Space, Add	*749.39*	
26 05 19 16-0498	MLF	25 Conductor #16 AWG, Stranded, Type TC Control Cable	7,596.81	1,545.77
		For Work In Restricted Working Space, Add	*772.88*	
26 05 19 16-0499	MLF	30 Conductor #16 AWG, Stranded, Type TC Control Cable	9,250.06	1,930.97
		For Work In Restricted Working Space, Add	*965.48*	
26 05 19 16-0500	MLF	37 Conductor #16 AWG, Stranded, Type TC Control Cable	11,208.88	2,256.82
		For Work In Restricted Working Space, Add	*1,128.41*	
26 05 19 16-0501	MLF	2 Conductor #14 AWG, Stranded, Type TC Control Cable	1,522.87	549.67
		For Work In Restricted Working Space, Add	*274.84*	
26 05 19 16-0502	MLF	3 Conductor #14 AWG, Stranded, Type TC Control Cable	1,875.20	618.31
		For Work In Restricted Working Space, Add	*309.15*	
26 05 19 16-0503	MLF	4 Conductor #14 AWG, Stranded, Type TC Control Cable	2,224.81	706.73
		For Work In Restricted Working Space, Add	*353.36*	
26 05 19 16-0504	MLF	5 Conductor #14 AWG, Stranded, Type TC Control Cable	2,553.44	761.14
		For Work In Restricted Working Space, Add	*380.57*	
26 05 19 16-0505	MLF	7 Conductor #14 AWG, Stranded, Type TC Control Cable	3,518.04	933.03
		For Work In Restricted Working Space, Add	*466.51*	
26 05 19 16-0506	MLF	9 Conductor #14 AWG, Stranded, Type TC Control Cable	4,121.05	1,030.51
		For Work In Restricted Working Space, Add	*515.36*	
26 05 19 16-0507	MLF	12 Conductor #14 AWG, Stranded, Type TC Control Cable	5,224.12	1,150.05
		For Work In Restricted Working Space, Add	*575.03*	
26 05 19 16-0508	MLF	15 Conductor #14 AWG, Stranded, Type TC Control Cable	6,239.60	1,373.67
		For Work In Restricted Working Space, Add	*686.94*	
26 05 19 16-0509	MLF	19 Conductor #14 AWG, Stranded, Type TC Control Cable	11,606.29	1,596.26
		For Work In Restricted Working Space, Add	*797.93*	
26 05 19 16-0510	MLF	25 Conductor #14 AWG, Stranded, Type TC Control Cable	9,630.67	1,866.25
		For Work In Restricted Working Space, Add	*933.33*	
26 05 19 16-0511	MLF	30 Conductor #14 AWG, Stranded, Type TC Control Cable	11,317.23	2,085.55
		For Work In Restricted Working Space, Add	*1,042.78*	
26 05 19 16-0512	MLF	37 Conductor #14 AWG, Stranded, Type TC Control Cable	13,744.06	2,437.36
		For Work In Restricted Working Space, Add	*1,218.68*	
26 05 19 16-0513	MLF	2 Conductor #12 AWG, Stranded, Type TC Control Cable	1,849.53	588.63
		For Work In Restricted Working Space, Add	*294.32*	
26 05 19 16-0514	MLF	3 Conductor #12 AWG, Stranded, Type TC Control Cable	2,286.73	651.29
		For Work In Restricted Working Space, Add	*325.54*	
26 05 19 16-0515	MLF	4 Conductor #12 AWG, Stranded, Type TC Control Cable	2,843.18	749.39
		For Work In Restricted Working Space, Add	*374.69*	
26 05 19 16-0516	MLF	5 Conductor #12 AWG, Stranded, Type TC Control Cable	3,292.36	797.62
		For Work In Restricted Working Space, Add	*398.81*	
26 05 19 16-0517	MLF	7 Conductor #12 AWG, Stranded, Type TC Control Cable	4,487.80	950.96
		For Work In Restricted Working Space, Add	*475.48*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0518		MLF	9 Conductor #12 AWG, Stranded, Type TC Control Cable	5,609.13	1,124.08
			For Work In Restricted Working Space, Add	*562.04*	
26 05 19 16-0519		MLF	12 Conductor #12 AWG, Stranded, Type TC Control Cable	6,967.56	1,268.15
			For Work In Restricted Working Space, Add	*634.07*	
26 05 19 16-0520		MLF	15 Conductor #12 AWG, Stranded, Type TC Control Cable	8,373.29	1,454.87
			For Work In Restricted Working Space, Add	*727.44*	
26 05 19 16-0521		MLF	19 Conductor #12 AWG, Stranded, Type TC Control Cable	10,005.54	1,649.02
			For Work In Restricted Working Space, Add	*824.51*	
26 05 19 16-0522		MLF	25 Conductor #12 AWG, Stranded, Type TC Control Cable	13,086.61	1,927.26
			For Work In Restricted Working Space, Add	*963.63*	
26 05 19 16-0523		MLF	30 Conductor #12 AWG, Stranded, Type TC Control Cable	15,124.04	2,252.49
			For Work In Restricted Working Space, Add	*1,126.24*	
26 05 19 16-0524		MLF	37 Conductor #12 AWG, Stranded, Type TC Control Cable	18,426.49	2,632.74
			For Work In Restricted Working Space, Add	*1,316.37*	
26 05 19 16-0525		MLF	2 Conductor #10 AWG, Stranded, Type TC Control Cable	2,327.28	618.31
			For Work In Restricted Working Space, Add	*309.15*	
26 05 19 16-0526		MLF	3 Conductor #10 AWG, Stranded, Type TC Control Cable	3,044.86	678.08
			For Work In Restricted Working Space, Add	*338.83*	
26 05 19 16-0527		MLF	4 Conductor #10 AWG, Stranded, Type TC Control Cable	3,786.51	772.88
			For Work In Restricted Working Space, Add	*386.44*	
26 05 19 16-0528		MLF	5 Conductor #10 AWG, Stranded, Type TC Control Cable	4,490.59	838.43
			For Work In Restricted Working Space, Add	*419.21*	
26 05 19 16-0529		MLF	7 Conductor #10 AWG, Stranded, Type TC Control Cable	6,203.41	1,052.36
			For Work In Restricted Working Space, Add	*526.18*	
26 05 19 16-0530		MLF	9 Conductor #10 AWG, Stranded, Type TC Control Cable	7,459.53	1,177.87
			For Work In Restricted Working Space, Add	*588.94*	
26 05 19 16-0531		MLF	12 Conductor #10 AWG, Stranded, Type TC Control Cable	8,690.39	1,373.88
			For Work In Restricted Working Space, Add	*686.94*	
26 05 19 16-0532		MLF	15 Conductor #10 AWG, Stranded, Type TC Control Cable	10,351.58	1,571.12
			For Work In Restricted Working Space, Add	*785.56*	
26 05 19 16-0533		MLF	19 Conductor #10 AWG, Stranded, Type TC Control Cable	12,402.19	1,780.72
			For Work In Restricted Working Space, Add	*890.36*	
26 05 19 16-0534		MLF	25 Conductor #10 AWG, Stranded, Type TC Control Cable	16,305.56	2,081.22
			For Work In Restricted Working Space, Add	*1,040.61*	
26 05 19 16-0535		MLF	30 Conductor #10 AWG, Stranded, Type TC Control Cable	18,834.89	2,432.42
			For Work In Restricted Working Space, Add	*1,216.21*	
26 05 19 16-0536		MLF	37 Conductor #10 AWG, Stranded, Type TC Control Cable	22,989.46	2,843.59
			For Work In Restricted Working Space, Add	*1,421.79*	

26 05 19 16-0537 ACSR (Aluminum Conductor Steel Reinforced) *(26 05 19 16-0011)*

Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.

26 05 19 16-0538 ACSR Cable *(26 05 19 16-0537)*

26 05 19 16-0539		MLF	#4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,788.04	526.83
26 05 19 16-0540		MLF	#4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,919.83	547.03
26 05 19 16-0541		MLF	#2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,110.71	568.10
26 05 19 16-0542		MLF	#2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,242.74	588.67
26 05 19 16-0543		MLF	1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,573.73	608.62
26 05 19 16-0544		MLF	2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,029.48	689.93
26 05 19 16-0545		MLF	3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,549.67	769.42
26 05 19 16-0546		MLF	4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	4,138.52	850.01
26 05 19 16-0547		MLF	336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial)	4,693.17	1,092.37
26 05 19 16-0548		MLF	477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	5,321.59	1,253.05

26 05 19 16-0549 All Aluminum Conductors *(26 05 19 16-0537)*

26 05 19 16-0550		MLF	795.0 ACSR Conductor Aluminum	35,554.53	10,397.86

26 05 19 16-0551 Single Conductor Installed On Poles *(26 05 19 16-0011)*

26 05 19 16-0552 Bare Stranded Conductor *(26 05 19 16-0551)*

26 05 19 16-0553		MLF	#12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,409.12	446.37
26 05 19 16-0554		MLF	#10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,685.57	486.54
26 05 19 16-0555		MLF	#8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,963.33	527.19
26 05 19 16-0556		MLF	#6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	2,479.02	568.10
26 05 19 16-0557		MLF	#4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	3,091.47	609.11
26 05 19 16-0558		MLF	#2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	4,562.07	730.60
26 05 19 16-0559		MLF	#1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	5,269.12	811.54
26 05 19 16-0560		MLF	1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	6,046.10	891.03
26 05 19 16-0561		MLF	2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	8,239.45	1,056.82
26 05 19 16-0562		MLF	3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	10,062.33	1,215.07
26 05 19 16-0563		MLF	4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	10,731.11	1,377.07
26 05 19 16-0564		MLF	250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	13,697.30	1,622.96
26 05 19 16-0565		MLF	300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	13,965.74	1,708.42
26 05 19 16-0566		MLF	350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	17,762.16	1,789.12
26 05 19 16-0567		MLF	400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	19,737.56	1,862.52
26 05 19 16-0568		MLF	500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	23,227.24	1,942.01

26 05 19 16-0569 Insulated Stranded Conductor *(26 05 19 16-0551)*

26 05 19 16-0570		MLF	#12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	1,557.86	446.37

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 19 16-0571	MLF	#10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	1,877.48	486.54
	26 05 19 16-0572	MLF	#8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	2,342.19	527.19
	26 05 19 16-0573	MLF	#6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	2,550.73	568.10
	26 05 19 16-0574	MLF	#4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	3,200.88	609.11
	26 05 19 16-0575	MLF	#2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	4,404.06	730.60
	26 05 19 16-0576	MLF	#1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	5,253.35	811.54
	26 05 19 16-0577	MLF	1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	6,266.11	891.03
	26 05 19 16-0578	MLF	2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	7,563.84	1,056.82
	26 05 19 16-0579	MLF	3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	9,120.60	1,215.07
	26 05 19 16-0580	MLF	4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	10,804.58	1,377.07
	26 05 19 16-0581	MLF	250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	13,247.80	1,622.96
	26 05 19 16-0582	MLF	300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	15,155.56	1,708.42
	26 05 19 16-0583	MLF	350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	16,700.80	1,789.12
	26 05 19 16-0584	MLF	400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	18,857.55	1,862.52
	26 05 19 16-0585	MLF	500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	21,355.48	1,942.01
	26 05 19 16-0586		Bare Solid Conductor *(26 05 19 16-0551)*		
	26 05 19 16-0587	MLF	#12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,409.12	446.37
	26 05 19 16-0588	MLF	#8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,963.33	527.19
	26 05 19 16-0589	MLF	#6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,479.02	568.10
	26 05 19 16-0590	MLF	#4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	3,046.26	609.11
	26 05 19 16-0591		Multi-Conductor Cords, Cables And Associated Equipment *(26 05 19 16-0011)*		
	26 05 19 16-0592		Multi-Conductor Cords *(26 05 19 16-0591)* Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
	26 05 19 16-0593		Multi-Conductor Type SOOW And SJOOW Cord *(26 05 19 16-0592)* Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
	26 05 19 16-0594		300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0593)*		
	26 05 19 16-0595		#18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0594)*		
	26 05 19 16-0596	LF	2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.02	0.45
	26 05 19 16-0597	LF	3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.06	0.45
	26 05 19 16-0598	LF	4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.16	0.45
	26 05 19 16-0599		#16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0594)*		
	26 05 19 16-0600	LF	2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.20	0.45
	26 05 19 16-0601	LF	3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.26	0.45
	26 05 19 16-0602	LF	4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.34	0.45
	26 05 19 16-0603		#14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0594)*		
	26 05 19 16-0604	LF	2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.31	0.45
	26 05 19 16-0605	LF	3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.41	0.45
	26 05 19 16-0606	LF	4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.59	0.45
	26 05 19 16-0607		#12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0594)*		
	26 05 19 16-0608	LF	2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.47	0.45
	26 05 19 16-0609	LF	3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.58	0.45
	26 05 19 16-0610	LF	4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.74	0.45
	26 05 19 16-0611		#10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0594)*		
	26 05 19 16-0612	LF	2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.84	0.56
	26 05 19 16-0613	LF	3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.92	0.56
	26 05 19 16-0614	LF	4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.04	0.56
	26 05 19 16-0615		600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0593)*		
	26 05 19 16-0616		#18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0615)*		
	26 05 19 16-0617	LF	2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.06	0.45
	26 05 19 16-0618	LF	3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.13	0.45
	26 05 19 16-0619	LF	4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.22	0.45
	26 05 19 16-0620	LF	5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.00	0.61
	26 05 19 16-0621	LF	6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.16	0.62
	26 05 19 16-0622	LF	7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.29	0.64
	26 05 19 16-0623	LF	8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.49	0.66

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0624	LF	10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.82	0.69
26 05 19 16-0625	LF	12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.18	0.71
26 05 19 16-0626	LF	14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.09	0.73
26 05 19 16-0627	LF	16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.17	0.74
26 05 19 16-0628	LF	18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.28	0.76
26 05 19 16-0629	LF	20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.72	0.78
26 05 19 16-0630	LF	24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.86	0.79
26 05 19 16-0631	LF	30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.13	0.84

26 05 19 16-0632 #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord

(26 05 19 16-0615)

26 05 19 16-0633	LF	2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.26	0.45
26 05 19 16-0634	LF	3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.32	0.45
26 05 19 16-0635	LF	4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.43	0.45
26 05 19 16-0636	LF	5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.07	0.61
26 05 19 16-0637	LF	6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.26	0.62
26 05 19 16-0638	LF	7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.45	0.64
26 05 19 16-0639	LF	8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.69	0.66
26 05 19 16-0640	LF	9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.80	0.68
26 05 19 16-0641	LF	10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.07	0.69
26 05 19 16-0642	LF	12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.54	0.71
26 05 19 16-0643	LF	14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.78	0.73
26 05 19 16-0644	LF	16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.23	0.74
26 05 19 16-0645	LF	18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.84	0.76
26 05 19 16-0646	LF	20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.38	0.78
26 05 19 16-0647	LF	24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.43	0.79
26 05 19 16-0648	LF	26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.04	0.81
26 05 19 16-0649	LF	30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.15	0.84

26 05 19 16-0650 #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord

(26 05 19 16-0615)

26 05 19 16-0651	LF	2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.42	0.45
26 05 19 16-0652	LF	3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.49	0.45
26 05 19 16-0653	LF	4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.66	0.45
26 05 19 16-0654	LF	5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.60	0.61
26 05 19 16-0655	LF	6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.06	0.62
26 05 19 16-0656	LF	7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.23	0.64
26 05 19 16-0657	LF	8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.60	0.66
26 05 19 16-0658	LF	9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.86	0.68
26 05 19 16-0659	LF	10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.27	0.69
26 05 19 16-0660	LF	12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.67	0.71
26 05 19 16-0661	LF	14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.13	0.73
26 05 19 16-0662	LF	16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.10	0.74
26 05 19 16-0663	LF	20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.81	0.78
26 05 19 16-0664	LF	24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.97	0.79
26 05 19 16-0665	LF	30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.39	0.84

26 05 19 16-0666 #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord

(26 05 19 16-0615)

26 05 19 16-0667	LF	2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.59	0.45
26 05 19 16-0668	LF	3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.72	0.45
26 05 19 16-0669	LF	4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.84	0.45
26 05 19 16-0670	LF	5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.93	0.61
26 05 19 16-0671	LF	6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.36	0.62
26 05 19 16-0672	LF	7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.80	0.64
26 05 19 16-0673	LF	8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.27	0.66
26 05 19 16-0674	LF	9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.61	0.68

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0675	LF	10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.18	0.69
26 05 19 16-0676	LF	12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.86	0.71
26 05 19 16-0677	LF	14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.49	0.73
26 05 19 16-0678	LF	16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.12	0.74
26 05 19 16-0679	LF	18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.43	0.76
26 05 19 16-0680	LF	20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.51	0.78
26 05 19 16-0681	LF	24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.62	0.79
26 05 19 16-0682	LF	26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.74	0.81
26 05 19 16-0683	LF	28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.10	0.83
26 05 19 16-0684	LF	30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.50	0.84
26 05 19 16-0685		#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0615)*		
26 05 19 16-0686	LF	2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.81	0.56
26 05 19 16-0687	LF	3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.92	0.56
26 05 19 16-0688	LF	4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.03	0.56
26 05 19 16-0689	LF	5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.58	0.61
26 05 19 16-0690	LF	6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.04	0.62
26 05 19 16-0691	LF	7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.70	0.64
26 05 19 16-0692	LF	10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.99	0.69
26 05 19 16-0693	LF	12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.82	0.71
26 05 19 16-0694	LF	16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.62	0.74
26 05 19 16-0695	LF	20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.38	0.78
26 05 19 16-0696		#8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0615)*		
26 05 19 16-0697	LF	3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	3.44	0.68
26 05 19 16-0698	LF	4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	3.72	0.79
26 05 19 16-0699	LF	5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	4.94	0.79
26 05 19 16-0700		#6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0615)*		
26 05 19 16-0701	LF	3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	4.79	0.79
26 05 19 16-0702	LF	4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	5.77	0.90
26 05 19 16-0703	LF	5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	6.92	1.13
26 05 19 16-0704		#4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0615)*		
26 05 19 16-0705	LF	3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	7.55	1.13
26 05 19 16-0706	LF	4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	8.26	1.24
26 05 19 16-0707	LF	5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	9.90	1.35
26 05 19 16-0708		#2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0615)*		
26 05 19 16-0709	LF	3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	11.69	2.26
26 05 19 16-0710	LF	4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	14.85	2.82
26 05 19 16-0711	LF	5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	18.19	3.72
26 05 19 16-0712		300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0593)*		
26 05 19 16-0713		#18 AWG, 300 Volt, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0712)*		
26 05 19 16-0714	LF	2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.35	0.45
26 05 19 16-0715	LF	3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.45	0.45
26 05 19 16-0716	LF	4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.65	0.45
26 05 19 16-0717		#16 AWG, 300 Volt, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0712)*		
26 05 19 16-0718	LF	2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.41	0.45
26 05 19 16-0719	LF	3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.58	0.45

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0720	LF	4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.66	0.45
26 05 19 16-0721		#14 AWG, 300 Volt, Multi-Conductor Type SJOOW Cord *(26 05 19 16-0712)*		
26 05 19 16-0722	LF	2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.83	0.45
26 05 19 16-0723	LF	3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.52	0.45
26 05 19 16-0724	LF	4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	3.16	0.56
26 05 19 16-0725		600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0593)*		
26 05 19 16-0726		#18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0725)*		
26 05 19 16-0727	LF	2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	1.78	0.45
26 05 19 16-0728	LF	3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.07	0.45
26 05 19 16-0729	LF	4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.37	0.45
26 05 19 16-0730		#16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0725)*		
26 05 19 16-0731	LF	2 Conductors, #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	1.88	0.45
26 05 19 16-0732	LF	3 Conductors, #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.18	0.45
26 05 19 16-0733	LF	4 Conductors, #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.64	0.45
26 05 19 16-0734	LF	5 Conductors, #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.86	0.56
26 05 19 16-0735		#14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0725)*		
26 05 19 16-0736	LF	3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.25	0.45
26 05 19 16-0737	LF	4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.63	0.45
26 05 19 16-0738	LF	5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.92	0.56
26 05 19 16-0739		#12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0725)*		
26 05 19 16-0740	LF	3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.60	0.45
26 05 19 16-0741	LF	4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.94	0.45
26 05 19 16-0742	LF	5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.27	0.56
26 05 19 16-0743		#10 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord *(26 05 19 16-0725)*		
26 05 19 16-0744	LF	3 Conductors, #10 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.96	0.56
26 05 19 16-0745	LF	4 Conductors, #10 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.26	0.56
26 05 19 16-0746	LF	5 Conductors, #10 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.58	0.56
26 05 19 16-0747		Multi-Conductor Type SEOW Cord *(26 05 19 16-0592)*		
		Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0748		600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord *(26 05 19 16-0747)*		
26 05 19 16-0749		#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord *(26 05 19 16-0748)*		
26 05 19 16-0750	LF	3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	1.42	0.45
26 05 19 16-0751	LF	4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	1.54	0.45
26 05 19 16-0752	LF	5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.20	0.56
26 05 19 16-0753		#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord *(26 05 19 16-0748)*		
26 05 19 16-0754	LF	3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	1.77	0.45

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0755	LF	4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	1.99	0.45
26 05 19 16-0756	LF	5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.75	0.56
26 05 19 16-0757		#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord *(26 05 19 16-0748)*		
26 05 19 16-0758	LF	3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.13	0.45
26 05 19 16-0759	LF	4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.42	0.45
26 05 19 16-0760	LF	5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.98	0.56
26 05 19 16-0761		#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord *(26 05 19 16-0748)*		
26 05 19 16-0762	LF	3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.64	0.56
26 05 19 16-0763	LF	4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.98	0.56
26 05 19 16-0764	LF	5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	3.19	0.56
26 05 19 16-0765		Multi-Conductor Type W Cord *(26 05 19 16-0592)*		
		Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0766		2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord *(26 05 19 16-0765)*		
26 05 19 16-0767		#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord *(26 05 19 16-0766)*		
26 05 19 16-0768	LF	3 Conductors, #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	3.73	0.68
26 05 19 16-0769	LF	4 Conductors, #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	3.99	0.79
26 05 19 16-0770	LF	5 Conductors, #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	4.67	0.79
26 05 19 16-0771		#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord *(26 05 19 16-0766)*		
26 05 19 16-0772	LF	3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	4.02	0.79
26 05 19 16-0773	LF	4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	4.78	0.90
26 05 19 16-0774	LF	5 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	5.92	1.13
26 05 19 16-0775		#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord *(26 05 19 16-0766)*		
26 05 19 16-0776	LF	3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	5.28	0.79
26 05 19 16-0777	LF	4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	6.24	0.90
26 05 19 16-0778	LF	5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	7.96	1.13
26 05 19 16-0779		Cord Grips, Cable Reels, Extension Cords, And Accessories *(26 05 19 16-0591)*		
26 05 19 16-0780		Cord Grips *(26 05 19 16-0779)*		
26 05 19 16-0781	EA	Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel	72.23	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*20.51*	
26 05 19 16-0782	EA	Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel	72.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*20.51*	
26 05 19 16-0783		Cable Reels *(26 05 19 16-0779)*		
		Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0784	EA	30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A)	688.25	56.40
26 05 19 16-0785	EA	50', 10-4, SEOOW, Extension Cord Reel (Reelcraft L 7050 104 X 1)	1,924.65	56.40
26 05 19 16-0786	EA	50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K)	1,435.91	56.40
26 05 19 16-0787		Extension Cords For Cable Reel *(26 05 19 16-0779)*		
26 05 19 16-0788	EA	100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord	213.43	
26 05 19 16-0789	EA	100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord	305.82	
26 05 19 16-0790		Plugs And Connector Bodies *(26 05 19 16-0779)*		
		Note: Up to 277 volt		
26 05 19 16-0791		NEMA Twist-Lock Plugs *(26 05 19 16-0790)*		
26 05 19 16-0792	EA	15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C)	77.42	
26 05 19 16-0793	EA	15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK)	79.04	
26 05 19 16-0794	EA	20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C)	72.23	
26 05 19 16-0795	EA	20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331)	77.22	
26 05 19 16-0796	EA	20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411)	100.60	
26 05 19 16-0797	EA	20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441)	106.93	
26 05 19 16-0798	EA	20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK)	113.13	
26 05 19 16-0799	EA	30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK)	101.54	
26 05 19 16-0800	EA	30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK)	116.77	
26 05 19 16-0801	EA	30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761)	119.73	
26 05 19 16-0802	EA	30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK)	123.51	
26 05 19 16-0803		NEMA Twist-Lock Connector Bodies *(26 05 19 16-0790)*		
26 05 19 16-0804	EA	15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C)	82.00	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0805	EA	15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C)	87.73	
26 05 19 16-0806	EA	20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C)	75.67	
26 05 19 16-0807	EA	20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK)	101.54	
26 05 19 16-0808	EA	20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK)	118.25	
26 05 19 16-0809	EA	20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443)	126.34	
26 05 19 16-0810	EA	20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK)	153.55	
26 05 19 16-0811	EA	30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK)	146.68	
26 05 19 16-0812	EA	30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK)	180.77	
26 05 19 16-0813	EA	30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753)	189.80	
26 05 19 16-0814	EA	30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK)	179.97	

26 05 19 16-0815 Watertight Pin And Sleeve Plug *(26 05 19 16-0790)*

26 05 19 16-0816	EA	20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W)	285.75	33.84
26 05 19 16-0817	EA	20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W)	288.91	33.84
26 05 19 16-0818	EA	20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W)	313.47	33.84
26 05 19 16-0819	EA	20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W)	312.84	37.23
26 05 19 16-0820	EA	20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W)	308.07	37.23
26 05 19 16-0821	EA	20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W)	309.49	37.23
26 05 19 16-0822	EA	30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W)	439.33	41.62
26 05 19 16-0823	EA	30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W)	427.47	41.62
26 05 19 16-0824	EA	30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W)	478.43	41.62
26 05 19 16-0825	EA	30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W)	468.40	45.69
26 05 19 16-0826	EA	30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W)	447.80	45.69
26 05 19 16-0827	EA	30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W)	461.97	45.69
26 05 19 16-0828	EA	60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W)	597.76	54.15
26 05 19 16-0829	EA	60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W)	609.06	54.15
26 05 19 16-0830	EA	60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W)	582.27	54.15
26 05 19 16-0831	EA	60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W)	663.60	60.23
26 05 19 16-0832	EA	60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W)	646.01	60.23
26 05 19 16-0833	EA	60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W)	653.62	60.23
26 05 19 16-0834	EA	100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W)	822.60	67.68
26 05 19 16-0835	EA	100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W)	866.24	67.68
26 05 19 16-0836	EA	100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W)	841.63	74.45
26 05 19 16-0837	EA	100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W)	826.72	74.45
26 05 19 16-0838	EA	100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W)	834.77	74.45

26 05 19 16-0839 Watertight Pin And Sleeve Connector *(26 05 19 16-0790)*

26 05 19 16-0840	EA	20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W)	303.94	33.84
26 05 19 16-0841	EA	20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W)	306.13	33.84
26 05 19 16-0842	EA	20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W)	362.68	33.84
26 05 19 16-0843	EA	20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W)	358.67	37.23
26 05 19 16-0844	EA	20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W)	352.93	37.23
26 05 19 16-0845	EA	20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W)	358.12	37.23
26 05 19 16-0846	EA	30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W)	450.20	41.62
26 05 19 16-0847	EA	30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W)	450.08	41.62
26 05 19 16-0848	EA	30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W)	469.59	41.62
26 05 19 16-0849	EA	30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W)	463.11	45.69
26 05 19 16-0850	EA	30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W)	467.12	45.69
26 05 19 16-0851	EA	30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W)	462.88	45.69
26 05 19 16-0852	EA	60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W)	709.23	54.15
26 05 19 16-0853	EA	60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W)	685.34	54.15
26 05 19 16-0854	EA	60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W)	671.11	54.15
26 05 19 16-0855	EA	60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W)	729.95	60.23
26 05 19 16-0856	EA	60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W)	750.71	60.23
26 05 19 16-0857	EA	60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W)	752.23	60.23
26 05 19 16-0858	EA	100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W)	944.88	67.68
26 05 19 16-0859	EA	100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W)	972.27	67.68
26 05 19 16-0860	EA	100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)	1,050.17	74.45
26 05 19 16-0861	EA	100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W)	1,012.53	74.45
26 05 19 16-0862	EA	100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	1,025.37	74.45

26 05 19 16-0863 Accessories *(26 05 19 16-0779)*

26 05 19 16-0864	EA	1/2" Straight Steel Cord Connector	62.98	11.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.77*	
26 05 19 16-0865	EA	1/2" Straight Nylon Cord Connector	37.13	8.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.08*	
26 05 19 16-0866	EA	1/2" 90 Degree Steel Cord Connector	71.64	14.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	
26 05 19 16-0867	EA	1/2" 90 Degree Nylon Cord Connector	44.28	11.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.77*	
26 05 19 16-0868	EA	1/2" Straight Steel Cord Connector With Strain Relief Mesh	70.64	14.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	
26 05 19 16-0869	EA	1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh	125.07	16.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.15*	
26 05 19 16-0870	EA	1/2" Straight Nylon Cord Connector With Strain Relief Mesh	43.50	11.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.77*	
26 05 19 16-0871	EA	1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh	75.33	14.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0872	EA	3/4" Straight Steel Cord Connector	65.81	11.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.77*	
26 05 19 16-0873	EA	3/4" Straight Nylon Cord Connector	38.55	8.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.08*	
26 05 19 16-0874	EA	3/4" 90 Degree Steel Cord Connector	80.53	14.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	
26 05 19 16-0875	EA	3/4" 90 Degree Nylon Cord Connector	48.72	11.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.77*	
26 05 19 16-0876	EA	3/4" Straight Steel Cord Connector With Strain Relief Mesh	79.27	16.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.15*	
26 05 19 16-0877	EA	3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh	94.43	19.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.84*	
26 05 19 16-0878	EA	3/4" Straight Nylon Cord Connector With Strain Relief Mesh	52.15	14.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	
26 05 19 16-0879	EA	3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh	63.01	16.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.15*	
26 05 19 16-0880	EA	1" Straight Steel Cord Connector	84.07	11.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.77*	
26 05 19 16-0881	EA	1" Straight Nylon Cord Connector	47.68	8.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.08*	
26 05 19 16-0882	EA	1" 90 Degree Steel Cord Connector	92.59	14.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	
26 05 19 16-0883	EA	1" 90 Degree Nylon Cord Connector	54.75	11.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.77*	
26 05 19 16-0884	EA	1" Straight Steel Cord Connector With Strain Relief Mesh	98.44	16.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.15*	
26 05 19 16-0885	EA	1" 90 Degree Steel Cord Connector With Strain Relief Mesh	107.08	19.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.84*	
26 05 19 16-0886	EA	1" Straight Nylon Cord Connector With Strain Relief Mesh	61.87	14.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	
26 05 19 16-0887	EA	1" 90 Degree Nylon Cord Connector With Strain Relief Mesh	71.24	16.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.15*	

26 05 19 16-0888 Luminary Cable *(26 05 19 16)*

26 05 19 16-0889	MLF	16-2 (1TPJ), 12-2 MC Tuff Luminary Cable™	4,141.54	890.36
26 05 19 16-0890	MLF	16-2 (1TPJ), 12-3 MC Tuff Luminary Cable™	4,689.90	989.29
26 05 19 16-0891	MLF	16-2 (1TPJ), 10-2 MC Tuff Luminary Cable™	5,154.45	989.29
26 05 19 16-0892	MLF	16-2 (1TPJ), 12-2 MC Lite Luminary Cable™	4,652.04	890.36
26 05 19 16-0893	MLF	16-2 (1TPJ), 12-3 MC Lite Luminary Cable™	5,165.37	989.29
26 05 19 16-0894	MLF	16-2 (1TPJ), 10-2 MC Lite Luminary Cable™	5,136.01	989.29
26 05 19 16-0895	MLF	16-2 (1TPJ), 12-2 MC Lite Luminary Stranded Cable™	4,355.59	890.36
26 05 19 16-0896	MLF	16-2 (1TPJ), 12-3 MC Lite Luminary Stranded Cable™	5,157.33	989.29

26 05 19 16-0897 Traction Power Cables *(26 05 19 16)*

26 05 19 16-0898 Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper, Multi Conductor Cable *(26 05 19 16-0897)*

Note: Flame retardant, low smoke, sunlight resistant jacket.

26 05 19 16-0899	MLF	2 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	3,544.61	494.54
26 05 19 16-0900	MLF	3 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	4,589.99	577.19
26 05 19 16-0901	MLF	4 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	5,738.52	700.74
26 05 19 16-0902	MLF	5 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	6,941.26	762.27
26 05 19 16-0903	MLF	7 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	8,303.82	803.69
26 05 19 16-0904	MLF	9 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	10,607.74	886.03
26 05 19 16-0905	MLF	12 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	13,435.34	1,009.90
26 05 19 16-0906	MLF	19 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	19,328.94	1,185.29
26 05 19 16-0907	MLF	25 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	26,480.96	1,360.37
26 05 19 16-0908	MLF	37 Conductors, #14 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	37,361.60	2,019.80
26 05 19 16-0909	MLF	2 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	4,800.05	577.19
26 05 19 16-0910	MLF	3 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	5,948.34	700.74
26 05 19 16-0911	MLF	4 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	7,516.29	824.41
26 05 19 16-0912	MLF	5 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	8,956.06	897.57
26 05 19 16-0913	MLF	7 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	11,176.25	946.01
26 05 19 16-0914	MLF	9 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	15,195.66	1,042.67
26 05 19 16-0915	MLF	12 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	18,496.89	1,188.18
26 05 19 16-0916	MLF	19 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	26,985.64	1,394.39
26 05 19 16-0917	MLF	25 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	37,572.06	1,600.49
26 05 19 16-0918	MLF	37 Conductors, #12 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	52,100.68	2,376.25
26 05 19 16-0919	MLF	2 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	6,470.12	741.65
26 05 19 16-0920	MLF	3 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	8,559.72	906.02
26 05 19 16-0921	MLF	4 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	10,622.94	1,059.98
26 05 19 16-0922	MLF	5 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	13,373.35	1,152.94
26 05 19 16-0923	MLF	7 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	16,467.64	1,215.70
26 05 19 16-0924	MLF	9 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	21,815.32	1,340.49
26 05 19 16-0925	MLF	12 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	26,479.33	1,527.63
26 05 19 16-0926	MLF	19 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	40,570.71	1,792.78
26 05 19 16-0927	MLF	25 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	56,339.82	2,057.73
26 05 19 16-0928	MLF	37 Conductors, #10 AWG, 600 Volt, Cross-Linked Polyolefin (XLPO) Insulation, Stranded Copper Cable	75,619.01	3,055.16

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CSI		MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0929			XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper, Multi Conductor Cable *(26 05 19 16-0897)*		
			Note: Insulated with heat and moisture resistant cross-linked polyethylene.		
26 05 19 16-0930		MLF	3 Conductors, #14 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	3,963.48	577.19
26 05 19 16-0931		MLF	4 Conductors, #14 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	4,791.72	700.74
26 05 19 16-0932		MLF	3 Conductors, #12 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	5,187.13	700.74
26 05 19 16-0933		MLF	4 Copnductors, #12 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	6,237.59	824.41
26 05 19 16-0934		MLF	3 Conductors, #10 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	7,109.00	906.02
26 05 19 16-0935		MLF	4 Conductors, #10 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	9,237.25	1,154.38
26 05 19 16-0936		MLF	3 Conductors, #8 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	10,060.24	989.29
26 05 19 16-0937		MLF	4 Conductors, #8 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	12,781.26	1,257.22
26 05 19 16-0938		MLF	3 Conductors, #6 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	14,280.37	1,174.79
26 05 19 16-0939		MLF	4 Conductors, #6 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	18,895.09	1,448.89
26 05 19 16-0940		MLF	3 Conductors, #4 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	19,519.03	1,315.65
26 05 19 16-0941		MLF	4 Conductors, #4 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	25,110.74	1,641.81
26 05 19 16-0942		MLF	3 Conductors, #3 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	23,694.90	1,441.27
26 05 19 16-0943		MLF	4 Conductors, #3 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	29,873.33	1,688.39
26 05 19 16-0944		MLF	3 Conductors, #2 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	28,185.44	1,566.79
26 05 19 16-0945		MLF	4 Conductors, #2 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	36,143.07	2,061.02
26 05 19 16-0946		MLF	3 Conductors, #1 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	35,021.73	1,978.27
26 05 19 16-0947		MLF	4 Conductors, #1 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	43,571.71	2,472.20
26 05 19 16-0948		MLF	3 Conductors, 1/0 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	41,490.48	2,143.87
26 05 19 16-0949		MLF	4 Conductors, 1/0 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	51,820.68	2,634.71
26 05 19 16-0950		MLF	3 Conductors, 2/0 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	49,873.61	2,472.20
26 05 19 16-0951		MLF	4 Conductors, 2/0 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	62,587.18	3,040.01
26 05 19 16-0952		MLF	3 Conductors, 3/0 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	61,406.83	2,884.19
26 05 19 16-0953		MLF	4 Conductors, 3/0 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	77,174.17	3,546.71
26 05 19 16-0954		MLF	3 Conductors, 4/0 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	74,186.35	3,300.42
26 05 19 16-0955		MLF	4 Conductors, 4/0 AWG, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	98,270.06	4,057.12
26 05 19 16-0956		MLF	3 Conductors, 250 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	91,060.86	3,708.29
26 05 19 16-0957		MLF	4 Conductors, 250 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	114,207.51	4,560.00
26 05 19 16-0958		MLF	3 Conductors, 300 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	102,885.03	3,915.94
26 05 19 16-0959		MLF	4 Conductors, 300 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	131,692.14	4,802.17
26 05 19 16-0960		MLF	3 Conductors, 350 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	117,956.42	4,122.04
26 05 19 16-0961		MLF	4 Conductors, 350 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	151,506.60	5,066.71
26 05 19 16-0962		MLF	3 Conductors, 400 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	131,767.46	4,328.14
26 05 19 16-0963		MLF	4 Conductors, 400 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	169,591.06	5,317.43
26 05 19 16-0964		MLF	3 Conductors, 500 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	159,680.08	4,530.33
26 05 19 16-0965		MLF	4 Conductors, 500 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	205,930.45	5,573.00
26 05 19 16-0966		MLF	3 Conductors, 600 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	187,612.16	4,740.35
26 05 19 16-0967		MLF	4 Conductors, 600 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	246,291.91	5,812.08
26 05 19 16-0968		MLF	3 Conductors, 750 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	234,440.24	4,946.45
26 05 19 16-0969		MLF	4 Conductors, 750 MCM, 600 Volt, XHHW-2/Cross-Linked Polyethylene (XLP) Insulation, Stranded Copper Cable	302,787.09	6,069.70
26 05 19 16-0970			Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armor, Stranded Copper, Multi Conductor Cable *(26 05 19 16-0897)*		
26 05 19 16-0971		MLF	3 Conductors, #8 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	14,651.14	989.29
26 05 19 16-0972		MLF	4 Conductors, #8 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	18,014.16	1,257.22
26 05 19 16-0973		MLF	3 Conductors, #6 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	19,183.90	1,174.79
26 05 19 16-0974		MLF	4 Conductors, #6 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	23,704.07	1,448.89
26 05 19 16-0975		MLF	3 Conductors, #4 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	24,951.80	1,315.65
26 05 19 16-0976		MLF	4 Conductors, #4 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	31,094.89	1,641.81
26 05 19 16-0977		MLF	3 Conductors, #3 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	29,539.55	1,441.27
26 05 19 16-0978		MLF	4 Conductors, #3 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	36,656.27	1,688.39
26 05 19 16-0979		MLF	3 Conductors, #2 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	34,800.84	1,566.79
26 05 19 16-0980		MLF	4 Conductors, #2 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	44,145.27	2,061.02
26 05 19 16-0981		MLF	3 Conductors, #1 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	42,796.64	1,978.27
26 05 19 16-0982		MLF	4 Conductors, #1 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	53,808.91	2,472.20
26 05 19 16-0983		MLF	3 Conductors, 1/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	51,114.54	2,143.87
26 05 19 16-0984		MLF	4 Conductors, 1/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	63,357.20	2,634.71
26 05 19 16-0985		MLF	3 Conductors, 2/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	60,834.63	2,472.20
26 05 19 16-0986		MLF	4 Conductors, 2/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	76,978.97	3,040.01

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0987	MLF	3 Conductors, 3/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	75,330.63	2,884.19
26 05 19 16-0988	MLF	4 Conductors, 3/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	94,082.59	3,546.71
26 05 19 16-0989	MLF	3 Conductors, 4/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	106,991.76	3,300.42
26 05 19 16-0990	MLF	4 Conductors, 4/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	113,186.11	4,057.12
26 05 19 16-0991	MLF	3 Conductors, 250 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	108,011.20	3,708.29
26 05 19 16-0992	MLF	4 Conductors, 250 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	137,482.33	4,560.00
26 05 19 16-0993	MLF	3 Conductors, 350 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	142,154.37	4,122.04
26 05 19 16-0994	MLF	4 Conductors, 350 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	186,846.20	5,066.71
26 05 19 16-0995	MLF	3 Conductors, 500 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	193,731.01	4,530.33
26 05 19 16-0996	MLF	4 Conductors, 500 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	248,649.94	5,573.00
26 05 19 16-0997	MLF	3 Conductors, 600 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	227,013.39	4,740.35
26 05 19 16-0998	MLF	4 Conductors, 600 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	292,133.77	5,812.08
26 05 19 16-0999	MLF	3 Conductors, 750 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	278,465.08	4,946.45
26 05 19 16-1000	MLF	4 Conductors, 750 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Aluminum Metallic Armored, Stranded Copper Cable	360,608.77	6,069.70

26 05 19 16-1001 Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armor, Stranded Copper, Multi Conductor Cable *(26 05 19 16-0897)*

26 05 19 16-1002	MLF	3 Conductors, #8 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	17,197.96	989.29
26 05 19 16-1003	MLF	4 Conductors, #8 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	20,824.44	1,257.22
26 05 19 16-1004	MLF	3 Conductors, #6 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	22,404.04	1,174.79
26 05 19 16-1005	MLF	4 Conductors, #6 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	27,304.74	1,448.89
26 05 19 16-1006	MLF	3 Conductors, #4 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	28,523.18	1,315.65
26 05 19 16-1007	MLF	4 Conductors, #4 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	35,105.39	1,641.81
26 05 19 16-1008	MLF	3 Conductors, #3 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	33,432.97	1,441.27
26 05 19 16-1009	MLF	4 Conductors, #3 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	40,871.68	1,688.39
26 05 19 16-1010	MLF	3 Conductors, #2 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	38,782.05	1,566.79
26 05 19 16-1011	MLF	4 Conductors, #2 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	48,887.63	2,061.02
26 05 19 16-1012	MLF	3 Conductors, #1 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	47,539.00	1,978.27
26 05 19 16-1013	MLF	4 Conductors, #1 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	61,215.17	2,472.20
26 05 19 16-1014	MLF	3 Conductors, 1/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	58,696.46	2,143.87
26 05 19 16-1015	MLF	4 Conductors, 1/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	71,612.40	2,634.71
26 05 19 16-1016	MLF	3 Conductors, 2/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	69,089.84	2,472.20
26 05 19 16-1017	MLF	4 Conductors, 2/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	85,409.79	3,040.01
26 05 19 16-1018	MLF	3 Conductors, 3/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	84,112.78	2,884.19
26 05 19 16-1019	MLF	4 Conductors, 3/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	103,655.10	3,546.71
26 05 19 16-1020	MLF	3 Conductors, 4/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	99,673.29	3,300.42
26 05 19 16-1021	MLF	4 Conductors, 4/0 AWG, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	126,652.04	4,057.12
26 05 19 16-1022	MLF	3 Conductors, 250 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	118,813.22	3,708.29
26 05 19 16-1023	MLF	4 Conductors, 250 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	149,513.87	4,560.00
26 05 19 16-1024	MLF	3 Conductors, 350 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	154,273.70	4,122.04
26 05 19 16-1025	MLF	4 Conductors, 350 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	197,706.80	5,066.71
26 05 19 16-1026	MLF	3 Conductors, 500 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	208,045.92	4,530.33
26 05 19 16-1027	MLF	4 Conductors, 500 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	264,604.15	5,573.00

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-1028		MLF	3 Conductors, 600 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	242,645.60	4,740.35
26 05 19 16-1029		MLF	4 Conductors, 600 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	309,961.52	5,812.08
26 05 19 16-1030		MLF	3 Conductors, 750 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	296,292.86	4,946.45
26 05 19 16-1031		MLF	4 Conductors, 750 MCM, 600 Volt, Low Smoke Zero Halogen (LSZH) Insulation, Galvanized Metallic Armored, Stranded Copper Cable	380,075.87	6,069.70
26 05 19 16-1032	Miscellaneous Cables *(26 05 19 16-0897)*				
26 05 19 16-1033		MLF	50 Pair #19 AWG, 7W TC LS Jacket Bronze Tape LS Jacket	70,454.27	2,783.41
26 05 19 16-1034		MLF	50 Pair #19 AWG, 7X Tinned Copper 025 Okolene PE, Twisted	42,796.74	2,783.41
26 05 19 16-1035		LF	24 Fiber Hybrid LSZH Armored Cable	11.76	2.26
			For Installation In Tunnel (Includes Clamps And Supports), Add	*10.09*	
26 05 19 16-1036		LF	96 Fiber Single Mode Corning SMF-28e, LSZH Armored Cable	15.22	2.71
			For Installation In Tunnel (Includes Clamps And Supports), Add	*12.94*	
26 05 19 16-1037		MLF	9 Conductors, #10 AWG, 600 Volt, 7X Copper, 030 X-Olene Cross-Linked Polyethylene (XLP) Insulation, 1-UL (E-2) Cabled Tape	14,253.55	1,896.24
26 05 19 16-1038		MLF	127W TC Ethylene-Propylene Rubber (EPR) Insulation/XLPO Copper Tape, Class D	112,287.94	2,376.25
26 05 19 16-1039		MLF	427W TC Ethylene-Propylene Rubber (EPR) Insulation/XLPO Copper Tape, Class G	113,663.59	2,376.25
26 05 19 16-1040		MLF	127W Ethylene-Propylene Rubber (EPR) Insulation, XLPO DTD, Class D	106,162.82	2,376.25
26 05 19 16-1041		MLF	427W Ethylene-Propylene Rubber (EPR) Insulation, XLPO DTD, Class D	1,118,190.00	2,376.25
26 05 19 16-1042		MLF	7 Conductors, #10 AWG, 600 Volt, ETS Cable In Aluminum Interlock Armor, Type MC Cable With Low Smoke Jacket	16,713.07	1,215.70
26 05 19 16-1043		MLF	7 Conductors, #10 AWG, 600 Volt, 7X Copper - 030 Okoguard Ethylene-Propylene Rubber (EPR) Insulation, Okolon Meth 3-UL CC Cable Fill, Tape, Aluminum CLX 050 OKO-Clear TS 600 Volt	27,143.22	1,215.70
26 05 19 16-1044		MLF	7 Conductors, #10 AWG, 600 Volt, 7X Copper - 015 Okoguard Ethylene-Propylene Rubber (EPR) Insulation, Okolon Meth 3-UL CC Cable Fill, Tape, Aluminum CLX 050 OKO-Clear TS 600 Volt	25,208.69	1,215.70
26 05 19 16-1045		MLF	3 Conductors, #4 AWG, 600 Volt, Class B Copper C-RD 045 X-Olene FMR XLP-Method And X-Copper Ground Wires Fill Tape, Aluminum CLS-050 OKO-Clear TS 600 Volt	25,528.51	1,315.65
26 05 19 16-1046		MLF	3 Conductors, 350 MCM, 600 Volt, Class B Copper C-RD 065 X-Olene FMR XLP-Method, 3-UL CC Cabled With 3 #8 Fill Tape, Aluminum CLS-075 OKO-Clear TS 600 Volt	106,351.84	4,122.04

26 05 23 Control-Voltage Electrical Power Cables *(26 05)*

26 05 23 00-0001 Cable For HVAC System Controls *(26 05 23)*

26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt *(26 05 23 00-0001)*

Note: For surface or conduit installation.

26 05 23 00-0003		MLF	#20/2 Conductor, Low Volt Thermostat Cable	432.79	131.39
26 05 23 00-0004		MLF	#20/3 Conductor, Low Volt Thermostat Cable	490.71	138.40
26 05 23 00-0005		MLF	#20/4 Conductor, Low Volt Thermostat Cable	530.77	146.33
26 05 23 00-0006		MLF	#20/5 Conductor, Low Volt Thermostat Cable	628.98	152.52
26 05 23 00-0007		MLF	#20/6 Conductor, Low Volt Thermostat Cable	658.69	159.73
26 05 23 00-0008		MLF	#20/7 Conductor, Low Volt Thermostat Cable	722.68	166.37
26 05 23 00-0009		MLF	#20/8 Conductor, Low Volt Thermostat Cable	778.58	173.02
26 05 23 00-0010		MLF	#20/9 Conductor, Low Volt Thermostat Cable	843.00	179.93
26 05 23 00-0011		MLF	#20/10 Conductor, Low Volt Thermostat Cable	904.52	185.33
26 05 23 00-0012		MLF	#18/2 Conductor, Low Volt Thermostat Cable	466.71	131.39
26 05 23 00-0013		MLF	#18/3 Conductor, Low Volt Thermostat Cable	551.24	138.40
26 05 23 00-0014		MLF	#18/4 Conductor, Low Volt Thermostat Cable	626.79	146.33
26 05 23 00-0015		MLF	#18/5 Conductor, Low Volt Thermostat Cable	668.62	152.52
26 05 23 00-0016		MLF	#18/6 Conductor, Low Volt Thermostat Cable	738.31	159.73
26 05 23 00-0017		MLF	#18/7 Conductor, Low Volt Thermostat Cable	759.24	166.37
26 05 23 00-0018		MLF	#18/8 Conductor, Low Volt Thermostat Cable	834.37	173.02
26 05 23 00-0019		MLF	#18/9 Conductor, Low Volt Thermostat Cable	976.87	179.93
26 05 23 00-0020		MLF	#18/10 Conductor, Low Volt Thermostat Cable	1,069.64	185.33

26 05 26 Grounding and Bonding for Electrical Systems *(26 05)*

26 05 26 00-0001 Conductors, Straps And Conduit Jumpers *(26 05 26)*

26 05 26 00-0002 Single Conductor *(26 05 26 00-0001)*

26 05 26 00-0003 Copper Bare Stranded Conductors *(26 05 26 00-0002)*

26 05 26 00-0004		MLF	12 AWG Copper Bare Single Stranded Conductor	678.07	220.78
26 05 26 00-0005		MLF	10 AWG Copper Bare Single Stranded Conductor	934.16	220.78
26 05 26 00-0006		MLF	8 AWG Copper Bare Single Stranded Conductor	1,191.13	265.96
26 05 26 00-0007		MLF	6 AWG Copper Bare Single Stranded Conductor	1,714.40	265.96
26 05 26 00-0008		MLF	4 AWG Copper Bare Single Stranded Conductor	2,368.33	321.14
26 05 26 00-0009		MLF	2 AWG Copper Bare Single Stranded Conductor	3,843.40	321.14
26 05 26 00-0010		MLF	1 AWG Copper Bare Single Stranded Conductor	4,479.21	386.38
26 05 26 00-0011		MLF	1/0 AWG Copper Bare Single Stranded Conductor	5,264.78	386.38
26 05 26 00-0012		MLF	2/0 AWG Copper Bare Single Stranded Conductor	7,485.41	486.74
26 05 26 00-0013		MLF	3/0 AWG Copper Bare Single Stranded Conductor	9,282.10	486.74
26 05 26 00-0014		MLF	4/0 AWG Copper Bare Single Stranded Conductor	9,778.23	647.32
26 05 26 00-0015		MLF	250 MCM Copper Bare Single Stranded Conductor	12,674.54	647.32
26 05 26 00-0016		MLF	300 MCM Copper Bare Single Stranded Conductor	12,668.66	747.68
26 05 26 00-0017		MLF	350 MCM Copper Bare Single Stranded Conductor	17,260.56	747.68
26 05 26 00-0018		MLF	500 MCM Copper Bare Single Stranded Conductor	23,682.94	923.30

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0019		**Copper Insulated Single Stranded Conductors** *(26 05 26 00-0002)*		
26 05 26 00-0020	MLF	12 AWG Copper Insulated Single Stranded Conductor	1,403.72	301.08
26 05 26 00-0021	MLF	10 AWG Copper Insulated Single Stranded Conductor	1,457.10	301.08
26 05 26 00-0022	MLF	8 AWG Copper Insulated Single Stranded Conductor	1,904.19	301.08
26 05 26 00-0023	MLF	6 AWG Copper Insulated Single Stranded Conductor	2,125.01	521.86
26 05 26 00-0024	MLF	4 AWG Copper Insulated Single Stranded Conductor	2,944.44	521.86
26 05 26 00-0025	MLF	2 AWG Copper Insulated Single Stranded Conductor	4,251.90	521.86
26 05 26 00-0026	MLF	1 AWG Copper Insulated Single Stranded Conductor	5,188.95	913.26
26 05 26 00-0027	MLF	1/0 AWG Copper Insulated Single Stranded Conductor	6,380.41	913.26
26 05 26 00-0028	MLF	2/0 AWG Copper Insulated Single Stranded Conductor	7,555.21	913.26
26 05 26 00-0029	MLF	3/0 AWG Copper Insulated Single Stranded Conductor	9,092.85	913.26
26 05 26 00-0030	MLF	4/0 AWG Copper Insulated Single Stranded Conductor	10,805.08	1,194.26
26 05 26 00-0031	MLF	250 MCM Copper Insulated Single Stranded Conductor	13,186.16	1,194.26
26 05 26 00-0032	MLF	300 MCM Copper Insulated Single Stranded Conductor	15,444.76	1,194.26
26 05 26 00-0033	MLF	350 MCM Copper Insulated Single Stranded Conductor	17,885.04	1,856.64
26 05 26 00-0034	MLF	500 MCM Copper Insulated Single Stranded Conductor	23,596.31	1,856.64
26 05 26 00-0035		**Copper Bare Single Solid Conductors** *(26 05 26 00-0002)*		
26 05 26 00-0036	MLF	12 AWG Copper Bare Single Solid Conductor	678.07	220.78
26 05 26 00-0037	MLF	10 AWG Copper Bare Single Solid Conductor	934.16	220.78
26 05 26 00-0038	MLF	8 AWG Copper Bare Single Solid Conductor	1,191.13	265.96
26 05 26 00-0039	MLF	6 AWG Copper Bare Single Solid Conductor	1,714.40	265.96
26 05 26 00-0040	MLF	4 AWG Copper Bare Single Solid Conductor	2,368.33	321.14
26 05 26 00-0041	MLF	2 AWG Copper Bare Single Solid Conductor	3,843.40	321.14
26 05 26 00-0042	MLF	1/0 AWG Copper Bare Single Solid Conductor	5,264.78	386.38
26 05 26 00-0043	MLF	2/0 AWG Copper Bare Single Solid Conductor	6,733.73	486.74
26 05 26 00-0044	MLF	3/0 AWG Copper Bare Single Solid Conductor	8,202.41	486.74
26 05 26 00-0045	MLF	4/0 AWG Copper Bare Single Solid Conductor	9,778.23	511.82
26 05 26 00-0046		**Aluminum Bare Single Stranded Conductors** *(26 05 26 00-0002)*		
26 05 26 00-0047	MLF	8 AWG Aluminum Bare Single Stranded Conductor	830.33	265.96
26 05 26 00-0048	MLF	6 AWG Aluminum Bare Single Stranded Conductor	932.93	265.96
26 05 26 00-0049	MLF	4 AWG Aluminum Bare Single Stranded Conductor	1,093.43	321.14
26 05 26 00-0050	MLF	2 AWG Aluminum Bare Single Stranded Conductor	1,428.47	321.14
26 05 26 00-0051	MLF	1 AWG Aluminum Bare Single Stranded Conductor	1,713.21	386.38
26 05 26 00-0052	MLF	1/0 AWG Aluminum Bare Single Stranded Conductor	1,963.38	386.38
26 05 26 00-0053	MLF	2/0 AWG Aluminum Bare Single Stranded Conductor	2,259.09	486.74
26 05 26 00-0054	MLF	3/0 AWG Aluminum Bare Single Stranded Conductor	2,637.57	486.74
26 05 26 00-0055	MLF	4/0 AWG Aluminum Bare Single Stranded Conductor	3,124.17	647.32
26 05 26 00-0056	MLF	250 MCM Aluminum Bare Single Stranded Conductor	3,551.07	647.32
26 05 26 00-0057	MLF	300 MCM Aluminum Bare Single Stranded Conductor	4,373.94	747.68
26 05 26 00-0058	MLF	350 MCM Aluminum Bare Single Stranded Conductor	5,062.68	747.68
26 05 26 00-0059	MLF	500 MCM Aluminum Bare Single Stranded Conductor	5,923.67	923.30
26 05 26 00-0060		**Aluminum Bare Single Solid Conductors** *(26 05 26 00-0002)*		
26 05 26 00-0061	MLF	8 AWG Aluminum Bare Single Solid Conductor	830.33	265.96
26 05 26 00-0062	MLF	6 AWG Aluminum Bare Single Solid Conductor	932.93	265.96
26 05 26 00-0063	MLF	4 AWG Aluminum Bare Single Solid Conductor	1,093.43	321.14
26 05 26 00-0064	MLF	2 AWG Aluminum Bare Single Solid Conductor	1,428.47	321.14
26 05 26 00-0065	MLF	1 AWG Aluminum Bare Single Solid Conductor	1,672.70	511.82
26 05 26 00-0066	MLF	1/0 AWG Aluminum Bare Single Solid Conductor	1,963.38	511.82
26 05 26 00-0067	MLF	2/0 AWG Aluminum Bare Single Solid Conductor	2,158.76	486.74
26 05 26 00-0068	MLF	3/0 AWG Aluminum Bare Single Solid Conductor	2,435.55	486.74
26 05 26 00-0069	MLF	4/0 AWG Aluminum Bare Single Solid Conductor	3,124.17	647.32
26 05 26 00-0070	MLF	250 MCM Aluminum Bare Single Solid Conductor	3,551.07	647.32
26 05 26 00-0071	MLF	300 MCM Aluminum Bare Single Solid Conductor	4,373.94	747.68
26 05 26 00-0072	MLF	350 MCM Aluminum Bare Single Solid Conductor	5,062.68	747.68
26 05 26 00-0073	MLF	500 MCM Aluminum Bare Single Solid Conductor	5,923.67	923.30
26 05 26 00-0074		**Aluminum Smooth Woven Conductors** *(26 05 26 00-0002)*		
26 05 26 00-0075	LF	10 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.82	0.78
26 05 26 00-0076	LF	16 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.11	0.86
26 05 26 00-0077	LF	24 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.71	0.98
26 05 26 00-0078	LF	26 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.73	1.00
26 05 26 00-0079	LF	28 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.92	1.05
26 05 26 00-0080		**Copper Flexible Braid Connector Jumper Strap** *(26 05 26 00-0001)*		
		Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0081	EA	100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	159.21	28.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*16.92*	
26 05 26 00-0082	EA	225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	286.15	33.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*20.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0083	EA	225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length	373.62	33.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*20.30*	
26 05 26 00-0084	EA	225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length	459.89	33.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*20.30*	
26 05 26 00-0085	EA	400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	387.75	36.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*25.38*	
26 05 26 00-0086	EA	400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length	513.59	36.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*25.38*	
26 05 26 00-0087	EA	400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length	622.92	36.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*25.38*	
26 05 26 00-0088	EA	600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	511.31	46.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*27.92*	
26 05 26 00-0089	EA	800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	614.55	56.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*33.84*	

26 05 26 00-0090 Bonding Jumper For Metallic Conduit *(26 05 26 00-0001)*

26 05 26 00-0091	EA	1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit	195.96	62.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*35.25*	
26 05 26 00-0092	EA	1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit	241.47	62.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*43.38*	
26 05 26 00-0093	EA	2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit	369.84	95.88
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*51.27*	
26 05 26 00-0094	EA	5" To 6" Conductor, Bonding Jumper, Metallic Conduit	563.86	95.88
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*62.67*	

26 05 26 00-0095 Ground Rods *(26 05 26)*

26 05 26 00-0096 Copper-Clad Ground Rods *(26 05 26 00-0095)*

26 05 26 00-0097	EA	1/2" Diameter x 8' Long Copper-Clad Ground Rods	96.92	84.60
26 05 26 00-0098	EA	5/8" Diameter x 8' Long Copper-Clad Ground Rods	101.14	84.60
26 05 26 00-0099	EA	3/4" Diameter x 8' Long Copper-Clad Ground Rods	118.15	84.60
26 05 26 00-0100	EA	1/2" Diameter x 10' Long Copper-Clad Ground Rods	114.11	84.60
26 05 26 00-0101	EA	5/8" Diameter x 10' Long Copper-Clad Ground Rods	119.38	84.60
26 05 26 00-0102	EA	3/4" Diameter x 10' Long Copper-Clad Ground Rods	140.65	84.60

26 05 26 00-0103 Copper Grounding Shaft *(26 05 26 00-0095)*

26 05 26 00-0104	EA	2-1/8" Diameter x 10' Long Copper Grounding Shaft	326.87	84.60
26 05 26 00-0105	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft	406.89	84.60
26 05 26 00-0106	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft	632.23	84.60

26 05 26 00-0107 Ground Access Wells *(26 05 26 00-0095)*

26 05 26 00-0108 Precast Ground Access Wells *(26 05 26 00-0107)*

26 05 26 00-0109	EA	8" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	307.10	
26 05 26 00-0110	EA	10" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	318.58	
26 05 26 00-0111	EA	12" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	919.70	
26 05 26 00-0112	EA	18" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	931.18	

26 05 26 00-0113 Polyvinyl Chloride (PVC) Ground Access Well *(26 05 26 00-0107)*

26 05 26 00-0114	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	599.60	
26 05 26 00-0115	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	729.85	
26 05 26 00-0116	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	1,602.58	
26 05 26 00-0117	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	455.23	
26 05 26 00-0118	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	550.30	
26 05 26 00-0119	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	1,433.94	
26 05 26 00-0120	EA	8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	262.65	
26 05 26 00-0121	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	360.60	
26 05 26 00-0122	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	428.98	
26 05 26 00-0123	EA	8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	214.13	
26 05 26 00-0124	EA	10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	332.69	
26 05 26 00-0125	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	497.04	
26 05 26 00-0126	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	684.74	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0127	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	476.41	
26 05 26 00-0128	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	512.47	
26 05 26 00-0129	EA	10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	915.02	
26 05 26 00-0130	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	1,155.46	
26 05 26 00-0131	EA	12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	509.82	
26 05 26 00-0132	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	694.67	
26 05 26 00-0133	EA	12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	686.62	
26 05 26 00-0134		**Polymer Concrete Ground Access Well** *(26 05 26 00-0107)*		
26 05 26 00-0135	EA	12" x 12" x 12" Polymer Concrete Ground Access Well	580.54	
26 05 26 00-0136	EA	12" x 12" x 12" Heavy-Duty Polymer Concrete Ground Access Well	636.75	
26 05 26 00-0137	EA	12" x 12" x 18" Polymer Concrete Ground Access Well	639.63	
26 05 26 00-0138	EA	12" x 12" x 18" Heavy-Duty Polymer Concrete Ground Access Well	701.46	
26 05 26 00-0139	EA	12" x 12" x 24" Polymer Concrete Ground Access Well	700.96	
26 05 26 00-0140	EA	12" x 12" x 24" Heavy-Duty Polymer Concrete Ground Access Well	768.97	
26 05 26 00-0141	EA	13" x 24" x 18" Polymer Concrete Ground Access Well	934.79	
26 05 26 00-0142	EA	13" x 24" x 18" Heavy-Duty Polymer Concrete Ground Access Well	1,027.49	
26 05 26 00-0143		**High-Density Polyethylene (HDPE) Ground Access Well** *(26 05 26 00-0107)*		
26 05 26 00-0144	EA	9" Diameter x 10" Deep High-Density Polyethylene (HDPE) Ground Access Well Note: With cover.	212.25	
26 05 26 00-0145	EA	14" Diameter x 18" Deep High-Density Polyethylene (HDPE) Ground Access Well Note: With cover.	295.65	
26 05 26 00-0146		**Clay Tile Ground Access Wells** *(26 05 26 00-0107)*		
26 05 26 00-0147	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover	335.29	
26 05 26 00-0148	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover	352.47	
26 05 26 00-0149	EA	Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well	106.67	
26 05 26 00-0150		**Ground Rod Clamps And Fittings** *(26 05 26)*		
26 05 26 00-0151		**Bronze Ground Rod Clamp** *(26 05 26 00-0150)*		
26 05 26 00-0152	EA	1/2" Bronze Ground Rod Clamp	22.89	12.75
26 05 26 00-0153	EA	5/8" Bronze Ground Rod Clamp	23.95	12.75
26 05 26 00-0154	EA	3/4" Bronze Ground Rod Clamp	25.46	12.75
26 05 26 00-0155		**Bronze Pipe Clamps** *(26 05 26 00-0150)*		
26 05 26 00-0156	EA	1/2" To 1" Diameter, Bronze Pipe Ground Clamps	29.37	21.21
26 05 26 00-0157	EA	1-1/4" To 2" Diameter, Bronze Ground Clamps For Pipe	36.43	25.38
26 05 26 00-0158	EA	2-1/2" To 3" Diameter, Bronze Ground Clamps For Pipe	49.22	29.67
26 05 26 00-0159	EA	2-1/2" To 4" Diameter, Bronze Ground Clamps For Pipe	61.34	38.13
26 05 26 00-0160	EA	4" To 6" Diameter, Bronze Ground Clamps For Pipe	91.88	55.05
26 05 26 00-0161		**Grounding Fittings** *(26 05 26 00-0150)*		
26 05 26 00-0162		**Embedded Fittings** *(26 05 26 00-0161)*		
26 05 26 00-0163	EA	Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	154.14	
26 05 26 00-0164	EA	Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	163.77	
26 05 26 00-0165	EA	Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded	180.86	
26 05 26 00-0166	EA	#8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice	149.37	
26 05 26 00-0167	EA	1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice	178.96	
26 05 26 00-0168	EA	4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice	209.96	
26 05 26 00-0169	EA	350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice	236.70	
26 05 26 00-0170		**Ground Rod Receptacle** *(26 05 26 00-0161)*		
26 05 26 00-0171	EA	1/2" Ground Rod Receptacle	332.78	117.31
26 05 26 00-0172	EA	5/8" Ground Rod Receptacle	347.90	120.62
26 05 26 00-0173	EA	3/4" Ground Rod Receptacle	363.35	123.90
26 05 26 00-0174		**Ground Kits For Circuit Breaker Panels** *(26 05 26 00-0161)*		
26 05 26 00-0175	EA	14-8 AWG Copper Ground Kit	74.54	28.20
26 05 26 00-0176	EA	12-8 AWG Aluminum Ground Kit	65.24	28.20
26 05 26 00-0177	EA	14-4 AWG Copper Ground Kit	82.64	28.20
26 05 26 00-0178	EA	12-4 AWG Aluminum Ground Kit	71.43	28.20

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0179		**Insulated Grounding Bars** *(26 05 26 00-0150)*		
26 05 26 00-0180	EA	1/2" x 4" x 10" Insulated Ground Bar	311.66	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*50.76*	
26 05 26 00-0181	EA	Insulated Ground Bar SK 9560 1/2" x 4" x 20"	327.30	28.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*50.76*	
26 05 26 00-0182		**Ground Conductor Bonding** *(26 05 26)*		
26 05 26 00-0183		**Ground Conductor Bonding** *(26 05 26 00-0182)*		
26 05 26 00-0184		**Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld** *(26 05 26 00-0183)*		
26 05 26 00-0185	EA	Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel Note: Includes molds, materials and all necessary tools to make connections.	133.79	
26 05 26 00-0186	EA	#4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel Note: Includes molds, materials and all necessary tools to make connections.	145.07	
26 05 26 00-0187	EA	1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel Note: Includes molds, materials and all necessary tools to make connections.	156.35	
26 05 26 00-0188	EA	250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel Note: Includes molds, materials and all necessary tools to make connections.	224.03	
26 05 26 00-0189		**Tee, Wye Or Cross Cadweld** *(26 05 26 00-0183)*		
26 05 26 00-0190	EA	Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	150.71	
26 05 26 00-0191	EA	#4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	173.26	
26 05 26 00-0192	EA	1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	212.75	
26 05 26 00-0193	EA	250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	257.86	
26 05 26 00-0194		**Grounding Equipment** *(26 05 26)*		
26 05 26 00-0195		**Special Grounding Equipment** *(26 05 26 00-0194)*		
26 05 26 00-0196		**Ground Reels And Ground Bus** *(26 05 26 00-0195)*		
26 05 26 00-0197	EA	Ground Reel With 50' Of Galvanized Steel Cable	727.53	
26 05 26 00-0198		**Copper Bars** *(26 05 26 00-0195)*		
26 05 26 00-0199	LF	1/4" x 2" Copper Bar	42.06	
26 05 26 00-0200		**Phenolic Insulators** *(26 05 26 00-0195)*		
26 05 26 00-0201	EA	2" x 2" x 1" Long Phenolic Insulators	29.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.77*	
26 05 26 00-0202		**Grounding Studs** *(26 05 26 00-0195)*		
26 05 26 00-0203	EA	Ball Grounding Stud	43.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.10*	
26 05 26 00-0204		**Equipment Ground Bar Kits** *(26 05 26 00-0195)*		
26 05 26 00-0205	EA	Switch Rating 30 Ground Bar Kit	33.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.77*	
26 05 26 00-0206	EA	Switch Rating 60 Ground Bar Kit	42.74	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.45*	
26 05 26 00-0207	EA	Switch Rating 100 Ground Bar Kit	49.80	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	
26 05 26 00-0208	EA	Switch Rating 200 Ground Bar Kit	86.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.15*	
26 05 26 00-0209		**Panelboard Ground Bar Kits** *(26 05 26 00-0195)*		
26 05 26 00-0210	EA	Panelboard Ground Bar Kit	125.34	8.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	
26 05 26 00-0211		**Circuit Breaker Ground Bar Kits** *(26 05 26 00-0195)*		
26 05 26 00-0212	EA	3 Circuit, Ground Bar Kit	27.81	5.07
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.08*	
26 05 26 00-0213	EA	4 Circuit, Ground Bar Kit	27.30	5.07
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.08*	
26 05 26 00-0214	EA	7 Circuit, Ground Bar Kit	28.14	5.07
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.08*	
26 05 26 00-0215	EA	12 Circuit, Ground Bar Kit	31.91	5.75
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.75*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0216	EA	20 Circuit, Ground Bar Kit	36.34	6.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.43*	
26 05 26 00-0217	EA	24 Circuit, Ground Bar Kit	40.10	7.11
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.11*	
26 05 26 00-0218	EA	30 Circuit, Ground Bar Kit	44.82	8.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.12*	
26 05 26 00-0219	EA	54 Circuit, Ground Bar Kit	51.85	9.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*9.48*	
26 05 26 00-0220	EA	24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug	57.02	7.11
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.11*	
26 05 26 00-0221	EA	30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug	63.08	8.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.12*	
26 05 26 00-0222	EA	54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug	70.28	9.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*9.48*	

26 05 43 Underground Ducts and Raceways for Electrical Systems *(26 05)*

Note: Includes warning tape. See CSI section 33 71 19 23-0000 for underground trenched ductbank.

26 05 43 00-0001 Underground Ducts for Electrical Systems *(26 05 43)*

See CSI section 33 71 19 23-0000 for underground trenched ductbank.

26 05 43 00-0002 Precast Concrete Trenches, One Piece Pedestrian Trench *(26 05 43 00-0001)*

Note: Rated for 200 pounds per square foot (PSF) Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0003 10" Wide Pedestrian Trench *(26 05 43 00-0002)*

26 05 43 00-0004	LF	Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	189.79
26 05 43 00-0005	LF	Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench	181.52
26 05 43 00-0006	LF	Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	263.60
26 05 43 00-0007	LF	Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench	252.11
26 05 43 00-0008	EA	End Wall, 10" Wide x 15" Deep Pedestrian Trench	128.56
26 05 43 00-0009	EA	End Wall, 10" Wide x 24" Deep Pedestrian Trench	152.40
26 05 43 00-0010	LF	Lid, Concrete, 10" Wide Pedestrian Trench	126.52

26 05 43 00-0011 20" Wide Pedestrian Trench *(26 05 43 00-0002)*

26 05 43 00-0012	LF	Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	240.63
26 05 43 00-0013	LF	Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	226.00
26 05 43 00-0014	LF	Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	326.05
26 05 43 00-0015	LF	Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	312.73
26 05 43 00-0016	EA	End Wall, 20" Wide x 15" Deep Pedestrian Trench	160.87
26 05 43 00-0017	EA	End Wall, 20" Wide x 24" Deep Pedestrian Trench	234.40
26 05 43 00-0018	LF	Lid, Concrete, 20" Wide Pedestrian Trench	158.23

26 05 43 00-0019 30" Wide Pedestrian Trench *(26 05 43 00-0002)*

26 05 43 00-0020	LF	Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	307.43
26 05 43 00-0021	LF	Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	361.01
26 05 43 00-0022	LF	Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	384.62
26 05 43 00-0023	LF	Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	369.45
26 05 43 00-0024	EA	End Wall, 30" Wide x 15" Deep Pedestrian Trench	230.88
26 05 43 00-0025	EA	End Wall, 30" Wide x 24" Deep Pedestrian Trench	313.06
26 05 43 00-0026	LF	Lid, Concrete, 30" Wide Pedestrian Trench	197.52

26 05 43 00-0027 40" Wide Pedestrian Trench *(26 05 43 00-0002)*

26 05 43 00-0028	LF	Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	368.39
26 05 43 00-0029	LF	Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	354.58
26 05 43 00-0030	LF	Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	450.80
26 05 43 00-0031	LF	Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	433.92
26 05 43 00-0032	EA	End Wall, 40" Wide x 15" Deep Pedestrian Trench	295.53
26 05 43 00-0033	EA	End Wall, 40" Wide x 24" Deep Pedestrian Trench	400.29
26 05 43 00-0034	LF	Lid, Concrete, 40" Wide Pedestrian Trench	233.48

26 05 43 00-0035 Precast Concrete Trenches, One Piece Medium Vehicle Trench *(26 05 43 00-0001)*

Note: Rated for 7,000 Lb. Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0036 10" Wide Medium Vehicle Trench *(26 05 43 00-0035)*

26 05 43 00-0037	LF	Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench	115.19
26 05 43 00-0038	LF	Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench	109.83
26 05 43 00-0039	LF	Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench	159.95
26 05 43 00-0040	LF	Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench	152.53
26 05 43 00-0041	EA	End Wall, 10" Wide x 15" Deep Medium Vehicle Trench	75.55
26 05 43 00-0042	EA	End Wall, 10" Wide x 24" Deep Medium Vehicle Trench	88.01
26 05 43 00-0043	LF	Lid, Concrete 10" Wide Medium Vehicle Trench	76.79
26 05 43 00-0044	LF	Lid, Galvanized Steel 10" Wide Medium Vehicle Trench	341.06

26 05 43 00-0045 20" Wide Medium Vehicle Trench *(26 05 43 00-0035)*

26 05 43 00-0046	LF	Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench	145.08

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0047	LF	Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench	135.65	
26 05 43 00-0048	LF	Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench	195.71	
26 05 43 00-0049	LF	Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench	187.09	
26 05 43 00-0050	EA	End Wall, 20" Wide x 15" Deep Medium Vehicle Trench	93.48	
26 05 43 00-0051	EA	End Wall, 20" Wide x 24" Deep Medium Vehicle Trench	136.42	
26 05 43 00-0052	LF	Lid, Concrete 20" Wide Medium Vehicle Trench	96.03	
26 05 43 00-0053	LF	Lid, Galvanized Steel 20" Wide Medium Vehicle Trench	452.29	
26 05 43 00-0054		30" Wide Medium Vehicle Trench *(26 05 43 00-0035)*		
26 05 43 00-0055	LF	Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench	146.19	
26 05 43 00-0056	LF	Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench	175.28	
26 05 43 00-0057	LF	Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench	229.50	
26 05 43 00-0058	LF	Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench	219.69	
26 05 43 00-0059	EA	End Wall, 30" Wide x 15" Deep Medium Vehicle Trench	133.45	
26 05 43 00-0060	EA	End Wall, 30" Wide x 24" Deep Medium Vehicle Trench	183.19	
26 05 43 00-0061	LF	Lid, Concrete 30" Wide Medium Vehicle Trench	120.18	
26 05 43 00-0062	LF	Lid, Galvanized Steel 30" Wide Medium Vehicle Trench	564.62	
26 05 43 00-0063		40" Wide Medium Vehicle Trench *(26 05 43 00-0035)*		
26 05 43 00-0064	LF	Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench	217.99	
26 05 43 00-0065	LF	Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench	209.07	
26 05 43 00-0066	LF	Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench	266.84	
26 05 43 00-0067	LF	Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench	255.91	
26 05 43 00-0068	EA	End Wall, 40" Wide x 15" Deep Medium Vehicle Trench	170.83	
26 05 43 00-0069	EA	End Wall, 40" Wide x 24" Deep Medium Vehicle Trench	234.18	
26 05 43 00-0070	LF	Lid, Concrete 40" Wide Medium Vehicle Trench	141.51	
26 05 43 00-0071	LF	Lid, Galvanized Steel 40" Wide Medium Vehicle Trench	767.63	
26 05 43 00-0072		Precast Concrete Trenches, One Piece H20 Road Crossing Trench *(26 05 43 00-0001)*		
		Note: H20 Rated for 32,000 Lb. Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0073		10" Wide H20 Road Crossing Trench *(26 05 43 00-0072)*		
26 05 43 00-0074	LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	249.01	
26 05 43 00-0075	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	236.98	
26 05 43 00-0076	LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	311.09	
26 05 43 00-0077	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	295.92	
26 05 43 00-0078	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	239.10	
26 05 43 00-0079	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	227.65	
26 05 43 00-0080	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	301.18	
26 05 43 00-0081	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	286.62	
26 05 43 00-0082	EA	End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	164.74	
26 05 43 00-0083	EA	End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	222.99	
26 05 43 00-0084	EA	End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	149.02	
26 05 43 00-0085	EA	End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	206.93	
26 05 43 00-0086	LF	Lid, Concrete 10" Wide Road Crossing Trench	114.96	
26 05 43 00-0087	LF	Lid, Galvanized Steel 10" Wide Road Crossing Trench	370.10	
26 05 43 00-0088		20" Wide H20 Road Crossing Trench *(26 05 43 00-0072)*		
26 05 43 00-0089	LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	264.04	
26 05 43 00-0090	LF	Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	251.70	
26 05 43 00-0091	LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	349.35	
26 05 43 00-0092	LF	Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	332.84	
26 05 43 00-0093	LF	Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	264.04	
26 05 43 00-0094	LF	Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	251.70	
26 05 43 00-0095	LF	Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	339.44	
26 05 43 00-0096	LF	Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	323.55	
26 05 43 00-0097	EA	End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	235.30	
26 05 43 00-0098	EA	End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	320.26	
26 05 43 00-0099	EA	End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	212.40	
26 05 43 00-0100	EA	End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	297.37	
26 05 43 00-0101	LF	Lid, Concrete 20" Wide Road Crossing Trench	128.22	
26 05 43 00-0102	LF	Lid, Galvanized Steel 20" Wide Road Crossing Trench	549.00	
26 05 43 00-0103		30" Wide H20 Road Crossing Trench *(26 05 43 00-0072)*		
26 05 43 00-0104	LF	Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	311.87	
26 05 43 00-0105	LF	Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	297.75	
26 05 43 00-0106	LF	Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	385.60	
26 05 43 00-0107	LF	Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	368.07	
26 05 43 00-0108	LF	Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	301.96	
26 05 43 00-0109	LF	Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	288.42	
26 05 43 00-0110	LF	Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	375.69	
26 05 43 00-0111	LF	Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	358.43	
26 05 43 00-0112	EA	End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	313.88	
26 05 43 00-0113	EA	End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	415.57	
26 05 43 00-0114	EA	End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	283.81	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0115	EA	End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	385.49	
26 05 43 00-0116	LF	Lid, Concrete 30" Wide Road Crossing Trench	162.28	
26 05 43 00-0117	LF	Lid, Galvanized Steel 30" Wide Road Crossing Trench	688.43	

26 05 43 00-0118 40" Wide H20 Road Crossing Trench *(26 05 43 00-0072)*

26 05 43 00-0119	LF	Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	344.36	
26 05 43 00-0120	LF	Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	329.19	
26 05 43 00-0121	LF	Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	423.94	
26 05 43 00-0122	LF	Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	404.90	
26 05 43 00-0123	LF	Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	334.45	
26 05 43 00-0124	LF	Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	319.89	
26 05 43 00-0125	LF	Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	414.03	
26 05 43 00-0126	LF	Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	395.57	
26 05 43 00-0127	EA	End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	389.54	
26 05 43 00-0128	EA	End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	515.42	
26 05 43 00-0129	EA	End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	352.63	
26 05 43 00-0130	EA	End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	478.51	
26 05 43 00-0131	LF	Lid, Concrete 40" Wide Road Crossing Trench	196.02	
26 05 43 00-0132	LF	Lid, Galvanized Steel 40" Wide Road Crossing Trench	936.10	

26 05 43 00-0133 Underground Conduit for Electrical Systems *(26 05 43)*

26 05 43 00-0134 Conduit Installed Below Grade *(26 05 43 00-0133)*

Note: By direct burial In trench or in concrete slabs or duct banks. Includes detectable warning tape for underground conduits. Excludes trenching, backfilling and concrete.

26 05 43 00-0135 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial *(26 05 43 00-0134)*

26 05 43 00-0136 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial *(26 05 43 00-0135)*

Note: Includes field bend conduit up to and including 1".

26 05 43 00-0137	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	4.25	
		For Schedule 60, Add	*0.41*	
		For Schedule 80, Add	*0.67*	
26 05 43 00-0138	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	4.84	
		For Schedule 60, Add	*0.51*	
		For Schedule 80, Add	*0.81*	
26 05 43 00-0139	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	5.74	
		For Schedule 60, Add	*0.68*	
		For Schedule 80, Add	*1.07*	
26 05 43 00-0140	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	6.65	
		For Schedule 60, Add	*0.86*	
		For Schedule 80, Add	*1.32*	
26 05 43 00-0141	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	7.42	
		For Schedule 60, Add	*1.00*	
		For Schedule 80, Add	*1.53*	
26 05 43 00-0142	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	8.67	
		For Schedule 60, Add	*1.26*	
		For Schedule 80, Add	*1.90*	
26 05 43 00-0143	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	11.39	
		For Schedule 60, Add	*1.89*	
		For Schedule 80, Add	*2.79*	
26 05 43 00-0144	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	12.91	
		For Schedule 60, Add	*2.22*	
		For Schedule 80, Add	*3.26*	
26 05 43 00-0145	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	15.36	
		For Schedule 60, Add	*2.79*	
		For Schedule 80, Add	*4.06*	
26 05 43 00-0146	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	16.60	
		For Schedule 60, Add	*3.05*	
		For Schedule 80, Add	*4.43*	
26 05 43 00-0147	LF	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	21.93	
		For Schedule 60, Add	*4.33*	
		For Schedule 80, Add	*6.23*	
26 05 43 00-0148	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	27.36	
		For Schedule 60, Add	*5.64*	
		For Schedule 80, Add	*8.07*	

26 05 43 00-0149 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial *(26 05 43 00-0135)*

26 05 43 00-0150	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	26.45	
		For Schedule 60, Add	*1.60*	
		For Schedule 80, Add	*2.99*	
26 05 43 00-0151	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	31.76	
		For Schedule 60, Add	*1.92*	
		For Schedule 80, Add	*3.59*	
26 05 43 00-0152	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	37.70	
		For Schedule 60, Add	*2.40*	
		For Schedule 80, Add	*4.42*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0153	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	43.86	
		For Schedule 60, Add	*2.94*	
		For Schedule 80, Add	*5.32*	
26 05 43 00-0154	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	50.21	
		For Schedule 60, Add	*3.52*	
		For Schedule 80, Add	*6.28*	
26 05 43 00-0155	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	57.20	
		For Schedule 60, Add	*4.26*	
		For Schedule 80, Add	*7.48*	
26 05 43 00-0156	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	67.52	
		For Schedule 60, Add	*5.84*	
		For Schedule 80, Add	*9.83*	
26 05 43 00-0157	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	80.28	
		For Schedule 60, Add	*8.03*	
		For Schedule 80, Add	*13.04*	
26 05 43 00-0158	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	98.11	
		For Schedule 60, Add	*10.48*	
		For Schedule 80, Add	*16.77*	
26 05 43 00-0159	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	116.11	
		For Schedule 60, Add	*12.97*	
		For Schedule 80, Add	*20.57*	
26 05 43 00-0160	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	153.64	
		For Schedule 60, Add	*20.35*	
		For Schedule 80, Add	*31.19*	
26 05 43 00-0161	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	181.06	
		For Schedule 60, Add	*25.19*	
		For Schedule 80, Add	*38.28*	

26 05 43 00-0162 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial *(26 05 43 00-0135)*

26 05 43 00-0163	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	26.45	
		For Schedule 60, Add	*1.60*	
		For Schedule 80, Add	*2.99*	
26 05 43 00-0164	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	31.66	
		For Schedule 60, Add	*1.90*	
		For Schedule 80, Add	*3.56*	
26 05 43 00-0165	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	37.57	
		For Schedule 60, Add	*2.37*	
		For Schedule 80, Add	*4.37*	
26 05 43 00-0166	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	43.47	
		For Schedule 60, Add	*2.84*	
		For Schedule 80, Add	*5.18*	
26 05 43 00-0167	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	49.33	
		For Schedule 60, Add	*3.30*	
		For Schedule 80, Add	*5.98*	
26 05 43 00-0168	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	56.73	
		For Schedule 60, Add	*4.15*	
		For Schedule 80, Add	*7.31*	
26 05 43 00-0169	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	66.64	
		For Schedule 60, Add	*5.62*	
		For Schedule 80, Add	*9.52*	
26 05 43 00-0170	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	79.16	
		For Schedule 60, Add	*7.75*	
		For Schedule 80, Add	*12.65*	
26 05 43 00-0171	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	94.97	
		For Schedule 60, Add	*9.69*	
		For Schedule 80, Add	*15.67*	
26 05 43 00-0172	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	113.41	
		For Schedule 60, Add	*12.30*	
		For Schedule 80, Add	*19.62*	
26 05 43 00-0173	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	150.14	
		For Schedule 60, Add	*19.47*	
		For Schedule 80, Add	*29.97*	
26 05 43 00-0174	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	170.64	
		For Schedule 60, Add	*22.59*	
		For Schedule 80, Add	*34.63*	

26 05 43 00-0175 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial *(26 05 43 00-0135)*

26 05 43 00-0176	EA	1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	14.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.22*	
26 05 43 00-0177	EA	3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	16.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.82*	
26 05 43 00-0178	EA	1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	19.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.42*	
26 05 43 00-0179	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	21.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.02*	
26 05 43 00-0180	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	23.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.62*	
26 05 43 00-0181	EA	2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	26.64	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.22*	
26 05 43 00-0182	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	31.77	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0183	EA	3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	36.44	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*9.03*	
26 05 43 00-0184	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	43.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.54*	
26 05 43 00-0185	EA	4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	48.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*12.04*	
26 05 43 00-0186	EA	5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	62.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*13.55*	
26 05 43 00-0187	EA	6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	70.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.05*	

26 05 43 00-0188 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial *(26 05 43 00-0135)*

26 05 43 00-0189	EA	1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	17.15	
26 05 43 00-0190	EA	3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	19.54	
26 05 43 00-0191	EA	1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	21.95	
26 05 43 00-0192	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	28.16	
26 05 43 00-0193	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	31.17	
26 05 43 00-0194	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	35.07	
26 05 43 00-0195	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	39.25	
26 05 43 00-0196	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	44.41	
26 05 43 00-0197	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	52.62	
26 05 43 00-0198	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	58.06	
26 05 43 00-0199	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	73.77	
26 05 43 00-0200	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	83.07	

26 05 43 00-0201 Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial *(26 05 43 00-0135)*

26 05 43 00-0202	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	14.59	
26 05 43 00-0203	EA	3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	16.92	
26 05 43 00-0204	EA	1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	19.11	
26 05 43 00-0205	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	21.47	
26 05 43 00-0206	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	23.65	
26 05 43 00-0207	EA	2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	26.34	
26 05 43 00-0208	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	31.17	
26 05 43 00-0209	EA	3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	35.61	
26 05 43 00-0210	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	42.09	
26 05 43 00-0211	EA	4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	47.47	
26 05 43 00-0212	EA	5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	60.06	
26 05 43 00-0213	EA	6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	68.19	

26 05 43 00-0214 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial *(26 05 43 00-0134)*

Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).

26 05 43 00-0215 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial *(26 05 43 00-0214)*

Note: Includes field bending for conduit up to and including 1".

26 05 43 00-0216	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	11.08	2.17
		For >250 To 500, Deduct	*-0.41*	
		For >500 To 1,000, Deduct	*-0.69*	
		For >1,000, Deduct	*-0.97*	
26 05 43 00-0217	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	12.45	2.68
		For >250 To 500, Deduct	*-0.47*	
		For >500 To 1,000, Deduct	*-0.78*	
		For >1,000, Deduct	*-1.09*	
26 05 43 00-0218	LF	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	15.32	2.99
		For >250 To 500, Deduct	*-0.59*	
		For >500 To 1,000, Deduct	*-0.97*	
		For >1,000, Deduct	*-1.35*	
26 05 43 00-0219	LF	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	18.52	4.02
		For >250 To 500, Deduct	*-0.72*	
		For >500 To 1,000, Deduct	*-1.18*	
		For >1,000, Deduct	*-1.65*	
26 05 43 00-0220	LF	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	21.78	4.53
		For >250 To 500, Deduct	*-0.86*	
		For >500 To 1,000, Deduct	*-1.40*	
		For >1,000, Deduct	*-1.95*	
26 05 43 00-0221	LF	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	27.62	4.94
		For >250 To 500, Deduct	*-1.10*	
		For >500 To 1,000, Deduct	*-1.79*	
		For >1,000, Deduct	*-2.48*	
26 05 43 00-0222	LF	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	40.16	7.42
		For >250 To 500, Deduct	*-1.62*	
		For >500 To 1,000, Deduct	*-2.63*	
		For >1,000, Deduct	*-3.63*	
26 05 43 00-0223	LF	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	51.76	9.28
		For >250 To 500, Deduct	*-2.07*	
		For >500 To 1,000, Deduct	*-3.37*	
		For >1,000, Deduct	*-4.66*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0224	LF	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	63.86	9.79
		For >250 To 500, Deduct	*-2.55*	
		For >500 To 1,000, Deduct	*-4.15*	
		For >1,000, Deduct	*-5.74*	
26 05 43 00-0225	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	75.83	10.82
		For >250 To 500, Deduct	*-3.02*	
		For >500 To 1,000, Deduct	*-4.91*	
		For >1,000, Deduct	*-6.81*	
26 05 43 00-0226	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	118.77	14.94
		For >250 To 500, Deduct	*-4.96*	
		For >500 To 1,000, Deduct	*-7.93*	
		For >1,000, Deduct	*-10.90*	
26 05 43 00-0227	LF	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	158.56	19.58
		For >250 To 500, Deduct	*-6.69*	
		For >500 To 1,000, Deduct	*-10.66*	
		For >1,000, Deduct	*-14.62*	

26 05 43 00-0228 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial *(26 05 43 00-0214)*

26 05 43 00-0229	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	11.90	3.09
26 05 43 00-0230	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	14.22	4.12
26 05 43 00-0231	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	18.07	5.15
26 05 43 00-0232	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	20.39	5.67
26 05 43 00-0233	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	24.17	6.70
26 05 43 00-0234	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	31.22	7.73
26 05 43 00-0235	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	57.56	9.28
26 05 43 00-0236	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	73.14	12.89
26 05 43 00-0237	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	90.65	14.94
26 05 43 00-0238	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	112.28	20.61
26 05 43 00-0239	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	288.22	28.34
26 05 43 00-0240	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	290.59	15.97

26 05 43 00-0241 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial *(26 05 43 00-0214)*

Note: 90, 45, or 30-degree.

26 05 43 00-0242	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	45.77	12.89
26 05 43 00-0243	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	52.72	15.97
26 05 43 00-0244	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	62.98	19.58
26 05 43 00-0245	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	74.62	22.67
26 05 43 00-0246	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	87.50	25.76
26 05 43 00-0247	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	106.88	28.34
26 05 43 00-0248	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	165.70	35.56
26 05 43 00-0249	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	248.03	48.43
26 05 43 00-0250	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	307.60	54.62
26 05 43 00-0251	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	351.89	71.10
26 05 43 00-0252	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	737.16	115.94
26 05 43 00-0253	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	1,160.52	174.16

26 05 43 00-0254 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial *(26 05 43 00-0214)*

26 05 43 00-0255	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	110.15	19.58
26 05 43 00-0256	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	123.86	22.67
26 05 43 00-0257	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	141.41	25.76
26 05 43 00-0258	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	169.09	28.34
26 05 43 00-0259	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	236.11	35.56

26 05 43 00-0260 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial *(26 05 43 00-0214)*

26 05 43 00-0261	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	122.90	19.58

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0262	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	144.93	22.67
26 05 43 00-0263	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	156.52	25.76
26 05 43 00-0264	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	202.04	28.34
26 05 43 00-0265	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	267.89	35.56
26 05 43 00-0266	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	342.26	48.43
26 05 43 00-0267		**Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial** *(26 05 43 00-0214)*		
26 05 43 00-0268	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	138.15	19.58
26 05 43 00-0269	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	155.91	22.67
26 05 43 00-0270	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	175.91	25.76
26 05 43 00-0271	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	212.97	28.34
26 05 43 00-0272	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	304.40	35.56
26 05 43 00-0273	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	385.13	48.43
26 05 43 00-0274	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	487.12	54.62
26 05 43 00-0275	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	547.47	71.10
26 05 43 00-0276		**Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial** *(26 05 43 00-0214)*		
26 05 43 00-0277	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	164.50	19.58
26 05 43 00-0278	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	181.68	22.67
26 05 43 00-0279	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	205.16	25.76
26 05 43 00-0280	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	255.10	28.34
26 05 43 00-0281	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	369.74	35.56
26 05 43 00-0282	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	457.76	48.43
26 05 43 00-0283	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	531.46	54.62
26 05 43 00-0284	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	628.88	71.10
26 05 43 00-0285		**Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial** *(26 05 43 00-0214)*		
26 05 43 00-0286	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	184.99	19.58
26 05 43 00-0287	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	205.66	22.67
26 05 43 00-0288	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	233.96	25.76
26 05 43 00-0289	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	291.77	28.34
26 05 43 00-0290	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	405.40	35.56
26 05 43 00-0291	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	515.85	48.43
26 05 43 00-0292	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	639.28	54.62
26 05 43 00-0293	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	703.61	71.10
26 05 43 00-0294	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	1,173.43	115.94
26 05 43 00-0295		**Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial** *(26 05 43 00-0214)*		
26 05 43 00-0296	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	211.80	19.58
26 05 43 00-0297	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	234.64	22.67
26 05 43 00-0298	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	265.52	25.76

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0299	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	332.44	28.34
26 05 43 00-0300	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	464.81	35.56
26 05 43 00-0301	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	589.86	48.43
26 05 43 00-0302	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	693.31	54.62
26 05 43 00-0303	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	800.09	71.10
26 05 43 00-0304	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,241.04	115.94
26 05 43 00-0305	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,694.77	174.16
26 05 43 00-0306		**Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial** *(26 05 43 00-0214)*		
26 05 43 00-0307	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	249.12	19.58
26 05 43 00-0308	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	260.47	22.67
26 05 43 00-0309	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	307.77	25.76
26 05 43 00-0310	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	389.05	28.34
26 05 43 00-0311	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	544.92	35.56
26 05 43 00-0312	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	689.64	48.43
26 05 43 00-0313	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	843.51	54.62
26 05 43 00-0314	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	987.77	71.10
26 05 43 00-0315	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,461.58	115.94
26 05 43 00-0316	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,796.01	174.16
26 05 43 00-0317		**Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial** *(26 05 43 00-0214)*		
26 05 43 00-0318	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	258.11	19.58
26 05 43 00-0319	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	304.17	22.67
26 05 43 00-0320	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	344.30	25.76
26 05 43 00-0321	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	406.08	28.34
26 05 43 00-0322	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	564.93	35.56
26 05 43 00-0323	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	720.33	48.43
26 05 43 00-0324	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	925.31	54.62
26 05 43 00-0325	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,030.33	71.10
26 05 43 00-0326	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,520.83	115.94
26 05 43 00-0327	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,847.44	174.16
26 05 43 00-0328		**Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial** *(26 05 43 00-0214)*		
26 05 43 00-0329	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	85.40	12.89
26 05 43 00-0330	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	92.68	15.97
26 05 43 00-0331	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	120.57	19.58
26 05 43 00-0332	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	176.36	22.67
26 05 43 00-0333	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	209.55	25.76
26 05 43 00-0334	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	267.27	28.34
26 05 43 00-0335	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	356.23	35.56
26 05 43 00-0336	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	464.18	35.56

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0337	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	596.84	54.62
26 05 43 00-0338	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	768.29	71.10
26 05 43 00-0339	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	1,402.08	115.94
26 05 43 00-0340	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	1,742.03	174.16

26 05 43 00-0341 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial *(26 05 43 00-0214)*

26 05 43 00-0342	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	87.41	12.89
26 05 43 00-0343	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	100.35	15.97
26 05 43 00-0344	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	124.66	19.58
26 05 43 00-0345	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	183.87	22.67
26 05 43 00-0346	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	219.98	25.76
26 05 43 00-0347	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	289.78	28.34
26 05 43 00-0348	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	404.38	35.56
26 05 43 00-0349	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	513.15	35.56
26 05 43 00-0350	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	685.36	54.62
26 05 43 00-0351	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	856.49	71.10
26 05 43 00-0352	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	1,563.76	115.94
26 05 43 00-0353	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	2,003.10	174.16

26 05 43 00-0354 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial *(26 05 43 00-0214)*

26 05 43 00-0355	EA	1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	29.27	6.19
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.71*	
26 05 43 00-0356	EA	3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.70	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	
26 05 43 00-0357	EA	1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.77	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	
26 05 43 00-0358	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.04	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0359	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.86	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0360	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.49	6.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.02*	
26 05 43 00-0361	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.01	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	
26 05 43 00-0362	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.10	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	
26 05 43 00-0363	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.51	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0364	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.53	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0365	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.78	14.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.66*	
26 05 43 00-0366	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.65	6.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.02*	
26 05 43 00-0367	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.16	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	
26 05 43 00-0368	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.39	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	

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26 05 43 00-0369	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.83	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0370	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.85	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0371	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.60	14.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.66*	
26 05 43 00-0372	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	34.84	6.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.02*	
26 05 43 00-0373	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.36	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	
26 05 43 00-0374	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.75	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	
26 05 43 00-0375	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.17	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0376	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.33	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0377	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.19	14.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.66*	
26 05 43 00-0378	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	83.20	17.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.51*	
26 05 43 00-0379	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	107.35	24.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.53*	
26 05 43 00-0380	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.01	6.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.02*	
26 05 43 00-0381	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.66	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	
26 05 43 00-0382	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.07	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	
26 05 43 00-0383	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.51	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0384	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.81	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0385	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.78	14.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.66*	
26 05 43 00-0386	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	85.48	17.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.51*	
26 05 43 00-0387	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	112.28	24.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.53*	
26 05 43 00-0388	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	134.24	27.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*16.38*	
26 05 43 00-0389	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	156.30	35.56
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*21.33*	
26 05 43 00-0390	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.31	6.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.02*	
26 05 43 00-0391	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.98	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	
26 05 43 00-0392	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.42	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	
26 05 43 00-0393	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.14	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0394	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.45	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0395	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.19	14.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.66*	
26 05 43 00-0396	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	94.59	17.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.51*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0397	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	119.65	24.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.53*	
26 05 43 00-0398	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	135.81	27.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*16.38*	
26 05 43 00-0399	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	160.50	35.56
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*21.33*	
26 05 43 00-0400	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	236.95	48.95
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*29.37*	
26 05 43 00-0401	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.88	6.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.02*	
26 05 43 00-0402	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.56	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	
26 05 43 00-0403	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.04	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	
26 05 43 00-0404	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.29	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0405	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.84	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0406	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.60	14.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.66*	
26 05 43 00-0407	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	103.83	17.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.51*	
26 05 43 00-0408	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	129.45	24.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.53*	
26 05 43 00-0409	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	144.64	27.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*16.38*	
26 05 43 00-0410	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	175.38	35.56
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*21.33*	
26 05 43 00-0411	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	259.20	48.95
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*29.37*	
26 05 43 00-0412	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.78	6.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.02*	
26 05 43 00-0413	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.44	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	
26 05 43 00-0414	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.43	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	
26 05 43 00-0415	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.59	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0416	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.66	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0417	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	71.48	14.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.66*	
26 05 43 00-0418	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	115.20	17.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.51*	
26 05 43 00-0419	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	142.85	24.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.53*	
26 05 43 00-0420	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	166.73	27.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*16.38*	
26 05 43 00-0421	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	197.73	35.56
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*21.33*	
26 05 43 00-0422	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	274.46	48.95
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*29.37*	
26 05 43 00-0423	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.73	6.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.02*	
26 05 43 00-0424	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.36	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0425	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	46.79	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	
26 05 43 00-0426	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.75	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0427	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.36	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0428	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	81.60	14.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.66*	
26 05 43 00-0429	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	127.22	17.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.51*	
26 05 43 00-0430	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	160.02	24.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.53*	
26 05 43 00-0431	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	189.93	27.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*16.38*	
26 05 43 00-0432	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	236.83	35.56
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*21.33*	
26 05 43 00-0433	EA	5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	304.89	48.95
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*29.37*	
26 05 43 00-0434	EA	1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.70	6.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.02*	
26 05 43 00-0435	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.45	7.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.64*	
26 05 43 00-0436	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.26	9.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*5.87*	
26 05 43 00-0437	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.59	11.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*6.80*	
26 05 43 00-0438	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	74.47	12.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*7.73*	
26 05 43 00-0439	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	89.74	14.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.66*	
26 05 43 00-0440	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	143.25	17.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.51*	
26 05 43 00-0441	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	185.76	24.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*14.53*	
26 05 43 00-0442	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	204.16	27.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*16.38*	
26 05 43 00-0443	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	248.82	35.56
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*21.33*	
26 05 43 00-0444	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	309.23	48.95
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*29.37*	

26 05 43 00-0445 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit *(26 05 43 00-0134)*

Note: Direct burial or encased application.

26 05 43 00-0446 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit *(26 05 43 00-0445)*

Note: Includes field bending for conduit up to and including 1".

26 05 43 00-0447	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	7.77	1.30
		For Work In Restricted Working Space, Add	*0.98*	
26 05 43 00-0448	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.59	1.40
		For Work In Restricted Working Space, Add	*1.06*	
26 05 43 00-0449	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.13	1.50
		For Work In Restricted Working Space, Add	*1.13*	
26 05 43 00-0450	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.68	1.60
		For Work In Restricted Working Space, Add	*1.21*	
26 05 43 00-0451	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.39	1.70
		For Work In Restricted Working Space, Add	*1.28*	
26 05 43 00-0452	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.80	1.80
		For Work In Restricted Working Space, Add	*1.36*	
26 05 43 00-0453	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	12.29	1.90
		For Work In Restricted Working Space, Add	*1.43*	
26 05 43 00-0454	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	14.05	2.00
		For Work In Restricted Working Space, Add	*1.51*	
26 05 43 00-0455	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	15.42	2.10
		For Work In Restricted Working Space, Add	*1.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0456	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	16.80	2.20
		For Work In Restricted Working Space, Add	*1.66*	
26 05 43 00-0457	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	19.86	2.30
		For Work In Restricted Working Space, Add	*1.73*	
26 05 43 00-0458	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	23.65	2.40
		For Work In Restricted Working Space, Add	*1.81*	

26 05 43 00-0459 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows *(26 05 43 00-0445)*

26 05 43 00-0460	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	108.36	10.04
		For Work In Restricted Working Space, Add	*7.52*	
		For 24" Radius, Add	*7.50*	
		For 36" Radius, Add	*10.84*	
		For 48" Radius, Add	*14.17*	
26 05 43 00-0461	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	123.33	12.04
		For Work In Restricted Working Space, Add	*9.03*	
		For 24" Radius, Add	*8.50*	
		For 36" Radius, Add	*12.33*	
		For 48" Radius, Add	*16.17*	
26 05 43 00-0462	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	129.30	14.06
		For Work In Restricted Working Space, Add	*10.54*	
		For 24" Radius, Add	*8.82*	
		For 36" Radius, Add	*12.93*	
		For 48" Radius, Add	*17.04*	
26 05 43 00-0463	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	135.24	16.06
		For Work In Restricted Working Space, Add	*12.04*	
		For 24" Radius, Add	*9.14*	
		For 36" Radius, Add	*13.52*	
		For 48" Radius, Add	*17.91*	
26 05 43 00-0464	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	141.20	18.06
		For Work In Restricted Working Space, Add	*13.55*	
		For 24" Radius, Add	*9.46*	
		For 36" Radius, Add	*14.12*	
		For 48" Radius, Add	*18.78*	
26 05 43 00-0465	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	159.47	20.08
		For Work In Restricted Working Space, Add	*15.05*	
		For 24" Radius, Add	*10.71*	
		For 36" Radius, Add	*15.95*	
		For 48" Radius, Add	*21.19*	
26 05 43 00-0466	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	186.01	22.08
		For Work In Restricted Working Space, Add	*16.56*	
		For 24" Radius, Add	*12.57*	
		For 36" Radius, Add	*18.60*	
		For 48" Radius, Add	*24.63*	
26 05 43 00-0467	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	217.19	24.08
		For Work In Restricted Working Space, Add	*18.07*	
		For 24" Radius, Add	*14.78*	
		For 36" Radius, Add	*21.72*	
		For 48" Radius, Add	*28.65*	
26 05 43 00-0468	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	246.85	28.10
		For Work In Restricted Working Space, Add	*21.08*	
		For 24" Radius, Add	*16.76*	
		For 36" Radius, Add	*24.69*	
		For 48" Radius, Add	*32.61*	
26 05 43 00-0469	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	276.49	36.12
		For Work In Restricted Working Space, Add	*24.08*	
		For 24" Radius, Add	*18.73*	
		For 36" Radius, Add	*27.65*	
		For 48" Radius, Add	*36.57*	
26 05 43 00-0470	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	335.59	36.12
		For Work In Restricted Working Space, Add	*27.10*	
		For 24" Radius, Add	*22.91*	
		For 36" Radius, Add	*33.56*	
		For 48" Radius, Add	*44.21*	
26 05 43 00-0471	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	406.94	40.14
		For Work In Restricted Working Space, Add	*30.11*	
		For 24" Radius, Add	*28.01*	
		For 36" Radius, Add	*40.69*	
		For 48" Radius, Add	*53.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 05 43 00-0472 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings *(26 05 43 00-0445)*

26 05 43 00-0473	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	48.54	5.62
		For Work In Restricted Working Space, Add	*4.22*	
26 05 43 00-0474	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	54.48	6.42
		For Work In Restricted Working Space, Add	*4.82*	
26 05 43 00-0475	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	56.88	7.22
		For Work In Restricted Working Space, Add	*5.42*	
26 05 43 00-0476	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	59.22	8.02
		For Work In Restricted Working Space, Add	*6.02*	
26 05 43 00-0477	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	62.01	8.84
		For Work In Restricted Working Space, Add	*6.62*	
26 05 43 00-0478	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	71.63	9.64
		For Work In Restricted Working Space, Add	*7.22*	
26 05 43 00-0479	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	84.33	10.84
		For Work In Restricted Working Space, Add	*8.13*	
26 05 43 00-0480	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	98.77	12.04
		For Work In Restricted Working Space, Add	*9.03*	
26 05 43 00-0481	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	112.38	14.06
		For Work In Restricted Working Space, Add	*10.54*	
26 05 43 00-0482	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	125.99	16.06
		For Work In Restricted Working Space, Add	*12.04*	
26 05 43 00-0483	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	152.46	18.06
		For Work In Restricted Working Space, Add	*13.55*	
26 05 43 00-0484	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	184.26	20.08
		For Work In Restricted Working Space, Add	*15.05*	

26 05 43 00-0485 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings *(26 05 43 00-0445)*

26 05 43 00-0486	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	33.51	5.62
		For Work In Restricted Working Space, Add	*4.22*	
26 05 43 00-0487	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	37.68	6.42
		For Work In Restricted Working Space, Add	*4.82*	
26 05 43 00-0488	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	39.91	7.22
		For Work In Restricted Working Space, Add	*5.42*	
26 05 43 00-0489	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	42.16	8.02
		For Work In Restricted Working Space, Add	*6.02*	
26 05 43 00-0490	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	44.38	8.84
		For Work In Restricted Working Space, Add	*6.62*	
26 05 43 00-0491	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	46.51	9.64
		For Work In Restricted Working Space, Add	*7.22*	
26 05 43 00-0492	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	54.02	10.84
		For Work In Restricted Working Space, Add	*8.13*	
26 05 43 00-0493	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	62.41	12.04
		For Work In Restricted Working Space, Add	*9.03*	
26 05 43 00-0494	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	71.47	14.06
		For Work In Restricted Working Space, Add	*10.54*	
26 05 43 00-0495	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	80.53	16.06
		For Work In Restricted Working Space, Add	*12.04*	
26 05 43 00-0496	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	95.69	18.06
		For Work In Restricted Working Space, Add	*13.55*	
26 05 43 00-0497	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	113.29	20.08
		For Work In Restricted Working Space, Add	*15.05*	

26 05 43 00-0498 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings *(26 05 43 00-0445)*

26 05 43 00-0499	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	32.20	3.22
		For Work In Restricted Working Space, Add	*2.41*	
26 05 43 00-0500	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	35.92	3.62
		For Work In Restricted Working Space, Add	*2.71*	
26 05 43 00-0501	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	37.22	4.02
		For Work In Restricted Working Space, Add	*3.01*	
26 05 43 00-0502	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	38.38	4.42
		For Work In Restricted Working Space, Add	*3.31*	
26 05 43 00-0503	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	40.00	4.82
		For Work In Restricted Working Space, Add	*3.61*	
26 05 43 00-0504	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	47.35	5.62
		For Work In Restricted Working Space, Add	*4.22*	
26 05 43 00-0505	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	56.99	6.82
		For Work In Restricted Working Space, Add	*5.12*	
26 05 43 00-0506	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	67.99	8.02
		For Work In Restricted Working Space, Add	*6.02*	
26 05 43 00-0507	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	78.97	10.04
		For Work In Restricted Working Space, Add	*7.52*	
26 05 43 00-0508	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	89.98	12.04
		For Work In Restricted Working Space, Add	*9.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0509	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	109.94	14.06
		For Work In Restricted Working Space, Add	*10.54*	
26 05 43 00-0510	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	133.70	16.06
		For Work In Restricted Working Space, Add	*12.04*	

26 05 43 00-0511 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints *(26 05 43 00-0445)*

26 05 43 00-0512	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	76.83	20.08
		For Work In Restricted Working Space, Add	*15.05*	
26 05 43 00-0513	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	89.78	24.08
		For Work In Restricted Working Space, Add	*18.07*	
26 05 43 00-0514	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	100.15	28.10
		For Work In Restricted Working Space, Add	*21.08*	
26 05 43 00-0515	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	110.37	32.12
		For Work In Restricted Working Space, Add	*24.08*	
26 05 43 00-0516	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	116.07	34.12
		For Work In Restricted Working Space, Add	*25.59*	
26 05 43 00-0517	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	126.95	36.12
		For Work In Restricted Working Space, Add	*27.10*	
26 05 43 00-0518	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	139.29	38.14
		For Work In Restricted Working Space, Add	*28.60*	
26 05 43 00-0519	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	153.11	40.14
		For Work In Restricted Working Space, Add	*30.11*	
26 05 43 00-0520	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	164.72	42.16
		For Work In Restricted Working Space, Add	*31.61*	
26 05 43 00-0521	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	176.33	44.16
		For Work In Restricted Working Space, Add	*33.12*	
26 05 43 00-0522	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	197.83	46.16
		For Work In Restricted Working Space, Add	*34.63*	
26 05 43 00-0523	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	223.45	48.18
		For Work In Restricted Working Space, Add	*36.13*	

26 05 43 00-0524 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints *(26 05 43 00-0445)*

26 05 43 00-0525	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	87.65	20.08
		For Work In Restricted Working Space, Add	*15.05*	
26 05 43 00-0526	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	101.92	24.08
		For Work In Restricted Working Space, Add	*18.07*	
26 05 43 00-0527	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	112.35	28.10
		For Work In Restricted Working Space, Add	*21.08*	
26 05 43 00-0528	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	122.69	32.12
		For Work In Restricted Working Space, Add	*24.08*	
26 05 43 00-0529	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	128.50	34.12
		For Work In Restricted Working Space, Add	*25.59*	
26 05 43 00-0530	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	141.14	36.12
		For Work In Restricted Working Space, Add	*27.10*	
26 05 43 00-0531	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	156.33	38.14
		For Work In Restricted Working Space, Add	*28.60*	
26 05 43 00-0532	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	173.55	40.14
		For Work In Restricted Working Space, Add	*30.11*	
26 05 43 00-0533	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	187.72	42.16
		For Work In Restricted Working Space, Add	*31.61*	
26 05 43 00-0534	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	201.90	44.16
		For Work In Restricted Working Space, Add	*33.12*	
26 05 43 00-0535	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	229.88	46.16
		For Work In Restricted Working Space, Add	*34.63*	
26 05 43 00-0536	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	263.51	48.18
		For Work In Restricted Working Space, Add	*36.13*	

26 05 43 00-0537 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters *(26 05 43 00-0445)*

26 05 43 00-0538	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	103.17	5.62
		For Work In Restricted Working Space, Add	*4.22*	
26 05 43 00-0539	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	115.05	6.42
		For Work In Restricted Working Space, Add	*4.82*	
26 05 43 00-0540	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	120.09	7.22
		For Work In Restricted Working Space, Add	*5.42*	
26 05 43 00-0541	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	125.28	8.02
		For Work In Restricted Working Space, Add	*6.02*	
26 05 43 00-0542	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	128.92	8.84
		For Work In Restricted Working Space, Add	*6.62*	
26 05 43 00-0543	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	141.09	9.64
		For Work In Restricted Working Space, Add	*7.22*	
26 05 43 00-0544	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	167.52	10.84
		For Work In Restricted Working Space, Add	*8.13*	
26 05 43 00-0545	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	198.52	12.04
		For Work In Restricted Working Space, Add	*9.03*	
26 05 43 00-0546	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	224.60	14.06
		For Work In Restricted Working Space, Add	*10.54*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0547	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	250.68	16.06
		For Work In Restricted Working Space, Add	*12.04*	
26 05 43 00-0548	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	308.41	18.06
		For Work In Restricted Working Space, Add	*13.55*	
26 05 43 00-0549	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	377.20	20.08
		For Work In Restricted Working Space, Add	*15.05*	

26 05 43 00-0550 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints *(26 05 43 00-0445)*

26 05 43 00-0551	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	106.48	20.08
		For Work In Restricted Working Space, Add	*15.05*	
26 05 43 00-0552	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	122.78	24.08
		For Work In Restricted Working Space, Add	*18.07*	
26 05 43 00-0553	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	147.54	28.10
		For Work In Restricted Working Space, Add	*21.08*	
26 05 43 00-0554	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	184.48	32.12
		For Work In Restricted Working Space, Add	*24.08*	
26 05 43 00-0555	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	228.14	34.12
		For Work In Restricted Working Space, Add	*25.59*	
26 05 43 00-0556	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	302.01	36.12
		For Work In Restricted Working Space, Add	*27.10*	
26 05 43 00-0557	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	428.45	38.14
		For Work In Restricted Working Space, Add	*28.60*	
26 05 43 00-0558	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	513.41	40.14
		For Work In Restricted Working Space, Add	*30.11*	
26 05 43 00-0559	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	613.37	42.16
		For Work In Restricted Working Space, Add	*31.61*	
26 05 43 00-0560	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	713.33	44.16
		For Work In Restricted Working Space, Add	*33.12*	
26 05 43 00-0561	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	831.60	46.16
		For Work In Restricted Working Space, Add	*34.63*	
26 05 43 00-0562	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	1,336.28	48.18
		For Work In Restricted Working Space, Add	*36.13*	

26 05 43 00-0563 Rigid Galvanized Steel (RGS) Conduit And Fittings In Precast Concrete Panel Assemblies *(26 05 43 00-0134)*

26 05 43 00-0564	LF	1" Rigid Galvanized Steel (RGS) Conduit With Fittings, Direct Burial Assembly	14.36
26 05 43 00-0565	LF	1-1/4" Rigid Galvanized Steel (RGS) Conduit With Fittings, Direct Burial Assembly	19.52
26 05 43 00-0566	LF	1-1/2" Rigid Galvanized Steel (RGS) Conduit With Fittings, Direct Burial Assembly	23.44
26 05 43 00-0567	LF	2" Rigid Galvanized Steel (RGS) Conduit With Fittings, Direct Burial Assembly	31.56
26 05 43 00-0568	LF	2-1/2" Rigid Galvanized Steel (RGS) Conduit With Fittings, Direct Burial Assembly	46.32
26 05 43 00-0569	LF	3" Rigid Galvanized Steel (RGS) Conduit With Fittings, Direct Burial Assembly	58.89

26 05 43 00-0570 Spacers *(26 05 43 00-0134)*

Note: For concrete encasement applications. See CSI section 03 30 53 00-0001 for concrete., 26 05 43 00-0134 for conduit.

26 05 43 00-0571	EA	1" Base Spacers, Average 4" Wide, Direct Burial	10.80
26 05 43 00-0572	EA	1" Intermediate Spacers, Average 4" Wide, Direct Burial	11.57
26 05 43 00-0573	EA	1-1/4" Base Spacer, Average 4" Wide, Direct Burial	12.82
26 05 43 00-0574	EA	1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial	13.77
26 05 43 00-0575	EA	1-1/2" Base Spacer, Average 4" Wide, Direct Burial	12.95
26 05 43 00-0576	EA	1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	13.86
26 05 43 00-0577	EA	2" Base Spacer, Average 4" Wide, Direct Burial	16.03
26 05 43 00-0578	EA	2" Intermediate Spacers, Average 4" Wide, Direct Burial	14.88
26 05 43 00-0579	EA	2-1/2" Base Spacer, Average 4" Wide, Direct Burial	17.70
26 05 43 00-0580	EA	2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	17.12
26 05 43 00-0581	EA	3" Base Spacer, Average 4" Wide, Direct Burial	20.21
26 05 43 00-0582	EA	3" Intermediate Spacers, Average 4" Wide, Direct Burial	19.33
26 05 43 00-0583	EA	3-1/2" Base Spacer, Average 4" Wide, Direct Burial	21.91
26 05 43 00-0584	EA	3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	20.96
26 05 43 00-0585	EA	4" Base Spacer, Average 4" Wide, Direct Burial	22.59
26 05 43 00-0586	EA	4" Intermediate Spacers, Average 4" Wide, Direct Burial	21.55
26 05 43 00-0587	EA	5" Base Spacer, Average 4" Wide, Direct Burial	24.99
26 05 43 00-0588	EA	5" Intermediate Spacers, Average 4" Wide, Direct Burial	23.76
26 05 43 00-0589	EA	6" Base Spacer, Average 4" Wide, Direct Burial	28.33
26 05 43 00-0590	EA	6" Intermediate Spacers, Average 4" Wide, Direct Burial	27.30

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 05 46 Utility Poles for Electrical Systems *(26 05)*

26 05 46 00-0001 Wood Poles *(26 05 46)*

26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 Lb. Retention *(26 05 46 00-0001)*

Note: Machine dig and set.

26 05 46 00-0003	EA	25' Treated Wood Pole, Class 3, Machine Dig And Set	992.52	305.05
		For Class 1 Pole, Add	*133.81*	
		For Class 2 Pole, Add	*76.46*	
		For Class 4 Pole, Deduct	*-38.23*	
		For Class 5 Pole, Deduct	*-114.70*	
		For Class 6 Pole, Deduct	*-152.93*	
26 05 46 00-0004	EA	30' Treated Wood Pole, Class 3, Machine Dig And Set	1,196.03	338.46
		For Class 1 Pole, Add	*181.68*	
		For Class 2 Pole, Add	*103.82*	
		For Class 4 Pole, Deduct	*-51.91*	
		For Class 5 Pole, Deduct	*-155.72*	
		For Class 6 Pole, Deduct	*-207.63*	
26 05 46 00-0005	EA	35' Treated Wood Pole, Class 3, Machine Dig And Set	1,547.86	447.62
		For Class 1 Pole, Add	*228.46*	
		For Class 2 Pole, Add	*130.55*	
		For Class 4 Pole, Deduct	*-65.27*	
		For Class 5 Pole, Deduct	*-195.82*	
		For Class 6 Pole, Deduct	*-261.09*	
26 05 46 00-0006	EA	40' Treated Wood Pole, Class 3, Machine Dig And Set	1,777.26	492.34
		For Class 1 Pole, Add	*277.41*	
		For Class 2 Pole, Add	*158.52*	
		For Class 4 Pole, Deduct	*-79.26*	
		For Class 5 Pole, Deduct	*-237.78*	
		For Class 6 Pole, Deduct	*-317.04*	
26 05 46 00-0007	EA	45' Treated Wood Pole, Class 3, Machine Dig And Set	2,035.52	548.36
		For Class 1 Pole, Add	*328.54*	
		For Class 2 Pole, Add	*187.74*	
		For Class 4 Pole, Deduct	*-93.87*	
		For Class 5 Pole, Deduct	*-281.61*	
		For Class 6 Pole, Deduct	*-375.48*	
26 05 46 00-0008	EA	50' Treated Wood Pole, Class 3, Machine Dig And Set	2,318.69	615.42
		For Class 1 Pole, Add	*380.76*	
		For Class 2 Pole, Add	*217.58*	
		For Class 4 Pole, Deduct	*-108.79*	
		For Class 5 Pole, Deduct	*-326.37*	
		For Class 6 Pole, Deduct	*-435.16*	
26 05 46 00-0009	EA	55' Treated Wood Pole, Class 3, Machine Dig And Set	2,597.19	676.90
		For Class 1 Pole, Add	*435.16*	
		For Class 2 Pole, Add	*248.66*	
		For Class 4 Pole, Deduct	*-124.33*	
		For Class 5 Pole, Deduct	*-372.99*	
		For Class 6 Pole, Deduct	*-497.32*	
26 05 46 00-0010	EA	60' Treated Wood Pole, Class 3, Machine Dig And Set	2,906.18	744.35
		For Class 1 Pole, Add	*496.08*	
		For Class 2 Pole, Add	*283.47*	
		For Class 4 Pole, Deduct	*-141.74*	
		For Class 5 Pole, Deduct	*-425.21*	
		For Class 6 Pole, Deduct	*-566.95*	
26 05 46 00-0011	EA	65' Treated Wood Pole, Class 3, Machine Dig And Set	4,888.49	811.29
		For Class 1 Pole, Add	*1,143.05*	
		For Class 2 Pole, Add	*653.17*	
		For Class 4 Pole, Deduct	*-326.59*	
		For Class 5 Pole, Deduct	*-979.76*	
		For Class 6 Pole, Deduct	*-1,306.34*	
26 05 46 00-0012	EA	70' Treated Wood Pole, Class 3, Machine Dig And Set	5,377.19	863.02
		For Class 1 Pole, Add	*1,277.89*	
		For Class 2 Pole, Add	*730.22*	
		For Class 4 Pole, Deduct	*-365.11*	
		For Class 5 Pole, Deduct	*-1,095.33*	
		For Class 6 Pole, Deduct	*-1,460.44*	
26 05 46 00-0013	EA	75' Treated Wood Pole, Class 3, Machine Dig And Set	5,919.35	921.77
		For Class 1 Pole, Add	*1,426.52*	
		For Class 2 Pole, Add	*815.15*	
		For Class 4 Pole, Deduct	*-407.58*	
		For Class 5 Pole, Deduct	*-1,222.73*	
		For Class 6 Pole, Deduct	*-1,630.30*	

26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm *(26 05 46 00-0001)*

26 05 46 00-0015	LF	Removal And Relocation Of Up To 75' Wood Pole With Cross Arms	25.99	

26 05 46 00-0016 Crossarms *(26 05 46)*

Note: Includes hardware and braces.

26 05 46 00-0017 Wood Single Arm Crossarms *(26 05 46 00-0016)*

26 05 46 00-0018	EA	3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces	227.42	90.98
26 05 46 00-0019	EA	3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces	274.43	90.98
26 05 46 00-0020	EA	3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces	287.85	116.97

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0021		Wood Double Arm Crossarms *(26 05 46 00-0016)*			
26 05 46 00-0022	EA	3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces		584.06	253.45
26 05 46 00-0023	EA	3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces		622.36	253.45
26 05 46 00-0024	EA	3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces		647.41	253.45
26 05 46 00-0025		Fiberglass Crossarms *(26 05 46 00-0016)*			
		Note: Includes hardware.			
26 05 46 00-0026		Single Phase, 15 Degree Angle *(26 05 46 00-0025)*			
26 05 46 00-0027	EA	Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 Lb.		275.50	
26 05 46 00-0028	EA	Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 Lb.		344.48	54.59
26 05 46 00-0029	EA	Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 Lb.		357.48	58.49
26 05 46 00-0030		Two Phase, 15 Degree Angle *(26 05 46 00-0025)*			
26 05 46 00-0031	EA	Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 Lb.		427.99	70.19
26 05 46 00-0032		Fiberglass Crossarm Accessories *(26 05 46 00-0025)*			
26 05 46 00-0033	EA	Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 Lb. Per Conductor		678.40	89.68
26 05 46 00-0034	EA	Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 Lb. Per Conductor		802.79	109.18
26 05 46 00-0035	EA	Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded		117.98	15.60
26 05 46 00-0036	EA	Three Phase Equipment Mounting Bracket		589.92	77.98
26 05 46 00-0037	EA	Fiberglass Bull Horn Crossarm		457.92	129.97
26 05 46 00-0038		Insulator Support System *(26 05 46 00-0016)*			
26 05 46 00-0039		Epoxy Construction Units, In Place Mounting *(26 05 46 00-0038)*			
		Note: Includes hardware.			
26 05 46 00-0040	EA	1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting		137.42	
26 05 46 00-0041	EA	1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting		113.83	
26 05 46 00-0042	EA	Deadend Arms, In Place Mounting		342.50	
26 05 46 00-0043	EA	1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting		222.32	
26 05 46 00-0044		Epoxy Construction Units, Grounding Mounting *(26 05 46 00-0038)*			
		Note: Includes hardware.			
26 05 46 00-0045	EA	1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting		99.81	
26 05 46 00-0046	EA	1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting		88.76	
26 05 46 00-0047	EA	Deadend Arms, Grounding Mounting		317.43	
26 05 46 00-0048		Guying *(26 05 46)*			
		Note: Includes cable, anchor and rod assembly, guy marker.			
26 05 46 00-0049		Down Guy *(26 05 46 00-0048)*			
26 05 46 00-0050	EA	Down Guy For 25' To 40' Pole		936.83	363.93
26 05 46 00-0051	EA	Down Guy For 45' To 60' Pole		956.46	363.93
26 05 46 00-0052	EA	Down Guy For 65' To 75' Pole		996.82	363.93
26 05 46 00-0053	EA	Guy Guard, Plastic		42.87	
26 05 46 00-0054		Head Guy, 50' Spans *(26 05 46 00-0048)*			
26 05 46 00-0055	EA	Head Guy (50' Span), For 25' To 40' Pole		1,332.17	558.89
26 05 46 00-0056	EA	Head Guy (50' Span), For 45' To 60' Pole		1,332.17	558.89
26 05 46 00-0057	EA	Head Guy (50' Span), For 65' To 75' Pole		1,332.17	558.89
26 05 46 00-0058		Guy Strain Insulators Additional Insulators *(26 05 46 00-0048)*			
		Note: As required at same material cost and labor.			
26 05 46 00-0059	EA	Guy Strain Insulator		553.92	272.95
26 05 46 00-0060		Insulators *(26 05 46)*			
26 05 46 00-0061		Pin Insulator With Pin *(26 05 46 00-0060)*			
26 05 46 00-0062	EA	5 KV Class 55-3, Pin Insulator With Pin		175.46	77.98
26 05 46 00-0063	EA	15 KV Class 55-5, Pin Insulator With Pin		181.10	77.98
26 05 46 00-0064		Suspension Insulator *(26 05 46 00-0060)*			
		Note: Includes clevis and strain clamp.			
26 05 46 00-0065	EA	5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp		223.69	103.98
26 05 46 00-0066	EA	15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp		239.02	103.98
26 05 46 00-0067	EA	25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp		337.06	129.97
26 05 46 00-0068	EA	50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp		536.35	207.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0069		**Spool Insulator With Clevis** *(26 05 46 00-0060)*		
26 05 46 00-0070	EA	5 KV Class 53-5, Spool Insulator With Clevis	74.47	32.49
26 05 46 00-0071	EA	15 KV Class, Spool Insulator With Clevis	239.37	116.97
26 05 46 00-0072	EA	25 KV Class, Spool Insulator With Clevis	310.28	116.97
26 05 46 00-0073		**Secondary Rack** *(26 05 46 00-0060)*		
26 05 46 00-0074	EA	1 Spool Secondary Rack	147.86	64.98
26 05 46 00-0075	EA	2 Spool Secondary Rack	152.80	82.93
26 05 46 00-0076	EA	3 Spool Secondary Rack	228.73	110.47
26 05 46 00-0077	EA	4 Spool Secondary Rack	256.83	110.47
26 05 46 00-0078		**Outdoor Load Break Switches** *(26 05 46)* Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
26 05 46 00-0079		**7.2 KV Outdoor Load Break Switches** *(26 05 46 00-0078)*		
26 05 46 00-0080	EA	600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,810.81	441.91
26 05 46 00-0081	EA	1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	11,604.30	441.91
26 05 46 00-0082	EA	1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,304.46	747.35
26 05 46 00-0083	EA	2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,573.20	747.35
26 05 46 00-0084		**14.4 KV Outdoor Load Break Switches** *(26 05 46 00-0078)*		
26 05 46 00-0085	EA	600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	7,161.09	441.91
26 05 46 00-0086	EA	1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	13,771.32	441.91
26 05 46 00-0087	EA	1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,304.46	747.35
26 05 46 00-0088	EA	2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,573.20	747.35
26 05 46 00-0089		**23 KV Outdoor Load Break Switches** *(26 05 46 00-0078)*		
26 05 46 00-0090	EA	600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	7,878.96	513.39
26 05 46 00-0091	EA	1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,054.41	513.39
26 05 46 00-0092	EA	1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	18,011.93	883.81
26 05 46 00-0093	EA	2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	18,289.50	883.81
26 05 46 00-0094		**Square Distribution Poles** *(26 05 46)*		
26 05 46 00-0095		**Square Steel Tapered Shaft Distribution Poles** *(26 05 46 00-0094)*		
26 05 46 00-0096	EA	20', Steel Taped Shaft Distribution Pole	3,871.81	552.39
26 05 46 00-0097	EA	25', Steel Taped Shaft Distribution Pole	4,327.86	584.88
26 05 46 00-0098	EA	30', Steel Taped Shaft Distribution Pole	4,689.38	649.87
26 05 46 00-0099	EA	35', Steel Taped Shaft Distribution Pole	5,191.13	714.85
26 05 46 00-0100	EA	40', Steel Taped Shaft Distribution Pole	7,119.71	779.84
26 05 46 00-0101		**Square Prestressed Concrete Distribution Poles** *(26 05 46 00-0094)*		
26 05 46 00-0102	EA	30', Prestressed Concrete Square Pole For Distribution	5,329.17	977.89
26 05 46 00-0103	EA	35', Prestressed Concrete Square Pole For Distribution	6,042.22	1,072.53
26 05 46 00-0104	EA	40', Prestressed Concrete Square Pole For Distribution	7,107.01	1,198.70
26 05 46 00-0105	EA	45', Prestressed Concrete Square Pole For Distribution	8,012.82	1,324.88
26 05 46 00-0106	EA	50', Prestressed Concrete Square Pole For Distribution	5,797.25	1,608.79
26 05 46 00-0107	EA	55', Prestressed Concrete Square Pole For Distribution	11,306.54	1,892.69
26 05 46 00-0108	EA	60', Prestressed Concrete Square Pole For Distribution	13,361.51	2,145.05
26 05 46 00-0109	EA	65', Prestressed Concrete Square Pole For Distribution	16,114.19	2,649.77
26 05 46 00-0110	EA	70', Prestressed Concrete Square Pole For Distribution	18,062.76	2,902.13
26 05 46 00-0111		**Aluminum Tapered Poles** *(26 05 46)*		
26 05 46 00-0112		**Aluminum Tapered Round Seamless Shaft Poles** *(26 05 46 00-0111)*		
26 05 46 00-0113	EA	20', Aluminum Tapered Round Seamless Shaft Pole For Distribution	3,744.53	487.40
26 05 46 00-0114	EA	25', Aluminum Tapered Round Seamless Shaft Pole For Distribution	5,283.10	519.89
26 05 46 00-0115	EA	30', Aluminum Tapered Round Seamless Shaft Pole For Distribution	6,081.54	584.88
26 05 46 00-0116	EA	35', Aluminum Tapered Round Seamless Shaft Pole For Distribution	7,234.87	649.87
26 05 46 00-0117	EA	40', Aluminum Tapered Round Seamless Shaft Pole For Distribution	11,076.79	714.85
26 05 46 00-0118		**Steel Service Poles Distribution** *(26 05 46)* Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0119		**Round Tapered Pole** *(26 05 46 00-0118)*		
26 05 46 00-0120	EA	40', Galvanized Steel Tapered Round Pole For Distribution	5,171.41	779.84
26 05 46 00-0121	EA	45', Galvanized Steel Tapered Round Pole For Distribution	6,030.87	844.82
26 05 46 00-0122	EA	50', Galvanized Steel Tapered Round Pole For Distribution	6,422.34	909.82
26 05 46 00-0123	EA	55', Galvanized Steel Tapered Round Pole For Distribution	7,573.63	1,039.79
26 05 46 00-0124	EA	60', Galvanized Steel Tapered Round Pole For Distribution	9,405.64	1,169.76
26 05 46 00-0125	EA	65', Galvanized Steel Tapered Round Pole For Distribution	11,071.27	1,482.61

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0126	EA	70', Galvanized Steel Tapered Round Pole For Distribution	12,312.26	1,681.98
26 05 46 00-0127	EA	75', Galvanized Steel Tapered Round Pole For Distribution	13,600.97	1,892.69
26 05 46 00-0128	EA	80', Galvanized Steel Tapered Round Pole For Distribution	15,246.24	2,145.05
26 05 46 00-0129	EA	85', Galvanized Steel Tapered Round Pole For Distribution	16,297.62	2,271.23
26 05 46 00-0130	EA	90', Galvanized Steel Tapered Round Pole For Distribution	17,660.69	2,523.59
26 05 46 00-0131	EA	95', Galvanized Steel Tapered Round Pole For Distribution	19,432.95	2,839.04
26 05 46 00-0132	EA	100', Galvanized Steel Tapered Round Pole For Distribution	21,405.48	3,217.58
26 05 46 00-0133		12 Sided Tapered *(26 05 46 00-0118)*		
26 05 46 00-0134	EA	40', Galvanized Steel Tapered 12 Sided Pole For Distribution	9,043.29	779.84
26 05 46 00-0135	EA	45', Galvanized Steel Tapered 12 Sided Pole For Distribution	9,986.63	844.82
26 05 46 00-0136	EA	50', Galvanized Steel Tapered 12 Sided Pole For Distribution	11,068.78	909.82
26 05 46 00-0137	EA	55', Galvanized Steel Tapered 12 Sided Pole For Distribution	12,146.73	1,039.79
26 05 46 00-0138	EA	60', Galvanized Steel Tapered 12 Sided Pole For Distribution	16,218.25	1,169.76
26 05 46 00-0139	EA	65', Galvanized Steel Tapered 12 Sided Pole For Distribution	17,925.78	1,482.61
26 05 46 00-0140	EA	70', Galvanized Steel Tapered 12 Sided Pole For Distribution	20,778.31	1,681.98
26 05 46 00-0141	EA	75', Galvanized Steel Tapered 12 Sided Pole For Distribution	22,333.86	1,892.69
26 05 46 00-0142	EA	80', Galvanized Steel Tapered 12 Sided Pole For Distribution	23,968.18	2,145.05
26 05 46 00-0143	EA	85', Galvanized Steel Tapered 12 Sided Pole For Distribution	25,391.63	2,271.23
26 05 46 00-0144	EA	90', Galvanized Steel Tapered 12 Sided Pole For Distribution	28,842.36	2,523.59
26 05 46 00-0145	EA	95', Galvanized Steel Tapered 12 Sided Pole For Distribution	30,583.29	2,839.04
26 05 46 00-0146	EA	100', Galvanized Steel Tapered 12 Sided Pole For Distribution	32,629.03	3,217.58
26 05 46 00-0147	EA	105', Galvanized Steel Tapered 12 Sided Pole For Distribution	34,825.15	3,596.11
26 05 46 00-0148		Standard Options For Round, 12 Sided and Octagonal Tapered Poles *(26 05 46 00-0118)*		
26 05 46 00-0149	EA	Ladder Clips	28.71	
26 05 46 00-0150	EA	Coal Tar Epoxy Coating From Base To 1' Above Ground Line	215.46	
26 05 46 00-0151	EA	Ground Sleeve-2' At Ground Line	216.71	
26 05 46 00-0152		Arms With Baseplates And Endplates *(26 05 46 00-0118)*		
26 05 46 00-0153	EA	4' Arm With Baseplate And Endplate	830.82	129.97
26 05 46 00-0154	EA	5' Arm With Baseplate And Endplate	908.23	129.97
26 05 46 00-0155	EA	6' Arm With Baseplate And Endplate	1,116.63	194.96
26 05 46 00-0156	EA	7' Arm With Baseplate And Endplate	1,184.33	194.96
26 05 46 00-0157	EA	8' Arm With Baseplate And Endplate	1,390.73	259.95
26 05 46 00-0158	EA	9' Arm With Baseplate And Endplate	1,468.09	259.95
26 05 46 00-0159	EA	10' Arm With Baseplate And Endplate	1,956.12	324.93
26 05 46 00-0160	EA	11' Arm With Baseplate And Endplate	2,042.97	324.93
26 05 46 00-0161		Standard Vangs Load Bearing At Any Angle *(26 05 46 00-0118)*		
26 05 46 00-0162	EA	15,000 Lb. Standard Vangs Load Bearing At Any Angle	323.79	129.97
26 05 46 00-0163	EA	30,000 Lb. Standard Vangs Load Bearing At Any Angle	371.21	129.97
26 05 46 00-0164	EA	45,000 Lb. Standard Vangs Load Bearing At Any Angle	436.06	129.97
26 05 46 00-0165		Armless Construction Brackets *(26 05 46 00-0118)*		
26 05 46 00-0166		Verticals Insulator And Equipment Bracket *(26 05 46 00-0165)*		
26 05 46 00-0167	EA	7" 1 Position Vertical Insulation And Equipment Bracket	331.52	129.97
26 05 46 00-0168	EA	12" 1 Position Vertical Insulation And Equipment Bracket	361.46	129.97
26 05 46 00-0169	EA	12" 3 Position Vertical Insulation And Equipment Bracket	410.11	129.97
26 05 46 00-0170	EA	18" 1 Position Vertical Insulation And Equipment Bracket	571.66	194.96
26 05 46 00-0171	EA	18" 3 Position Vertical Insulation And Equipment Bracket	600.07	194.96
26 05 46 00-0172		Horizontal And Multiple Insulator Brackets *(26 05 46 00-0165)*		
26 05 46 00-0173	EA	Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets	308.20	129.97
26 05 46 00-0174	EA	Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets	371.12	129.97
26 05 46 00-0175	EA	Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets	541.19	194.96
26 05 46 00-0176	EA	Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets	689.68	194.96
26 05 46 00-0177	EA	Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets	881.77	259.95
26 05 46 00-0178	EA	Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets	960.58	259.95
26 05 46 00-0179		Pole Top Bracket And Pins *(26 05 46 00-0165)*		
26 05 46 00-0180	EA	Pole Top Pin - 5"	317.34	129.97
26 05 46 00-0181	EA	Pole Top Bracket - 5"	332.61	129.97
26 05 46 00-0182		Angle Pins *(26 05 46 00-0165)*		
26 05 46 00-0183	EA	Angle Pin - 25 Degree, 6"	315.27	129.97
26 05 46 00-0184	EA	Angle Pin - 25 Degree, 7 1/4"	364.89	129.97
26 05 46 00-0185		Static And Neutral Wire Brackets *(26 05 46 00-0165)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0186	EA	Neutral Wire Extension Bracket	336.86	129.97
26 05 46 00-0187	EA	Static Wire Support Bracket	342.37	129.97
26 05 46 00-0188		**Cutout, Arrestor And Terminator Brackets** *(26 05 46 00-0165)*		
26 05 46 00-0189	EA	Cutout And Arrestor, With Mounting Bracket	302.69	129.97
26 05 46 00-0190	EA	Equipment Mounting T Bracket	330.67	129.97
26 05 46 00-0191	EA	15 KV Cutout	458.70	
26 05 46 00-0192	EA	9/10 KV Arrestor	419.35	129.97
26 05 46 00-0193		**Spacer Cable, Conduit Support And Cluster Bracket** *(26 05 46 00-0165)*		
26 05 46 00-0194	EA	Parallel Cable Spacer	376.44	129.97
26 05 46 00-0195	EA	Conduit Standoff Support Bracket	358.84	129.97
26 05 46 00-0196	EA	Three Transformer Pole Mounted Cluster Bracket	969.15	129.97
26 05 46 00-0197		**15 KV, 200 Amperes, Solenoid Operated High Voltage Switch** *(26 05 46 00-0165)*		
		Note: Includes pole mounting bracket.		
26 05 46 00-0198	EA	15 KV, 1 Phase, Solenoid Switch With Pole Bracket	2,383.55	324.93
26 05 46 00-0199		**Octagonal Tapered** *(26 05 46 00-0118)*		
26 05 46 00-0200	EA	40', Galvanized Steel Tapered Octagonal Pole For Distribution	9,331.06	779.84
26 05 46 00-0201	EA	45', Galvanized Steel Tapered Octagonal Pole For Distribution	10,305.81	844.82
26 05 46 00-0202	EA	50', Galvanized Steel Tapered Octagonal Pole For Distribution	11,424.59	909.82
26 05 46 00-0203	EA	55', Galvanized Steel Tapered Octagonal Pole For Distribution	12,533.93	1,104.77
26 05 46 00-0204	EA	60', Galvanized Steel Tapered Octagonal Pole For Distribution	16,751.95	1,169.76
26 05 46 00-0205	EA	65', Galvanized Steel Tapered Octagonal Pole For Distribution	18,501.34	1,482.61
26 05 46 00-0206	EA	70', Galvanized Steel Tapered Octagonal Pole For Distribution	21,448.06	1,577.25
26 05 46 00-0207	EA	75', Galvanized Steel Tapered Octagonal Pole For Distribution	23,048.09	1,892.69
26 05 46 00-0208	EA	80', Galvanized Steel Tapered Octagonal Pole For Distribution	24,724.25	2,018.87
26 05 46 00-0209	EA	85', Galvanized Steel Tapered Octagonal Pole For Distribution	26,192.19	2,271.23
26 05 46 00-0210	EA	90', Galvanized Steel Tapered Octagonal Pole For Distribution	29,755.42	2,397.41
26 05 46 00-0211	EA	95', Galvanized Steel Tapered Octagonal Pole For Distribution	31,543.45	2,839.04
26 05 46 00-0212	EA	100', Galvanized Steel Tapered Octagonal Pole For Distribution	33,636.27	3,028.31
26 05 46 00-0213	EA	105', Galvanized Steel Tapered Octagonal Pole For Distribution	35,884.72	3,406.85
26 05 46 00-0214		**Removal And Relocation Of Steel Service Poles** *(26 05 46 00-0118)*		
26 05 46 00-0215	LF	Removal And Relocation Of Steel Service Poles With Arms Up To 60'	45.48	
26 05 46 00-0216		**Special Steel Bases For Poles** *(26 05 46 00-0118)*		
26 05 46 00-0217	EA	Spin-In Steel Base For Poles	287.15	
26 05 46 00-0218	EA	Series 3, 25' Pole And less	320.31	64.98
26 05 46 00-0219	EA	Series 4, 40' Pole And less	382.11	74.73
26 05 46 00-0220	EA	Series 5, 50' Pole And less	437.40	81.23

26 05 53 Identification for Electrical Systems *(26 05)*

26 05 53 00-0001		**Conduit Markers Pressure-Sensitive** *(26 05 53)*		
		Note: Stick-on, includes arrow tape.		
26 05 53 00-0002	EA	1/2" Outside Diameter Pressure Sensitive Marker Stick-on	13.40	
26 05 53 00-0003	EA	3/4" Outside Diameter Pressure Sensitive Marker Stick-on	13.96	
26 05 53 00-0004	EA	1" Outside Diameter Pressure Sensitive Marker Stick-on	15.11	
26 05 53 00-0005	EA	1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on	15.33	
26 05 53 00-0006	EA	1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	15.55	
26 05 53 00-0007	EA	2" Outside Diameter Pressure Sensitive Marker Stick-on	15.89	
26 05 53 00-0008	EA	2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	19.05	
26 05 53 00-0009	EA	3" Outside Diameter Pressure Sensitive Marker Stick-on	19.50	
26 05 53 00-0010	EA	3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	19.83	
26 05 53 00-0011	EA	4" Outside Diameter Pressure Sensitive Marker Stick-on	20.18	
26 05 53 00-0012	EA	4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	20.89	
26 05 53 00-0013	EA	5" Outside Diameter Pressure Sensitive Marker Stick-on	21.64	
26 05 53 00-0014	EA	6" Outside Diameter Pressure Sensitive Marker Stick-on	22.31	
26 05 53 00-0015	EA	7" Outside Diameter Pressure Sensitive Marker Stick-on	22.98	
26 05 53 00-0016	EA	8" Outside Diameter Pressure Sensitive Marker Stick-on	25.49	
26 05 53 00-0017	EA	10" Outside Diameter Pressure Sensitive Marker Stick-on	26.72	
26 05 53 00-0018		**Labeling Existing Electrical Wires** *(26 05 53)*		
		Note: Self-adhesive vinyl coated white cloth		
26 05 53 00-0019	EA	Labeling Existing Wire	3.52	
26 05 53 00-0020		**Equipment Labeling** *(26 05 53)*		
26 05 53 00-0021	EA	Label Both Ends Of One 4 Pair Cable	12.68	
26 05 53 00-0022	EA	Label single gang face plate (2 labels required)	11.93	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 53 00-0023	EA	Label two gang face plate (4 labels required)	17.16	
26 05 53 00-0024	EA	Label both ends of a Siamese (dual 4 Pair cable)	12.68	

26 05 83 Wiring Connections *(26 05)*

26 05 83 00-0001 Tape Wrapped Compression Connectors *(26 05 83)*

26 05 83 00-0002	EA	#6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	16.12	5.07
26 05 83 00-0003	EA	#4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	17.77	5.64
26 05 83 00-0004	EA	#2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	19.41	6.20
26 05 83 00-0005	EA	1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	22.66	6.77
26 05 83 00-0006	EA	2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	24.36	7.33
26 05 83 00-0007	EA	3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	27.12	7.90
26 05 83 00-0008	EA	4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	29.10	8.46
26 05 83 00-0009	EA	250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	31.76	9.02
26 05 83 00-0010	EA	300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	35.11	10.15
26 05 83 00-0011	EA	350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	36.78	10.72
26 05 83 00-0012	EA	400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	41.30	11.28
26 05 83 00-0013	EA	500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	45.19	11.85
26 05 83 00-0014	EA	750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	50.64	12.97
26 05 83 00-0015	EA	1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	58.97	14.66

26 05 83 00-0016 One Hole Compression Lugs *(26 05 83)*

26 05 83 00-0017	EA	#22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	19.92	14.66
26 05 83 00-0018	EA	#16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	20.10	14.66
26 05 83 00-0019	EA	#12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	22.79	15.79
26 05 83 00-0020	EA	#8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	28.67	17.48
26 05 83 00-0021	EA	#6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	40.01	22.56
26 05 83 00-0022	EA	#4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	46.51	22.56
26 05 83 00-0023	EA	#2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	53.54	22.56
26 05 83 00-0024	EA	1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	65.64	33.84
26 05 83 00-0025	EA	2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	76.66	33.84
26 05 83 00-0026	EA	3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	89.62	33.84
26 05 83 00-0027	EA	4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	107.92	45.12
26 05 83 00-0028	EA	250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	127.93	67.68
26 05 83 00-0029	EA	300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	146.40	67.68
26 05 83 00-0030	EA	350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	157.23	67.68
26 05 83 00-0031	EA	400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	171.53	78.96
26 05 83 00-0032	EA	500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	187.66	78.96
26 05 83 00-0033	EA	750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	203.80	90.24
26 05 83 00-0034	EA	1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	241.15	101.52

26 05 83 00-0035 Two Hole Compression Lugs *(26 05 83)*

26 05 83 00-0036	EA	#8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	40.91	19.18
26 05 83 00-0037	EA	#6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	44.07	20.42
26 05 83 00-0038	EA	#4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	46.30	20.42
26 05 83 00-0039	EA	#2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	53.29	23.47
26 05 83 00-0040	EA	1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	65.38	29.33
26 05 83 00-0041	EA	2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	76.39	34.85
26 05 83 00-0042	EA	3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	89.32	40.84
26 05 83 00-0043	EA	4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	107.58	49.52
26 05 83 00-0044	EA	250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	127.54	58.77
26 05 83 00-0045	EA	300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	145.94	67.12
26 05 83 00-0046	EA	350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	156.75	72.30
26 05 83 00-0047	EA	400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	170.96	78.29
26 05 83 00-0048	EA	500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	187.03	85.50
26 05 83 00-0049	EA	750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	204.81	92.72
26 05 83 00-0050	EA	1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	254.85	112.80

26 05 83 00-0051 Tape Wrapped Split Bolt Connectors *(26 05 83)*

26 05 83 00-0052	EA	#8 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	60.29	45.12
26 05 83 00-0053	EA	#6 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	66.29	48.51
26 05 83 00-0054	EA	#4 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	75.64	50.76
26 05 83 00-0055	EA	#2 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	88.23	56.40
26 05 83 00-0056	EA	1/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	104.58	62.04
26 05 83 00-0057	EA	2/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	118.59	67.68
26 05 83 00-0058	EA	3/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	148.71	73.32
26 05 83 00-0059	EA	4/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	159.62	78.96
26 05 83 00-0060	EA	250 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	168.40	84.60
26 05 83 00-0061	EA	300 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	194.08	93.06
26 05 83 00-0062	EA	350 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	219.77	135.36
26 05 83 00-0063	EA	400 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	241.41	112.80
26 05 83 00-0064	EA	500 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	263.05	152.28
26 05 83 00-0065	EA	750 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	295.37	157.93
26 05 83 00-0066	EA	1,000 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	338.14	169.20

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0067		**Cable Termination Lugs Handwrapped, No Stress Cone** *(26 05 83)*		
26 05 83 00-0068	EA	#8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	104.51	45.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*23.69*	
26 05 83 00-0069	EA	#4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	115.71	45.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*26.86*	
26 05 83 00-0070	EA	1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	159.74	67.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*37.60*	
26 05 83 00-0071	EA	4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	180.56	67.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*43.38*	
26 05 83 00-0072	EA	300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	216.77	84.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*51.27*	
26 05 83 00-0073	EA	500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	304.23	112.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*70.50*	
26 05 83 00-0074		**Terminal Blocks** *(26 05 83)*		
		Note: Labor excludes wire termination.		
26 05 83 00-0075	EA	Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt	1,044.39	417.36
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*250.67*	
26 05 83 00-0076	EA	#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block	302.26	56.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*34.23*	
26 05 83 00-0077	EA	#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block	337.13	56.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*34.59*	
26 05 83 00-0078		**Parallel Gutter Tap Or Motor Connection** *(26 05 83)*		
26 05 83 00-0079	EA	#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	40.90	20.42
26 05 83 00-0080	EA	#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	44.07	20.42
26 05 83 00-0081	EA	#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	46.30	20.42
26 05 83 00-0082	EA	#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	53.29	23.47
26 05 83 00-0083	EA	1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	65.38	29.33
26 05 83 00-0084	EA	2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	76.39	34.85
26 05 83 00-0085	EA	3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	89.32	40.84
26 05 83 00-0086	EA	4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	107.58	49.52
26 05 83 00-0087	EA	250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	127.53	58.77
26 05 83 00-0088	EA	300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	145.94	67.12
26 05 83 00-0089	EA	350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	156.76	72.30
26 05 83 00-0090	EA	400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	170.96	78.29
26 05 83 00-0091	EA	500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	187.03	85.50
26 05 83 00-0092	EA	750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	187.60	85.50
26 05 83 00-0093	EA	#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover	40.90	20.42
26 05 83 00-0094	EA	#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover	44.07	20.42
26 05 83 00-0095	EA	#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover	46.30	20.42
26 05 83 00-0096	EA	#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover	53.29	23.47
26 05 83 00-0097	EA	1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	65.38	29.33
26 05 83 00-0098	EA	2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	76.39	34.85
26 05 83 00-0099	EA	3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	89.32	40.84
26 05 83 00-0100	EA	4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	107.58	49.52
26 05 83 00-0101	EA	250 MCM Parallel Gutter Tap, Versitap, Insulating Cover	127.53	58.77
26 05 83 00-0102	EA	300 MCM Parallel Gutter Tap, Versitap, Insulating Cover	145.94	67.12
26 05 83 00-0103	EA	350 MCM Parallel Gutter Tap, Versitap, Insulating Cover	156.76	72.30
26 05 83 00-0104	EA	400 MCM Parallel Gutter Tap, Versitap, Insulating Cover	170.96	78.29
26 05 83 00-0105	EA	500 MCM Parallel Gutter Tap, Versitap, Insulating Cover	187.03	85.50
26 05 83 00-0106	EA	750 MCM Parallel Gutter Tap, Versitap, Insulating Cover	187.60	85.50
26 05 83 00-0107		**Copper Mechanical Lugs** *(26 05 83)*		
26 05 83 00-0108	EA	#8 Copper Mechanical Lugs	33.26	14.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*8.46*	
26 05 83 00-0109	EA	#6 Copper Mechanical Lugs	39.85	17.03
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*10.22*	
26 05 83 00-0110	EA	#4 Copper Mechanical Lugs	46.00	19.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*11.84*	
26 05 83 00-0111	EA	#2 Copper Mechanical Lugs	60.62	25.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*15.11*	
26 05 83 00-0112	EA	1/0 Copper Mechanical Lugs	81.67	33.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*20.30*	
26 05 83 00-0113	EA	2/0 Copper Mechanical Lugs	98.04	39.25
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*23.59*	
26 05 83 00-0114	EA	3/0 Copper Mechanical Lugs	115.18	45.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*27.07*	
26 05 83 00-0115	EA	4/0 Copper Mechanical Lugs	131.59	50.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*30.36*	
26 05 83 00-0116	EA	250 MCM Copper Mechanical Lugs	151.68	56.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*33.84*	
26 05 83 00-0117	EA	300 MCM Copper Mechanical Lugs	171.49	62.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*37.24*	
26 05 83 00-0118	EA	350 MCM Copper Mechanical Lugs	191.24	67.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*40.61*	
26 05 83 00-0119	EA	400 MCM Copper Mechanical Lugs	210.85	73.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*43.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0120	EA	500 MCM Copper Mechanical Lugs	230.77	78.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*47.38*	
26 05 83 00-0121	EA	750 MCM Copper Mechanical Lugs	261.23	89.90
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*53.97*	
26 05 83 00-0122	EA	1,000 MCM Copper Mechanical Lugs	295.96	101.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*60.91*	

26 05 83 00-0123 Gel Connectors *(26 05 83)*

26 05 83 00-0124	EA	3 Port, #14 to 2/0, Push On Gel Stub Splice Kit Note: Kit contains connector, gel filled cap and cap clamp.	69.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.39*	
26 05 83 00-0125	EA	4 Port, #14 to 2, Gel Tap Splice Kit	66.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*4.07*	

26 05 83 00-0126 Other Connections *(26 05 83)*

26 05 83 00-0127	EA	#14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	11.49	5.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.09*	
26 05 83 00-0128	EA	#12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	11.61	5.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.09*	
26 05 83 00-0129	EA	#10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	11.73	5.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	*3.09*	

26 05 83 00-0130 Motor/Equipment Connections And Terminations *(26 05 83)*

Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors.

26 05 83 00-0131 AC Single Phase, 230 Volt *(26 05 83 00-0130)*

26 05 83 00-0132	EA	<1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	75.20	28.20
26 05 83 00-0133	EA	1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	74.57	28.20
26 05 83 00-0134	EA	3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	86.61	33.84
26 05 83 00-0135	EA	1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	104.92	42.30
26 05 83 00-0136	EA	1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	106.18	42.30
26 05 83 00-0137	EA	2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	106.43	42.30
26 05 83 00-0138	EA	3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	110.59	42.30
26 05 83 00-0139	EA	5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	139.30	56.40
26 05 83 00-0140	EA	7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	143.97	56.40
26 05 83 00-0141	EA	10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	182.64	70.50

26 05 83 00-0142 AC Three Phase, 230 Volt *(26 05 83 00-0130)*

26 05 83 00-0143	EA	1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	74.57	28.20
26 05 83 00-0144	EA	3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	86.61	33.84
26 05 83 00-0145	EA	1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	104.92	42.30
26 05 83 00-0146	EA	1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	106.18	42.30
26 05 83 00-0147	EA	2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	106.43	42.30
26 05 83 00-0148	EA	3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	110.59	42.30
26 05 83 00-0149	EA	5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	139.30	56.40
26 05 83 00-0150	EA	7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	143.97	56.40
26 05 83 00-0151	EA	10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	182.64	70.50
26 05 83 00-0152	EA	15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	188.95	70.50
26 05 83 00-0153	EA	20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	242.00	84.60
26 05 83 00-0154	EA	25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	251.61	84.60
26 05 83 00-0155	EA	30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	345.48	112.80
26 05 83 00-0156	EA	40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	433.43	141.00
26 05 83 00-0157	EA	50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	508.26	169.20
26 05 83 00-0158	EA	60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	608.30	197.40
26 05 83 00-0159	EA	75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	700.30	225.60
26 05 83 00-0160	EA	100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	867.48	282.00
26 05 83 00-0161	EA	125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	1,022.42	335.58
26 05 83 00-0162	EA	150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	1,215.85	391.42
26 05 83 00-0163	EA	200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	1,708.43	587.01

26 05 83 00-0164 AC Three Phase, 460 Volt *(26 05 83 00-0130)*

26 05 83 00-0165	EA	1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	74.57	28.20
26 05 83 00-0166	EA	3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	86.61	33.84
26 05 83 00-0167	EA	1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	104.92	42.30
26 05 83 00-0168	EA	1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	106.18	42.30
26 05 83 00-0169	EA	2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	106.43	42.30
26 05 83 00-0170	EA	3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	110.59	42.30
26 05 83 00-0171	EA	5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	139.30	56.40
26 05 83 00-0172	EA	7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	143.97	56.40
26 05 83 00-0173	EA	10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	182.64	70.50
26 05 83 00-0174	EA	15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	188.95	70.50
26 05 83 00-0175	EA	20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	242.02	84.60
26 05 83 00-0176	EA	25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	251.59	84.60
26 05 83 00-0177	EA	30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	345.48	112.80

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0178	EA	40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	433.77	141.23
26 05 83 00-0179	EA	50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	508.26	169.20
26 05 83 00-0180	EA	60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	608.30	197.40
26 05 83 00-0181	EA	75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	700.30	225.60
26 05 83 00-0182	EA	100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	867.48	282.00
26 05 83 00-0183	EA	125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	1,022.73	335.70
26 05 83 00-0184	EA	150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	1,216.28	391.64
26 05 83 00-0185	EA	200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	1,709.41	587.47
26 05 83 00-0186		**AC Single Phase, 120 Volt** *(26 05 83 00-0130)*		
26 05 83 00-0187	EA	1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing	75.20	28.20
26 05 83 00-0188		**Motor Moisture Sensor** *(26 05 83 00-0130)*		
26 05 83 00-0189	EA	Motor Moisture Sensor Located In Winding	865.18	

END OF SECTION 26

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 Earthwork

31 01 Maintenance of Earthwork *(31)*

31 01 20 Maintenance of Earth Moving *(31 01)*

31 01 20 00-0001 Rip Settling Basins *(31 01 20)*

Note: Rip through light soil and sand in settling basin. 8' on center (machine width).

31 01 20 00-0002	ACR	Rip Light Soil And Sand, By Dozer	780.46
31 01 20 00-0003	ACR	Rip Light Soil And Sand, By Grader With Rear Ripper	1,194.03
31 01 20 00-0004	ACR	Rip Light Soil And Sand, By Rubber Tire Front End Loader	1,034.55

31 05 Common Work Results for Earthwork *(31)*

31 05 13 Soils for Earthwork *(31 05)*

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 05 13 00-0001 Fill Material (Loose, Purchased Material) *(31 05 13)*

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 05 13 00-0002	CY	Bank Run/Fill Sand	40.42
		For Up To 8, Add	*8.08*
		For >8 To 16, Add	*4.04*
		For >48 To 64, Deduct	*-3.01*
		For >64 To 96, Deduct	*-5.03*
		For >96 To 168, Deduct	*-7.05*
		For >168 To 240, Deduct	*-8.56*
		For >240, Deduct	*-10.06*
31 05 13 00-0003	CY	Screened/Washed Filter/Septic Sand	52.04
		For Up To 8, Add	*10.41*
		For >8 To 16, Add	*5.20*
		For >48 To 64, Deduct	*-3.59*
		For >64 To 96, Deduct	*-6.19*
		For >96 To 168, Deduct	*-8.80*
		For >168 To 240, Deduct	*-10.59*
		For >240, Deduct	*-12.39*
31 05 13 00-0004	CY	3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	67.25
		For Up To 8, Add	*13.45*
		For >8 To 16, Add	*6.73*
		For >48 To 64, Deduct	*-4.35*
		For >64 To 96, Deduct	*-7.72*
		For >96 To 168, Deduct	*-11.08*
		For >168 To 240, Deduct	*-13.25*
		For >240, Deduct	*-15.43*
31 05 13 00-0005	CY	3/16" Minus, Screened/Washed Concrete Sand	58.20
		For Up To 8, Add	*11.64*
		For >8 To 16, Add	*5.82*
		For >48 To 64, Deduct	*-3.90*
		For >64 To 96, Deduct	*-6.81*
		For >96 To 168, Deduct	*-9.72*
		For >168 To 240, Deduct	*-11.67*
		For >240, Deduct	*-13.62*
31 05 13 00-0006	CY	3/32" Minus, Screened/Washed Masonry/Mortar Sand	102.30
		For Up To 8, Add	*20.46*
		For >8 To 16, Add	*10.23*
		For >48 To 64, Deduct	*-6.11*
		For >64 To 96, Deduct	*-11.22*
		For >96 To 168, Deduct	*-16.34*
		For >168 To 240, Deduct	*-19.39*
		For >240, Deduct	*-22.44*
31 05 13 00-0007	CY	Common Fill, Native Soil/Dirt	44.18
		For Up To 8, Add	*8.84*
		For >8 To 16, Add	*4.42*
		For >48 To 64, Deduct	*-3.20*
		For >64 To 96, Deduct	*-5.41*
		For >96 To 168, Deduct	*-7.62*
		For >168 To 240, Deduct	*-9.22*
		For >240, Deduct	*-10.82*
31 05 13 00-0008	CY	Lime Rock Screening	41.66
		For Up To 8, Add	*8.33*
		For >8 To 16, Add	*4.17*
		For >48 To 64, Deduct	*-3.07*
		For >64 To 96, Deduct	*-5.16*
		For >96 To 168, Deduct	*-7.24*
		For >168 To 240, Deduct	*-8.78*
		For >240, Deduct	*-10.31*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0009	CY	Crushed Lime Rock Maximum 3-1/2"	41.66	
		For Up To 8, Add	*8.33*	
		For >8 To 16, Add	*4.17*	
		For >48 To 64, Deduct	*-3.07*	
		For >64 To 96, Deduct	*-5.16*	
		For >96 To 168, Deduct	*-7.24*	
		For >168 To 240, Deduct	*-8.78*	
		For >240, Deduct	*-10.31*	
31 05 13 00-0010	CY	Sand/Clay	42.22	
		For Up To 8, Add	*8.44*	
		For >8 To 16, Add	*4.22*	
		For >48 To 64, Deduct	*-3.10*	
		For >64 To 96, Deduct	*-5.21*	
		For >96 To 168, Deduct	*-7.32*	
		For >168 To 240, Deduct	*-8.87*	
		For >240, Deduct	*-10.42*	
31 05 13 00-0011	CY	Recycled Concrete Aggregate	37.86	
		For Up To 8, Add	*7.57*	
		For >8 To 16, Add	*3.79*	
		For >48 To 64, Deduct	*-2.88*	
		For >64 To 96, Deduct	*-4.78*	
		For >96 To 168, Deduct	*-6.67*	
		For >168 To 240, Deduct	*-8.11*	
		For >240, Deduct	*-9.55*	
31 05 13 00-0012	CY	Pit Run Clay	55.33	
		For Up To 8, Add	*11.07*	
		For >8 To 16, Add	*5.53*	
		For >48 To 64, Deduct	*-3.76*	
		For >64 To 96, Deduct	*-6.52*	
		For >96 To 168, Deduct	*-9.29*	
		For >168 To 240, Deduct	*-11.17*	
		For >240, Deduct	*-13.05*	
31 05 13 00-0013	CY	Light Clay / Loam	51.09	
		For Up To 8, Add	*10.22*	
		For >8 To 16, Add	*5.11*	
		For >48 To 64, Deduct	*-3.54*	
		For >64 To 96, Deduct	*-6.10*	
		For >96 To 168, Deduct	*-8.65*	
		For >168 To 240, Deduct	*-10.43*	
		For >240, Deduct	*-12.20*	
31 05 13 00-0014	CY	Heavy Clay	61.60	
		For Up To 8, Add	*12.32*	
		For >8 To 16, Add	*6.16*	
		For >48 To 64, Deduct	*-4.07*	
		For >64 To 96, Deduct	*-7.15*	
		For >96 To 168, Deduct	*-10.23*	
		For >168 To 240, Deduct	*-12.27*	
		For >240, Deduct	*-14.30*	

31 05 16 Aggregates for Earthwork *(31 05)*

See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 05 16 00-0001 Aggregate (Loose, Purchased Material) *(31 05 16)*

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 05 16 00-0002	CY	#2 (1-1/2" To 2-1/2" Clean) Stone Aggregate Fill	54.09	
		For Up To 8, Add	*10.82*	
		For >8 To 16, Add	*5.41*	
		For >48 To 64, Deduct	*-3.69*	
		For >64 To 96, Deduct	*-6.40*	
		For >96 To 168, Deduct	*-9.10*	
		For >168 To 240, Deduct	*-10.95*	
		For >240, Deduct	*-12.80*	
31 05 16 00-0003	CY	#3 (1" To 2" Clean) Stone Aggregate Fill	56.10	
		For Up To 8, Add	*11.22*	
		For >8 To 16, Add	*5.61*	
		For >48 To 64, Deduct	*-3.80*	
		For >64 To 96, Deduct	*-6.60*	
		For >96 To 168, Deduct	*-9.41*	
		For >168 To 240, Deduct	*-11.30*	
		For >240, Deduct	*-13.20*	
31 05 16 00-0004	CY	#4 (3/4" To 1-1/2" Clean) Stone Aggregate Fill	54.09	
		For Up To 8, Add	*10.82*	
		For >8 To 16, Add	*5.41*	
		For >48 To 64, Deduct	*-3.69*	
		For >64 To 96, Deduct	*-6.40*	
		For >96 To 168, Deduct	*-9.10*	
		For >168 To 240, Deduct	*-10.95*	
		For >240, Deduct	*-12.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0005	CY	#5 (1/2" To 1" Clean) Stone Aggregate Fill	57.56	
		For Up To 8, Add	*11.51*	
		For >8 To 16, Add	*5.76*	
		For >48 To 64, Deduct	*-3.87*	
		For >64 To 96, Deduct	*-6.75*	
		For >96 To 168, Deduct	*-9.62*	
		For >168 To 240, Deduct	*-11.56*	
		For >240, Deduct	*-13.49*	
31 05 16 00-0006	CY	#6 (3/8" To 3/4" Clean) Stone Aggregate Fill	59.60	
		For Up To 8, Add	*11.92*	
		For >8 To 16, Add	*5.96*	
		For >48 To 64, Deduct	*-3.97*	
		For >64 To 96, Deduct	*-6.95*	
		For >96 To 168, Deduct	*-9.93*	
		For >168 To 240, Deduct	*-11.92*	
		For >240, Deduct	*-13.90*	
31 05 16 00-0007	CY	#56 (3/8" To 1") Stone Aggregate Fill	57.88	
		For Up To 8, Add	*11.58*	
		For >8 To 16, Add	*5.79*	
		For >48 To 64, Deduct	*-3.88*	
		For >64 To 96, Deduct	*-6.78*	
		For >96 To 168, Deduct	*-9.67*	
		For >168 To 240, Deduct	*-11.61*	
		For >240, Deduct	*-13.56*	
31 05 16 00-0008	CY	#57 (3/8" To 1") Stone Aggregate Fill	61.44	
		For Up To 8, Add	*12.29*	
		For >8 To 16, Add	*6.14*	
		For >48 To 64, Deduct	*-4.06*	
		For >64 To 96, Deduct	*-7.13*	
		For >96 To 168, Deduct	*-10.21*	
		For >168 To 240, Deduct	*-12.24*	
		For >240, Deduct	*-14.27*	
31 05 16 00-0009	CY	#67 Or #68 (3/16" To 3/4") Stone Aggregate Fill	55.99	
		For Up To 8, Add	*11.20*	
		For >8 To 16, Add	*5.60*	
		For >48 To 64, Deduct	*-3.79*	
		For >64 To 96, Deduct	*-6.59*	
		For >96 To 168, Deduct	*-9.39*	
		For >168 To 240, Deduct	*-11.28*	
		For >240, Deduct	*-13.18*	
31 05 16 00-0010	CY	#7I (3/8" To 1/2") Stone Aggregate Fil	56.98	
		For Up To 8, Add	*11.40*	
		For >8 To 16, Add	*5.70*	
		For >48 To 64, Deduct	*-3.84*	
		For >64 To 96, Deduct	*-6.69*	
		For >96 To 168, Deduct	*-9.54*	
		For >168 To 240, Deduct	*-11.46*	
		For >240, Deduct	*-13.38*	
31 05 16 00-0011	CY	#78 (3/32" To 1/2") Stone Aggregate Fill	57.41	
		For Up To 8, Add	*11.48*	
		For >8 To 16, Add	*5.74*	
		For >48 To 64, Deduct	*-3.86*	
		For >64 To 96, Deduct	*-6.73*	
		For >96 To 168, Deduct	*-9.60*	
		For >168 To 240, Deduct	*-11.53*	
		For >240, Deduct	*-13.46*	
31 05 16 00-0012	CY	#8 (3/32" To 3/8") Stone Aggregate Fill	59.60	
		For Up To 8, Add	*11.92*	
		For >8 To 16, Add	*5.96*	
		For >48 To 64, Deduct	*-3.97*	
		For >64 To 96, Deduct	*-6.95*	
		For >96 To 168, Deduct	*-9.93*	
		For >168 To 240, Deduct	*-11.92*	
		For >240, Deduct	*-13.90*	
31 05 16 00-0013	CY	#89 (1/16" To 3/8") Stone Aggregate Fill	60.22	
		For Up To 8, Add	*12.04*	
		For >8 To 16, Add	*6.02*	
		For >48 To 64, Deduct	*-4.00*	
		For >64 To 96, Deduct	*-7.01*	
		For >96 To 168, Deduct	*-10.02*	
		For >168 To 240, Deduct	*-12.02*	
		For >240, Deduct	*-14.02*	
31 05 16 00-0014	CY	#9 (3/32" To 3/16") Stone Aggregate Fill	59.60	
		For Up To 8, Add	*11.92*	
		For >8 To 16, Add	*5.96*	
		For >48 To 64, Deduct	*-3.97*	
		For >64 To 96, Deduct	*-6.95*	
		For >96 To 168, Deduct	*-9.93*	
		For >168 To 240, Deduct	*-11.92*	
		For >240, Deduct	*-13.90*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0015	CY	#10 (1/16" To 3/16") Stone Aggregate Fill	60.86	
		For Up To 8, Add	*12.17*	
		For >8 To 16, Add	*6.09*	
		For >48 To 64, Deduct	*-4.03*	
		For >64 To 96, Deduct	*-7.08*	
		For >96 To 168, Deduct	*-10.12*	
		For >168 To 240, Deduct	*-12.14*	
		For >240, Deduct	*-14.15*	
31 05 16 00-0016	CY	#610 (1/16" To 3/4") Modified Stone Aggregate Fill	60.22	
		For Up To 8, Add	*12.04*	
		For >8 To 16, Add	*6.02*	
		For >48 To 64, Deduct	*-4.00*	
		For >64 To 96, Deduct	*-7.01*	
		For >96 To 168, Deduct	*-10.02*	
		For >168 To 240, Deduct	*-12.02*	
		For >240, Deduct	*-14.02*	
31 05 16 00-0017	CY	3/16" Max Screenings Stone Aggregate Fill	51.27	
		For Up To 8, Add	*10.25*	
		For >8 To 16, Add	*5.13*	
		For >48 To 64, Deduct	*-3.55*	
		For >64 To 96, Deduct	*-6.12*	
		For >96 To 168, Deduct	*-8.68*	
		For >168 To 240, Deduct	*-10.46*	
		For >240, Deduct	*-12.23*	
31 05 16 00-0018	CY	Over 6" To 12" Stone Aggregate Fill, Random Size	55.32	
		For Up To 8, Add	*11.06*	
		For >8 To 16, Add	*5.53*	
		For >48 To 64, Deduct	*-3.76*	
		For >64 To 96, Deduct	*-6.52*	
		For >96 To 168, Deduct	*-9.29*	
		For >168 To 240, Deduct	*-11.17*	
		For >240, Deduct	*-13.04*	
31 05 16 00-0019	CY	Over 6" To 12" Graded Stone Aggregate Fill	55.32	
		For Up To 8, Add	*11.06*	
		For >8 To 16, Add	*5.53*	
		For >48 To 64, Deduct	*-3.76*	
		For >64 To 96, Deduct	*-6.52*	
		For >96 To 168, Deduct	*-9.29*	
		For >168 To 240, Deduct	*-11.17*	
		For >240, Deduct	*-13.04*	
31 05 16 00-0020	CY	3" To 7" Surge Stone Aggregate Fill, Random Size	59.36	
		For Up To 8, Add	*11.87*	
		For >8 To 16, Add	*5.94*	
		For >48 To 64, Deduct	*-3.96*	
		For >64 To 96, Deduct	*-6.93*	
		For >96 To 168, Deduct	*-9.89*	
		For >168 To 240, Deduct	*-11.87*	
		For >240, Deduct	*-13.85*	
31 05 16 00-0021	CY	3" To 7" Surge Stone Graded Aggregate Fill	62.24	
		For Up To 8, Add	*12.45*	
		For >8 To 16, Add	*6.22*	
		For >48 To 64, Deduct	*-4.10*	
		For >64 To 96, Deduct	*-7.21*	
		For >96 To 168, Deduct	*-10.33*	
		For >168 To 240, Deduct	*-12.38*	
		For >240, Deduct	*-14.43*	
31 05 16 00-0022	CY	2-1/2" Minus Crusher Run Aggregate Fill	37.20	
		For Up To 8, Add	*7.44*	
		For >8 To 16, Add	*3.72*	
		For >48 To 64, Deduct	*-2.85*	
		For >64 To 96, Deduct	*-4.71*	
		For >96 To 168, Deduct	*-6.57*	
		For >168 To 240, Deduct	*-8.00*	
		For >240, Deduct	*-9.42*	
31 05 16 00-0023	CY	1-1/2" Minus Crusher Run Aggregate Fill	40.38	
		For Up To 8, Add	*8.08*	
		For >8 To 16, Add	*4.04*	
		For >48 To 64, Deduct	*-3.01*	
		For >64 To 96, Deduct	*-5.03*	
		For >96 To 168, Deduct	*-7.05*	
		For >168 To 240, Deduct	*-8.55*	
		For >240, Deduct	*-10.06*	
31 05 16 00-0024	CY	3/4" Minus Crusher Run Aggregate Fill	38.32	
		For Up To 8, Add	*7.66*	
		For >8 To 16, Add	*3.83*	
		For >48 To 64, Deduct	*-2.91*	
		For >64 To 96, Deduct	*-4.82*	
		For >96 To 168, Deduct	*-6.74*	
		For >168 To 240, Deduct	*-8.19*	
		For >240, Deduct	*-9.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0025	CY	Miscellaneous Crushed Base, Processed Concrete, Paving	70.28	
		For Up To 8, Add	*14.06*	
		For >8 To 16, Add	*7.03*	
		For >48 To 64, Deduct	*-4.50*	
		For >64 To 96, Deduct	*-8.02*	
		For >96 To 168, Deduct	*-11.53*	
		For >168 To 240, Deduct	*-13.78*	
		For >240, Deduct	*-16.04*	
31 05 16 00-0026	CY	#20 Silica Sand For Playground Use Only	140.84	
		For Up To 8, Add	*28.17*	
		For >8 To 16, Add	*14.08*	
		For >48 To 64, Deduct	*-8.03*	
		For >64 To 96, Deduct	*-15.07*	
		For >96 To 168, Deduct	*-22.12*	
		For >168 To 240, Deduct	*-26.13*	
		For >240, Deduct	*-30.15*	
31 05 16 00-0027	CY	Graded Aggregate Base Fill (3/4" Minus) Class II Base	55.59	
		For Up To 8, Add	*11.12*	
		For >8 To 16, Add	*5.56*	
		For >48 To 64, Deduct	*-3.77*	
		For >64 To 96, Deduct	*-6.55*	
		For >96 To 168, Deduct	*-9.33*	
		For >168 To 240, Deduct	*-11.21*	
		For >240, Deduct	*-13.10*	
31 05 16 00-0028	CY	#200 to 1-1/2" Class 5 Granite Aggregate Fill	51.03	
		For Up To 8, Add	*10.21*	
		For >8 To 16, Add	*5.10*	
		For >48 To 64, Deduct	*-3.54*	
		For >64 To 96, Deduct	*-6.09*	
		For >96 To 168, Deduct	*-8.64*	
		For >168 To 240, Deduct	*-10.42*	
		For >240, Deduct	*-12.19*	

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization *(31 05)*

See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 08 Commissioning of Earthwork *(31)*

31 08 13 Pile Load Testing *(31 08)*

31 08 13 00-0001 Pile Test By Load Ranges *(31 08 13)*

31 08 13 00-0002	EA	Pile Load Test, 50 To 100 Ton Design Load	49,468.63	
		For Barge Mounted Testing, Add	*19,787.45*	
		For Testing In Wet/Soft Soil Condition, Add	*14,840.59*	
31 08 13 00-0003	EA	Pile Load Test, 101 To 200 Ton Design Load	58,192.10	
		For Barge Mounted Testing, Add	*23,276.84*	
		For Testing In Wet/Soft Soil Condition, Add	*17,457.63*	
31 08 13 00-0004	EA	Pile Load Test, 201 To 300 Ton Design Load	69,671.56	
		For Barge Mounted Testing, Add	*27,868.62*	
		For Testing In Wet/Soft Soil Condition, Add	*20,901.47*	
31 08 13 00-0005	EA	Pile Load Test, 301 To 400 Ton Design Load	84,008.35	
		For Barge Mounted Testing, Add	*33,603.34*	
		For Testing In Wet/Soft Soil Condition, Add	*25,202.51*	

31 10 Site Clearing *(31)*

31 11 Clearing and Grubbing *(31 10)*

31 11 00 00-0001 Clear And Grub Roots And Stumps *(31 11)*

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading.

31 11 00 00-0002	ACR	Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip Note: Includes grub and removal of stump	8,195.07
31 11 00 00-0003	ACR	Clear And Grub Light Stumps Only Up To 6" Diameter	2,565.64
31 11 00 00-0004	ACR	Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip Note: Includes grub and removal of stump	10,926.76
31 11 00 00-0005	ACR	Clear And Grub Medium Stumps Only Up To 10" Diameter	4,276.07
31 11 00 00-0006	ACR	Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip Note: Includes grub and removal of stump	15,024.30
31 11 00 00-0007	ACR	Clear And Grub Heavy Stumps Only Up To 16" Diameter	6,414.10
31 11 00 00-0008	ACR	Clear And Grub Heavy Trees Up To 24" Diameter, Cut And Chip Note: Includes grub and removal of stump	21,853.52
31 11 00 00-0009	ACR	Clear And Grub Heavy Stumps Only Up To 24" Diameter	8,979.75
31 11 00 00-0010	ACR	Clearing By Machine - Light Brush Without Grub	368.05
31 11 00 00-0011	ACR	Clearing By Machine - Medium Brush Without Grub	769.24
31 11 00 00-0012	ACR	Clearing By Machine - Heavy Brush Without Grub	1,095.62
31 11 00 00-0013	ACR	Chipping - Light Brush	2,914.33
31 11 00 00-0014	ACR	Chipping - Medium Brush	3,747.17
31 11 00 00-0015	ACR	Chipping - Heavy Brush	5,246.53

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 11 00 00-0016 Loading Of Cleared And Grubbed Material *(31 11)*

31 11 00 00-0017	CY	Machine Loading Of Cleared And Grubbed Material	13.71
31 11 00 00-0018	CY	Chute Loading Of Cleared And Grubbed Material	16.45
31 11 00 00-0019	CY	Hand Loading Of Cleared And Grubbed Material	43.59
31 11 00 00-0020	CY	Wheel And Ramp Loading Of Cleared And Grubbed Material	34.25

31 11 00 00-0021 Burning Of Cleared Land Debris; Limbs, Stumps, Brush, etc. *(31 11)*

Note: Includes air curtain destructor (fan) equipment delivery and set-up, equipment (excavator and dozer for loading material into trench for burning) and personnel. Excludes excavation for digging of trench, backfill trench, loading burned debris (organic) into truck or hauling.

31 11 00 00-0022	HR	Burning Of Cleared Land Debris - 4 Hour Minimum	749.66

31 11 00 00-0023 Drum Grinding Of Cleared Land Debris; Limbs, Stumps, Brush, etc. *(31 11)*

Note: Includes drum equipment delivery and set-up, equipment (excavator for loading stockpiled material into drum grinder) and personnel. Excludes loading chipped/ground debris (organic) into truck or hauling.

31 11 00 00-0024	HR	Drum Grinding Of Cleared Land Debris - 4 Hour Minimum	591.70

31 13 Selective Tree and Shrub Removal and Trimming *(31 10)*

31 13 13 Selective Tree and Shrub Removal *(31 13)*

31 13 13 00-0001 Individual Tree Removal *(31 13 13)*

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002	EA	Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	682.92
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-170.73*
		For >4 To 10, Deduct	*-40.98*
		For >25, Deduct	*-128.05*
31 13 13 00-0003	EA	>6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	1,024.39
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-256.10*
		For >4 To 10, Deduct	*-61.46*
		For >25, Deduct	*-192.07*
31 13 13 00-0004	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	1,365.85
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-341.46*
		For >4 To 10, Deduct	*-81.95*
		For >10 To 25, Deduct	*-170.73*
		For >25, Deduct	*-256.10*
31 13 13 00-0005	EA	>24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	2,048.76
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-512.19*
		For >4 To 10, Deduct	*-122.93*
		For >10 To 25, Deduct	*-256.10*
		For >25, Deduct	*-384.14*
31 13 13 00-0006	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	2,731.69
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-682.92*
		For >4 To 10, Deduct	*-163.90*
		For >10 To 25, Deduct	*-341.46*
		For >25, Deduct	*-512.19*
31 13 13 00-0007	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	3,414.61
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-853.65*
		For >4 To 10, Deduct	*-204.88*
		For >10 To 25, Deduct	*-426.83*
		For >25, Deduct	*-640.24*
31 13 13 00-0008	EA	>60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal	4,097.54
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-1,024.39*
		For >4 To 10, Deduct	*-245.85*
		For >10 To 25, Deduct	*-512.19*
		For >25, Deduct	*-768.29*
31 13 13 00-0009	EA	>72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal	5,463.38
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-1,365.85*
		For >4 To 10, Deduct	*-327.80*
		For >10 To 25, Deduct	*-682.92*
		For >25, Deduct	*-1,024.38*

31 13 13 00-0010 Stump Removal *(31 13 13)*

Note: Measured by diameter of stump.

31 13 13 00-0011 Stump Removal By Machine *(31 13 13 00-0010)*

31 13 13 00-0012	EA	Up To 6" Diameter Stump Removal	128.28
		Note: Includes excavation necessary to remove stump and loading.	
		For >10, Deduct	*-19.24*
31 13 13 00-0013	EA	>6" To 12" Diameter Stump Removal	245.88
		Note: Includes excavation necessary to remove stump and loading.	
		For >10, Deduct	*-36.88*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0014	EA	>12" To 24" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	320.70	
		For >10, Deduct	*-48.11*	
31 13 13 00-0015	EA	>24" To 36" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	481.07	
		For >10, Deduct	*-72.16*	
31 13 13 00-0016	EA	>36" To 48" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	566.62	
		For >10, Deduct	*-84.99*	
31 13 13 00-0017	EA	>48" To 60" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	667.07	
		For >10, Deduct	*-100.06*	
31 13 13 00-0018	EA	>60" To 72" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	791.07	
		For >10, Deduct	*-118.66*	
31 13 13 00-0019	EA	>72" To 84" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	930.05	
		For >10, Deduct	*-139.51*	

31 13 13 00-0020 Stump Removal By Hand *(31 13 13 00-0010)*

31 13 13 00-0021	EA	Up To 6" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	730.37	
31 13 13 00-0022	EA	>6" To 12" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	912.95	
31 13 13 00-0023	EA	>12" To 24" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,338.99	
31 13 13 00-0024	EA	>24" To 36" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,825.91	
31 13 13 00-0025	EA	>36" To 48" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,434.54	
31 13 13 00-0026	EA	>48" To 60" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,043.18	
31 13 13 00-0027	EA	>60" To 72" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,651.82	
31 13 13 00-0028	EA	>72" To 84" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	4,260.45	

31 13 13 00-0029 Stump Grinding *(31 13 13)*

Note: Measured by diameter of stump.

31 13 13 00-0030 Stump Grinding, 18" Deep Below Surface Of Soil *(31 13 13 00-0029)*

Note: Level soil to match existing surface area.

31 13 13 00-0031	EA	Stump Grinding Up To 6" Tree	132.29	
		For 24" Depth, Add	*26.46*	
		For >10, Deduct	*-16.54*	
31 13 13 00-0032	EA	Stump Grinding >6" To 12" Tree	165.36	
		For 24" Depth, Add	*33.07*	
		For >10, Deduct	*-20.67*	
31 13 13 00-0033	EA	Stump Grinding >12" To 15" Tree	198.42	
		For 24" Depth, Add	*39.68*	
		For >10, Deduct	*-24.80*	
31 13 13 00-0034	EA	Stump Grinding >15" To 18" Tree	220.47	
		For 24" Depth, Add	*44.09*	
		For >10, Deduct	*-27.56*	
31 13 13 00-0035	EA	Stump Grinding >18" To 21" Tree	237.02	
		For 24" Depth, Add	*47.40*	
		For >10, Deduct	*-29.63*	
31 13 13 00-0036	EA	Stump Grinding >21" To 24" Tree	253.55	
		For 24" Depth, Add	*50.71*	
		For >10, Deduct	*-31.69*	
31 13 13 00-0037	EA	Stump Grinding >24" To 27" Tree	275.60	
		For 24" Depth, Add	*55.12*	
		For >10, Deduct	*-34.45*	
31 13 13 00-0038	EA	Stump Grinding >27" To 30" Tree	300.63	
		For 24" Depth, Add	*60.13*	
		For >10, Deduct	*-37.58*	
31 13 13 00-0039	EA	Stump Grinding >30" To 33" Tree	334.02	
		For 24" Depth, Add	*66.80*	
		For >10, Deduct	*-41.75*	
31 13 13 00-0040	EA	Stump Grinding >33" To 36" Tree	367.43	
		For 24" Depth, Add	*73.49*	
		For >10, Deduct	*-45.93*	
31 13 13 00-0041	EA	Stump Grinding >36" To 42" Tree	400.83	
		For 24" Depth, Add	*80.17*	
		For >10, Deduct	*-50.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0042	EA	Stump Grinding >42" To 48" Tree	445.37	
		For 24" Depth, Add	*89.07*	
		For >10, Deduct	*-55.67*	
31 13 13 00-0043	EA	Stump Grinding >48" To 60" Tree	556.71	
		For 24" Depth, Add	*111.34*	
		For >10, Deduct	*-69.59*	
31 13 13 00-0044	EA	Stump Grinding >60" To 72" Tree	695.89	
		For 24" Depth, Add	*139.18*	
		For >10, Deduct	*-86.99*	
31 13 13 00-0045	EA	Stump Grinding >72" To 84" Tree	890.74	
		For 24" Depth, Add	*178.15*	
		For >10, Deduct	*-111.34*	

31 13 13 00-0046 Shrub Removal *(31 13 13)*

31 13 13 00-0047	EA	Removal Of 18" To 24" Shrub, Broadleaf Evergreen	52.24	
		For >4 To 10, Deduct	*-3.13*	
		For >10 To 25, Deduct	*-6.53*	
31 13 13 00-0048	EA	Removal Of 2' To 3' Shrub, Broadleaf Evergreen	81.92	
		For >4 To 10, Deduct	*-4.92*	
		For >10 To 25, Deduct	*-10.24*	
31 13 13 00-0049	EA	Removal Of 3' To 4' Shrub, Broadleaf Evergreen	94.97	
		For >4 To 10, Deduct	*-5.70*	
		For >10 To 25, Deduct	*-11.87*	
31 13 13 00-0050	EA	Removal Of 4' To 5' Shrub, Broadleaf Evergreen	142.47	
		For >4 To 10, Deduct	*-8.55*	
		For >10 To 25, Deduct	*-17.81*	
31 13 13 00-0051	EA	Removal Of 12" To 15" Shrub, Deciduous	26.11	
		For >4 To 10, Deduct	*-1.57*	
		For >10 To 25, Deduct	*-3.26*	
31 13 13 00-0052	EA	Removal Of 18" To 24" Shrub, Deciduous	40.37	
		For >4 To 10, Deduct	*-2.42*	
		For >10 To 25, Deduct	*-5.05*	
31 13 13 00-0053	EA	Removal Of 2' To 3' Shrub, Deciduous	52.24	
		For >4 To 10, Deduct	*-3.13*	
		For >10 To 25, Deduct	*-6.53*	
31 13 13 00-0054	EA	Removal Of 3' To 4' Shrub, Deciduous	56.99	
		For >4 To 10, Deduct	*-3.42*	
		For >10 To 25, Deduct	*-7.12*	
31 13 13 00-0055	EA	Removal Of 18" To 24" Shrub, Evergreen	52.24	
		For >4 To 10, Deduct	*-3.13*	
		For >10 To 25, Deduct	*-6.53*	
31 13 13 00-0056	EA	Removal Of 24" To 30" Shrub, Evergreen	56.99	
		For >4 To 10, Deduct	*-3.42*	
		For >10 To 25, Deduct	*-7.12*	
31 13 13 00-0057	EA	Removal Of 30" To 36" Shrub, Evergreen	81.92	
		For >4 To 10, Deduct	*-4.92*	
		For >10 To 25, Deduct	*-10.24*	
31 13 13 00-0058	EA	Removal Of 36" To 42" Shrub, Evergreen	142.46	
		For >4 To 10, Deduct	*-8.55*	
		For >10 To 25, Deduct	*-17.81*	

31 13 13 00-0059 Fallen Tree Removal *(31 13 13)*

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding. Excludes removing tree from ground.

31 13 13 00-0060	EA	Up To 6" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading.	546.34	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-136.59*	
		For >4 To 10, Deduct	*-32.78*	
		For >10 To 25, Deduct	*-68.29*	
		For >25, Deduct	*-102.44*	
31 13 13 00-0061	EA	>6" To 12" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading.	819.51	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-204.88*	
		For >4 To 10, Deduct	*-49.17*	
		For >10 To 25, Deduct	*-102.44*	
		For >25, Deduct	*-153.66*	
31 13 13 00-0062	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading.	1,092.67	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-273.17*	
		For >4 To 10, Deduct	*-65.56*	
		For >10 To 25, Deduct	*-136.58*	
		For >25, Deduct	*-204.88*	
31 13 13 00-0063	EA	>24" To 36" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading.	1,639.02	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-409.76*	
		For >4 To 10, Deduct	*-98.34*	
		For >10 To 25, Deduct	*-204.88*	
		For >25, Deduct	*-307.32*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0064	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading.	2,185.35	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-546.34*	
		For >4 To 10, Deduct	*-131.12*	
		For >10 To 25, Deduct	*-273.17*	
		For >25, Deduct	*-409.75*	
31 13 13 00-0065	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading.	2,731.69	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-682.92*	
		For >4 To 10, Deduct	*-163.90*	
		For >10 To 25, Deduct	*-341.46*	
		For >25, Deduct	*-512.19*	

31 13 16 Selective Tree and Shrub Trimming *(31 13)*

See CSI section 32 01 90 23-0000 for tree pruning.

31 13 16 00-0001 Tree Trimming For Pole Line Construction And Maintenance *(31 13 16)*

Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.

31 13 16 00-0002	LF	Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	2.19
31 13 16 00-0003	LF	Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	3.29
31 13 16 00-0004	LF	Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction	3.88

31 13 16 00-0005 Tree Trimming For County Roadway Maintenance *(31 13 16)*

Note: Includes storm water control, roadway signage, lane closure and trafic control, flaggers, mobilization, tree trimming, removal, disposal, and sweeping roadway.

31 13 16 00-0006	MI	Tree Trimming, For County Roadway Maintenance	8,751.79

31 13 16 00-0007 Tree Branch Trimming And Removal For Maintenance Along Building Or Structure *(31 13 16)*

Note: Includes pick-up and placement of cut branches into chipper for removal. Excludes transportation from site or disposal fee. See CSI section 01 22 23 00-0105 for bucket truck where required for additional height.

31 13 16 00-0008	EA	Minimum Charge For Trim Tree Branch Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	801.35
31 13 16 00-0009	EA	Up To 1" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	20.04
31 13 16 00-0010	EA	>1" To 2" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	22.54
31 13 16 00-0011	EA	>2" To 3" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	27.55
31 13 16 00-0012	EA	Up To 1" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	25.04
31 13 16 00-0013	EA	>1" To 2" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	28.18
31 13 16 00-0014	EA	>2" To 3" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	34.43

31 20 Earth Moving *(31)*

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 22 Grading *(31 20)*

31 22 13 Rough Grading *(31 22)*

See CSI section 31 23 16 00-0000 for rough grading.

31 22 16 Fine Grading *(31 22)*

31 22 16 13 Roadway Subgrade Reshaping *(31 22 16)*

See CSI section 31 23 16 00-0000 for bulk shaping and grading, 31 24 13 00-0000 for roadway shaping and grading.

31 22 19 Finish Grading *(31 22)*

31 22 19 13 Spreading and Grading Topsoil *(31 22 19)*

31 22 19 13-0001 Site Grading For Areas Outside Of Structures And Slabs *(31 22 19 13)*

Note: Use of bobcat type equipment or hand for finish grading for positive drainage.

31 22 19 13-0002 Hand Digging And Grading *(31 22 19 13-0001)*

31 22 19 13-0003	SF	Trim And Shape Machine Excavated Area By Hand Finish Grade	1.19

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 22 19 13-0004	SF	Trim And Shape Area On Grade By Hand, Finish Grade	1.09	
31 22 19 13-0005	SF	Fine Grade Gravel Bedding By Hand Finish Grade	1.13	
31 22 19 13-0006	SF	Fine Grade Gravel By Hand Finish Grade	0.95	

31 22 19 13-0007 Machine Operations *(31 22 19 13-0001)*

31 22 19 13-0008 Machine Operations With Grader *(31 22 19 13-0007)*

31 22 19 13-0009	CSY	Semi-Grade, 2 Passes With Grader	475.52	
31 22 19 13-0010	CSY	Fine Grade, 3 Passes With Grader	660.44	

31 23 Excavation and Fill *(31 20)*

31 23 16 Excavation *(31 23)*

31 23 16 13 Trenching *(31 23 16)*

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001 Excavation For Trenching By Machine *(31 23 16 13)*

Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0002	CY	12" Wide or Less, Excavation for Trenching by Machine in Soil	12.53	
		For Excavation In Light Material (Class A), Deduct	*-1.57*	
		For Excavation In Heavy/Wet Material (Class C), Add	*5.01*	
		For Up To 20, Add	*12.53*	
		For >20 To 50, Add	*9.40*	
		For >50 To 250, Add	*5.01*	
		For >250 To 500, Add	*1.88*	
		For >1,000, Deduct	*-1.88*	
31 23 16 13-0003	CY	Over 12" Wide, Excavation for Trenching by Machine in Soil	8.14	
		For Excavation In Light Material (Class A), Deduct	*-1.02*	
		For Excavation In Heavy/Wet Material (Class C), Add	*3.26*	
		For Up To 20, Add	*8.14*	
		For >20 To 50, Add	*6.11*	
		For >50 To 250, Add	*3.26*	
		For >250 To 500, Add	*1.22*	
		For >1,000, Deduct	*-1.22*	
31 23 16 13-0004	CY	12" Wide or Less, Excavation for Trenching by Machine in Loose Rock Note: Includes compacted aggregate	20.75	
		For Up To 20, Add	*20.75*	
		For >20 To 50, Add	*15.56*	
		For >50 To 250, Add	*8.30*	
		For >250 To 500, Add	*3.11*	
		For >1,000, Deduct	*-3.11*	
31 23 16 13-0005	CY	Over 12" Wide, Excavation for Trenching by Machine in Loose Rock Note: Includes compacted aggregate	14.47	
		For Up To 20, Add	*14.47*	
		For >20 To 50, Add	*10.85*	
		For >50 To 250, Add	*5.79*	
		For >250 To 500, Add	*2.17*	
		For >1,000, Deduct	*-2.17*	

31 23 16 13-0006 Excavation For Trenching By Hand *(31 23 16 13)*

31 23 16 13-0007	CY	Excavation For Trenching By Hand In Soil Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	143.84
31 23 16 13-0008	CY	Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	246.74
31 23 16 13-0009	SF	Trim Bottom Of Excavation Hand Labor Note: For use with machine excavation.	1.12
31 23 16 13-0010	SF	Trim Slopes/Sides Of Excavation Hand Labor Note: For use with machine excavation.	1.29

31 23 16 13-0011 Backfilling Or Placing Subbase For Trenches *(31 23 16 13)*

Note: With imported or stockpiled materials.

31 23 16 13-0012	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	4.62	
		For Up To 20, Add	*4.62*	
		For >20 To 50, Add	*3.47*	
		For >50 To 250, Add	*1.85*	
		For >250 To 500, Add	*0.69*	
		For >1,000, Deduct	*-0.69*	
31 23 16 13-0013	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand	39.96	

31 23 16 13-0014 Compaction Of Fill Or Subbase For Trenches *(31 23 16 13)*

Note: Includes restoration of final grade.

31 23 16 13-0015	CY	Compaction of Fill or Subbase for Trenches by Hand Machine; Vibratory Plate, Jumping Jack, Air Tamper, etc.	8.35	
		For Up To 20, Add	*8.35*	
		For >20 To 50, Add	*6.26*	
		For >50 To 250, Add	*3.34*	
		For >250 To 500, Add	*1.25*	
		For >1,000, Deduct	*-1.25*	
31 23 16 13-0016	CY	Compaction of Fill or Subbase for Trenches by Hand	45.08	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0017		Loading Excess Material For Removal From Excavation For Trenches *(31 23 16 13)*		
		Note: Includes handwork by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0043 for hauling.		
31 23 16 13-0018	CY	Load Excess Material by Machine for Removal from Excavation for Trenching	8.02	
		For Up To 20, Add	*8.02*	
		For >20 To 50, Add	*6.02*	
		For >50 To 250, Add	*3.21*	
		For >250 To 500, Add	*1.20*	
		For >1,000, Deduct	*-1.20*	
31 23 16 13-0019	CY	Load Excess Material by Hand for Removal from Excavation for Trenching	105.48	
31 23 16 13-0020		Spread Excess Or Imported Material For Trenches *(31 23 16 13)*		
		Note: Includes hand work by laborer for cleanup.		
31 23 16 13-0021	CY	Spread Excess Or Imported Material On Site With Machine	3.99	
		For Up To 20, Add	*3.99*	
		For >20 To 50, Add	*2.99*	
		For >50 To 250, Add	*1.60*	
		For >250 To 500, Add	*0.60*	
		For >1,000, Deduct	*-0.60*	
31 23 16 13-0022		Direct Burial (Plowed-in) Cable Or Piping By Machine *(31 23 16 13)*		
		Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0023	LF	Direct Burial of Cable or Piping up to 12" Deep	2.83	
31 23 16 13-0024	LF	Direct Burial of Cable or Piping >12" to 24" Deep	3.12	
31 23 16 13-0025	LF	Direct Burial of Cable or Piping >24" to 36" Deep	4.44	
31 23 16 13-0026	LF	Direct Burial of Cable or Piping >36" to 48" Deep	5.01	
31 23 16 13-0027		Utility Chain Trencher *(31 23 16 13)*		
31 23 16 13-0028		Utility Trench, Chain Trencher *(31 23 16 13-0027)*		
		Note: Earth left adjacent to trench.		
31 23 16 13-0029	LF	4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.56	
		For >100 To 250, Deduct	*-0.11*	
		For >250 To 500, Deduct	*-0.23*	
		For >500, Deduct	*-0.47*	
31 23 16 13-0030	LF	4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.71	
		For >100 To 250, Deduct	*-0.12*	
		For >250 To 500, Deduct	*-0.26*	
		For >500, Deduct	*-0.51*	
31 23 16 13-0031	LF	4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.77	
		For >100 To 250, Deduct	*-0.12*	
		For >250 To 500, Deduct	*-0.27*	
		For >500, Deduct	*-0.53*	
31 23 16 13-0032	LF	6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.86	
		For >100 To 250, Deduct	*-0.13*	
		For >250 To 500, Deduct	*-0.28*	
		For >500, Deduct	*-0.56*	
31 23 16 13-0033	LF	6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	2.05	
		For >100 To 250, Deduct	*-0.14*	
		For >250 To 500, Deduct	*-0.31*	
		For >500, Deduct	*-0.62*	
31 23 16 13-0034	LF	6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.33	
		For >100 To 250, Deduct	*-0.16*	
		For >250 To 500, Deduct	*-0.35*	
		For >500, Deduct	*-0.70*	
31 23 16 13-0035	LF	6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.80	
		For >100 To 250, Deduct	*-0.20*	
		For >250 To 500, Deduct	*-0.42*	
		For >500, Deduct	*-0.84*	
31 23 16 13-0036	LF	8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	2.64	
		For >100 To 250, Deduct	*-0.18*	
		For >250 To 500, Deduct	*-0.40*	
		For >500, Deduct	*-0.79*	
31 23 16 13-0037	LF	8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	3.11	
		For >100 To 250, Deduct	*-0.22*	
		For >250 To 500, Deduct	*-0.47*	
		For >500, Deduct	*-0.93*	
31 23 16 13-0038	LF	8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	3.53	
		For >100 To 250, Deduct	*-0.25*	
		For >250 To 500, Deduct	*-0.53*	
		For >500, Deduct	*-1.06*	
31 23 16 13-0039	LF	8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	4.19	
		For >100 To 250, Deduct	*-0.29*	
		For >250 To 500, Deduct	*-0.63*	
		For >500, Deduct	*-1.26*	
31 23 16 13-0040		Backfill Trenches With Compaction *(31 23 16 13-0027)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0041	LF	Backfill 4" Wide, 12" Deep Trench, With Compaction	0.25	
		For >100 To 250, Deduct	*-0.02*	
		For >250 To 500, Deduct	*-0.04*	
		For >500, Deduct	*-0.08*	
31 23 16 13-0042	LF	Backfill 4" Wide, 18" Deep Trench, With Compaction	0.37	
		For >100 To 250, Deduct	*-0.03*	
		For >250 To 500, Deduct	*-0.06*	
		For >500, Deduct	*-0.11*	
31 23 16 13-0043	LF	Backfill 4" Wide, 24" Deep Trench, With Compaction	0.50	
		For >100 To 250, Deduct	*-0.04*	
		For >250 To 500, Deduct	*-0.08*	
		For >500, Deduct	*-0.15*	
31 23 16 13-0044	LF	Backfill 6" Wide, 12" Deep Trench, With Compaction	0.37	
		For >100 To 250, Deduct	*-0.03*	
		For >250 To 500, Deduct	*-0.06*	
		For >500, Deduct	*-0.11*	
31 23 16 13-0045	LF	Backfill 6" Wide, 18" Deep Trench, With Compaction	0.50	
		For >100 To 250, Deduct	*-0.04*	
		For >250 To 500, Deduct	*-0.08*	
		For >500, Deduct	*-0.15*	
31 23 16 13-0046	LF	Backfill 6" Wide, 24" Deep Trench, With Compaction	0.76	
		For >100 To 250, Deduct	*-0.05*	
		For >250 To 500, Deduct	*-0.11*	
		For >500, Deduct	*-0.23*	
31 23 16 13-0047	LF	Backfill 6" Wide, 36" Deep Trench, With Compaction	1.08	
		For >100 To 250, Deduct	*-0.08*	
		For >250 To 500, Deduct	*-0.16*	
		For >500, Deduct	*-0.32*	
31 23 16 13-0048	LF	Backfill 8" Wide, 12" Deep Trench, With Compaction	0.50	
		For >100 To 250, Deduct	*-0.04*	
		For >250 To 500, Deduct	*-0.08*	
		For >500, Deduct	*-0.15*	
31 23 16 13-0049	LF	Backfill 8" Wide, 18" Deep Trench, With Compaction	0.76	
		For >100 To 250, Deduct	*-0.05*	
		For >250 To 500, Deduct	*-0.11*	
		For >500, Deduct	*-0.23*	
31 23 16 13-0050	LF	Backfill 8" Wide, 24" Deep Trench, With Compaction	1.01	
		For >100 To 250, Deduct	*-0.07*	
		For >250 To 500, Deduct	*-0.15*	
		For >500, Deduct	*-0.30*	
31 23 16 13-0051	LF	Backfill 8" Wide, 36" Deep Trench, With Compaction	1.51	
		For >100 To 250, Deduct	*-0.11*	
		For >250 To 500, Deduct	*-0.23*	
		For >500, Deduct	*-0.45*	

31 23 16 16 Structural Excavation for Minor Structures *(31 23 16)*

31 23 16 16-0001 Post Holes *(31 23 16 16)*

Note: Excludes spreading of excess material on site or loading and removal of excavated material from site.

31 23 16 16-0002 Drilling Post Hole In Soil *(31 23 16 16-0001)*

Note: Auger by machine unless otherwise notified by owner.

31 23 16 16-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	10.89
31 23 16 16-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	12.25
31 23 16 16-0005	VLF	3" Diameter Hole, Auger By Machine Post Hole In Soil	14.52
31 23 16 16-0006	VLF	4" Diameter Hole, Auger By Machine Post Hole In Soil	16.34
31 23 16 16-0007	VLF	6" Diameter Hole, Auger By Machine Post Hole In Soil	17.82
31 23 16 16-0008	VLF	8" Diameter Hole, Auger By Machine Post Hole In Soil	19.61
31 23 16 16-0009	VLF	10" Diameter Hole, Auger By Machine Post Hole In Soil	21.79
31 23 16 16-0010	VLF	12" Diameter Hole, Auger By Machine Post Hole In Soil	24.51
31 23 16 16-0011	VLF	18" Diameter Hole, Auger By Machine Post Hole In Soil	28.01
31 23 16 16-0012	VLF	24" Diameter Hole, Auger By Machine Post Hole In Soil	32.68
31 23 16 16-0013	VLF	30" Diameter Hole, Auger By Machine Post Hole In Soil	39.22
31 23 16 16-0014	VLF	36" Diameter Hole, Auger By Machine Post Hole In Soil	49.02

31 23 16 16-0015 Drilling Post Hole In Rock *(31 23 16 16-0001)*

31 23 16 16-0016	CF	Jackhammer Post Hole, Rock	81.05
31 23 16 16-0017	CF	Rock Drill Post Hole, Rock	23.60

31 23 16 16-0018 Post Hole Fill *(31 23 16 16-0001)*

31 23 16 16-0019 Concrete Fill *(31 23 16 16-0018)*

31 23 16 16-0020	VLF	Concrete Fill, Up To 2-1/2" Diameter Hole	6.29
31 23 16 16-0021	VLF	Concrete Fill, 2-1/2" Diameter Hole	8.10
31 23 16 16-0022	VLF	Concrete Fill, 3" Diameter Hole	8.90
31 23 16 16-0023	VLF	Concrete Fill, 4" Diameter Hole	10.21
31 23 16 16-0024	VLF	Concrete Fill, 6" Diameter Hole	14.39
31 23 16 16-0025	VLF	Concrete Fill, 8" Diameter Hole	19.22
31 23 16 16-0026	VLF	Concrete Fill, 10" Diameter Hole	23.50
31 23 16 16-0027	VLF	Concrete Fill, 12" Diameter Hole	27.39
31 23 16 16-0028	VLF	Concrete Fill, 18" Diameter Hole	37.27

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 16-0029	VLF	Concrete Fill, 24" Diameter Hole	46.20	
31 23 16 16-0030	VLF	Concrete Fill, 30" Diameter Hole	54.89	
31 23 16 16-0031	VLF	Concrete Fill, 36" Diameter Hole	63.92	

31 23 16 16-0032 Grout Fill *(31 23 16 16-0018)*

31 23 16 16-0033	VLF	Grout Fill, Up To 2-1/2" Diameter Hole	7.47	
31 23 16 16-0034	VLF	Grout Fill, 2-1/2" Diameter Hole	9.63	
31 23 16 16-0035	VLF	Grout Fill, 3" Diameter Hole	10.48	
31 23 16 16-0036	VLF	Grout Fill, 4" Diameter Hole	11.76	
31 23 16 16-0037	VLF	Grout Fill, 6" Diameter Hole	16.42	
31 23 16 16-0038	VLF	Grout Fill, 8" Diameter Hole	21.92	
31 23 16 16-0039	VLF	Grout Fill, 10" Diameter Hole	26.70	
31 23 16 16-0040	VLF	Grout Fill, 12" Diameter Hole	30.99	
31 23 16 16-0041	VLF	Grout Fill, 18" Diameter Hole	41.38	
31 23 16 16-0042	VLF	Grout Fill, 24" Diameter Hole	50.52	
31 23 16 16-0043	VLF	Grout Fill, 30" Diameter Hole	59.35	
31 23 16 16-0044	VLF	Grout Fill, 36" Diameter Hole	68.40	

31 23 16 16-0045 Earth Fill, Compacted *(31 23 16 16-0018)*

31 23 16 16-0046	VLF	Earth Fill, Up To 2-1/2" Diameter Hole	5.33	
31 23 16 16-0047	VLF	Earth Fill, 2-1/2" Diameter Hole	6.95	
31 23 16 16-0048	VLF	Earth Fill, 3" Diameter Hole	7.26	
31 23 16 16-0049	VLF	Earth Fill, 4" Diameter Hole	7.47	
31 23 16 16-0050	VLF	Earth Fill, 6" Diameter Hole	9.99	
31 23 16 16-0051	VLF	Earth Fill, 8" Diameter Hole	13.32	
31 23 16 16-0052	VLF	Earth Fill, 10" Diameter Hole	15.98	
31 23 16 16-0053	VLF	Earth Fill, 12" Diameter Hole	18.12	
31 23 16 16-0054	VLF	Earth Fill, 18" Diameter Hole	22.08	
31 23 16 16-0055	VLF	Earth Fill, 24" Diameter Hole	24.78	
31 23 16 16-0056	VLF	Earth Fill, 30" Diameter Hole	27.17	
31 23 16 16-0057	VLF	Earth Fill, 36" Diameter Hole	29.31	

31 23 16 26 Rock Removal *(31 23 16)*

31 23 16 26-0001 Rock Breaking By Jack Hammer *(31 23 16 26)*

Note: Excludes excavation of broken-up rock.

31 23 16 26-0002	CY	Break Rock With Jack Hammer, Soft Sedimentary (Shale, Sandstone, Limestone) Rocks	65.42	
31 23 16 26-0003	CY	Break Rock With Jack Hammer, Medium Metamorphic (Slate) Rock	81.78	
31 23 16 26-0004	CY	Break Rock With Jack Hammer, Hard Igneous (Granite, Basalt) Rock	102.23	

31 23 16 26-0005 Rock Breaking By Machine *(31 23 16 26)*

Note: Excludes excavation of broken-up rock.

31 23 16 26-0006	CY	Rock Breaking By Machine, Soft Sedimentary (Shale, Sandstone, Limestone) Rocks	32.25	
31 23 16 26-0007	CY	Rock Breaking By Machine, Medium Metamorphic (Slate) Rock	34.39	
31 23 16 26-0008	CY	Rock Breaking By Machine, Hard Igneous (Granite, Basalt) Rock	40.84	

31 23 16 33 Bulk Excavation *(31 23 16)*

Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for less than 500 CY excavation.

31 23 16 33-0001 Excavation *(31 23 16 33)*

Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.

31 23 16 33-0002	CY	Bulk Excavation by Dozer in Soil	12.47	
		For Excavation In Light Material (Class A), Deduct	*-1.56*	
		For Excavation In Heavy/Wet Material (Class C), Add	*4.99*	
		For >1,000, Deduct	*-1.87*	
31 23 16 33-0003	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	6.57	
		For Excavation In Light Material (Class A), Deduct	*-0.82*	
		For Excavation In Heavy/Wet Material (Class C), Add	*2.63*	
		For >1,000, Deduct	*-0.99*	
31 23 16 33-0004	CY	Bulk Excavation by Dozer in Loose Rock Note: Includes compacted aggregate	15.35	
		For >1,000, Deduct	*-2.30*	
31 23 16 33-0005	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock Note: Includes compacted aggregate	8.09	
		For >1,000, Deduct	*-1.21*	

31 23 16 33-0006 Spreading, Shaping And Rough Grading *(31 23 16 33)*

Note: Imported or stockpiled material for bulk excavation.

31 23 16 33-0007	CY	Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine	7.70	
		For >1,000, Deduct	*-1.16*	

31 23 16 33-0008 Cutting, Shaping and Rough Grading Of Existing Elevations *(31 23 16 33)*

31 23 16 33-0009	CY	Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine	8.56	
		For >1,000, Deduct	*-1.28*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 23 16 33-0010 Relocating On Site Excavated Material From Excavation *(31 23 16 33)*

Note: For bulk excavation.

31 23 16 33-0011	CY	Relocating On Site Excavated Material From Bulk Excavation >100' to 300'	6.84
		For >1,000, Deduct	*-1.03*
31 23 16 33-0012	CY	Relocating On Site Excavated Material From Bulk Excavation >300' to 500'	10.26
		For >1,000, Deduct	*-1.54*
31 23 16 33-0013	CY	Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000'	15.39
		For >1,000, Deduct	*-2.31*
31 23 16 33-0014	CY	Relocating On Site Excavated Material From Bulk Excavation >1,000'	20.53
		For >1,000, Deduct	*-3.08*

31 23 16 33-0015 Finish Grading For Bulk Excavation *(31 23 16 33)*

31 23 16 33-0016	SY	Finish Grading for Bulk Excavation by Machine	0.86

31 23 16 33-0017 Compaction Of Fill Or Subbase, Per Lift *(31 23 16 33)*

Note: For bulk excavation.

31 23 16 33-0018	SY	Compaction of Fill or Subbase for Bulk Excavation by Machine Note: Per Lift	0.83

31 23 16 33-0019 Loading Excess Material For Removal From Excavation *(31 23 16 33)*

Note: For bulk excavation. Includes handwork by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0043 for hauling.

31 23 16 33-0020	CY	Loading Excess Material For Removal From Bulk Excavation	6.76
		For >1,000, Deduct	*-1.01*

31 23 16 36 Excavation for Building Foundations and Other Structures *(31 23 16)*

Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.

31 23 16 36-0001 Excavation *(31 23 16 36)*

Note: For building foundations and other structures by machine. Includes stockpiling of excess materials on ground in reach of excavated area.

31 23 16 36-0002 Excavation For Building Foundations And Other Structures By Skid-Steer Loader *(31 23 16 36-0001)*

31 23 16 36-0003	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil	10.70
		For Excavation In Light Material (Class A), Deduct	*-1.34*
		For Excavation In Heavy/Wet Material (Class C), Add	*4.28*
		For Up To 20, Add	*10.70*
		For >20 To 50, Add	*8.03*
		For >50 To 250, Add	*4.28*
		For >250 To 500, Add	*1.61*
31 23 16 36-0004	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock Note: Includes compacted aggregate	13.28
		For Up To 20, Add	*13.28*
		For >20 To 50, Add	*9.96*
		For >50 To 250, Add	*5.31*
		For >250 To 500, Add	*1.99*

31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader *(31 23 16 36-0001)*

31 23 16 36-0006	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil	7.90
		For Excavation In Light Material (Class A), Deduct	*-0.99*
		For Excavation In Heavy/Wet Material (Class C), Add	*3.16*
		For Up To 20, Add	*7.90*
		For >20 To 50, Add	*5.93*
		For >50 To 250, Add	*3.16*
		For >250 To 500, Add	*1.19*
31 23 16 36-0007	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock Note: Includes compacted aggregate	9.40
		For Up To 20, Add	*9.40*
		For >20 To 50, Add	*7.05*
		For >50 To 250, Add	*3.76*
		For >250 To 500, Add	*1.41*

31 23 16 36-0008 Excavation For Building Foundations And Other Structures By Hand *(31 23 16 36-0001)*

Note: For areas not accessible by machine and only with owner's approval.

31 23 16 36-0009	CY	Excavation For Building Foundations And Other Structures By Hand in Soil	143.84
		For Excavation In Light Material (Class A), Deduct	*-17.98*
		For Excavation In Heavy/Wet Material (Class C), Add	*57.54*
31 23 16 36-0010	CY	Excavation For Building Foundations And Other Structures By Hand in Loose Rock Note: Includes compacted aggregate	246.74

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0011		**Relocating On Site Excavated Stockpiled Material From Excavation** *(31 23 16 36)* Note: For building foundations and other structures.		
31 23 16 36-0012	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >100' to 300'	6.84	
		For Up To 20, Add	*6.84*	
		For >20 To 50, Add	*5.13*	
		For >50 To 250, Add	*2.74*	
		For >250 To 500, Add	*1.03*	
31 23 16 36-0013	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >300' to 500'	10.26	
		For Up To 20, Add	*10.26*	
		For >20 To 50, Add	*7.70*	
		For >50 To 250, Add	*4.10*	
		For >250 To 500, Add	*1.54*	
31 23 16 36-0014	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >500' to 1,000'	15.39	
		For Up To 20, Add	*15.39*	
		For >20 To 50, Add	*11.54*	
		For >50 To 250, Add	*6.16*	
		For >250 To 500, Add	*2.31*	
31 23 16 36-0015	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >1,000'	20.53	
		For Up To 20, Add	*20.53*	
		For >20 To 50, Add	*15.40*	
		For >50 To 250, Add	*8.21*	
		For >250 To 500, Add	*3.08*	
31 23 16 36-0016		**Backfilling** *(31 23 16 36)* Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading each backfill lift.		
31 23 16 36-0017	CY	Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader	5.27	
		For Up To 20, Add	*5.27*	
		For >20 To 50, Add	*3.95*	
		For >50 To 250, Add	*2.11*	
		For >250 To 500, Add	*0.79*	
31 23 16 36-0018	CY	Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader	6.12	
		For Up To 20, Add	*6.12*	
		For >20 To 50, Add	*4.59*	
		For >50 To 250, Add	*2.45*	
		For >250 To 500, Add	*0.92*	
31 23 16 36-0019	CY	Backfilling Around Building Foundations And Other Structures By Hand	68.50	
31 23 16 36-0020		**Compaction Of Fill Or Subbase** *(31 23 16 36)* Note: For building foundations and other structures.		
31 23 16 36-0021	CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, etc.	13.22	
		For Up To 20, Add	*13.22*	
		For >20 To 50, Add	*9.92*	
		For >50 To 250, Add	*5.29*	
		For >250 To 500, Add	*1.98*	
31 23 16 36-0022	CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	45.07	
31 23 16 36-0023		**Grading For Building Foundations And Other Structures** *(31 23 16 36)*		
31 23 16 36-0024	SY	Rough Grading For Building Foundations And Other Structures by Machine	1.48	
31 23 16 36-0025	SY	Finish Grading For Building Foundations And Other Structures by Machine	2.38	
31 23 16 36-0026	SY	Finish Grading For Building Foundations And Other Structures by Hand	13.32	
31 23 16 36-0027		**Loading Excess Material For Removal From Excavation** *(31 23 16 36)* Note: For building foundations and other structures. Includes handwork by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0043 for hauling.		
31 23 16 36-0028	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	7.03	
		For Up To 20, Add	*7.03*	
		For >20 To 50, Add	*5.27*	
		For >50 To 250, Add	*2.81*	
		For >250 To 500, Add	*1.05*	
31 23 16 36-0029	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	105.48	
31 23 16 36-0030		**Spread Excess Or Imported Material And Grade On Site** *(31 23 16 36)* Note: For building foundations and other structures.		
31 23 16 36-0031	CY	Spread Excess Or Imported Material And Rough Grade On Site By Machine	3.99	
		For Up To 20, Add	*3.99*	
		For >20 To 50, Add	*2.99*	
		For >50 To 250, Add	*1.60*	
		For >250 To 500, Add	*0.60*	
31 23 16 36-0032	CY	Spread Excess Or Imported Material And Rough Grade On Site By Hand	58.20	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 23 16 46 Excavation Operations to Expose Underground Pipes and Structures *(31 23 16)*

Note: Includes work above, beside and under pipe. Pipes up to 82" in diameter. Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine. See CSI section 31 23 16 13-0017 for loading excess material, 31 23 16 13-0020 for spreading excess material.

31 23 16 46-0001 Excavation To Expose Underground Pipe Or Structures *(31 23 16 46)*

Note: Includes stockpiling excess materials and trimming sides and bottom of trench. Excludes rock breaking.

31 23 16 46-0002 Excavation By Machine To Expose Underground Pipe Or Structure *(31 23 16 46-0001)*

31 23 16 46-0003	CY	Excavation By Hydraulic Excavator, Backhoe, Loader in Soil/Common Excavation To Expose Underground Pipes And Structures	15.79	
		For Excavation In Light Material (Class A), Deduct	*-1.97*	
		For Excavation In Heavy/Wet Material (Class C), Add	*6.32*	
		For Up To 20, Add	*15.79*	
		For >20 To 50, Add	*11.84*	
		For >50 To 250, Add	*6.32*	
		For >250 To 500, Add	*2.37*	
31 23 16 46-0004	CY	Excavation By Hydraulic Excavator, Backhoe, Loader in Loose Rock To Expose Underground Pipes And Structures	18.74	
		For Up To 20, Add	*18.74*	
		For >20 To 50, Add	*14.06*	
		For >50 To 250, Add	*7.50*	
		For >250 To 500, Add	*2.81*	

31 23 16 46-0005 Excavation By Hand To Expose Underground Pipe Or Structure *(31 23 16 46-0001)*

31 23 16 46-0006	CY	Excavation By Hand In Soil To Expose Underground Pipes And Structures Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	179.80
31 23 16 46-0007	CY	Excavation By Hand In Loose Rock To Expose Underground Pipes And Structures Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	268.51

31 23 16 46-0008 Backfilling Or Placing Subbase At Exposed Underground Pipe Or Structures *(31 23 16 46)*

Note: With imported or stockpiled materials

31 23 16 46-0009	CY	Backfilling By Hydraulic Excavator, Backhoe, Loader At Exposed Underground Pipes And Structures	11.84	
		For >20 To 50, Add	*8.88*	
		For >50 To 250, Add	*4.74*	
		For >250 To 500, Add	*1.78*	
31 23 16 46-0010	CY	Backfilling by Hand At Exposed Underground Pipes And Structures	81.51	

31 23 16 46-0011 Compaction Of Fill Or Subbase At Exposed Underground Pipe Or Structures *(31 23 16 46)*

Note: With imported or stockpiled materials

31 23 16 46-0012	CY	Compaction of Fill or Subbase by Mechanical Means At Exposed Underground Pipe Or Structures	16.67	
		For Up To 20, Add	*16.67*	
		For >20 To 50, Add	*12.50*	
		For >50 To 250, Add	*6.67*	
		For >250 To 500, Add	*2.50*	
31 23 16 46-0013	CY	Compaction of Fill or Subbase by Hand At Exposed Underground Pipe Or Structures	54.09	

31 23 16 46-0014 Loading Excess Material For Removal From Excavation At Exposed Underground Pipe Or Structures *(31 23 16 46)*

Note: Includes hand work by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0043 for hauling.

31 23 16 46-0015	CY	Load Excess Material by Machine for Removal from Excavation At Exposed Underground Pipe Or Structures	8.02	
		For Up To 20, Add	*8.02*	
		For >20 To 50, Add	*6.02*	
		For >50 To 250, Add	*3.21*	
		For >250 To 500, Add	*1.20*	
		For >1,000, Deduct	*-1.20*	
31 23 16 46-0016	CY	Load Excess Material by Hand for Removal from Excavation At Exposed Underground Pipe Or Structures	105.48	

31 23 16 46-0017 Spread Excess Or Imported Material And Grade At Exposed Underground Pipe Or Structures *(31 23 16 46)*

Note: Includes hand work by laborer for cleanup.

31 23 16 46-0018	CY	Spread Excess Or Imported Material And Grade On Site By Machine At Exposed Underground Pipe Or Structures	3.99	
		For Up To 20, Add	*3.99*	
		For >20 To 50, Add	*2.99*	
		For >50 To 250, Add	*1.60*	
		For >250 To 500, Add	*0.60*	
		For >1,000, Deduct	*-0.60*	
31 23 16 46-0019	CY	Spread Excess Or Imported Material And Grade On Site By Hand At Exposed Underground Pipe Or Structures	58.20	

31 23 19 Dewatering *(31 23)*

31 23 19 00-0001 Well Point Dewatering System *(31 23 19)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 23 19 00-0002 Delivery, Installation And Removal Cost *(31 23 19 00-0001)*

Note: Priced by linear foot of header used.

31 23 19 00-0003	LF	Up To 100' In Length Well Point System Delivery, Installation And Removal	148.40
31 23 19 00-0004	LF	>100' To 250' In Length Well Point System Delivery, Installation And Removal	81.62
31 23 19 00-0005	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal	74.20
31 23 19 00-0006	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal	66.78
31 23 19 00-0007	LF	>500' To 1,000' In Length Well Point System Delivery, Installation And Removal	59.36
31 23 19 00-0008	LF	>1,000' In Length Well Point System Delivery, Installation And Removal	51.94

31 23 19 00-0009 Well Point Dewatering System Rental *(31 23 19 00-0001)*

Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200' of header for four days - quantity should be 200'x4 or 800'). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.

31 23 19 00-0010	LFD	Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	2.35
		For >5 Days And <1 Month, Deduct	*-0.52*
		For >1 Month, Deduct	*-0.66*
31 23 19 00-0011	LFD	>100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.37
		For >5 Days And <1 Month, Deduct	*-0.30*
		For >1 Month, Deduct	*-0.38*
31 23 19 00-0012	LFD	>250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	0.98
		For >5 Days And <1 Month, Deduct	*-0.22*
		For >1 Month, Deduct	*-0.27*
31 23 19 00-0013	LFD	>500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.72
		For >5 Days And <1 Month, Deduct	*-0.16*
		For >1 Month, Deduct	*-0.20*
31 23 19 00-0014	LFD	>1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.65
		For >5 Days And <1 Month, Deduct	*-0.14*
		For >1 Month, Deduct	*-0.18*

31 23 19 00-0015 Well Point Dewatering System Operation Costs *(31 23 19 00-0001)*

Note: The quantity for operation shall be the total number of hours the well point system is operational.

31 23 19 00-0016	HR	Operation Costs	131.46

31 23 23 Fill *(31 23)*

31 23 23 23 Compaction *(31 23 23)*

31 23 23 23-0001 Compaction Water, Water Truck And Operator *(31 23 23 23)*

31 23 23 23-0002	MGL	Compaction Water, Water Truck And Operator Note: Use this task in situations where earth fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per each 1,000 gallons of water)	311.45

31 23 23 33 Flowable Fill *(31 23 23)*

31 23 23 33-0001 Flowable Fill (Fly Ash) Cement Backfill For Trenches *(31 23 23 33)*

Note: Includes compaction and restoration of final grade.

31 23 23 33-0002	CY	Flowable Fill (Fly Ash) Cement Backfill for Trenches	149.91
		For Up To 20, Add	*62.23*
		For >20 To 50, Add	*40.34*
		For >50 To 250, Add	*20.17*
		For >500 To 1,000, Deduct	*-10.95*
		For >1,000, Deduct	*-21.89*

31 23 23 43 Geofoam *(31 23 23)*

31 23 23 43-0001 Expanded Polystyrene (EPS) Geofoam Earthwork Void Fill *(31 23 23 43)*

Note: Excludes earthwork or backfill.

31 23 23 43-0002	CY	1.15 To 1.25 Lb./CF Density, Expanded Polystyrene (EPS19) Geofoam Earthwork Void Fill Note: 3' x 4' x 8' length geofoam blocks	163.56
		For Cutting To Shape, Add	*9.42*
31 23 23 43-0003	CY	1.35 To 1.50 Lb./CF Density, Expanded Polystyrene (EPS22) Geofoam Earthwork Void Fill Note: 3' x 4' x 8' length geofoam blocks	185.77
		For Cutting To Shape, Add	*11.30*
31 23 23 43-0004	CY	1.80 To 2.00 Lb./CF Density, Expanded Polystyrene (EPS29) Geofoam Earthwork Void Fill Note: 3' x 4' x 8' length geofoam blocks	258.73
		For Cutting To Shape, Add	*15.07*
31 23 23 43-0005	CY	2.40 To 2.50 Lb./CF Density, Expanded Polystyrene (EPS39) Geofoam Earthwork Void Fill Note: 3' x 4' x 8' length geofoam blocks	312.96
		For Cutting To Shape, Add	*18.84*
31 23 23 43-0006	CY	2.75 To 2.85 Lb./CF Density, Expanded Polystyrene (EPS46) Geofoam Earthwork Void Fill Note: 3' x 4' x 8' length geofoam blocks	363.87
		For Cutting To Shape, Add	*21.48*

31 24 Embankments *(31 20)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 24 13 Roadway Embankments *(31 24)*

31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations *(31 24 13)*

Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY.

31 24 13 00-0002 Cutting, Shaping And Rough Grading *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.

31 24 13 00-0003 Cutting, Shaping, And Rough Grading *(31 24 13 00-0002)*

31 24 13 00-0004	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil	8.56
		For Up To 20, Add	*8.56*
		For >20 To 50, Add	*6.42*
		For >50 To 250, Add	*3.42*
		For >250 To 500, Add	*1.28*
		For >1,000, Deduct	*-1.28*
31 24 13 00-0005	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock	10.61
		Note: Includes compacted aggregate	
		For Up To 20, Add	*10.61*
		For >20 To 50, Add	*7.96*
		For >50 To 250, Add	*4.24*
		For >250 To 500, Add	*1.59*
		For >1,000, Deduct	*-1.59*

31 24 13 00-0006 Cutting, Shaping, And Rough Grading By Hand *(31 24 13 00-0002)*

31 24 13 00-0007	SY	Shape Embankment/Slope By Hand Up To 1 On 4 Slope	7.37
31 24 13 00-0008	SY	Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	9.59

31 24 13 00-0009 Cutting, Shaping, And Rough Grading Drainage Ditch By Machine *(31 24 13 00-0002)*

31 24 13 00-0010	CY	Cut, Shape, and Rough Grading for Drainage Ditches by Machine in Soil	10.26
		For Up To 20, Add	*10.26*
		For >20 To 50, Add	*7.70*
		For >50 To 250, Add	*4.10*
		For >250 To 500, Add	*1.54*
		For >1,000, Deduct	*-1.54*

31 24 13 00-0011 Scarify Soil *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments by machine.

31 24 13 00-0012	CSF	Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	7.92
		For Up To 20, Add	*3.96*
		For >20 To 50, Add	*1.98*
		For >250 To 500, Deduct	*-0.79*
		For >500, Deduct	*-1.58*

31 24 13 00-0013 Relocating On Site Excavated Material *(31 24 13 00-0001)*

31 24 13 00-0014	CY	>500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	15.39
		For Up To 20, Add	*15.39*
		For >20 To 50, Add	*11.54*
		For >50 To 250, Add	*6.16*
		For >250 To 500, Add	*2.31*
		For >1,000, Deduct	*-2.31*
31 24 13 00-0015	CY	>1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	20.53
		For Up To 20, Add	*20.53*
		For >20 To 50, Add	*15.40*
		For >50 To 250, Add	*8.21*
		For >250 To 500, Add	*3.08*
		For >1,000, Deduct	*-3.08*

31 24 13 00-0016 Spread And Shape Imported Or Stockpiled Material *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.

31 24 13 00-0017	CY	Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	9.40
		For Up To 20, Add	*9.40*
		For >20 To 50, Add	*7.05*
		For >50 To 250, Add	*3.76*
		For >250 To 500, Add	*1.41*
		For >1,000, Deduct	*-1.41*

31 24 13 00-0018 Grading *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments by machine.

31 24 13 00-0019	SY	Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.91

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0020	SY	Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	1.20	
31 24 13 00-0021	LF	Finish Grade For Curb	1.35	
31 24 13 00-0022	LF	Finish Grade For Curb And Gutter	1.65	

31 24 13 00-0023 Compaction Of Fill Or Subbase *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments by machine, per lift.

31 24 13 00-0024	SY	Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift	0.83	
		For Up To 250, Add	*0.83*	
		For >250 To 500, Add	*0.62*	
		For >500 To 1,000, Add	*0.33*	
		For >5,000, Deduct	*-0.12*	

31 24 13 00-0025 Loading Excess Material For Removal From Excavation *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments by machine. Includes handwork by laborer for cleanup.

31 24 13 00-0026	CY	Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	6.76	
		For Up To 20, Add	*6.76*	
		For >20 To 50, Add	*5.07*	
		For >50 To 250, Add	*2.70*	
		For >250 To 500, Add	*1.01*	
		For >1,000, Deduct	*-1.01*	

31 25 Erosion and Sedimentation Controls *(31 20)*

31 25 14 Stabilization Measures for Erosion and Sedimentation Control *(31 25)*

31 25 14 13 Hydraulically-Applied Erosion Control *(31 25 14)*

31 25 14 13-0001 Bonded Fiber Matrix *(31 25 14 13)*

31 25 14 13-0002	MSF	Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	67.49
31 25 14 13-0003	MSF	>25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied	61.89
31 25 14 13-0004	MSF	>50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied	57.15
31 25 14 13-0005	MSF	>100,000 Bonded Fiber Matrix, Hydraulically Applied	54.45

31 25 14 16 Rolled Erosion Control Mats and Blankets *(31 25 14)*

Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.

31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats *(31 25 14 16)*

31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty *(31 25 14 16-0001)*

31 25 14 16-0003	SY	S75 Single Net Erosion Control Blanket Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.	3.63
31 25 14 16-0004	SY	S75BN Single Net Erosion Control Blanket Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.	4.72
31 25 14 16-0005	SY	Curlex 1, Single Net Erosion Control Blanket Note: As manufactured by American Excelsior	3.43
31 25 14 16-0006	SY	Curlex 1, Single Net Erosion Control Blanket Note: As manufactured by American Green.	3.63
31 25 14 16-0007	SY	Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting	3.20

31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration *(31 25 14 16-0001)*

31 25 14 16-0009	SY	S150 Double Net Erosion Control Blanket Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.	4.69
31 25 14 16-0010	SY	S150 BN Double Net Erosion Control Blanket Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.	6.41
31 25 14 16-0011	SY	Curlex II, Double Net Erosion Control Blanket, Natural Note: As manufactured by American Excelsior.	3.88
31 25 14 16-0012	SY	Curlex II, Double Net Erosion Control Blanket, Green Note: As manufactured by American Excelsior.	4.07
31 25 14 16-0013	SY	Enforcer Double Net Erosion Control Blanket Note: As manufactured by American Excelsior.	4.35

31 25 14 16-0014 Turf Reinforcement Mats (TRM) *(31 25 14 16-0001)*

Note: Permanent, UV stabilized.

31 25 14 16-0015	SY	P300 Permanent Polypropylene Turf Reinforcement Mat Note: 100% synthetic, UV stabilized, two layer netting.	15.44
31 25 14 16-0016	SY	C350 Permanent Turf Reinforcement Mat Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.	14.20
31 25 14 16-0017	SY	Recyclex TRM, Permanent Turf Reinforcement Mat Note: As manufactured by American Excelsior, 100% recycled	19.54

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 16-0018		**Jute Mesh Erosion Control Blankets** *(31 25 14 16-0001)*		
31 25 14 16-0019	SY	Jute Mesh, Open Uniform Weave	4.88	
31 25 14 16-0020		**Revegetation Mat** *(31 25 14 16-0001)*		
31 25 14 16-0021	SY	3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.	12.03	
31 25 14 16-0022	SY	Webbed Revegetation Mat, Polypropylene Fiber Note: Polypropylene fibers positioned between two high strength biaxial oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.	17.23	
31 25 14 23		**Stabilization Measures for Erosion Control** *(31 25 14)* See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.		
31 25 14 23-0001		**Sand Bags** *(31 25 14 23)* Note: Bags filled on site with delivered material. Includes material and placement of bags.		
31 25 14 23-0002	BAG	50 Lb. Capacity Sand Bag With Sand	7.21	3.03
		For >2,500 To 5,000, Deduct	*-0.61*	
		For >5,000, Deduct	*-1.33*	
31 25 14 23-0003	BAG	75 Lb. Capacity Sand Bag With Sand	9.30	3.77
		For >2,500 To 5,000, Deduct	*-0.75*	
		For >5,000, Deduct	*-1.68*	
31 25 14 23-0004	BAG	100 Lb. Capacity Sand Bag With Sand	11.74	4.50
		For >2,500 To 5,000, Deduct	*-0.90*	
		For >5,000, Deduct	*-2.08*	
31 25 14 23-0005	BAG	125 Lb. Capacity Sand Bag With Sand	14.44	5.63
		For >2,500 To 5,000, Deduct	*-1.13*	
		For >5,000, Deduct	*-2.57*	
31 25 14 23-0006	BAG	150 Lb. Capacity Sand Bag With Sand	17.58	6.75
		For >2,500 To 5,000, Deduct	*-1.35*	
		For >5,000, Deduct	*-3.11*	
31 25 14 23-0007	BAG	175 Lb. Capacity Sand Bag With Sand	20.50	7.68
		For >2,500 To 5,000, Deduct	*-1.53*	
		For >5,000, Deduct	*-3.58*	
31 25 14 23-0008	BAG	2,000 Lb. Capacity Sand Bag With Sand	167.83	54.21
		For >2,500 To 5,000, Deduct	*-10.18*	
		For >5,000, Deduct	*-26.96*	
31 25 14 23-0009	BAG	3,000 Lb. Capacity Sand Bag With Sand	216.23	59.63
		For >2,500 To 5,000, Deduct	*-11.19*	
		For >5,000, Deduct	*-32.82*	
31 25 14 23-0010		**Gravel Bags** *(31 25 14 23)* Note: Bags filled on site with delivered material. Includes material and placement of bags.		
31 25 14 23-0011	BAG	30 Lb. Capacity Gravel Bag With Gravel	6.67	2.02
		For >2,500 To 5,000, Deduct	*-0.40*	
		For >5,000, Deduct	*-1.07*	
31 25 14 23-0012	BAG	50 Lb. Capacity Gravel Bag With Gravel	12.04	3.03
		For >2,500 To 5,000, Deduct	*-0.61*	
		For >5,000, Deduct	*-1.81*	
31 25 14 23-0013		**Floating Turbidity Curtain** *(31 25 14 23)* Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6" x 6", 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft. buoyancy in saltwater.		
31 25 14 23-0014	LF	3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	29.53	
		For Type 1, Deduct	*-4.55*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-2.77*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*3.36*	
31 25 14 23-0015	LF	4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	32.00	
		For Type 1, Deduct	*-5.00*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-3.05*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*3.70*	
31 25 14 23-0016	LF	5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	35.42	
		For Type 1, Deduct	*-5.67*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-3.45*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*4.19*	
31 25 14 23-0017	LF	6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	38.32	
		For Type 1, Deduct	*-6.21*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-3.78*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*4.59*	
31 25 14 23-0018	LF	7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	40.21	
		For Type 1, Deduct	*-6.52*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-3.97*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*4.82*	
31 25 14 23-0019	LF	8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	42.12	
		For Type 1, Deduct	*-6.82*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-4.15*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*5.04*	
31 25 14 23-0020	LF	9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	44.32	
		For Type 1, Deduct	*-7.19*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-4.37*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*5.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0021	LF	10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	47.34	
		For Type 1, Deduct	*-7.73*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-4.71*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*5.71*	
31 25 14 23-0022	LF	12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	49.75	
		For Type 1, Deduct	*-8.13*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-4.95*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*6.01*	
31 25 14 23-0023	LF	13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	52.97	
		For Type 1, Deduct	*-8.70*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-5.30*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*6.43*	
31 25 14 23-0024	LF	14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	55.97	
		For Type 1, Deduct	*-9.22*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-5.61*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*6.81*	
31 25 14 23-0025	LF	15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	58.88	
		For Type 1, Deduct	*-9.70*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-5.91*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*7.17*	
31 25 14 23-0026	LF	16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	64.06	
		For Type 1, Deduct	*-10.70*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-6.51*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*7.91*	
31 25 14 23-0027	LF	17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	67.17	
		For Type 1, Deduct	*-11.22*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-6.83*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*8.29*	
31 25 14 23-0028	LF	18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	70.21	
		For Type 1, Deduct	*-11.70*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-7.12*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*8.65*	
31 25 14 23-0029	LF	19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	73.41	
		For Type 1, Deduct	*-12.22*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-7.44*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*9.03*	
31 25 14 23-0030	LF	20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	76.53	
		For Type 1, Deduct	*-12.70*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-7.73*	
		For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	*9.39*	

31 25 14 23-0031 Turbidity Curtain Anchors *(31 25 14 23)*

31 25 14 23-0032	EA	14 Lb., Turbidity Curtain Anchor System Note: Includes anchor, anchor chain, and marker buoy and rope.	790.04
31 25 14 23-0033	EA	25 Lb., Turbidity Curtain Anchor System Note: Includes anchor, anchor chain, and marker buoy and rope.	1,082.65
31 25 14 23-0034	EA	40 Lb., Turbidity Curtain Anchor System Note: Includes anchor, anchor chain, and marker buoy and rope.	1,376.51
31 25 14 23-0035	EA	65 Lb., Turbidity Curtain Anchor System Note: Includes anchor, anchor chain, and marker buoy and rope.	1,799.75

31 25 14 23-0036 Filter Bags *(31 25 14 23)*

31 25 14 23-0037 Non-Woven Filter Bags *(31 25 14 23-0036)*

31 25 14 23-0038	EA	6' x 15' Non-Woven Filter Bag	264.29
31 25 14 23-0039	EA	13' x 15' Non-Woven Filter Bag	382.41
31 25 14 23-0040	EA	15' x 15' Non-Woven Filter Bag	439.68

31 25 14 23-0041 Monofilament Filter Bags *(31 25 14 23-0036)*

31 25 14 23-0042	EA	5' x 15' Monofilament Filter Bag	274.78
31 25 14 23-0043	EA	10' x 15' Monofilament Filter Bag	380.42

31 25 14 23-0044 Cable Articulating Concrete Block *(31 25 14 23)*

Note: 4000 PSI Compressive strength, 12 Lbs./CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.

31 25 14 23-0045	SF	4.75" Open Cell Articulated Concrete Block With Earth Backfill	42.38
		For Up To 500, Add	*9.70*
		For >500 To 1,000, Add	*5.47*
31 25 14 23-0046	SF	6" Open Cell Articulated Concrete Block With Earth Backfill	48.16
		For Up To 500, Add	*10.97*
		For >500 To 1,000, Add	*6.16*
31 25 14 23-0047	SF	7.5" Open Cell Articulated Concrete Block With Earth Backfill	54.83
		For Up To 500, Add	*12.44*
		For >500 To 1,000, Add	*6.96*
31 25 14 23-0048	SF	9" Open Cell Articulated Concrete Block With Earth Backfill	61.70
		For Up To 500, Add	*13.98*
		For >500 To 1,000, Add	*7.81*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0049	SF	4.75" Closed Cell Articulated Concrete Block	45.06	
		For Up To 500, Add	*10.24*	
		For >500 To 1,000, Add	*5.73*	
31 25 14 23-0050	SF	6" Closed Cell Articulated Concrete Block	51.37	
		For Up To 500, Add	*11.61*	
		For >500 To 1,000, Add	*6.48*	
31 25 14 23-0051	SF	7.5" Closed Cell Articulated Concrete Block	58.63	
		For Up To 500, Add	*13.20*	
		For >500 To 1,000, Add	*7.34*	
31 25 14 23-0052	SF	9" Closed Cell Articulated Concrete Block	66.04	
		For Up To 500, Add	*14.85*	
		For >500 To 1,000, Add	*8.24*	

31 25 14 26 Stabilization Measures for Sedimentation Control *(31 25 14)*

31 25 14 26-0001 Silt Fences And Dike Barriers *(31 25 14 26)*
Note: Includes stakes and embedding.

31 25 14 26-0002 Silt Fences 2' High *(31 25 14 26-0001)*
See CSI section 31 25 14 26-0016 for removal of silt fence.

31 25 14 26-0003	LF	2' High Silt Fence with Stakes at 4' On Center	5.24
31 25 14 26-0004	LF	2' High Silt Fence with Stakes at 6' On Center	4.04
31 25 14 26-0005	LF	2' High Silt Fence with Stakes at 8' On Center	2.83
31 25 14 26-0006	LF	2' High Silt Fence with Stakes at 10' On Center	2.40

31 25 14 26-0007 Silt Fences 3' High *(31 25 14 26-0001)*
See CSI section 31 25 14 26-0016 for removal of silt fence.

31 25 14 26-0008	LF	3' High Silt Fence with Stakes at 4' On Center	6.20
		For Wire Backed Fence, Add	*0.55*
31 25 14 26-0009	LF	3' High Silt Fence with Stakes at 6' On Center	4.80
		For Wire Backed Fence, Add	*0.55*
31 25 14 26-0010	LF	3' High Silt Fence with Stakes at 8' On Center	3.34
		For Wire Backed Fence, Add	*0.55*
31 25 14 26-0011	LF	3' High Silt Fence with Stakes at 10' On Center	2.72
		For Wire Backed Fence, Add	*0.55*

31 25 14 26-0012 Silt Dike Barrier *(31 25 14 26-0001)*

31 25 14 26-0013	LF	Silt Dike Barrier With Stakes	4.08

31 25 14 26-0014 Super Silt Fences, 41" Total Height, 8" Below Ground *(31 25 14 26-0001)*

31 25 14 26-0015	LF	41" Total Height Super Silt Fence, 8" Below Ground, Galvanized Chain Link, With 2-1/2" Posts, 10' On Center With Geotextile Fabric Attached	13.19

31 25 14 26-0016 Silt Fences Removal *(31 25 14 26-0001)*

31 25 14 26-0017	LF	Removal Of Silt Fence And Stakes	0.96

31 25 14 26-0018 Hay And Straw Bales *(31 25 14 26)*
Note: Includes trench for placement, and stakes.

31 25 14 26-0019	LF	Place Sterilized Straw Bales Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0021 for removal of straw bale.	5.40
31 25 14 26-0020	LF	Place Hay Bales Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0021 for removal of hay bale.	5.00
31 25 14 26-0021	LF	Removal Of Hay Or Straw Bales Note: Includes removal of stakes.	1.72

31 25 14 26-0022 Ditch Check *(31 25 14 26)*

31 25 14 26-0023	SY	Ditch Check, Fiber Mat With 6" Gravel	15.22

31 25 14 26-0024 Sediment Logs (Degradable) *(31 25 14 26)*

31 25 14 26-0025 Sediment Logs (Degradable) *(31 25 14 26-0024)*
Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.

31 25 14 26-0026	LF	9" Sediment Fiber Roll Log	6.04
31 25 14 26-0027	LF	12" Sediment Fiber Roll Log	6.94
31 25 14 26-0028	LF	20" Sediment Fiber Roll Log	10.36

31 25 14 26-0029 Wattles (Degradable) With UV Stabilized Synthetic Netting *(31 25 14 26-0024)*
Note: Includes trench for placement, 24" wood staking at 4' on-center

31 25 14 26-0030	EA	Wattles (Sterile Straw Filled Rolls), 8" x 25'	121.40
31 25 14 26-0031	EA	Wattles (Sterile Straw Filled Rolls), 9" x 25'	126.12
31 25 14 26-0032	EA	Wattles (Sterile Straw Filled Rolls), 12" x 20'	130.27
31 25 14 26-0033	EA	Wattles (Sterile Straw Filled Rolls), 20" x 10'	130.74

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 26-0034		Fiber Roll (CALTRANS Type 1) *(31 25 14 26)* Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0035	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	6.63	
		For >1,000 To 10,000, Deduct	*-0.83*	
		For >10,000, Deduct	*-1.40*	
31 25 14 26-0036	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	6.87	
		For >1,000 To 10,000, Deduct	*-0.84*	
		For >10,000, Deduct	*-1.42*	
31 25 14 26-0037	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	8.77	
		For >1,000 To 10,000, Deduct	*-1.01*	
		For >10,000, Deduct	*-1.70*	
31 25 14 26-0038		Fiber Roll (CALTRANS Type 2) *(31 25 14 26)* Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0039	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	5.18	
		For >1,000 To 10,000, Deduct	*-0.61*	
		For >10,000, Deduct	*-1.03*	
31 25 14 26-0040	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	5.61	
		For >1,000 To 10,000, Deduct	*-0.65*	
		For >10,000, Deduct	*-1.10*	
31 25 14 26-0041	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	6.84	
		For >1,000 To 10,000, Deduct	*-0.72*	
		For >10,000, Deduct	*-1.21*	
31 25 14 26-0042		Inlet Protection Sediment Bags *(31 25 14 26)* Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0043	EA	2' x 2' x 3' Inlet Protection Sediment Bag	67.13	
31 25 14 26-0044	EA	2' x 3' x 3' Inlet Protection Sediment Bag	77.87	
31 25 14 26-0045	EA	2' x 4' x 3' Inlet Protection Sediment Bag	85.43	
31 25 14 26-0046		Flexible Foam Core Sediment Barrier, Triangular Silt Dike *(31 25 14 26)* Note: Includes aprons on either side, stakes and removal after use.		
31 25 14 26-0047	EA	10" x 7', Flexible Sediment Foam Barrier, Triangular Silt Dike	151.29	
31 25 14 26-0048		Clean Sediment Logs/Wattles *(31 25 14 26)* Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0049	EA	Clean Sediment Logs/Wattles	95.90	

31 30 Earthwork Methods *(31)*

31 31 Soil Treatment *(31 30)*

31 31 16 Termite Control *(31 31)*

31 31 16 13 Chemical Termite Control *(31 31 16)*

31 31 16 13-0001		Commercial Use *(31 31 16 13)*		
31 31 16 13-0002	SF	Termite Pretreatment, Commercial Soil Poisoning Under Slab	1.06	
31 31 16 13-0003	SF	Termite Pretreatment, Commercial Slab And Walls	1.49	
31 31 16 13-0004		Residential Use *(31 31 16 13)*		
31 31 16 13-0005	SF	Termite Pretreatment, Residential General Spraying Walls And Slab	1.54	
31 31 16 13-0006	SF	Termite Treatment, Existing Residential Structure	1.69	

31 31 19 Vegetation Control *(31 31)*

31 31 19 13 Chemical Vegetation Control *(31 31 19)*

31 31 19 13-0001		Soil Sterilants *(31 31 19 13)*		
31 31 19 13-0002	MSF	Soil Sterilant Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.	34.87	
		For >45 To 90, Deduct	*-0.52*	
		For >90 To 225, Deduct	*-2.78*	
		For >225, Deduct	*-3.81*	

31 32 Soil Stabilization *(31 30)*

31 32 13 Soil Mixing Stabilization *(31 32)*

31 32 13 16 Cement Soil Stabilization *(31 32 13)*

31 32 13 16-0001		Cementitious Soil Binder *(31 32 13 16)*		
31 32 13 16-0002	CY	Cementitious Soil Binder, 4% Cement Mix By Volume	42.61	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 13 16-0003	CY	Cementitious Soil Binder, 6% Cement Mix By Volume	48.51	
31 32 13 16-0004	CY	Cementitious Soil Binder, 9% Cement Mix By Volume	58.22	
31 32 13 16-0005	CY	Cementitious Soil Binder, 12% Cement Mix By Volume	67.79	

31 32 13 19 Lime Soil Stabilization *(31 32 13)*

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 32 13 19-0001 Lime Slurry *(31 32 13 19)*

31 32 13 19-0002	LCY	Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume	38.73
31 32 13 19-0003	TON	Cement Stabilized Base Material	115.95
31 32 13 19-0004	CWT	Lime For Soil Stabilization	18.15
		Note: Excludes the cost for spreading or backfilling	
31 32 13 19-0005	LCY	Roller, Grader - Lime Stabilization	21.16
31 32 13 19-0006	LCY	Roller, Grader - Cement Stabilization	4.83

31 32 13 19-0007 Lime Stabilized Subgrade *(31 32 13 19)*

Note: Based on soil weight of 110 Lbs./CF using lime weight of 5.5 Lbs./CF (5%).

31 32 13 19-0008	SY	6" Thick Lime Stabilized Subgrade, 25 Lb.	12.30
		For 4% Lime Instead Of 5%, Deduct	*-0.32*
		For 6% Lime Instead Of 5%, Add	*0.32*
31 32 13 19-0009	SY	7" Thick Lime Stabilized Subgrade, 29 Lb.	14.28
		For 4% Lime Instead Of 5%, Deduct	*-0.37*
		For 6% Lime Instead Of 5%, Add	*0.37*
31 32 13 19-0010	SY	8" Thick Lime Stabilized Subgrade, 33 Lb.	16.29
		For 4% Lime Instead Of 5%, Deduct	*-0.42*
		For 6% Lime Instead Of 5%, Add	*0.42*

31 32 13 29 Liquid Soil Stabilization *(31 32 13)*

31 32 13 29-0001	GAL	Polyacrylamide And Calcium Solution	2.83

31 32 19 Geosynthetic Soil Stabilization and Layer Separation *(31 32)*

31 32 19 13 Geogrid Soil Stabilization *(31 32 19)*

31 32 19 13-0001 Geogrid Fabrics *(31 32 19 13)*

Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications. Includes stakes.

31 32 19 13-0002	SY	5.3 Ounce/SY, 1,700 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)	5.44
		For Up To 50, Add	*1.21*
		For >50 To 150, Add	*0.89*
		For >150 To 250, Add	*0.58*
		For >250 To 500, Add	*0.29*
31 32 19 13-0003	SY	6.9 Ounce/SY, 3,100 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)	6.21
		For Up To 50, Add	*1.37*
		For >50 To 150, Add	*1.01*
		For >150 To 250, Add	*0.66*
		For >250 To 500, Add	*0.33*
31 32 19 13-0004	SY	8.7 Ounce/SY, 4,280 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500)	6.78
		For Up To 50, Add	*1.49*
		For >50 To 150, Add	*1.10*
		For >150 To 250, Add	*0.72*
		For >250 To 500, Add	*0.36*
31 32 19 13-0005	SY	12.6 Ounce/SY, 7,315 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800)	9.76
		For Up To 50, Add	*2.09*
		For >50 To 150, Add	*1.55*
		For >150 To 250, Add	*1.02*
		For >250 To 500, Add	*0.51*
31 32 19 13-0006	SY	14.1 Ounce/SY, 9,790 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000)	11.17
		For Up To 50, Add	*2.38*
		For >50 To 150, Add	*1.77*
		For >150 To 250, Add	*1.16*
		For >250 To 500, Add	*0.58*
31 32 19 13-0007	SY	4.3 Ounce/SY, 1,658 Lb./FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)	5.53
		For Up To 50, Add	*1.22*
		For >50 To 150, Add	*0.91*
		For >150 To 250, Add	*0.59*
		For >250 To 500, Add	*0.30*
31 32 19 13-0008	SY	5.9 Ounce/SY, 2,192 Lb./FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30)	8.15
		For Up To 50, Add	*1.75*
		For >50 To 150, Add	*1.30*
		For >150 To 250, Add	*0.86*
		For >250 To 500, Add	*0.43*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16		**Geotextile Soil Stabilization** *(31 32 19)*		
31 32 19 16-0001		Nonwoven Polypropylene Geotextiles *(31 32 19 16)*		
		Note: For drainage, filtration and separation. Includes stakes.		
31 32 19 16-0002	SY	3.0 Ounce/SY, 40 Mil, 80 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS)	1.69	
		For Up To 50, Add	*0.38*	
		For >50 To 150, Add	*0.28*	
		For >150 To 250, Add	*0.18*	
		For >250 To 500, Add	*0.09*	
31 32 19 16-0003	SY	3.5 Ounce/SY, 50 Mil, 95 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS)	1.81	
		For Up To 50, Add	*0.41*	
		For >50 To 150, Add	*0.30*	
		For >150 To 250, Add	*0.20*	
		For >250 To 500, Add	*0.10*	
31 32 19 16-0004	SY	4.0 Ounce/SY, 60 Mil, 115 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS)	1.96	
		For Up To 50, Add	*0.44*	
		For >50 To 150, Add	*0.32*	
		For >150 To 250, Add	*0.21*	
		For >250 To 500, Add	*0.11*	
31 32 19 16-0005	SY	4.5 Ounce/SY, 55 Mil, 120 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS)	2.11	
		For Up To 50, Add	*0.47*	
		For >50 To 150, Add	*0.35*	
		For >150 To 250, Add	*0.23*	
		For >250 To 500, Add	*0.11*	
31 32 19 16-0006	SY	6.0 Ounce/SY, 70 Mil, 160 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS)	2.51	
		For Up To 50, Add	*0.55*	
		For >50 To 150, Add	*0.41*	
		For >150 To 250, Add	*0.27*	
		For >250 To 500, Add	*0.13*	
31 32 19 16-0007	SY	7.0 Ounce/SY, 85 Mil, 180 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS)	2.94	
		For Up To 50, Add	*0.65*	
		For >50 To 150, Add	*0.48*	
		For >150 To 250, Add	*0.31*	
		For >250 To 500, Add	*0.16*	
31 32 19 16-0008	SY	8.0 Ounce/SY, 85 Mil, 205 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS)	3.24	
		For Up To 50, Add	*0.71*	
		For >50 To 150, Add	*0.52*	
		For >150 To 250, Add	*0.34*	
		For >250 To 500, Add	*0.17*	
31 32 19 16-0009	SY	10 Ounce/SY, 115 Mil, 250 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS)	4.00	
		For Up To 50, Add	*0.86*	
		For >50 To 150, Add	*0.64*	
		For >150 To 250, Add	*0.42*	
		For >250 To 500, Add	*0.21*	
31 32 19 16-0010	SY	16 Ounce/SY, 175 Mil, 425 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric	7.22	
		For Up To 50, Add	*1.50*	
		For >50 To 150, Add	*1.12*	
		For >150 To 250, Add	*0.74*	
		For >250 To 500, Add	*0.37*	
31 32 19 16-0011		Woven Geotextiles Fabric *(31 32 19 16)*		
		Note: Includes stakes.		
31 32 19 16-0012	SY	200 Lb. Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55)	2.45	
		For Up To 50, Add	*0.54*	
		For >50 To 150, Add	*0.40*	
		For >150 To 250, Add	*0.26*	
		For >250 To 500, Add	*0.13*	
31 32 19 16-0013	SY	315 Lb. Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66)	3.44	
		For Up To 50, Add	*0.73*	
		For >50 To 150, Add	*0.55*	
		For >150 To 250, Add	*0.36*	
		For >250 To 500, Add	*0.18*	
31 32 19 16-0014	SY	4 To 6% Open Area, 370 x 250 Lb. Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%)	6.08	
		For Up To 50, Add	*1.27*	
		For >50 To 150, Add	*0.95*	
		For >150 To 250, Add	*0.63*	
		For >250 To 500, Add	*0.31*	
31 32 19 16-0015	SY	11 To 15% Open Area, 370 x 220 Lb. Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%)	5.93	
		For Up To 50, Add	*1.24*	
		For >50 To 150, Add	*0.93*	
		For >150 To 250, Add	*0.61*	
		For >250 To 500, Add	*0.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0016	SY	6.9 Oz./SY, 250 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF)	5.18	
		For Up To 50, Add	*1.09*	
		For >50 To 150, Add	*0.82*	
		For >150 To 250, Add	*0.54*	
		For >250 To 500, Add	*0.27*	
31 32 19 16-0017	SY	9.1 Oz./SY, 333 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF)	5.54	
		For Up To 50, Add	*1.17*	
		For >50 To 150, Add	*0.87*	
		For >150 To 250, Add	*0.57*	
		For >250 To 500, Add	*0.29*	
31 32 19 16-0018	SY	12.1 Oz./SY, 400 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF)	7.08	
		For Up To 50, Add	*1.47*	
		For >50 To 150, Add	*1.10*	
		For >150 To 250, Add	*0.73*	
		For >250 To 500, Add	*0.36*	
31 32 19 16-0019	SY	12.1 Oz./SY, 400 Lb./IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF)	10.10	
		For Up To 50, Add	*2.08*	
		For >50 To 150, Add	*1.55*	
		For >150 To 250, Add	*1.03*	
		For >250 To 500, Add	*0.51*	

31 32 19 16-0020 Geomembranes *(31 32 19 16)*

Note: Includes stakes.

31 32 19 16-0021 Polyvinyl Chloride (PVC) Geomembrane *(31 32 19 16-0020)*

31 32 19 16-0022	SF	20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.53
31 32 19 16-0023	SF	30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.77
31 32 19 16-0024	SF	40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.13
31 32 19 16-0025	SF	50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.56
31 32 19 16-0026	SF	60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.93
31 32 19 16-0027	SF	70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.21
31 32 19 16-0028	SF	80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.48
31 32 19 16-0029	SF	90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.85
31 32 19 16-0030	SF	100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	4.21

31 32 19 16-0031 High-Density Polyethylene (HDPE) Geomembrane *(31 32 19 16-0020)*

31 32 19 16-0032	SF	20 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.20
31 32 19 16-0033	SF	30 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.57
31 32 19 16-0034	SF	40 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.84
31 32 19 16-0035	SF	50 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	3.04
31 32 19 16-0036	SF	60 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	2.35
31 32 19 16-0037	SF	80 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	2.90
31 32 19 16-0038	SF	100 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	3.45
31 32 19 16-0039	SF	120 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	6.25
31 32 19 16-0040	SF	140 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	6.48

31 32 19 23 Geotextile Layer Separation *(31 32 19)*

31 32 19 23-0001 Polyethylene Plastic Sheeting Barrier *(31 32 19 23)*

Note: Includes stakes.

31 32 19 23-0002	SY	4 Mil Polyethylene Plastic Sheeting Barrier	0.79
31 32 19 23-0003	SY	6 Mil Polyethylene Plastic Sheeting Barrier	0.89
31 32 19 23-0004	SY	8 Mil Polyethylene Plastic Sheeting Barrier	1.44

31 32 19 26 Geoweb Cellular Confinement System *(31 32 19)*

Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.

31 32 19 26-0001 Geoweb Cellular Confinement System *(31 32 19 26)*

Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.

31 32 19 26-0002	SF	4" Geoweb Cellular Confinement System (Presto Geosystems)	7.99	
		For >20,000, Deduct	*-0.19*	
		For >2:1 Slope, Add	*1.37*	
31 32 19 26-0003	SF	6" Geoweb Cellular Confinement System (Presto Geosystems)	9.71	
		For >20,000, Deduct	*-0.28*	
		For >2:1 Slope, Add	*1.37*	
31 32 19 26-0004	SF	8" Geoweb Cellular Confinement System (Presto Geosystems)	11.76	
		For >20,000, Deduct	*-0.38*	
		For >2:1 Slope, Add	*1.37*	

31 32 36 Soil Nailing *(31 32)*

31 32 36 11 Soil Nailing Stabilization *(31 32 36)*

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 11-0001 Landslide and Slip-Out Stabilization *(31 32 36 11)*

Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.

31 32 36 11-0002 BioWall® *(31 32 36 11-0001)*

Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0003	SF	BioWall® Construction		25.00	

31 32 36 11-0004 Green Terra Mesh *(31 32 36 11-0001)*

Note: Furnish and install the Green Terra Mesh. Furnish equipment and incidentals necessary to complete the work. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0005	EA	Green Terra Mesh		635.25	

31 32 36 11-0006 GeoSynthetically Confined Soil™ (GCS®) Components *(31 32 36 11-0001)*

Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2,400 lb./ft. (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr. (10 miles/hr.). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or 3/4 in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front o See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0007	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Construction Note: Installation sold per square face foot (excludes materials)		23.75	
31 32 36 11-0008	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10" x 120")		108.50	
31 32 36 11-0009	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8" x 8" x 16")		6.50	
31 32 36 11-0010	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile		0.75	

31 32 36 11-0011 Turf *(31 32 36 11-0001)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0012 Permanent Turf Reinforcing Mat (TRM) *(31 32 36 11-0011)*

Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxial oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.

31 32 36 11-0013	SF	Permanent Turf Reinforcement Mat Note: sold per square face foot		1.50	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 11-0014 Biodegradable Turf Reinforcing Mat (TRM) *(31 32 36 11-0011)*

Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.

31 32 36 11-0015 SF Biodegradable Turf Reinforcement Mat 0.75
Note: sold per square face foot

31 32 36 11-0016 Shotcrete or Gunite *(31 32 36 11-0001)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0017 Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ *(31 32 36 11-0016)*

Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplastisizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying

31 32 36 11-0018 SFI Wet-Mix Reinforced Shotcrete 5.50
Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).

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CSI	UOM	DESCRIPTION	MINOR UNIT COST	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 11-0019 Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ *(31 32 36 11-0016)*

Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplastisizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C6

31 32 36 11-0020	SFI	Dry-Mix Reinforced Gunite Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).		8.50	

31 32 36 11-0021 Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ *(31 32 36 11-0016)*

31 32 36 11-0022	SFI	Steel Fiber Reinforcement Note: sold per inch thickness over one square face foot of area		1.25	

31 32 36 11-0023 Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® *(31 32 36 11-0001)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0024 Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® *(31 32 36 11-0023)*

Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.

31 32 36 11-0025	SF	High Capacity Diamond Mesh Note: sold per square face foot		11.00	
31 32 36 11-0026	SF	Double Twist Wire Mesh Note: sold per square face foot		13.75	

31 32 36 11-0027 Steel Plates *(31 32 36 11-0023)*

31 32 36 11-0028	EA	8x8 Galvanized Steel Plates		35.00	
31 32 36 11-0029	EA	10x10 Galvanized Steel Plates		54.75	
31 32 36 11-0030	EA	12x12 Galvanized Steel Plates		78.75	
31 32 36 11-0031	EA	8x8 Epoxy Coated Steel Plates		76.00	
31 32 36 11-0032	EA	10x10 Epoxy Coated Steel Plates		89.25	
31 32 36 11-0033	EA	12x12 Epoxy Coated Steel Plates		105.25	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0034		Drilled Horizontal Drains *(31 32 36 11-0001)* Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0035	LF	Drilled PVC Horizontal Drains (up to 2" Diameter)	26.00	
31 32 36 11-0036	LF	Stripdrain - 6" Wide	3.25	
31 32 36 11-0037	LF	Stripdrain - 12" Wide	4.00	
31 32 36 11-0038	LF	PVC Drain Collector Pipe System	26.75	
31 32 36 11-0039		Rockfall Stabilization *(31 32 36 11-0001)* Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0040	SF	Scaling	3.75	
31 32 36 11-0041	SF	Trim Blasting	155.00	
31 32 36 11-0042	SY	Slope Drape - Double Twist Wire Mesh	45.00	
31 32 36 11-0043	SY	Slope Drape - Cable Net	135.00	
31 32 36 11-0044	SY	Slope Drape - Tecco Mesh (4mm)	135.00	
31 32 36 11-0045	LF	Temporary Rockfall Barrier	500.00	
31 32 36 11-0046	LF	Low Reach Drilling (<25 feet)	25.00	
31 32 36 11-0047	LF	High Reach Drilling (>25 feet)	45.00	
31 32 36 11-0048	LF	Limited Access Drilling	100.00	
31 32 36 11-0049	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized)	18.50	
31 32 36 11-0050	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Epoxy Coated)	15.25	
31 32 36 11-0051	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized)	23.25	
31 32 36 11-0052	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Epoxy Coated)	17.25	
31 32 36 11-0053	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Galvanized)	23.50	
31 32 36 11-0054	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Epoxy Coated)	18.75	
31 32 36 11-0055	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Galvanized)	26.50	
31 32 36 11-0056	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Epoxy Coated)	21.00	
31 32 36 11-0057	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized)	29.25	
31 32 36 11-0058	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Epoxy Coated)	21.00	
31 32 36 11-0059	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized)	34.50	
31 32 36 11-0060	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Epoxy Coated)	31.75	
31 32 36 11-0061	EA	Rock Anchor Testing	825.00	
31 32 36 11-0062		Mobilization / Demobilization *(31 32 36 11-0001)*		
31 32 36 11-0063	EA	Mobilization - In State	10,000.00	
31 32 36 11-0064	EA	Mobilization - Out Of State	25,000.00	
31 32 36 11-0065	EA	Mobilization - Specialty Equipment Adder	9,800.00	
31 32 36 11-0066		Daily Crew Rates (DCR) *(31 32 36 11-0001)*		
31 32 36 11-0067	DAY	Soils Stabilization Crew - DCR , Per Workday	13,150.00	
31 32 36 11-0068	DAY	Rockfall Stabilization Crew - DCR, Per Workday	15,200.00	
31 32 36 11-0069	DAY	Compaction Grouting Crew - DCR, Per Workday	12,925.00	
31 32 36 11-0070	DAY	Additional Crew Member/Crew - DCR, Per Workday	2,050.00	
31 32 36 11-0071	EA	Out of State Crew Rotation	4,950.00	
31 32 36 11-0072	EA	Spider Excavation	5,500.00	
31 32 36 13		**Driven Soil Nailing** *(31 32 36)*		
31 32 36 13-0001		Large Diameter Micropiles *(31 32 36 13)* Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing)	94.50	
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing)	130.25	
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing)	166.50	
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing)	213.25	
31 32 36 16		**Grouted Soil Nailing** *(31 32 36)*		
31 32 36 16-0001		Grouting *(31 32 36 16)* Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 16-0002 Compaction Grouting *(31 32 36 16-0001)*

Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.

31 32 36 16-0003	LF	Compaction Grouting Casing Installation		52.75
31 32 36 16-0004	CF	Compaction Grout Injection for Soils Densification		55.50
31 32 36 16-0005	CF	Compaction Grout For Void Fill		39.00

31 32 36 16-0006 Polyurethane Grouting *(31 32 36 16-0001)*

Note: The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - Lbs./CF D 1622 3.0 Lbs./CF 6.0 Lbs./CF Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3' below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.

31 32 36 16-0007	LB	Polyurethane Grouting For Void Fill and Re-Leveling		11.50

31 32 36 19 Corrosion-Protected Soil Nailing *(31 32 36)*

31 32 36 19-0001 Self-Drilling SuperNails® / SuperMicropiles™ *(31 32 36 19)*

Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering B7X or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 19-0002 Self-Drilling SuperNails® *(31 32 36 19-0001)*

31 32 36 19-0003	EA	Self Drilling SuperNails® Up To 10 Ft. Length		559.00
31 32 36 19-0004	EA	Self Drilling SuperNails® Up To 20 Ft. Length		939.25
31 32 36 19-0005	EA	Self Drilling SuperNails® Up To 30 Ft. Length		1,305.75
31 32 36 19-0006	EA	Self Drilling SuperNails® Up To 40 Ft. Length		1,735.75
31 32 36 19-0007	EA	Self Drilling SuperNails® Up To 50 Ft. Length		2,119.75
31 32 36 19-0008	EA	Self Drilling SuperNails® Up To 60 Ft. Length		2,459.25
31 32 36 19-0009	EA	Self Drilling SuperNails® Up To 70 Ft. Length		2,879.25
31 32 36 19-0010	EA	Self Drilling SuperNails® Up To 80 Ft. Length		3,253.50
31 32 36 19-0011	EA	Additional Cost for 10' High Capacity X-51 Bar		129.50

31 32 36 19-0012 SuperNail® Testing *(31 32 36 19)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 19-0013	EA	SuperNail® Proof Testing	769.00	
31 32 36 19-0014	EA	SuperNail® Verification Testing	2,339.75	

31 32 36 26 Launched Soil Nailing *(31 32 36)*

31 32 36 26-0001 Launched SuperDrain™ (Horizontal Drains) *(31 32 36 26)*

Note: Furnish Launched SuperDrain™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Drainage perforations consist of 0.5-inch diameter holes drilled or torch-cut at 6 inch spacing along the distal 5 feet of nail. Every other hole is rotated 90º about the longitudinal axis of the nail. Furnish equipment and incidentals necessary to complete the work. Insert Launched SuperDrain™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 26-0002	EA	GalvaDized™ SuperDrain™ - Up To 20' Note: perforated GalvaDized™ steel tube up to 20 ft. length.	605.00	
31 32 36 26-0003	EA	Fiberglass SuperNail® - Up To 20' Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	621.50	
31 32 36 26-0004	EA	GalvaDized™ SuperNail® - Up To 20' Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	478.50	
31 32 36 26-0005	EA	Temporary Launched Soil Nail Note: bare steel tube up to 20 ft. length.	379.50	
31 32 36 26-0006	EA	Fiberglass SuperDrain™ Note: perforated fiberglass tube up to 20 ft. length.	495.00	
31 32 36 26-0007	EA	GalvaDized™ SuperDrain™ Note: perforated GalvaDized™ steel tube up to 20 ft. length.	379.50	

31 32 36 29 Drilled Soil Nailing *(31 32 36)*

31 32 36 29-0001 Drilled SuperNails® (Permanently Cased Soil Nails) *(31 32 36 29)*

Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 thread bar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner thread bar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® Up To 10 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	602.25	
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® Up To 20 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	693.50	
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® Up To 30 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	921.50	
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® Up To 40 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,056.00	
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® Up To 50 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,171.50	
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® Up To 60 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,376.50	
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® Up To 70 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,624.75	
31 32 36 29-0009	EA	Drilled GalvaDized™ SuperNail® Up To 80 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,872.75	

31 32 36 33 Drilled / Launched Soil Nailing *(31 32 36)*

31 32 36 33-0001 Drilled / Launched SuperMicropiles™ *(31 32 36 33)*

Note: Furnish SuperMicropiles™ that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 thread bar as the inner bar. SuperMicropiles™ may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperMicropile™ outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner thread bar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.

31 32 36 33-0002	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 20 Ft. Length Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	695.00	
31 32 36 33-0003	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 30 Ft. Length Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,020.00	
31 32 36 33-0004	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 40 Ft. Length Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,280.00	
31 32 36 33-0005	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 50 Ft. Length Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,540.00	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 35 Slope Protection *(31 30)*

31 35 19 Geosynthetic Slope Protection *(31 35)*

31 35 19 19 Slope Protection with Mulch Control Netting *(31 35 19)*

Note: Includes stakes.

31 35 19 19-0001 Erosion Control Fabric *(31 35 19 19)*

31 35 19 19-0002	SY	26.6 Oz./SY Erosion Control Fabric (Belton Industries Geocoir 900)	5.64

31 36 Gabions *(31 30)*

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 36 13 Gabion Boxes *(31 36)*

31 36 13 00-0001 Stone Filled Gabion Slope Protection *(31 36 13)*

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002	SY	6" Deep Stone Filled Gabion Slope Protection	79.75
31 36 13 00-0003	SY	9" Deep Stone Filled Gabion Slope Protection	94.20
31 36 13 00-0004	SY	12" Deep Stone Filled Gabion Slope Protection	113.80
31 36 13 00-0005	SY	15" Deep Stone Filled Gabion Slope Protection	134.37
31 36 13 00-0006	SY	18" Deep Stone Filled Gabion Slope Protection	157.76
31 36 13 00-0007	SY	24" Deep Stone Filled Gabion Slope Protection	215.97
31 36 13 00-0008	SY	36" Deep Stone Filled Gabion Slope Protection	273.03

31 37 Riprap *(31 30)*

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0043 for hauling section for greater than 15 miles.

31 37 13 Machined Riprap *(31 37)*

31 37 13 00-0001 Random - Filter Stone *(31 37 13)*

31 37 13 00-0002	CY	10 To 50 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	86.03
31 37 13 00-0003	CY	>50 To 100 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	100.09
31 37 13 00-0004	CY	>100 To 200 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	106.71
31 37 13 00-0005	CY	>200 To 300 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	114.25
31 37 13 00-0006	CY	>300 To 600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	120.32
31 37 13 00-0007	CY	>600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	130.26
31 37 13 00-0008	CY	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	149.37
31 37 13 00-0009	TON	10 To 50 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	56.90
31 37 13 00-0010	TON	>50 To 100 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	65.83
31 37 13 00-0011	TON	>100 To 200 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	70.03
31 37 13 00-0012	TON	>200 To 300 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	74.81
31 37 13 00-0013	TON	>300 To 600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	78.67
31 37 13 00-0014	TON	>600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	85.06
31 37 13 00-0015	TON	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	100.46
31 37 13 00-0016	TON	Spread Of Rip Rap By Machine Note: Excludes material	17.79
31 37 13 00-0017	TON	Key Rip Rap Note: Excludes material.	133.46
31 37 13 00-0018	CY	Chinking Rip Rap	62.55
31 37 13 00-0019	CY	Grout For Rip Rap	222.79

31 37 13 00-0020 Riprap Stone Channel Protection *(31 37 13)*

31 37 13 00-0021	SY	12" Thick (D50=6") Riprap Stone Channel Protection	74.75
31 37 13 00-0022	SY	16" Thick (D50=8") Riprap Stone Channel Protection	88.01
31 37 13 00-0023	SY	18" Thick (D50=6") Riprap Stone Channel Protection	103.12
31 37 13 00-0024	SY	18" Thick (D50=9") Riprap Stone Channel Protection	103.32
31 37 13 00-0025	SY	20" Thick (D50=10") Riprap Stone Channel Protection	116.65
31 37 13 00-0026	SY	24" Thick (D50=12") Riprap Stone Channel Protection	139.00
31 37 13 00-0027	SY	27" Thick (D50=9") Riprap Stone Channel Protection	152.51
31 37 13 00-0028	SY	30" Thick (D50=15") Riprap Stone Channel Protection	159.30
31 37 13 00-0029	SY	36" Thick (D50=18") Riprap Stone Channel Protection	177.60
31 37 13 00-0030	SY	42" Thick (D50=21") Riprap Stone Channel Protection	191.46
31 37 13 00-0031	SY	48" Thick (D50=12") Riprap Stone Channel Protection	208.12

31 37 13 00-0032 Riprap Stone Slope Protection *(31 37 13)*

31 37 13 00-0033	SY	16" Thick (D50=8") Riprap Stone Slope Protection	88.01
31 37 13 00-0034	SY	18" Thick (D50=6") Riprap Stone Slope Protection	103.12
31 37 13 00-0035	SY	18" Thick (D50=9") Riprap Stone Slope Protection	104.22
31 37 13 00-0036	SY	24" Thick (D50=12") Riprap Stone Slope Protection	139.00
31 37 13 00-0037	SY	30" Thick (D50=15") Riprap Stone Slope Protection	159.30
31 37 13 00-0038	SY	32" Thick (D50=16") Riprap Stone Slope Protection	168.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 37 13 00-0039	SY	36" Thick (D50=18") Riprap Stone Slope Protection	177.60	
31 37 13 00-0040	SY	48" Thick (D50=24") Riprap Stone Slope Protection	185.15	

31 37 16 Non-Machined Riprap *(31 37)*

31 37 16 13 Rubble-Stone Riprap *(31 37 16)*

31 37 16 13-0001 Rock Slope Protection *(31 37 16 13)*

31 37 16 13-0002	TON	1 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	51.65	
31 37 16 13-0003	TON	5 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	54.80	
31 37 16 13-0004	TON	25 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	56.90	
31 37 16 13-0005	TON	75 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	65.83	
31 37 16 13-0006	TON	200 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	70.03	
31 37 16 13-0007	TON	1/4 Ton Average Pieces Random, Dumped From Truck, Rock Slope Protection	78.67	
31 37 16 13-0008	TON	1 Ton Average Pieces Random, Dumped From Truck, Rock Slope Protection	85.06	
31 37 16 13-0009	TON	2 Ton Average Pieces Random, Dumped From Truck, Rock Slope Protection	92.08	
31 37 16 13-0010	TON	4 Ton Average Pieces Random, Dumped From Truck, Rock Slope Protection	102.61	

31 40 Shoring and Underpinning *(31)*

31 41 Shoring *(31 40)*

31 41 13 Timber Shoring *(31 41)*

31 41 13 00-0001 Wood Sheet Piling *(31 41 13)*

31 41 13 00-0002 Pull And Salvage *(31 41 13 00-0001)*

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-back (rock bolting) where required and excavation.

31 41 13 00-0003	SF	8' Deep Excavation, Wood Shoring, Pull And Salvage	15.49	
		For Wood Sheeting Left In Place		*-1.41*
31 41 13 00-0004	SF	10' Deep Excavation, Wood Shoring, Pull And Salvage	16.75	
		For Wood Sheeting Left In Place		*-1.66*
31 41 13 00-0005	SF	12' Deep Excavation, Wood Shoring, Pull And Salvage	18.15	
		For Wood Sheeting Left In Place		*-1.93*
31 41 13 00-0006	SF	14' Deep Excavation, Wood Shoring, Pull And Salvage	19.66	
		For Wood Sheeting Left In Place		*-2.23*
31 41 13 00-0007	SF	16' Deep Excavation, Wood Shoring, Pull And Salvage	21.30	
		For Wood Sheeting Left In Place		*-2.55*
31 41 13 00-0008	SF	18' Deep Excavation, Wood Shoring, Pull And Salvage	23.07	
		For Wood Sheeting Left In Place		*-2.92*
31 41 13 00-0009	SF	20' Deep Excavation, Wood Shoring, Pull And Salvage	25.02	
		For Wood Sheeting Left In Place		*-3.32*

31 41 16 Sheet Piling *(31 41)*

31 41 16 13 Steel Sheet Piling *(31 41 16)*

31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage *(31 41 16 13)*

Note: Up to 3 months. 38.5 KSI steel per SF minimum. Pounds per square foot (PSF) indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-back (rock bolting) where required and excavation.

31 41 16 13-0002	TON	Driven Steel Sheet Piling, 15' Excavation, 22 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage	2,462.21	
		For Standard Sheeting Left In Place, Add		*1,242.35*
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add		*1,193.86*
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add		*109.12*
		For High Strength Sheeting 55,000 PSI Grade, Add		*121.25*
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add		*375.87*
		For Each Additional Month >3 Months, Add		*60.62*
31 41 16 13-0003	TON	Driven Steel Sheet Piling, 20' Excavation, 27 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage	2,562.20	
		For Standard Sheeting Left In Place, Add		*1,192.36*
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add		*1,143.86*
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add		*109.12*
		For High Strength Sheeting 55,000 PSI Grade, Add		*121.25*
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add		*375.87*
		For Each Additional Month >3 Months, Add		*60.62*
31 41 16 13-0004	TON	Driven Steel Sheet Piling, 25' Excavation, 38 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage	3,027.07	
		For Standard Sheeting Left In Place, Add		*959.92*
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add		*911.43*
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add		*109.12*
		For High Strength Sheeting 55,000 PSI Grade, Add		*121.25*
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add		*375.87*
		For Each Additional Month >3 Months, Add		*60.62*
31 41 16 13-0005	TON	Driven Steel Sheet Piling, 30' Excavation, 38 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage	3,474.40	
		For Standard Sheeting Left In Place, Add		*736.26*
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add		*687.76*
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add		*109.12*
		For High Strength Sheeting 55,000 PSI Grade, Add		*121.25*
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add		*375.87*
		For Each Additional Month >3 Months, Add		*60.62*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 41 16 13-0006	TON	Driven Steel Sheet Piling, 35' Excavation, 38 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage	3,737.53	
		For Standard Sheeting Left In Place, Add	*604.69*	
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add	*556.20*	
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	*109.12*	
		For High Strength Sheeting 55,000 PSI Grade, Add	*121.25*	
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add	*375.87*	
		For Each Additional Month >3 Months, Add	*60.62*	
31 41 16 13-0007	TON	Driven Steel Sheet Piling, 40' Excavation, 38 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage	4,005.93	
		For Standard Sheeting Left In Place, Add	*470.49*	
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add	*422.00*	
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	*109.12*	
		For High Strength Sheeting 55,000 PSI Grade, Add	*121.25*	
		For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add	*375.87*	
		For Each Additional Month >3 Months, Add	*60.62*	

31 43 Concrete Raising *(31 40)*

31 43 13 Pressure Grouting *(31 43)*

31 43 13 16 Polyurethane Pressure Grouting *(31 43 13)*

31 43 13 16-0001 PolyLift™ Concrete Injection For Lifting And Leveling *(31 43 13 16)*

31 43 13 16-0002	EA	Minimum Charge For Mobilization PolyLift™ Concrete Lifting And Leveling	3,953.35
31 43 13 16-0003	LB	Up To 1,000 Lb. PolyLift™ Concrete Injection For Lifting And Leveling Note: Per pound of material.	32.22
31 43 13 16-0004	LB	>1,000 Lb. PolyLift™ Concrete Injection For Lifting And Leveling Note: Per pound of material.	27.00

31 45 Vibroflotation and Densification *(31 40)*

31 45 13 Vibroflotation *(31 45)*

31 45 13 00-0001	LCY	Soil Stabilization, Vibroflotation	19.97

31 48 Underpinning *(31 40)*

31 48 33 Micropile Underpinning *(31 48)*

31 48 33 00-0001 Augered Micropile And Grout System *(31 48 33)*

31 48 33 00-0002	EA	Micropile Mobilization Per Job	2,881.83
31 48 33 00-0003	EA	Relocate And Set-up For Micropile Equipment At New Pile Cap Location	720.46
31 48 33 00-0004	VLF	Auger 8" Diameter Hole, Insert GEWI Micropile And Grout Void Note: Includes GEWI piles, thread bar extensions, couplers, spacers, top nut and steel bearing plate.	397.21
31 48 33 00-0005	VLF	Auger 8" Diameter Hole, Insert GEWI Micropile And Grout Void - Indoor Note: Includes GEWI piles, thread bar extensions, couplers, spacers, top nut and steel bearing plate.	487.27
31 48 33 00-0006	EA	Pile Load Test	3,602.29

31 50 Excavation Support and Protection *(31)*

31 52 Cofferdams *(31 50)*

31 52 21 Portable Cofferdams *(31 52)*

31 52 21 00-0001 Portable Cofferdams *(31 52 21)*
Note: Excludes dewatering and pumps.

31 52 21 00-0002 Portable Cofferdam Rental *(31 52 21 00-0001)*
Note: Excludes delivery and installation.

31 52 21 00-0003	LF	3' High x 7' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	53.00
31 52 21 00-0004	LF	4' High x 9' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	67.84
31 52 21 00-0005	LF	5' High x 11' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	95.40
31 52 21 00-0006	LF	6' High x 13' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	122.97
31 52 21 00-0007	LF	8' High x 17' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	159.01
31 52 21 00-0008	LF	10' High x 21' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	318.02
31 52 21 00-0009	LF	12' High x 25' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	445.22
31 52 21 00-0010	LF	16' High x 33' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	629.67

31 52 21 00-0011 Delivery And Set-up For Portable Cofferdam *(31 52 21 00-0001)*
Note: Excludes crane usage where required. See CSI section 01 22 23 00-1188 for crane lifting equipment.

31 52 21 00-0012	LF	Delivery And Set-up For Up To 5' High, Portable Cofferdam, In Dynamic (Rivers Or Streams) Water	11.99
31 52 21 00-0013	LF	Delivery And Set-up For 6' To 8' High, Portable Cofferdam, In Dynamic (Rivers Or Streams) Water	19.18
31 52 21 00-0014	LF	Delivery And Set-up For 10' To 12' High, Portable Cofferdam, In Dynamic (Rivers Or Streams) Water	28.77

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 52 21 00-0015	LF	Delivery And Set-up For 16' High, Portable Cofferdam, In Dynamic (Rivers Or Streams) Water	38.37	
31 52 21 00-0016	LF	Delivery And Set-up For Up To 5' High, Portable Cofferdam, In Static (Lakes Or Ponds) Water	7.19	
31 52 21 00-0017	LF	Delivery And Set-up For 6' To 8' High, Portable Cofferdam, In Static (Lakes Or Ponds) Water	11.99	
31 52 21 00-0018	LF	Delivery And Set-up For 10' To 12' High, Portable Cofferdam, In Static (Lakes Or Ponds) Water	19.18	
31 52 21 00-0019	LF	Delivery And Set-up For 16' High, Portable Cofferdam, In Static (Lakes Or Ponds) Water	26.38	

31 52 21 00-0020 Portable Cofferdam Repositioning *(31 52 21 00-0001)*

31 52 21 00-0021	LF	Up To 5' High, Portable Cofferdam, Repositioning	5.99	
31 52 21 00-0022	LF	6' To 8' High, Portable Cofferdam, Repositioning	9.59	
31 52 21 00-0023	LF	10' To 12' High, Portable Cofferdam, Repositioning	14.39	
31 52 21 00-0024	LF	16' High, Portable Cofferdam, Repositioning	19.18	

31 60 Special Foundations and Load-bearing Elements *(31)*

31 62 Driven Piles *(31 60)*

31 62 13 Concrete Piles *(31 62)*

31 62 13 23 Prestressed Concrete Piles *(31 62 13)*

31 62 13 23-0001 Square Prestressed Driven Concrete Piles *(31 62 13 23)*

31 62 13 23-0002	VLF	10" Square Prestressed Driven Concrete Pile	38.73	
		For Piles Driven In Water, Add	*18.98*	
31 62 13 23-0003	VLF	12" Square Prestressed Driven Concrete Pile	48.53	
		For Piles Driven In Water, Add	*21.39*	
31 62 13 23-0004	VLF	14" Square Prestressed Driven Concrete Pile	58.75	
		For Piles Driven In Water, Add	*23.50*	
31 62 13 23-0005	VLF	16" Square Prestressed Driven Concrete Pile	71.91	
		For Piles Driven In Water, Add	*26.08*	
31 62 13 23-0006	VLF	18" Square Prestressed Driven Concrete Pile	87.23	
		For Piles Driven In Water, Add	*29.06*	
31 62 13 23-0007	VLF	20" Square Prestressed Driven Concrete Pile	100.88	
		For Piles Driven In Water, Add	*32.13*	
31 62 13 23-0008	VLF	24" Square Prestressed Driven Concrete Pile	128.56	
		For Piles Driven In Water, Add	*36.90*	

31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles *(31 62 13 23)*

31 62 13 23-0010	VLF	12" Octagonal Prestressed Driven Concrete Pile	43.46	
		For Piles Driven In Water, Add	*19.90*	
31 62 13 23-0011	VLF	14" Octagonal Prestressed Driven Concrete Pile	53.28	
		For Piles Driven In Water, Add	*21.86*	
31 62 13 23-0012	VLF	16" Octagonal Prestressed Driven Concrete Pile	63.22	
		For Piles Driven In Water, Add	*23.94*	
31 62 13 23-0013	VLF	18" Octagonal Prestressed Driven Concrete Pile	75.54	
		For Piles Driven In Water, Add	*26.45*	
31 62 13 23-0014	VLF	20" Octagonal Prestressed Driven Concrete Pile	80.42	
		For Piles Driven In Water, Add	*28.38*	
31 62 13 23-0015	VLF	24" Octagonal Prestressed Driven Concrete Pile	85.59	
		For Piles Driven In Water, Add	*30.60*	

31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles *(31 62 13 23)*

31 62 13 23-0017	VLF	12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	62.18	
		For Piles Driven In Water, Add	*20.91*	
31 62 13 23-0018	VLF	14" Diameter, 2-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	73.62	
		For Piles Driven In Water, Add	*22.91*	
31 62 13 23-0019	VLF	16" Diameter, 3" Wall, Straight Cylinder Prestressed Driven Concrete Pile	87.17	
		For Piles Driven In Water, Add	*25.25*	
31 62 13 23-0020	VLF	18" Diameter, 3-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	98.57	
		For Piles Driven In Water, Add	*27.48*	
31 62 13 23-0021	VLF	20" Diameter, 4" Wall, Straight Cylinder Prestressed Driven Concrete Pile	123.76	
		For Piles Driven In Water, Add	*31.27*	
31 62 13 23-0022	VLF	24" Diameter, 5" Wall, Straight Cylinder Prestressed Driven Concrete Pile	152.83	
		For Piles Driven In Water, Add	*35.62*	

31 62 16 Steel Piles *(31 62)*

31 62 16 16 Steel H Piles *(31 62 16)*

31 62 16 16-0001 Rolled, Driven Steel H Piles *(31 62 16 16)*

31 62 16 16-0002	VLF	8" x 8" x 36 Lb./FT, Rolled, Driven Steel H Pile	38.85	
		For Piles Driven In Water, Add	*20.41*	
31 62 16 16-0003	VLF	10" x 10" x 42 Lb./FT, Rolled, Driven Steel H Pile	43.17	
		For Piles Driven In Water, Add	*21.66*	
31 62 16 16-0004	VLF	10" x 10" x 57 Lb./FT, Rolled, Driven Steel H Pile	51.71	
		For Piles Driven In Water, Add	*22.51*	
31 62 16 16-0005	VLF	12" x 12" x 53 Lb./FT, Rolled, Driven Steel H Pile	50.02	
		For Piles Driven In Water, Add	*22.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0006	VLF	12" x 12" x 63 Lb./FT, Rolled, Driven Steel H Pile	55.71	
		For Piles Driven In Water, Add	*23.44*	
31 62 16 16-0007	VLF	12" x 12" x 74 Lb./FT, Rolled, Driven Steel H Pile	63.63	
		For Piles Driven In Water, Add	*25.72*	
31 62 16 16-0008	VLF	12" x 12" x 84 Lb./FT, Rolled, Driven Steel H Pile	69.32	
		For Piles Driven In Water, Add	*26.29*	
31 62 16 16-0009	VLF	14" x 14" x 73 Lb./FT, Rolled, Driven Steel H Pile	63.58	
		For Piles Driven In Water, Add	*26.19*	
31 62 16 16-0010	VLF	14" x 14" x 89 Lb./FT, Rolled, Driven Steel H Pile	73.25	
		For Piles Driven In Water, Add	*27.15*	
31 62 16 16-0011	VLF	14" x 14" x 102 Lb./FT, Rolled, Driven Steel H Pile	81.92	
		For Piles Driven In Water, Add	*29.68*	
31 62 16 16-0012	VLF	14" x 14" x 117 Lb./FT, Rolled, Driven Steel H Pile	91.03	
		For Piles Driven In Water, Add	*30.59*	

31 62 16 16-0013 Splices, Caps, And Points For H-Piles *(31 62 16 16)*

31 62 16 16-0014 Rolled Steel H Pile Splices *(31 62 16 16-0013)*

31 62 16 16-0015	EA	8" Rolled Steel H Pile Splice	341.68
31 62 16 16-0016	EA	10" Rolled Steel H Pile Splice	382.11
31 62 16 16-0017	EA	12" Rolled Steel H Pile Splice	524.58
31 62 16 16-0018	EA	14" Rolled Steel H Pile Splice	544.80

31 62 16 16-0019 Rolled Steel H Driving Caps *(31 62 16 16-0013)*

31 62 16 16-0020	EA	8" Rolled Steel H Driving Cap	3,364.52
31 62 16 16-0021	EA	10" Rolled Steel H Driving Cap	3,364.52
31 62 16 16-0022	EA	12" Rolled Steel H Driving Cap	3,428.69
31 62 16 16-0023	EA	14" Rolled Steel H Driving Cap	5,146.82

31 62 16 16-0024 Rolled Steel H Standard Pile Points *(31 62 16 16-0013)*

31 62 16 16-0025	EA	8" Rolled Steel H Standard Pile Point	361.90
31 62 16 16-0026	EA	10" Rolled Steel H Standard Pile Point	382.11
31 62 16 16-0027	EA	12" Rolled Steel H Standard Pile Point	524.58
31 62 16 16-0028	EA	14" Rolled Steel H Standard Pile Point	585.22
31 62 16 16-0029	EA	10" Rolled Steel H Standard Pile Point	524.58
31 62 16 16-0030	EA	14" Rolled Steel H Standard Pile Point	624.38

31 62 16 19 Unfilled Tubular Steel Piles *(31 62 16)*

31 62 16 19-0001 Unfilled Tubular Driven Steel Piles *(31 62 16 19)*

31 62 16 19-0002	VLF	8" Diameter x 29 Lb./FT, Unfilled Tubular Driven Steel Pile	61.58
		For Piles Driven In Water, Add	*27.32*
31 62 16 19-0003	VLF	8" Diameter x 36 Lb./FT, Unfilled Tubular Driven Steel Pile	71.10
		For Piles Driven In Water, Add	*28.27*
31 62 16 19-0004	VLF	8" Diameter x 43 Lb./FT, Unfilled Tubular Driven Steel Pile	81.37
		For Piles Driven In Water, Add	*29.30*
31 62 16 19-0005	VLF	10" Diameter x 34 Lb./FT, Unfilled Tubular Driven Steel Pile	71.10
		For Piles Driven In Water, Add	*28.27*
31 62 16 19-0006	VLF	10" Diameter x 41 Lb./FT, Unfilled Tubular Driven Steel Pile	80.14
		For Piles Driven In Water, Add	*29.17*
31 62 16 19-0007	VLF	10" Diameter x 55 Lb./FT, Unfilled Tubular Driven Steel Pile	100.12
		For Piles Driven In Water, Add	*31.17*
31 62 16 19-0008	VLF	12" Diameter x 42 Lb./FT, Unfilled Tubular Driven Steel Pile	83.53
		For Piles Driven In Water, Add	*30.62*
31 62 16 19-0009	VLF	12" Diameter x 50 Lb./FT, Unfilled Tubular Driven Steel Pile	94.12
		For Piles Driven In Water, Add	*31.68*
31 62 16 19-0010	VLF	12" Diameter x 54 Lb./FT, Unfilled Tubular Driven Steel Pile	100.00
		For Piles Driven In Water, Add	*32.27*
31 62 16 19-0011	VLF	12" Diameter x 65 Lb./FT, Unfilled Tubular Driven Steel Pile	116.46
		For Piles Driven In Water, Add	*33.91*
31 62 16 19-0012	VLF	14" Diameter x 46 Lb./FT, Unfilled Tubular Driven Steel Pile	90.35
		For Piles Driven In Water, Add	*33.63*
31 62 16 19-0013	VLF	14" Diameter x 55 Lb./FT, Unfilled Tubular Driven Steel Pile	102.33
		For Piles Driven In Water, Add	*34.83*
31 62 16 19-0014	VLF	14" Diameter x 64 Lb./FT, Unfilled Tubular Driven Steel Pile	114.30
		For Piles Driven In Water, Add	*36.03*
31 62 16 19-0015	VLF	14" Diameter x 72 Lb./FT, Unfilled Tubular Driven Steel Pile	126.28
		For Piles Driven In Water, Add	*37.23*
31 62 16 19-0016	VLF	16" Diameter x 52 Lb./FT, Unfilled Tubular Driven Steel Pile	100.53
		For Piles Driven In Water, Add	*37.53*
31 62 16 19-0017	VLF	16" Diameter x 63 Lb./FT, Unfilled Tubular Driven Steel Pile	114.53
		For Piles Driven In Water, Add	*38.93*
31 62 16 19-0018	VLF	16" Diameter x 83 Lb./FT, Unfilled Tubular Driven Steel Pile	141.84
		For Piles Driven In Water, Add	*41.66*
31 62 16 19-0019	VLF	18" Diameter x 59 Lb./FT, Unfilled Tubular Driven Steel Pile	124.04
		For Piles Driven In Water, Add	*42.19*
31 62 16 19-0020	VLF	18" Diameter x 71 Lb./FT, Unfilled Tubular Driven Steel Pile	142.23
		For Piles Driven In Water, Add	*44.01*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0021	VLF	18" Diameter x 93 Lb./FT, Unfilled Tubular Driven Steel Pile	176.79	
		For Piles Driven In Water, Add	*47.47*	

31 62 16 19-0022 Splices And Points For Pipe Piles *(31 62 16 19)*

31 62 16 19-0023 Steel Pipe Pile Splices *(31 62 16 19-0022)*

31 62 16 19-0024	EA	8" Diameter, Steel Pipe Pile Splice	355.56
31 62 16 19-0025	EA	10" Diameter, Steel Pipe Pile Splice	388.36
31 62 16 19-0026	EA	12" Diameter, Steel Pipe Pile Splice	499.00
31 62 16 19-0027	EA	14" Diameter, Steel Pipe Pile Splice	531.35
31 62 16 19-0028	EA	16" Diameter, Steel Pipe Pile Splice	650.96
31 62 16 19-0029	EA	18" Diameter, Steel Pipe Pile Splice	794.58

31 62 16 19-0030 Steel Pipe Standard Pile Points *(31 62 16 19-0022)*

31 62 16 19-0031	EA	8" Diameter, Steel Pipe Standard Pile Point	340.82
31 62 16 19-0032	EA	10" Diameter, Steel Pipe Standard Pile Point	367.09
31 62 16 19-0033	EA	12" Diameter, Steel Pipe Standard Pile Point	418.43
31 62 16 19-0034	EA	14" Diameter, Steel Pipe Standard Pile Point	490.67
31 62 16 19-0035	EA	16" Diameter, Steel Pipe Standard Pile Point	556.34
31 62 16 19-0036	EA	18" Diameter, Steel Pipe Standard Pile Point	639.37

31 62 16 19-0037 Steel Pipe Heavy-Duty Pile Points *(31 62 16 19-0022)*

31 62 16 19-0038	EA	10" Diameter, Steel Pipe Heavy-Duty Pile Point	491.90
31 62 16 19-0039	EA	12" Diameter, Steel Pipe Heavy-Duty Pile Point	524.73
31 62 16 19-0040	EA	14" Diameter, Steel Pipe Heavy-Duty Pile Point	592.45
31 62 16 19-0041	EA	16" Diameter, Steel Pipe Heavy-Duty Pile Point	723.79
31 62 16 19-0042	EA	18" Diameter, Steel Pipe Heavy-Duty Pile Point	830.62

31 62 19 Timber Piles *(31 62)*

31 62 19 00-0001 Friction Or End Bearing, Driven Treated Wood Piles *(31 62 19)*

Note: 12 Lb. Penta-treated/CF.

31 62 19 00-0002	LF	Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	37.49
		For Piles Driven In Water, Add	*18.44*
		For Untreated Pile, Deduct	*-7.83*
		For Each Pile Tip Point, Add	*12.50*
		For Each Pile Butt, Driving Cap, Add	*20.10*
		For Each Splice For Pile >50', Add	*139.40*
31 62 19 00-0003	LF	>30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	39.78
		For Piles Driven In Water, Add	*20.51*
		For Untreated Pile, Deduct	*-7.92*
		For Each Pile Tip Point, Add	*12.50*
		For Each Pile Butt, Driving Cap, Add	*20.10*
		For Each Splice For Pile >50', Add	*139.40*
31 62 19 00-0004	LF	39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	41.96
		For Piles Driven In Water, Add	*21.82*
		For Untreated Pile, Deduct	*-8.28*
		For Each Pile Tip Point, Add	*12.50*
		For Each Pile Butt, Driving Cap, Add	*20.10*
		For Each Splice For Pile >50', Add	*139.40*
31 62 19 00-0005	LF	>49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	45.43
		For Piles Driven In Water, Add	*24.38*
		For Untreated Pile, Deduct	*-8.65*
		For Each Pile Tip Point, Add	*12.50*
		For Each Pile Butt, Driving Cap, Add	*20.10*
		For Each Splice For Pile >50', Add	*139.40*
31 62 19 00-0006	LF	>59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	55.79
		For Piles Driven In Water, Add	*27.62*
		For Untreated Pile, Deduct	*-11.58*
		For Each Pile Tip Point, Add	*12.50*
		For Each Pile Butt, Driving Cap, Add	*20.10*
		For Each Splice For Pile >50', Add	*139.40*
31 62 19 00-0007	LF	>69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	69.40
		For Piles Driven In Water, Add	*33.38*
		For Untreated Pile, Deduct	*-14.81*
		For Each Pile Tip Point, Add	*12.50*
		For Each Pile Butt, Driving Cap, Add	*20.10*
		For Each Splice For Pile >50', Add	*139.40*

31 62 23 Composite Piles *(31 62)*

31 62 23 13 Concrete-Filled Steel Piles *(31 62 23)*

31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles *(31 62 23 13)*

Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.

31 62 23 13-0002	VLF	8" Diameter x 29 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	65.79
		For 5,000 PSI Concrete Grout Fill, Add	*6.95*
		For Piles Driven In Water, Add	*29.57*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0003	VLF	8" Diameter x 36 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	75.31	
		For 5,000 PSI Concrete Grout Fill, Add	*7.91*	
		For Piles Driven In Water, Add	*30.53*	
31 62 23 13-0004	VLF	8" Diameter x 43 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	85.59	
		For 5,000 PSI Concrete Grout Fill, Add	*8.93*	
		For Piles Driven In Water, Add	*31.55*	
31 62 23 13-0005	VLF	10" Diameter x 34 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	77.17	
		For 5,000 PSI Concrete Grout Fill, Add	*9.68*	
		For Piles Driven In Water, Add	*31.23*	
31 62 23 13-0006	VLF	10" Diameter x 41 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	86.21	
		For 5,000 PSI Concrete Grout Fill, Add	*10.58*	
		For Piles Driven In Water, Add	*32.13*	
31 62 23 13-0007	VLF	10" Diameter x 55 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	106.19	
		For 5,000 PSI Concrete Grout Fill, Add	*12.58*	
		For Piles Driven In Water, Add	*34.13*	
31 62 23 13-0008	VLF	12" Diameter x 42 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	92.06	
		For 5,000 PSI Concrete Grout Fill, Add	*12.95*	
		For Piles Driven In Water, Add	*34.69*	
31 62 23 13-0009	VLF	12" Diameter x 50 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	102.64	
		For 5,000 PSI Concrete Grout Fill, Add	*14.01*	
		For Piles Driven In Water, Add	*35.75*	
31 62 23 13-0010	VLF	12" Diameter x 54 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	108.52	
		For 5,000 PSI Concrete Grout Fill, Add	*14.60*	
		For Piles Driven In Water, Add	*36.34*	
31 62 23 13-0011	VLF	12" Diameter x 65 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	124.98	
		For 5,000 PSI Concrete Grout Fill, Add	*16.25*	
		For Piles Driven In Water, Add	*37.99*	
31 62 23 13-0012	VLF	14" Diameter x 46 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	102.02	
		For 5,000 PSI Concrete Grout Fill, Add	*15.84*	
		For Piles Driven In Water, Add	*39.99*	
31 62 23 13-0013	VLF	14" Diameter x 55 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	113.99	
		For 5,000 PSI Concrete Grout Fill, Add	*17.04*	
		For Piles Driven In Water, Add	*41.19*	
31 62 23 13-0014	VLF	14" Diameter x 64 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	125.97	
		For 5,000 PSI Concrete Grout Fill, Add	*18.24*	
		For Piles Driven In Water, Add	*42.39*	
31 62 23 13-0015	VLF	14" Diameter x 72 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	137.94	
		For 5,000 PSI Concrete Grout Fill, Add	*19.43*	
		For Piles Driven In Water, Add	*43.58*	
31 62 23 13-0016	VLF	16" Diameter x 52 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	112.87	
		For 5,000 PSI Concrete Grout Fill, Add	*19.48*	
		For Piles Driven In Water, Add	*42.86*	
31 62 23 13-0017	VLF	16" Diameter x 63 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	126.87	
		For 5,000 PSI Concrete Grout Fill, Add	*20.88*	
		For Piles Driven In Water, Add	*44.26*	
31 62 23 13-0018	VLF	16" Diameter x 83 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	154.18	
		For 5,000 PSI Concrete Grout Fill, Add	*23.61*	
		For Piles Driven In Water, Add	*46.99*	
31 62 23 13-0019	VLF	18" Diameter x 59 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	138.80	
		For 5,000 PSI Concrete Grout Fill, Add	*24.92*	
		For Piles Driven In Water, Add	*48.00*	
31 62 23 13-0020	VLF	18" Diameter x 71 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	156.99	
		For 5,000 PSI Concrete Grout Fill, Add	*26.74*	
		For Piles Driven In Water, Add	*49.82*	
31 62 23 13-0021	VLF	18" Diameter x 93 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	191.54	
		For 5,000 PSI Concrete Grout Fill, Add	*30.19*	
		For Piles Driven In Water, Add	*53.27*	

31 62 23 13-0022 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles *(31 62 23 13)*

Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.

31 62 23 13-0023	VLF	12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile	85.12	
		For Piles Driven In Water, Add	*26.13*	
31 62 23 13-0024	VLF	14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile	103.29	
		For Piles Driven In Water, Add	*29.22*	
31 62 23 13-0025	VLF	16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile	116.92	
		For Piles Driven In Water, Add	*32.03*	
31 62 23 13-0026	VLF	18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile	127.19	
		For Piles Driven In Water, Add	*34.76*	

31 62 23 13-0027 Tapered Friction Concrete-Filled Driven Steel Piles *(31 62 23 13)*

Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.

31 62 23 13-0028	VLF	12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile	83.50	
		For Piles Driven In Water, Add	*25.97*	
31 62 23 13-0029	VLF	14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile	85.72	
		For Piles Driven In Water, Add	*27.46*	
31 62 23 13-0030	VLF	16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile	104.60	
		For Piles Driven In Water, Add	*30.80*	
31 62 23 13-0031	VLF	18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile	120.68	
		For Piles Driven In Water, Add	*34.11*	

31 62 23 13-0032 Thin Wall Shell Straight Sided Driven Steel Piles *(31 62 23 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0033	VLF	8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	50.20	
		For Piles Driven In Water, Add	*19.89*	
		For Thick Wall Shell, Add	*0.08*	
31 62 23 13-0034	VLF	10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	55.43	
		For Piles Driven In Water, Add	*22.08*	
		For Thick Wall Shell, Add	*0.09*	
31 62 23 13-0035	VLF	12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	60.59	
		For Piles Driven In Water, Add	*24.24*	
		For Thick Wall Shell, Add	*0.10*	
31 62 23 13-0036	VLF	14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	65.82	
		For Piles Driven In Water, Add	*26.42*	
		For Thick Wall Shell, Add	*0.11*	
31 62 23 13-0037	VLF	16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	71.03	
		For Piles Driven In Water, Add	*28.59*	
		For Thick Wall Shell, Add	*0.12*	

31 63 Bored Piles *(31 60)*

31 63 36 Drilled Steel Piles *(31 63)*

31 63 36 00-0001 Drill Hole *(31 63 36)*

Note: Excludes removal of excess material.

31 63 36 00-0002 Drilling Mobilization *(31 63 36 00-0001)*

31 63 36 00-0003	EA	>12" To 24" Diameter Hole, Drilling Mobilization	1,080.69
31 63 36 00-0004	EA	>24" Diameter Hole, Drilling Mobilization	1,440.92

31 63 36 00-0005 Drill Hole In Soil *(31 63 36 00-0001)*

31 63 36 00-0006	LF	18" Diameter, Up To 24' Depth, Drilled/Augered Hole	59.60
31 63 36 00-0007	LF	20" Diameter, Up To 24' Depth, Drilled/Augered Hole	69.30
31 63 36 00-0008	LF	22" Diameter, Up To 24' Depth, Drilled/Augered Hole	81.43
31 63 36 00-0009	LF	24" Diameter, Up To 24' Depth, Drilled/Augered Hole	95.98
31 63 36 00-0010	LF	26" Diameter, Up To 24' Depth, Drilled/Augered Hole	103.74
31 63 36 00-0011	LF	28" Diameter, Up To 24' Depth, Drilled/Augered Hole	114.14
31 63 36 00-0012	LF	30" Diameter, Up To 24' Depth, Drilled/Augered Hole	125.02

31 63 36 00-0013 Steel H Piles *(31 63 36)*

31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles *(31 63 36 00-0013)*

Note: Includes guides, bracing and alignment.

31 63 36 00-0015	VLF	8" x 8" x 36 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	34.82
		For >2,400 To 3,600, Deduct	*-1.23*
		For >3,600 To 4,800, Deduct	*-2.46*
		For >4,800 To 6,000, Deduct	*-4.20*
		For >6,000, Deduct	*-5.94*
31 63 36 00-0016	VLF	10" x 10" x 42 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	38.94
		For >2,400 To 3,600, Deduct	*-1.35*
		For >3,600 To 4,800, Deduct	*-2.70*
		For >4,800 To 6,000, Deduct	*-4.65*
		For >6,000, Deduct	*-6.59*
31 63 36 00-0017	VLF	10" x 10" x 57 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	47.48
		For >2,400 To 3,600, Deduct	*-1.56*
		For >3,600 To 4,800, Deduct	*-3.13*
		For >4,800 To 6,000, Deduct	*-5.50*
		For >6,000, Deduct	*-7.87*
31 63 36 00-0018	VLF	12" x 12" x 53 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	45.66
		For >2,400 To 3,600, Deduct	*-1.53*
		For >3,600 To 4,800, Deduct	*-3.06*
		For >4,800 To 6,000, Deduct	*-5.34*
		For >6,000, Deduct	*-7.62*
31 63 36 00-0019	VLF	12" x 12" x 63 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	51.35
		For >2,400 To 3,600, Deduct	*-1.67*
		For >3,600 To 4,800, Deduct	*-3.34*
		For >4,800 To 6,000, Deduct	*-5.91*
		For >6,000, Deduct	*-8.48*
31 63 36 00-0020	VLF	12" x 12" x 74 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	58.90
		For >2,400 To 3,600, Deduct	*-1.89*
		For >3,600 To 4,800, Deduct	*-3.78*
		For >4,800 To 6,000, Deduct	*-6.73*
		For >6,000, Deduct	*-9.67*
31 63 36 00-0021	VLF	12" x 12" x 84 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	64.59
		For >2,400 To 3,600, Deduct	*-2.03*
		For >3,600 To 4,800, Deduct	*-4.07*
		For >4,800 To 6,000, Deduct	*-7.30*
		For >6,000, Deduct	*-10.53*
31 63 36 00-0022	VLF	14" x 14" x 73 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	58.74
		For >2,400 To 3,600, Deduct	*-1.90*
		For >3,600 To 4,800, Deduct	*-3.80*
		For >4,800 To 6,000, Deduct	*-6.73*
		For >6,000, Deduct	*-9.67*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0023	VLF	14" x 14" x 89 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	68.41	
		For >2,400 To 3,600, Deduct	*-2.14*	
		For >3,600 To 4,800, Deduct	*-4.28*	
		For >4,800 To 6,000, Deduct	*-7.70*	
		For >6,000, Deduct	*-11.12*	
31 63 36 00-0024	VLF	14" x 14" x 102 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	76.68	
		For >2,400 To 3,600, Deduct	*-2.38*	
		For >3,600 To 4,800, Deduct	*-4.77*	
		For >4,800 To 6,000, Deduct	*-8.60*	
		For >6,000, Deduct	*-12.43*	
31 63 36 00-0025	VLF	14" x 14" x 117 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	85.79	
		For >2,400 To 3,600, Deduct	*-2.61*	
		For >3,600 To 4,800, Deduct	*-5.22*	
		For >4,800 To 6,000, Deduct	*-9.51*	
		For >6,000, Deduct	*-13.80*	

31 63 36 00-0026 Welded Steel Stud Pins *(31 63 36 00-0013)*

Note: Includes welding to steel piles.

31 63 36 00-0027	EA	5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	14.50	
		For >50 To 150, Deduct	*-0.67*	
		For >150 To 250, Deduct	*-1.36*	
		For >250 To 500, Deduct	*-2.06*	
		For >500, Deduct	*-2.75*	
31 63 36 00-0028	EA	5/8" Diameter x 5" Long, Welded Steel Stud Pins	15.70	
		For >50 To 150, Deduct	*-0.67*	
		For >150 To 250, Deduct	*-1.39*	
		For >250 To 500, Deduct	*-2.12*	
		For >500, Deduct	*-2.84*	
31 63 36 00-0029	EA	5/8" Diameter x 7" Long, Welded Steel Stud Pins	16.86	
		For >50 To 150, Deduct	*-0.67*	
		For >150 To 250, Deduct	*-1.42*	
		For >250 To 500, Deduct	*-2.18*	
		For >500, Deduct	*-2.93*	
31 63 36 00-0030	EA	3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	15.89	
		For >50 To 150, Deduct	*-0.70*	
		For >150 To 250, Deduct	*-1.45*	
		For >250 To 500, Deduct	*-2.19*	
		For >500, Deduct	*-2.94*	
31 63 36 00-0031	EA	3/4" Diameter x 5" Long, Welded Steel Stud Pins	17.71	
		For >50 To 150, Deduct	*-0.70*	
		For >150 To 250, Deduct	*-1.49*	
		For >250 To 500, Deduct	*-2.28*	
		For >500, Deduct	*-3.08*	
31 63 36 00-0032	EA	3/4" Diameter x 7" Long, Welded Steel Stud Pins	18.99	
		For >50 To 150, Deduct	*-0.70*	
		For >150 To 250, Deduct	*-1.52*	
		For >250 To 500, Deduct	*-2.35*	
		For >500, Deduct	*-3.17*	
31 63 36 00-0033	EA	7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	17.54	
		For >50 To 150, Deduct	*-0.73*	
		For >150 To 250, Deduct	*-1.53*	
		For >250 To 500, Deduct	*-2.33*	
		For >500, Deduct	*-3.14*	
31 63 36 00-0034	EA	7/8" Diameter x 5" Long, Welded Steel Stud Pins	20.51	
		For >50 To 150, Deduct	*-0.73*	
		For >150 To 250, Deduct	*-1.61*	
		For >250 To 500, Deduct	*-2.48*	
		For >500, Deduct	*-3.36*	
31 63 36 00-0035	EA	7/8" Diameter x 7" Long, Welded Steel Stud Pins	21.96	
		For >50 To 150, Deduct	*-0.73*	
		For >150 To 250, Deduct	*-1.64*	
		For >250 To 500, Deduct	*-2.56*	
		For >500, Deduct	*-3.47*	

31 63 36 00-0036 Concrete Fill *(31 63 36)*

See CSI section 03 37 16 00-0001 for pumping equipment.

31 63 36 00-0037	VLF	18" Diameter Hole Pumped Concrete Fill For Drilled Pile	45.67
31 63 36 00-0038	VLF	20" Diameter Hole Pumped Concrete Fill For Drilled Pile	50.72
31 63 36 00-0039	VLF	22" Diameter Hole Pumped Concrete Fill For Drilled Pile	55.81
31 63 36 00-0040	VLF	24" Diameter Hole Pumped Concrete Fill For Drilled Pile	60.87
31 63 36 00-0041	VLF	26" Diameter Hole Pumped Concrete Fill For Drilled Pile	65.94
31 63 36 00-0042	VLF	28" Diameter Hole Pumped Concrete Fill For Drilled Pile	71.02
31 63 36 00-0043	VLF	30" Diameter Hole Pumped Concrete Fill For Drilled Pile	83.87

31 64 Caissons *(31 60)*

31 64 13 Box Caissons *(31 64)*

31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water *(31 64 13)*

Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0002 Caisson In Stable Ground *(31 64 13 00-0001)*

Note: Includes 3000 PSI concrete and reinforcing.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0003	VLF	18" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.	61.62	
		For >50' To 100' Deep, Add	*5.84*	
		For >100' To 150' Deep, Add	*15.41*	
		For >150' To 200' Deep, Add	*20.39*	
		For Right Angle Drilling, Add	*16.80*	
31 64 13 00-0004	VLF	24" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.	76.24	
		For >50' To 100' Deep, Add	*7.90*	
		For >100' To 150' Deep, Add	*19.06*	
		For >150' To 200' Deep, Add	*26.07*	
		For Right Angle Drilling, Add	*18.68*	
31 64 13 00-0005	VLF	30" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.	106.88	
		For >50' To 100' Deep, Add	*11.56*	
		For >100' To 150' Deep, Add	*26.72*	
		For >150' To 200' Deep, Add	*37.16*	
		For Right Angle Drilling, Add	*24.67*	
31 64 13 00-0006	VLF	36" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.	140.44	
		For >50' To 100' Deep, Add	*15.69*	
		For >100' To 150' Deep, Add	*35.11*	
		For >150' To 200' Deep, Add	*49.46*	
		For Right Angle Drilling, Add	*30.84*	
31 64 13 00-0007	VLF	42" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.	178.33	
		For >50' To 100' Deep, Add	*20.67*	
		For >100' To 150' Deep, Add	*44.58*	
		For >150' To 200' Deep, Add	*63.73*	
		For Right Angle Drilling, Add	*36.84*	
31 64 13 00-0008	VLF	48" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.	213.94	
		For >50' To 100' Deep, Add	*25.28*	
		For >100' To 150' Deep, Add	*53.49*	
		For >150' To 200' Deep, Add	*77.06*	
		For Right Angle Drilling, Add	*42.68*	
31 64 13 00-0009	VLF	54" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF.	256.14	
		For >50' To 100' Deep, Add	*31.23*	
		For >100' To 150' Deep, Add	*64.04*	
		For >150' To 200' Deep, Add	*93.47*	
		For Right Angle Drilling, Add	*48.08*	
31 64 13 00-0010	VLF	60" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF.	299.32	
		For >50' To 100' Deep, Add	*37.33*	
		For >100' To 150' Deep, Add	*74.83*	
		For >150' To 200' Deep, Add	*110.27*	
		For Right Angle Drilling, Add	*53.58*	
31 64 13 00-0011	VLF	66" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.88 CY Concrete per VLF, 113 Lb. rebar per VLF.	348.20	
		For >50' To 100' Deep, Add	*44.19*	
		For >100' To 150' Deep, Add	*87.05*	
		For >150' To 200' Deep, Add	*129.23*	
		For Right Angle Drilling, Add	*59.94*	
31 64 13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF.	404.03	
		For >50' To 100' Deep, Add	*52.09*	
		For >100' To 150' Deep, Add	*101.01*	
		For >150' To 200' Deep, Add	*150.97*	
		For Right Angle Drilling, Add	*67.01*	
31 64 13 00-0013	VLF	78" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF.	459.51	
		For >50' To 100' Deep, Add	*60.11*	
		For >100' To 150' Deep, Add	*114.88*	
		For >150' To 200' Deep, Add	*172.78*	
		For Right Angle Drilling, Add	*73.51*	
31 64 13 00-0014	VLF	84" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF.	518.62	
		For >50' To 100' Deep, Add	*68.71*	
		For >100' To 150' Deep, Add	*129.66*	
		For >150' To 200' Deep, Add	*196.10*	
		For Right Angle Drilling, Add	*80.24*	

31 64 13 00-0015 For Bell Excavation And Concrete, Add *(31 64 13 00-0001)*

31 64 13 00-0016	EA	Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY	488.96	
		For >50' To 100' Deep, Add	*39.29*	
		For >100' To 150' Deep, Add	*122.24*	
		For >150' To 200' Deep, Add	*153.02*	
31 64 13 00-0017	EA	Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY	1,718.60	
		For >50' To 100' Deep, Add	*138.30*	
		For >100' To 150' Deep, Add	*429.65*	
		For >150' To 200' Deep, Add	*538.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0018	EA	Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY	2,595.06	
		For >50' To 100' Deep, Add	*211.93*	
		For >100' To 150' Deep, Add	*648.77*	
		For >150' To 200' Deep, Add	*816.36*	
31 64 13 00-0019	EA	Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY	3,601.44	
		For >50' To 100' Deep, Add	*294.66*	
		For >100' To 150' Deep, Add	*900.36*	
		For >150' To 200' Deep, Add	*1,133.63*	
31 64 13 00-0020	EA	Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY	4,896.60	
		For >50' To 100' Deep, Add	*393.94*	
		For >100' To 150' Deep, Add	*1,224.15*	
		For >150' To 200' Deep, Add	*1,532.95*	
31 64 13 00-0021	EA	Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY	5,757.95	
		For >50' To 100' Deep, Add	*463.05*	
		For >100' To 150' Deep, Add	*1,439.49*	
		For >150' To 200' Deep, Add	*1,802.37*	
31 64 13 00-0022	EA	Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY	9,767.42	
		For >50' To 100' Deep, Add	*784.02*	
		For >100' To 150' Deep, Add	*2,441.86*	
		For >150' To 200' Deep, Add	*3,055.60*	
31 64 13 00-0023	EA	Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY	14,107.44	
		For >50' To 100' Deep, Add	*1,143.12*	
		For >100' To 150' Deep, Add	*3,526.86*	
		For >150' To 200' Deep, Add	*4,426.73*	

31 64 13 00-0024 Caisson In Wet Ground, Casing Pulled *(31 64 13)*

Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0025 Caisson In Wet Ground *(31 64 13 00-0024)*

Note: Includes 3000 PSI concrete and reinforcing.

31 64 13 00-0026	VLF	18" Diameter Caisson Wet Ground, Casing Pulled Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.	68.59	
		For >50' To 100' Deep, Add	*6.32*	
		For >100' To 150' Deep, Add	*17.15*	
		For >150' To 200' Deep, Add	*22.47*	
		For Right Angle Drilling, Add	*19.27*	
31 64 13 00-0027	VLF	24" Diameter Caisson Wet Ground, Casing Pulled Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.	114.76	
		For >50' To 100' Deep, Add	*10.59*	
		For >100' To 150' Deep, Add	*28.69*	
		For >150' To 200' Deep, Add	*37.63*	
		For Right Angle Drilling, Add	*32.17*	
31 64 13 00-0028	VLF	30" Diameter Caisson Wet Ground, Casing Pulled Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.	150.25	
		For >50' To 100' Deep, Add	*14.59*	
		For >100' To 150' Deep, Add	*37.56*	
		For >150' To 200' Deep, Add	*50.17*	
		For Right Angle Drilling, Add	*39.85*	
31 64 13 00-0029	VLF	36" Diameter Caisson Wet Ground, Casing Pulled Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.	205.66	
		For >50' To 100' Deep, Add	*20.26*	
		For >100' To 150' Deep, Add	*51.42*	
		For >150' To 200' Deep, Add	*69.02*	
		For Right Angle Drilling, Add	*53.67*	
31 64 13 00-0030	VLF	42" Diameter Caisson Wet Ground, Casing Pulled Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.	258.81	
		For >50' To 100' Deep, Add	*26.30*	
		For >100' To 150' Deep, Add	*64.70*	
		For >150' To 200' Deep, Add	*87.88*	
		For Right Angle Drilling, Add	*65.00*	
31 64 13 00-0031	VLF	48" Diameter Caisson Wet Ground, Casing Pulled Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.	309.36	
		For >50' To 100' Deep, Add	*31.96*	
		For >100' To 150' Deep, Add	*77.34*	
		For >150' To 200' Deep, Add	*105.69*	
		For Right Angle Drilling, Add	*76.08*	
31 64 13 00-0032	VLF	54" Diameter Caisson Wet Ground, Casing Pulled Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF.	399.05	
		For >50' To 100' Deep, Add	*41.24*	
		For >100' To 150' Deep, Add	*99.76*	
		For >150' To 200' Deep, Add	*136.34*	
		For Right Angle Drilling, Add	*98.10*	
31 64 13 00-0033	VLF	60" Diameter Caisson Wet Ground, Casing Pulled Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF.	488.46	
		For >50' To 100' Deep, Add	*50.57*	
		For >100' To 150' Deep, Add	*122.12*	
		For >150' To 200' Deep, Add	*167.01*	
		For Right Angle Drilling, Add	*119.78*	
31 64 13 00-0034	VLF	66" Diameter Caisson Wet Ground, Casing Pulled Note: 0.87 CY Concrete per VLF, 113 Lb. rebar per VLF.	555.11	
		For >50' To 100' Deep, Add	*58.67*	
		For >100' To 150' Deep, Add	*138.78*	
		For >150' To 200' Deep, Add	*191.30*	
		For Right Angle Drilling, Add	*132.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled	628.65	
		Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	*67.81*	
		For >100' To 150' Deep, Add	*157.16*	
		For >150' To 200' Deep, Add	*218.36*	
		For Right Angle Drilling, Add	*145.63*	
31 64 13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled	713.44	
		Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	*77.88*	
		For >100' To 150' Deep, Add	*178.36*	
		For >150' To 200' Deep, Add	*248.96*	
		For Right Angle Drilling, Add	*162.38*	
31 64 13 00-0037	VLF	84" Diameter Caisson Wet Ground, Casing Pulled	802.35	
		Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	*88.57*	
		For >100' To 150' Deep, Add	*200.59*	
		For >150' To 200' Deep, Add	*281.22*	
		For Right Angle Drilling, Add	*179.55*	
31 64 13 00-0038		For Bell Excavation And Concrete, Add *(31 64 13 00-0024)*		
31 64 13 00-0039	EA	Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY	564.84	
		For >50' To 100' Deep, Add	*44.60*	
		For >100' To 150' Deep, Add	*141.21*	
		For >150' To 200' Deep, Add	*175.78*	
31 64 13 00-0040	EA	Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY	1,967.26	
		For >50' To 100' Deep, Add	*155.71*	
		For >100' To 150' Deep, Add	*491.82*	
		For >150' To 200' Deep, Add	*612.67*	
31 64 13 00-0041	EA	Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY	2,723.36	
		For >50' To 100' Deep, Add	*202.16*	
		For >100' To 150' Deep, Add	*680.84*	
		For >150' To 200' Deep, Add	*831.42*	
31 64 13 00-0042	EA	Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY	4,317.47	
		For >50' To 100' Deep, Add	*344.78*	
		For >100' To 150' Deep, Add	*1,079.37*	
		For >150' To 200' Deep, Add	*1,348.44*	
31 64 13 00-0043	EA	Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY	5,605.29	
		For >50' To 100' Deep, Add	*443.55*	
		For >100' To 150' Deep, Add	*1,401.32*	
		For >150' To 200' Deep, Add	*1,745.56*	
31 64 13 00-0044	EA	Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY	6,591.70	
		For >50' To 100' Deep, Add	*521.41*	
		For >100' To 150' Deep, Add	*1,647.93*	
		For >150' To 200' Deep, Add	*2,052.50*	
31 64 13 00-0045	EA	Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY	11,184.81	
		For >50' To 100' Deep, Add	*883.23*	
		For >100' To 150' Deep, Add	*2,796.20*	
		For >150' To 200' Deep, Add	*3,480.81*	
31 64 13 00-0046	EA	Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY	16,132.28	
		For >50' To 100' Deep, Add	*1,284.86*	
		For >100' To 150' Deep, Add	*4,033.07*	
		For >150' To 200' Deep, Add	*5,034.18*	
31 64 13 00-0047		Caisson In Soft Rock And Medium Hard Shale *(31 64 13)*		
		Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048		Caisson In Soft Rock *(31 64 13 00-0047)*		
		Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049	VLF	18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water	273.14	
		Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	*20.64*	
		For >100' To 150' Deep, Add	*68.29*	
		For >150' To 200' Deep, Add	*83.84*	
		For Right Angle Drilling, Add	*90.86*	
31 64 13 00-0050	VLF	24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water	455.71	
		Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	*34.46*	
		For >100' To 150' Deep, Add	*113.93*	
		For >150' To 200' Deep, Add	*139.91*	
		For Right Angle Drilling, Add	*151.50*	
31 64 13 00-0051	VLF	30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water	686.43	
		Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	*52.13*	
		For >100' To 150' Deep, Add	*171.61*	
		For >150' To 200' Deep, Add	*211.02*	
		For Right Angle Drilling, Add	*227.52*	
31 64 13 00-0052	VLF	36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water	875.98	
		Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	*67.18*	
		For >100' To 150' Deep, Add	*219.00*	
		For >150' To 200' Deep, Add	*270.12*	
		For Right Angle Drilling, Add	*288.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0053	VLF	42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.	1,126.47	
		For >50' To 100' Deep, Add	*87.04*	
		For >100' To 150' Deep, Add	*281.62*	
		For >150' To 200' Deep, Add	*348.17*	
		For Right Angle Drilling, Add	*368.68*	
31 64 13 00-0054	VLF	48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.	1,357.78	
		For >50' To 100' Deep, Add	*105.35*	
		For >100' To 150' Deep, Add	*339.45*	
		For >150' To 200' Deep, Add	*420.21*	
		For Right Angle Drilling, Add	*443.02*	
31 64 13 00-0055	VLF	54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF.	1,659.06	
		For >50' To 100' Deep, Add	*129.44*	
		For >100' To 150' Deep, Add	*414.77*	
		For >150' To 200' Deep, Add	*514.35*	
		For Right Angle Drilling, Add	*539.10*	
31 64 13 00-0056	VLF	60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF.	1,960.35	
		For >50' To 100' Deep, Add	*153.60*	
		For >100' To 150' Deep, Add	*490.09*	
		For >150' To 200' Deep, Add	*608.58*	
		For Right Angle Drilling, Add	*634.94*	
31 64 13 00-0057	VLF	66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.88 CY Concrete per VLF, 113 Lb. rebar per VLF.	2,150.15	
		For >50' To 100' Deep, Add	*170.33*	
		For >100' To 150' Deep, Add	*537.54*	
		For >150' To 200' Deep, Add	*669.82*	
		For Right Angle Drilling, Add	*690.62*	
31 64 13 00-0058	VLF	72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF.	2,345.90	
		For >50' To 100' Deep, Add	*188.02*	
		For >100' To 150' Deep, Add	*586.48*	
		For >150' To 200' Deep, Add	*733.53*	
		For Right Angle Drilling, Add	*746.66*	
31 64 13 00-0059	VLF	78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF.	2,397.58	
		For >50' To 100' Deep, Add	*195.77*	
		For >100' To 150' Deep, Add	*599.40*	
		For >150' To 200' Deep, Add	*754.20*	
		For Right Angle Drilling, Add	*751.83*	
31 64 13 00-0060	VLF	84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF.	2,864.60	
		For >50' To 100' Deep, Add	*232.93*	
		For >100' To 150' Deep, Add	*716.15*	
		For >150' To 200' Deep, Add	*899.89*	
		For Right Angle Drilling, Add	*901.34*	

31 64 13 00-0061 For Bell Excavation And Concrete, Add *(31 64 13 00-0047)*

31 64 13 00-0062	EA	Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY	974.38	
		For >50' To 100' Deep, Add	*73.27*	
		For >100' To 150' Deep, Add	*243.60*	
		For >150' To 200' Deep, Add	*298.64*	
31 64 13 00-0063	EA	Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY	3,428.54	
		For >50' To 100' Deep, Add	*257.99*	
		For >100' To 150' Deep, Add	*857.14*	
		For >150' To 200' Deep, Add	*1,051.06*	
31 64 13 00-0064	EA	Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY	5,132.81	
		For >50' To 100' Deep, Add	*389.57*	
		For >100' To 150' Deep, Add	*1,283.20*	
		For >150' To 200' Deep, Add	*1,577.69*	
31 64 13 00-0065	EA	Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY	7,308.75	
		For >50' To 100' Deep, Add	*554.17*	
		For >100' To 150' Deep, Add	*1,827.19*	
		For >150' To 200' Deep, Add	*2,245.82*	
31 64 13 00-0066	EA	Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY	9,668.02	
		For >50' To 100' Deep, Add	*727.94*	
		For >100' To 150' Deep, Add	*2,417.01*	
		For >150' To 200' Deep, Add	*2,964.38*	
31 64 13 00-0067	EA	Bell Excavation And Concrete, 10" Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY	11,784.44	
		For >50' To 100' Deep, Add	*884.90*	
		For >100' To 150' Deep, Add	*2,946.11*	
		For >150' To 200' Deep, Add	*3,610.32*	
31 64 13 00-0068	EA	Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY	17,805.55	
		For >50' To 100' Deep, Add	*1,346.68*	
		For >100' To 150' Deep, Add	*4,451.39*	
		For >150' To 200' Deep, Add	*5,467.04*	
31 64 13 00-0069	EA	Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY	26,772.75	
		For >50' To 100' Deep, Add	*2,029.69*	
		For >100' To 150' Deep, Add	*6,693.19*	
		For >150' To 200' Deep, Add	*8,226.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0070		Set-up And Removal Of Caisson *(31 64 13)*		
		Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071	EA	Erect, Set-up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete	4,621.96	
31 64 13 00-0072	EA	Erect, Set-up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	6,448.79	
31 64 13 00-0073	EA	Dismantle, Relocate, Erect And Set-up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter	2,203.66	
31 64 13 00-0074	EA	Dismantle, Relocate, Erect And Set-up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter	2,938.21	
31 64 13 00-0075	EA	Relocate Caisson Equipment To Different Hole On-Site Without Dismantling	183.63	

31 66 Special Foundation *(31 60)*

31 66 15 Helical Foundation Piles *(31 66)*

31 66 15 00-0001		Helical Pier Restoration (Atlas) *(31 66 15)*		
31 66 15 00-0002	EA	Structural Steel Piers (Atlas Pier System Or Equal) Note: Includes heavy-duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling	4,162.65	
31 66 15 00-0003	EA	Pressure Injecting Grout For Slab Repairs, Per Location Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.	494.49	
31 66 15 00-0004	CY	Pressure Injected Non-Shrink Grout	508.73	

31 68 Foundation Anchors *(31 60)*

31 68 13 Rock Foundation Anchors *(31 68)*

31 68 13 00-0001		Materials And Placement *(31 68 13)*		
31 68 13 00-0002		Hollow Core Prestressable Anchor, ASTM A615 *(31 68 13 00-0001)* Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0003		3/4" Diameter *(31 68 13 00-0002)*		
31 68 13 00-0004	EA	3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor	263.27	
31 68 13 00-0005	EA	3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor	379.38	
31 68 13 00-0006	EA	3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor	465.84	
31 68 13 00-0007	EA	3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor	611.60	
31 68 13 00-0008		1" Diameter *(31 68 13 00-0002)*		
31 68 13 00-0009	EA	1" Rock Bolt, 5' Hollow Core Prestressable Anchor	335.53	
31 68 13 00-0010	EA	1" Rock Bolt, 10' Hollow Core Prestressable Anchor	518.33	
31 68 13 00-0011	EA	1" Rock Bolt, 15' Hollow Core Prestressable Anchor	671.48	
31 68 13 00-0012	EA	1" Rock Bolt, 20' Hollow Core Prestressable Anchor	883.98	
31 68 13 00-0013		1-3/8" Diameter *(31 68 13 00-0002)*		
31 68 13 00-0014	EA	1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor	558.35	
31 68 13 00-0015	EA	1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor	868.93	
31 68 13 00-0016	EA	1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor	1,149.90	
31 68 13 00-0017	EA	1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor	1,490.12	
31 68 13 00-0018		2" Diameter *(31 68 13 00-0002)*		
31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor	1,236.02	
31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor	1,838.44	
31 68 13 00-0021	EA	2" Rock Bolt, 15' Hollow Core Prestressable Anchor	2,411.13	
31 68 13 00-0022	EA	2" Rock Bolt, 20' Hollow Core Prestressable Anchor	3,043.20	
31 68 13 00-0023		Super High-Tensile Anchors, ASTM A-108 *(31 68 13 00-0001)* Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0024		3/4" Diameter *(31 68 13 00-0023)*		
31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor	190.14	
31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor	253.68	
31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor	287.43	
31 68 13 00-0028	EA	3/4" Rock Bolt, 20' Super High-Tensile Anchor	378.07	
31 68 13 00-0029		1" Diameter *(31 68 13 00-0023)*		
31 68 13 00-0030	EA	1" Rock Bolt, 5' Super High-Tensile Anchor	227.65	
31 68 13 00-0031	EA	1" Rock Bolt, 10' Super High-Tensile Anchor	316.87	
31 68 13 00-0032	EA	1" Rock Bolt, 15' Super High-Tensile Anchor	373.42	
31 68 13 00-0033	EA	1" Rock Bolt, 20' Super High-Tensile Anchor	489.27	

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0034		**1-1/4" Diameter** *(31 68 13 00-0023)*		
31 68 13 00-0035	EA	1-1/4" Rock Bolt, 5' Super High-Tensile Anchor	337.81	
31 68 13 00-0036	EA	1-1/4" Rock Bolt, 10' Super High-Tensile Anchor	474.77	
31 68 13 00-0037	EA	1-1/4" Rock Bolt, 15' Super High-Tensile Anchor	581.40	
31 68 13 00-0038	EA	1-1/4" Rock Bolt, 20' Super High-Tensile Anchor	742.87	
31 68 13 00-0039		**2" Diameter** *(31 68 13 00-0023)*		
31 68 13 00-0040	EA	2" Rock Bolt, 5' Super High-Tensile Anchor	898.54	
31 68 13 00-0041	EA	2" Rock Bolt, 10' Super High-Tensile Anchor	1,277.93	
31 68 13 00-0042	EA	2" Rock Bolt, 15' Super High-Tensile Anchor	1,562.31	
31 68 13 00-0043	EA	2" Rock Bolt, 20' Super High-Tensile Anchor	1,923.21	
31 68 13 00-0044		**Solid Rebar Anchors, ASTM A615** *(31 68 13 00-0001)* Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045		**3/4" Diameter** *(31 68 13 00-0044)*		
31 68 13 00-0046	EA	3/4" Rock Bolt, 5' Solid Rebar Anchor	178.10	
31 68 13 00-0047	EA	3/4" Rock Bolt, 10' Solid Rebar Anchor	228.21	
31 68 13 00-0048	EA	3/4" Rock Bolt, 15' Solid Rebar Anchor	248.63	
31 68 13 00-0049	EA	3/4" Rock Bolt, 20' Solid Rebar Anchor	328.39	
31 68 13 00-0050		**1" Diameter** *(31 68 13 00-0044)*		
31 68 13 00-0051	EA	1" Rock Bolt, 5' Solid Rebar Anchor	201.28	
31 68 13 00-0052	EA	1" Rock Bolt, 10' Solid Rebar Anchor	266.54	
31 68 13 00-0053	EA	1" Rock Bolt, 15' Solid Rebar Anchor	302.20	
31 68 13 00-0054	EA	1" Rock Bolt, 20' Solid Rebar Anchor	397.07	
31 68 13 00-0055		**1-1/4" Diameter** *(31 68 13 00-0044)*		
31 68 13 00-0056	EA	1-1/4" Rock Bolt, 5' Solid Rebar Anchor	294.00	
31 68 13 00-0057	EA	1-1/4" Rock Bolt, 10' Solid Rebar Anchor	379.29	
31 68 13 00-0058	EA	1-1/4" Rock Bolt, 15' Solid Rebar Anchor	435.06	
31 68 13 00-0059	EA	1-1/4" Rock Bolt, 20' Solid Rebar Anchor	550.09	
31 68 13 00-0060		**Resin Anchoring With Grade 60 Rebar** *(31 68 13 00-0001)* Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061		**Rebar #6** *(31 68 13 00-0060)*		
31 68 13 00-0062	EA	#6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar	96.73	
31 68 13 00-0063	EA	#6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar	134.15	
31 68 13 00-0064	EA	#6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar	141.92	
31 68 13 00-0065	EA	#6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	193.45	
31 68 13 00-0066		**Rebar #8** *(31 68 13 00-0060)*		
31 68 13 00-0067	EA	#8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	102.77	
31 68 13 00-0068	EA	#8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	146.24	
31 68 13 00-0069	EA	#8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	160.05	
31 68 13 00-0070	EA	#8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	233.16	
31 68 13 00-0071		**Rebar #10** *(31 68 13 00-0060)*		
31 68 13 00-0072	EA	#10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	111.41	
31 68 13 00-0073	EA	#10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	163.50	
31 68 13 00-0074	EA	#10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	185.95	
31 68 13 00-0075	EA	#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	267.70	
31 68 13 00-0076		**Rebar #14** *(31 68 13 00-0060)*		
31 68 13 00-0077	EA	#14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	132.13	
31 68 13 00-0078	EA	#14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	204.94	
31 68 13 00-0079	EA	#14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	248.11	
31 68 13 00-0080	EA	#14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	350.58	
31 68 13 00-0081		**Plastic Rebar Collars, Sizes #6-#14** *(31 68 13 00-0060)*		
31 68 13 00-0082	EA	Plastic Rebar Collars For Rebar #4 To #14	2.88	
31 68 13 00-0083		**12" Long Resin Cartridges** *(31 68 13 00-0001)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0084	EA	7/8" Resin Cartridge 12" Long	3.31	
31 68 13 00-0085	EA	1" Resin Cartridge 12" Long	4.54	
31 68 13 00-0086	EA	1-1/16" Resin Cartridge 12" Long	4.86	
31 68 13 00-0087	EA	1-1/4" Resin Cartridge 12" Long	5.25	
31 68 13 00-0088	EA	1-3/8" Resin Cartridge 12" Long	6.03	
31 68 13 00-0089	EA	1-9/16" Resin Cartridge 12" Long	7.56	
31 68 13 00-0090	EA	1-3/4" Resin Cartridge 12" Long	10.38	
31 68 13 00-0091		Head Assembly *(31 68 13 00-0001)*		
31 68 13 00-0092		3/4" Rod Diameter *(31 68 13 00-0091)*		
31 68 13 00-0093	EA	3/4" Rod Head Assembly 1-5/8" Short Cone and Shell	37.77	
31 68 13 00-0094	EA	3/4" Rod Head Assembly 1-3/4" Short Cone and Shell	31.81	
31 68 13 00-0095	EA	3/4" Rod Head Assembly 1-7/8" Short Cone and Shell	33.37	
31 68 13 00-0096	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	59.91	
31 68 13 00-0097	EA	3/4" Rod Head Assembly 1-7/8" Long Cone and Shell	59.91	
31 68 13 00-0098	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	56.76	
31 68 13 00-0099		1" Rod Diameter *(31 68 13 00-0091)*		
31 68 13 00-0100	EA	1" Rod Head Assembly 1-5/8" Short Cone and Shell	40.71	
31 68 13 00-0101	EA	1" Rod Head Assembly 1-3/4" Short Cone and Shell	34.84	
31 68 13 00-0102	EA	1" Rod Head Assembly 1-7/8" Short Cone and Shell	36.39	
31 68 13 00-0103	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	63.02	
31 68 13 00-0104	EA	1" Rod Head Assembly 1-7/8" Long Cone and Shell	63.02	
31 68 13 00-0105	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	60.09	
31 68 13 00-0106		1-1/4" Rod Diameter *(31 68 13 00-0091)*		
31 68 13 00-0107	EA	1-1/4" Rod Head Assembly 2" Short Cone and Shell	90.82	
31 68 13 00-0108	EA	1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell	106.10	
31 68 13 00-0109	EA	1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell	107.61	
31 68 13 00-0110	EA	1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell	95.44	
31 68 13 00-0111	EA	1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell	111.28	
31 68 13 00-0112		1-7/8" Rod Diameter *(31 68 13 00-0091)*		
31 68 13 00-0113	EA	1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl	357.46	
31 68 13 00-0114	EA	1/7/8" Rod Head Assembly 3" Long Cone and Shell	246.44	
31 68 13 00-0115		2" Rod Diameter *(31 68 13 00-0091)*		
31 68 13 00-0116	EA	2" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl	357.46	
31 68 13 00-0117	EA	2" Rod Head Assembly 3" Long Cone and Shell	246.44	
31 68 13 00-0118		Steel Plates With Standard Hole And Washers *(31 68 13 00-0001)*		
31 68 13 00-0119		Steel Plates *(31 68 13 00-0118)*		
31 68 13 00-0120	EA	1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer	3.94	
31 68 13 00-0121	EA	1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer	7.28	
31 68 13 00-0122	EA	3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer	10.14	
31 68 13 00-0123	EA	3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer	17.77	
31 68 13 00-0124	EA	1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer	6.90	
31 68 13 00-0125	EA	1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer	18.12	
31 68 13 00-0126	EA	3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer	30.08	
31 68 13 00-0127	EA	3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer	42.62	
31 68 13 00-0128	EA	1" x 4" x 7" Steel Plate For Rock Bolt With Washer	25.58	
31 68 13 00-0129	EA	1" x 9" x 9" Steel Plate For Rock Bolt With Washer	72.37	
31 68 13 00-0130	EA	1" x 12" x 12" Steel Plate For Rock Bolt With Washer	106.64	
31 68 13 00-0131	EA	1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer	46.81	
31 68 13 00-0132	EA	1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer	126.61	
31 68 13 00-0133	EA	1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer	63.32	
31 68 13 00-0134	EA	1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer	152.29	
31 68 13 00-0135	EA	1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer	69.89	
31 68 13 00-0136	EA	1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer	168.90	
31 68 13 00-0137		Hardened Washers *(31 68 13 00-0118)*		
31 68 13 00-0138	EA	Hardened Washer For 3/4" Diameter Rock Bolt	1.25	
31 68 13 00-0139	EA	Hardened Washer For 1" Diameter Rock Bolt	1.73	
31 68 13 00-0140	EA	Hardened Washer For 1-1/4" Diameter Rock Bolt	4.83	
31 68 13 00-0141	EA	Hardened Washer For 2" Diameter Rock Bolt	12.04	
31 68 13 00-0142		Beveled Washers *(31 68 13 00-0118)*		
31 68 13 00-0143	EA	Beveled Washer For 3/4" Diameter Rock Bolt	3.15	
31 68 13 00-0144	EA	Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt	3.11	
31 68 13 00-0145	EA	Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt	4.70	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0146	EA	Beveled Washer For 1-1/2" Diameter Rock Bolt	20.12	
31 68 13 00-0147	EA	Beveled Washer For 2" Diameter Rock Bolt	13.90	
31 68 13 00-0148		Hex Nuts *(31 68 13 00-0118)*		
31 68 13 00-0149	EA	Hex Nut For 3/4" Diameter Rock Bolt	2.46	
31 68 13 00-0150	EA	Hex Nut For 1" Diameter Rock Bolt	4.01	
31 68 13 00-0151	EA	Hex Nut For 1-1/4" Diameter Rock Bolt	16.45	
31 68 13 00-0152	EA	Hex Nut For 1-1/2" Diameter Rock Bolt	10.36	
31 68 13 00-0153	EA	Hex Nut For 2" Diameter Rock Bolt	66.09	
31 68 13 00-0154		Drilling Operation For Rock Bolts *(31 68 13)*		
31 68 13 00-0155		Drill Holes For Rock Bolts *(31 68 13 00-0154)*		
31 68 13 00-0156		3/4" Diameter Bolt, 1-3/4" Hole *(31 68 13 00-0155)*		
31 68 13 00-0157	EA	Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts	211.99	
31 68 13 00-0158	EA	Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts	400.43	
31 68 13 00-0159	EA	Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts	600.64	
31 68 13 00-0160	EA	Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts	720.77	
31 68 13 00-0161		1" Diameter Bolt, 2" Hole *(31 68 13 00-0155)*		
31 68 13 00-0162	EA	Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt	277.22	
31 68 13 00-0163	EA	Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt	514.83	
31 68 13 00-0164	EA	Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt	720.77	
31 68 13 00-0165	EA	Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt	900.96	
31 68 13 00-0166		1-1/4" Diameter Bolt, 2-1/4" Hole *(31 68 13 00-0155)*		
31 68 13 00-0167	EA	Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt	300.32	
31 68 13 00-0168	EA	Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt	600.64	
31 68 13 00-0169	EA	Drill 2-1/4" Diameter Hole x 15' long For 1-1/4" Diameter Rock Bolt	900.96	
31 68 13 00-0170	EA	Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt	1,201.28	
31 68 13 00-0171		2" Diameter Bolt, 3-1/2" Hole *(31 68 13 00-0155)*		
31 68 13 00-0172	EA	Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt	360.38	
31 68 13 00-0173	EA	Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt	720.77	
31 68 13 00-0174	EA	Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts	1,201.28	
31 68 13 00-0175	EA	Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt	1,801.92	
31 68 13 00-0176		Tools *(31 68 13)*		
31 68 13 00-0177		Hydraulic Jacks, Monthly Rental *(31 68 13 00-0176)*		
31 68 13 00-0178	EA	1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke	773.17	
31 68 13 00-0179	EA	1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke	1,139.41	
31 68 13 00-0180	EA	1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	1,911.49	
31 68 13 00-0181	EA	1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	2,861.75	
31 68 13 00-0182	EA	1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke	4,277.79	
31 68 13 00-0183		Torque Wrenches And Ratchet Adapter, Monthly Rental *(31 68 13 00-0176)*		
31 68 13 00-0184		0-500 Foot Pounds (0-678J) *(31 68 13 00-0183)*		
31 68 13 00-0185	EA	1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental	270.56	
31 68 13 00-0186	EA	Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds	169.59	
31 68 13 00-0187	EA	Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental	440.48	
31 68 13 00-0188		0-600 Foot Pounds (0-814J) *(31 68 13 00-0183)*		
31 68 13 00-0189	EA	0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental	307.18	
31 68 13 00-0190		Up To 1,000 Foot Pounds (0-1356J) *(31 68 13 00-0183)*		
31 68 13 00-0191	EA	1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental	589.95	
31 68 13 00-0192	EA	Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental	145.51	
31 68 13 00-0193	EA	Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental	735.46	
31 68 13 00-0194		Torque Multiplier, 4:1 Multiplier *(31 68 13 00-0176)*		
31 68 13 00-0195	EA	Torque Multiplier, 4 To 1 Ratio	755.58	
31 68 13 00-0196		Pneumatic Drive Torque Wrench *(31 68 13 00-0176)*		
31 68 13 00-0197	EA	Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J)	1,616.75	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0198		Grouting *(31 68 13)*		
31 68 13 00-0199		Grouting With Pumps *(31 68 13 00-0198)*		
		Note: Grout material and labor only.		
31 68 13 00-0200	GAL	Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery	24.92	
31 68 13 00-0201	GAL	Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery	39.41	
31 68 13 00-0202	GAL	Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery	36.30	
31 68 13 00-0203		Grout Pumps, Monthly Rental *(31 68 13 00-0198)*		
31 68 13 00-0204	EA	Hand Grout Pump, Monthly Rental	180.09	
31 68 13 00-0205	EA	Air Powered Programmable Feed Grout Pump Monthly Rental	1,515.00	
31 68 13 00-0206	EA	Air Powered, Piston Drive Grout Pump Monthly Rental	2,645.06	
31 68 13 00-0207		Rock Bolt Testing *(31 68 13)*		
31 68 13 00-0208	EA	Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing	638.29	

END OF SECTION 31

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements *(32)*

32 01 11 Paving Cleaning *(32 01)*

32 01 11 53 Paint Removal from Paving *(32 01 11)*

32 01 11 53-0001 Remove Painted Or Epoxy Pavement Markings *(32 01 11 53)*

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping		2.38	
		For Up To 250, Add		*1.19*	
		For >250 To 1,000, Add		*0.60*	
		For >5,000 To 10,000, Deduct		*-0.36*	
		For >10,000 To 25,000, Deduct		*-0.60*	
		For >25,000 To 50,000, Deduct		*-0.83*	
		For >50,000, Deduct		*-0.95*	
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping		2.86	
		For Up To 250, Add		*1.43*	
		For >250 To 1,000, Add		*0.72*	
		For >5,000 To 10,000, Deduct		*-0.43*	
		For >10,000 To 25,000, Deduct		*-0.72*	
		For >25,000 To 50,000, Deduct		*-1.00*	
		For >50,000, Deduct		*-1.14*	
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping		3.43	
		For Up To 250, Add		*1.72*	
		For >250 To 1,000, Add		*0.86*	
		For >5,000 To 10,000, Deduct		*-0.51*	
		For >10,000 To 25,000, Deduct		*-0.86*	
		For >25,000 To 50,000, Deduct		*-1.20*	
		For >50,000, Deduct		*-1.37*	
32 01 11 53-0005	LF	Removal Of 10" Wide Painted Or Epoxy Pavement Striping		3.27	
		For Up To 250, Add		*1.64*	
		For >250 To 1,000, Add		*0.82*	
		For >5,000 To 10,000, Deduct		*-0.49*	
		For >10,000 To 25,000, Deduct		*-0.82*	
		For >25,000 To 50,000, Deduct		*-1.14*	
		For >50,000, Deduct		*-1.31*	
32 01 11 53-0006	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping		4.11	
		For Up To 250, Add		*2.06*	
		For >250 To 1,000, Add		*1.03*	
		For >5,000 To 10,000, Deduct		*-0.62*	
		For >10,000 To 25,000, Deduct		*-1.03*	
		For >25,000 To 50,000, Deduct		*-1.44*	
		For >50,000, Deduct		*-1.64*	
32 01 11 53-0007	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols		4.11	
		For Up To 250, Add		*2.06*	
		For >250 To 1,000, Add		*1.03*	
		For >5,000 To 10,000, Deduct		*-0.62*	
		For >10,000 To 25,000, Deduct		*-1.03*	
		For >25,000 To 50,000, Deduct		*-1.44*	
		For >50,000, Deduct		*-1.64*	

32 01 11 53-0008 Remove Thermoplastic Pavement Markings *(32 01 11 53)*

32 01 11 53-0009	LF	Removal Of 4" Wide Thermoplastic Pavement Striping		3.06	
		For Up To 250, Add		*1.53*	
		For >250 To 1,000, Add		*0.77*	
		For >5,000 To 10,000, Deduct		*-0.46*	
		For >10,000 To 25,000, Deduct		*-0.77*	
		For >25,000 To 50,000, Deduct		*-1.07*	
		For >50,000, Deduct		*-1.22*	
32 01 11 53-0010	LF	Removal Of 6" Wide Thermoplastic Pavement Striping		3.62	
		For Up To 250, Add		*1.81*	
		For >250 To 1,000, Add		*0.91*	
		For >5,000 To 10,000, Deduct		*-0.54*	
		For >10,000 To 25,000, Deduct		*-0.91*	
		For >25,000 To 50,000, Deduct		*-1.27*	
		For >50,000, Deduct		*-1.45*	
32 01 11 53-0011	LF	Removal Of 8" Wide Thermoplastic Pavement Striping		4.36	
		For Up To 250, Add		*2.18*	
		For >250 To 1,000, Add		*1.09*	
		For >5,000 To 10,000, Deduct		*-0.65*	
		For >10,000 To 25,000, Deduct		*-1.09*	
		For >25,000 To 50,000, Deduct		*-1.53*	
		For >50,000, Deduct		*-1.74*	
32 01 11 53-0012	LF	Removal Of 10" Wide Thermoplastic Pavement Striping		4.17	
		For Up To 250, Add		*2.09*	
		For >250 To 1,000, Add		*1.04*	
		For >5,000 To 10,000, Deduct		*-0.63*	
		For >10,000 To 25,000, Deduct		*-1.04*	
		For >25,000 To 50,000, Deduct		*-1.46*	
		For >50,000, Deduct		*-1.67*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 11 53-0013	LF	Removal Of 12" Wide Thermoplastic Pavement Striping	5.23	
		For Up To 250, Add	*2.62*	
		For >250 To 1,000, Add	*1.31*	
		For >5,000 To 10,000, Deduct	*-0.78*	
		For >10,000 To 25,000, Deduct	*-1.31*	
		For >25,000 To 50,000, Deduct	*-1.83*	
		For >50,000, Deduct	*-2.09*	
32 01 11 53-0014	SF	Removal Of Thermoplastic Pavement Marking, Letters Or Symbols	5.23	
		For Up To 250, Add	*2.62*	
		For >250 To 1,000, Add	*1.31*	
		For >5,000 To 10,000, Deduct	*-0.78*	
		For >10,000 To 25,000, Deduct	*-1.31*	
		For >25,000 To 50,000, Deduct	*-1.83*	
		For >50,000, Deduct	*-2.09*	

32 01 13 Flexible Paving Surface Treatment *(32 01)*

32 01 13 61 Slurry Seal (Latex Modified) *(32 01 13)*

32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot *(32 01 13 61)*
Note: Includes sweeping and cleaning of area.

32 01 13 61-0002	EA	Minimum Charge For Asphalt Seal Coating Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	989.61
32 01 13 61-0003	SY	Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	3.79
32 01 13 61-0004	SY	>500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	3.49
32 01 13 61-0005	SY	>1,000 SY, Type O Asphalt Seal Coating, No Aggregate. Per Coat	3.25
32 01 13 61-0006	SY	Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat Note: 1/8" thick.	3.94
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.32*
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.38*
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.48*
		For Each 0.5% Of Latex Addition, Add	*0.34*
32 01 13 61-0007	SY	>500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat Note: 1/8" thick.	3.71
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.31*
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.37*
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.47*
		For Each 0.5% Of Latex Addition, Add	*0.34*
32 01 13 61-0008	SY	>1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat Note: 1/8" thick.	3.53
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.30*
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.36*
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.46*
		For Each 0.5% Of Latex Addition, Add	*0.34*
32 01 13 61-0009	SY	>5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat Note: 1/8" thick.	3.36
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.29*
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.35*
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.45*
		For Each 0.5% Of Latex Addition, Add	*0.34*
32 01 13 61-0010	SY	>20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat Note: 1/8" thick.	3.36
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.29*
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.35*
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.45*
		For Each 0.5% Of Latex Addition, Add	*0.34*
32 01 13 61-0011	SY	>50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat Note: 1/8" thick.	3.07
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.27*
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.33*
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.43*
		For Each 0.5% Of Latex Addition, Add	*0.34*
32 01 13 61-0012	SY	Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lb./SY.	5.33
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.35*
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.41*
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.51*
		For Each 0.5% Of Latex Addition, Add	*0.51*
32 01 13 61-0013	SY	>500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lb./SY.	4.96
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.33*
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.39*
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.49*
		For Each 0.5% Of Latex Addition, Add	*0.51*
32 01 13 61-0014	SY	>1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lb./SY.	4.69
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.32*
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.38*
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.48*
		For Each 0.5% Of Latex Addition, Add	*0.51*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0015	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lb./SY.	4.43	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.30*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.36*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.46*	
		For Each 0.5% Of Latex Addition, Add	*0.51*	
32 01 13 61-0016	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lb./SY.	4.19	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.29*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.35*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.45*	
		For Each 0.5% Of Latex Addition, Add	*0.51*	
32 01 13 61-0017	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lb./SY.	3.97	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.28*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.34*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.44*	
		For Each 0.5% Of Latex Addition, Add	*0.51*	
32 01 13 61-0018	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lb./SY.	6.71	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.36*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.42*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.52*	
		For Each 0.5% Of Latex Addition, Add	*0.83*	
32 01 13 61-0019	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lb./SY.	6.32	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.34*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.40*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.50*	
		For Each 0.5% Of Latex Addition, Add	*0.83*	
32 01 13 61-0020	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lb./SY.	6.03	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.32*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.38*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.48*	
		For Each 0.5% Of Latex Addition, Add	*0.83*	
32 01 13 61-0021	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lb./SY.	5.75	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.31*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.37*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.47*	
		For Each 0.5% Of Latex Addition, Add	*0.83*	
32 01 13 61-0022	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lb./SY.	5.49	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.30*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.36*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.46*	
		For Each 0.5% Of Latex Addition, Add	*0.83*	
32 01 13 61-0023	SY	>50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lb./SY.	5.25	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.29*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.35*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.45*	
		For Each 0.5% Of Latex Addition, Add	*0.83*	

32 01 13 62 Asphalt Surface Treatment *(32 01 13)*

32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing) *(32 01 13 62)*
Note: Use a blend of emulsified quickset polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.

32 01 13 62-0002	SY	Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	12.04
32 01 13 62-0003	SY	Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	11.44
32 01 13 62-0004	SY	>500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	10.92
32 01 13 62-0005	SY	>1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	10.47
32 01 13 62-0006	SY	>5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	10.06
32 01 13 62-0007	SY	>10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.71
32 01 13 62-0008	SY	>20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.46
32 01 13 62-0009	SY	>50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.32

32 01 16 Flexible Paving Rehabilitation *(32 01)*

See CSI section 33 01 30 86-0000 for raising manhole frame and cover.

32 01 16 71 Cold Milling Asphalt Pavement *(32 01 16)*

32 01 16 71-0001 Removal Of Asphalt Surface Course *(32 01 16 71)*
Note: Includes direct loading into truck.

32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas *(32 01 16 71-0001)*
Note: For removal of entire lanes of roads or parking areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 71-0003	SY	Up To 3" Depth, Production Cold Milling Of Asphalt	4.96	
		For Up To 2,500, Add	*3.72*	
		For >2,500 To 5,000, Add	*1.24*	
		For >10,000 To 25,000, Deduct	*-0.87*	
		For >25,000, Deduct	*-1.24*	
32 01 16 71-0004	SY	>3" To 6" Depth, Production Cold Milling Of Asphalt	6.27	
		For Up To 2,500, Add	*4.70*	
		For >2,500 To 5,000, Add	*1.57*	
		For >10,000 To 25,000, Deduct	*-1.10*	
		For >25,000, Deduct	*-1.57*	
32 01 16 71-0005	SY	>6" To 12" Depth, Production Cold Milling Of Asphalt	8.34	
		For Up To 2,500, Add	*6.26*	
		For >2,500 To 5,000, Add	*2.09*	
		For >10,000 To 25,000, Deduct	*-1.46*	
		For >25,000, Deduct	*-2.09*	

32 01 16 71-0006 Limited Production Cold Milling *(32 01 16 71-0001)*

Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.

32 01 16 71-0007	SY	Up To 3" Depth, Limited Cold Milling Of Asphalt	33.03	
		For >100 To 1,000, Deduct	*-16.52*	
		For >1,000, Deduct	*-24.77*	
32 01 16 71-0008	SY	>3" To 6" Depth, Limited Cold Milling Of Asphalt	43.74	
		For >100 To 1,000, Deduct	*-21.87*	
		For >1,000, Deduct	*-32.81*	
32 01 16 71-0009	SY	>6" To 12" Depth, Limited Cold Milling Of Asphalt	58.26	
		For >100 To 1,000, Deduct	*-29.13*	
		For >1,000, Deduct	*-43.70*	

32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings *(32 01 16 71)*

Note: For use as subbase material, includes spreading and rolling.

32 01 16 71-0011	SY	Grind, Leave In-Place As Subbase Course, 6-9" Depth	8.64	

32 01 16 73 In Place Cold Reused Asphalt Paving *(32 01 16)*

32 01 16 73-0001 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) *(32 01 16 73)*

Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.

32 01 16 73-0002	SF	Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	6.36	
32 01 16 73-0003	SF	>30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	5.97	
32 01 16 73-0004	SF	>42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	5.12	
32 01 16 73-0005	SF	>71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	4.46	
32 01 16 73-0006	SF	>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	4.06	
32 01 16 73-0007	SF	>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.79	
32 01 16 73-0008	SF	>500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.61	

32 01 16 73-0009 Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C) *(32 01 16 73)*

Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.

32 01 16 73-0010	SF	Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C)	5.75	
		For >12" To 18" Depth, Add	*1.96*	
32 01 16 73-0011	SF	>42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C)	4.51	
		For >12" To 18" Depth, Add	*1.58*	
32 01 16 73-0012	SF	>71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C)	3.85	
		For >12" To 18" Depth, Add	*1.39*	
32 01 16 73-0013	SF	>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C)	3.45	
		For >12" To 18" Depth, Add	*1.27*	
32 01 16 73-0014	SF	>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C)	3.18	
		For >12" To 18" Depth, Add	*1.18*	
32 01 16 73-0015	SF	>500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C)	3.00	
		For >12" To 18" Depth, Add	*1.13*	

32 01 16 73-0016 Supplemental Aggregate *(32 01 16 73)*

32 01 16 73-0017	TON	Supplemental Aggregate	86.43	

32 01 16 74 In Place Hot Reused Asphalt Paving *(32 01 16)*

32 01 16 74-0001 Rejuvenate And Respread Asphalt Pavement *(32 01 16 74)*

Note: Includes direct loading into truck.

32 01 16 74-0002	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep	11.90	
32 01 16 74-0003	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar	13.80	
32 01 16 74-0004	TON	Removal, Rejuvenation, And Respreading Of Asphalt Grindings	222.44	

32 01 16 74-0005 Reclamation, Pulverize And Blending With Existing *(32 01 16 74)*

Note: Includes direct loading into truck.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 74-0006	SY	Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	17.79	
32 01 16 74-0007	SY	Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	8.90	
32 01 16 74-0008	SY	Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.45	
32 01 16 74-0009	SY	Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.21	
32 01 16 74-0010	SY	>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.86	
32 01 16 74-0011	SY	>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	19.41	
32 01 16 74-0012	SY	>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	9.70	
32 01 16 74-0013	SY	>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.57	
32 01 16 74-0014	SY	>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	21.35	
32 01 16 74-0015	SY	>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	10.68	
32 01 16 74-0016	SY	>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	5.34	
32 01 16 74-0017	SY	>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.93	
32 01 16 74-0018	SY	>4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	23.29	
32 01 16 74-0019	SY	>4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	11.65	
32 01 16 74-0020	SY	>4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	5.82	
32 01 16 74-0021	SY	>4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	5.43	
32 01 16 74-0022	EA	Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew	2,001.83	

32 01 17 Flexible Paving Repair *(32 01)*

See CSI section 32 12 16 00-0000 for large area resurfacing.

32 01 17 61 Sealing Cracks in Asphalt Paving *(32 01 17)*

Note: Includes removing loose materials and cleaning.

32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair *(32 01 17 61)*

Note: Includes removing loose materials and cleaning.

32 01 17 61-0002	LF	Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	2.02
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	*0.58*
		For 1" x 1/2" Fill, Add	*1.09*
		For Backer Rod, Add	*1.17*
32 01 17 61-0003	LF	>200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.65
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	*0.48*
		For 1" x 1/2" Fill, Add	*0.92*
		For Backer Rod, Add	*1.06*
32 01 17 61-0004	LF	>500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.32
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	*0.39*
		For 1" x 1/2" Fill, Add	*0.74*
		For Backer Rod, Add	*0.94*
32 01 17 61-0005	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.14
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	*0.34*
		For 1" x 1/2" Fill, Add	*0.65*
		For Backer Rod, Add	*0.88*
32 01 17 61-0006	LF	>5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.01
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	*0.30*
		For 1" x 1/2" Fill, Add	*0.58*
		For Backer Rod, Add	*0.82*
32 01 17 61-0007	LF	>10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.93
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	*0.28*
		For 1" x 1/2" Fill, Add	*0.53*
		For Backer Rod, Add	*0.78*
32 01 17 61-0008	LF	Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	3.46
		For 3/8" x 1/4" Fill, Add	*0.82*
		For 1/2" x 1/4" Fill, Add	*1.51*
		For 1/2" x 1/2" Fill, Add	*3.62*
32 01 17 61-0009	LF	>200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	2.79
		For 3/8" x 1/4" Fill, Add	*0.67*
		For 1/2" x 1/4" Fill, Add	*1.25*
		For 1/2" x 1/2" Fill, Add	*3.01*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0010	LF	>500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	2.16	
		For 3/8" x 1/4" Fill, Add	*0.53*	
		For 1/2" x 1/4" Fill, Add	*0.99*	
		For 1/2" x 1/2" Fill, Add	*2.42*	
32 01 17 61-0011	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.89	
		For 3/8" x 1/4" Fill, Add	*0.47*	
		For 1/2" x 1/4" Fill, Add	*0.87*	
		For 1/2" x 1/2" Fill, Add	*2.13*	
32 01 17 61-0012	LF	>5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.71	
		For 3/8" x 1/4" Fill, Add	*0.42*	
		For 1/2" x 1/4" Fill, Add	*0.78*	
		For 1/2" x 1/2" Fill, Add	*1.91*	
32 01 17 61-0013	LF	>10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.59	
		For 3/8" x 1/4" Fill, Add	*0.39*	
		For 1/2" x 1/4" Fill, Add	*0.72*	
		For 1/2" x 1/2" Fill, Add	*1.75*	
32 01 17 61-0014	LF	For Routing And Cleaning Of Crack, Add Per 1/2" Depth	0.62	
32 01 17 61-0015	LF	Crack Fill Backer Material, Up To 1" Diameter, As Required	1.89	

32 01 17 63 Flexible Pavement Repair *(32 01 17)*

32 01 17 63-0001 Temporary Pot Hole Repair *(32 01 17 63)*

Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 01 17 63-0002	EA	Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons	1,766.76
32 01 17 63-0003	TON	Temporary Pot Hole Repairs With Cold Mix Modified Note: Use for each ton over 3 tons.	530.34
32 01 17 63-0004	EA	Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons	1,702.24
32 01 17 63-0005	TON	Temporary Pot Hole Repairs With Cold Mix Note: Use for each ton over 3 tons.	508.82
32 01 17 63-0006	EA	Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,669.97
32 01 17 63-0007	TON	Temporary Pot Hole Repairs With Hot Mix Modified Note: Use for each ton over 3 tons.	498.07
32 01 17 63-0008	EA	Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,637.70
32 01 17 63-0009	TON	Temporary Pot Hole Repairs With Hot Mix Note: Use for each ton over 3 tons.	487.32

32 01 17 63-0010 Permanent Pot Hole Repair *(32 01 17 63)*

Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 01 17 63-0011	EA	Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons	1,928.88
32 01 17 63-0012	TON	Permanent Pot Hole Repairs With Cold Mix Note: Use for each ton over 3 tons.	626.03
32 01 17 63-0013	EA	Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,896.61
32 01 17 63-0014	TON	Permanent Pot Hole Repairs With Hot Mix Modified Note: Use for each ton over 3 tons.	615.28
32 01 17 63-0015	EA	Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,864.34
32 01 17 63-0016	TON	Permanent Pot Hole Repairs With Hot Mix Note: Use for each ton over 3 tons.	604.53

32 01 17 63-0017 Asphalt Placement For Small Repairs *(32 01 17 63)*

Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0057 for saw cutting.

32 01 17 63-0018	EA	Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,569.05
32 01 17 63-0019	TON	Asphalt Placement For Small Repair Areas, Cold Mix Modified Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	327.84
32 01 17 63-0020	EA	Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,504.53
32 01 17 63-0021	TON	Asphalt Placement For Small Repair Areas, Cold Mix Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	306.32
32 01 17 63-0022	EA	Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,472.26
32 01 17 63-0023	TON	Asphalt Placement For Small Repair Areas, Hot Mix Modified Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	295.57
32 01 17 63-0024	EA	Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,439.99
32 01 17 63-0025	TON	Asphalt Placement For Small Repair Areas, Hot Mix Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	284.82

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 63-0026		Grind Asphalt *(32 01 17 63)*		
32 01 17 63-0027	SY	Grinding Asphalt To Level Bump Or Raised Area	23.93	
32 01 17 63-0028		Utility Potholing *(32 01 17 63)*		
32 01 17 63-0029	DAY	Utility Potholing	1,218.44	
		Note: Includes laborer, equipment operator, loader/backhoe, compaction water and equipment mobilization and demobilization. Excludes imported materials and asphalt.		

32 01 26 Rigid Paving Rehabilitation *(32 01)*

32 01 26 71 Grooving of Concrete Paving *(32 01 26)*

32 01 26 71-0001		Roadway Grooving *(32 01 26 71)*		
32 01 26 71-0002	EA	First 500 SY Of Pavement Grooving, Concrete, Longitudinal	4,564.17	
32 01 26 71-0003	SY	Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	4.22	
32 01 26 71-0004	EA	First 500 SY Of Pavement Grooving, Concrete, Traverse	5,084.65	
32 01 26 71-0005	SY	Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse	5.51	
32 01 26 71-0006		Rumble Strips *(32 01 26 71)*		
32 01 26 71-0007	EA	First 5280 LF Of MIARDS, Rumble Strips, Asphalt	4,991.03	
32 01 26 71-0008	LF	Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt	0.90	
32 01 26 71-0009	EA	First 2,000 LF Of MIARDS, Rumble Strips, Concrete	5,562.05	
32 01 26 71-0010	LF	Each LF Over First 2,000 LF Of MIARDS, Rumble Strips, Concrete	1.02	

32 01 26 73 Milling Of Concrete Paving *(32 01 26)*

32 01 26 73-0001		Removal Of Concrete *(32 01 26 73)*		
		Note: Includes direct loading into truck.		
32 01 26 73-0002		Production Milling Of Roads And Parking Areas *(32 01 26 73-0001)*		
		Note: For removal of entire lanes of roads or parking areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.		
32 01 26 73-0003	SY	Production Milling Of Concrete Per Inch	7.90	
32 01 26 73-0004		Limited Production Milling *(32 01 26 73-0001)*		
		Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.		
32 01 26 73-0005	SY	Limited Production Milling Of Concrete Per Inch	49.64	

32 01 29 Rigid Paving Repair *(32 01)*

32 01 29 61 Partial Depth Patching of Rigid Paving *(32 01 29)*

32 01 29 61-0001		Hot Applied Flexible Concrete Repair *(32 01 29 61)*		
		Note: Excludes saw cutting (where required), flagmen.		
32 01 29 61-0002	EA	Minimum Charge For Hot Applied Flexible Concrete Repair	1,329.34	
		Note: For projects where the total Hot Applied Flexible Concrete Repair In Asphalt charge is less than the minimum charge, use task "Minimum Charge For Hot Applied Flexible Concrete Repair" exclusively. Task "Minimum Charge For Hot Applied Flexible Concrete Repair" should not be used in conjunction with any other tasks in this section.		
32 01 29 61-0003	SF	Up To 2" Depth, Hot Applied Flexible Concrete Repair	73.45	
		For >25 SF Quantity, Deduct	*-7.35*	
32 01 29 61-0004	SF	>2" To 4" Depth, Hot Applied Flexible Concrete Repair	137.89	
		For >25 SF Quantity, Deduct	*-13.79*	
32 01 29 61-0005	SF	>4" To 6" Depth, Hot Applied Flexible Concrete Repair	201.73	
		For >25 SF Quantity, Deduct	*-20.17*	
32 01 29 61-0006	SF	>6" To 8" Depth, Hot Applied Flexible Concrete Repair	265.57	
		For >25 SF Quantity, Deduct	*-26.56*	
32 01 29 61-0007	SF	>8" To 10" Depth, Hot Applied Flexible Concrete Repair	329.40	
		For >25 SF Quantity, Deduct	*-32.94*	
32 01 29 61-0008	CF	>10" Depth, Hot Applied Flexible Concrete Repair	392.64	
32 01 29 61-0009		Cold Applied Flexible Concrete Repair *(32 01 29 61)*		
32 01 29 61-0010	SF	1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water)	7.26	
32 01 29 61-0011	SF	1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water)	10.41	
32 01 29 61-0012	SF	1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water)	13.71	
32 01 29 61-0013	SF	3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water)	17.12	
32 01 29 61-0014	SF	1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water)	24.41	
32 01 29 61-0015	SF	1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	7.35	
32 01 29 61-0016	SF	1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	10.51	
32 01 29 61-0017	SF	1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	13.80	
32 01 29 61-0018	SF	3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	17.21	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 29 61-0019	SF	1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	24.50	
32 01 29 61-0020	SF	1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	7.30	
32 01 29 61-0021	SF	1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	10.46	
32 01 29 61-0022	SF	1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	13.76	
32 01 29 61-0023	SF	3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	17.16	
32 01 29 61-0024	SF	1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	24.45	

32 01 30 Operation and Maintenance of Site Improvements *(32 01)*

32 01 30 13 Snow Removal *(32 01 30)*

32 01 30 13-0001 Snow Removal *(32 01 30 13)*

32 01 30 13-0002	MSF	Up To 4" Depth Snow Plowing, Parking Lot And Drives, Pick-up Truck With Plow	6.76	
		For <5, Add 1.35		
		For >25 To 50, Deduct	*-0.51*	
		For >50, Deduct	*-0.85*	
32 01 30 13-0003	MSF	>4" To 10" Depth Snow Plowing, Parking Lot And Drives, Pick-up Truck With Plow	9.10	
		For <5, Add 1.82		
		For >25 To 50, Deduct	*-0.68*	
		For >50, Deduct	*-1.14*	
32 01 30 13-0004	MSF	>10" To 15" Depth Snow Plowing, Parking Lot And Drives, Pick-up Truck With Plow	15.72	
		For <5, Add 3.14		
		For >25 To 50, Deduct	*-1.18*	
		For >50, Deduct	*-1.97*	
32 01 30 13-0005	MSF	Up To 4" Depth Snow Plowing, Roadway, 12 Ton Plow Truck	4.70	
		For >50 To 100, Deduct	*-0.47*	
		For >100 To 500, Deduct	*-0.82*	
		For >500, Deduct	*-1.18*	
32 01 30 13-0006	MSF	>4 To 10" Depth Snow Plowing, Roadway, 12 Ton Plow Truck	9.10	
		For >50 To 100, Deduct	*-0.91*	
		For >100 To 500, Deduct	*-1.59*	
		For >500, Deduct	*-2.28*	
32 01 30 13-0007	MSF	>10 To 15" Depth Snow Plowing, Roadway, 12 Ton Plow Truck	15.72	
		For >50 To 100, Deduct	*-1.57*	
		For >100 To 500, Deduct	*-2.75*	
		For >500, Deduct	*-3.93*	
32 01 30 13-0008	SF	Removal Of Up To 2" Snow From Sidewalk And Drives, By Hand	0.78	
32 01 30 13-0009	SF	Removal Of >2" To 4" Snow From Sidewalk And Drives, By Hand	0.96	
32 01 30 13-0010	SF	Removal Of >4" To 6" Snow From Sidewalk And Drives, By Hand	1.16	
32 01 30 13-0011	CF	Removal Of >6" Snow From Sidewalk And Drives, By Hand	1.53	
32 01 30 13-0012	CF	Removal Of Snow From Sidewalk And Drives, By 24" Wide Power Blower	0.10	
32 01 30 13-0013	CY	Snow Removal, Load And Haul, 1 Mile Round Trip	16.12	
32 01 30 13-0014	CY	Snow Removal, Load And Haul, 2 Mile Round Trip	20.95	
32 01 30 13-0015	CY	Snow Removal, Load And Haul, 3 Mile Round Trip	24.63	
32 01 30 13-0016	CY	Snow Removal, Load And Haul, 4 Mile Round Trip	28.32	
32 01 30 13-0017	CY	Snow Removal, Load And Haul, 5 Mile Round Trip	30.62	
32 01 30 13-0018	CY	Snow Removal, Clearing, 1 CY, With Wheeled Skid Steer Loader	5.07	
32 01 30 13-0019	MSF	Spread Sand And Salt Mix On Parking Lot And Drives	17.19	
		For <5, Add 0.62		
		For >25 To 50, Deduct	*-0.23*	
		For >50, Deduct	*-0.39*	
32 01 30 13-0020	MSF	Spread Sand And Salt Mix On Roadway	16.30	
		For >50 To 100, Deduct	*-0.22*	
		For >100 To 500, Deduct	*-0.39*	
		For >500, Deduct	*-0.55*	

32 01 30 13-0021 De-Ice Walks *(32 01 30 13)*

32 01 30 13-0022	CSF	De-Ice Walks, With Rock Salt, By Hand	11.63
32 01 30 13-0023	CSF	De-Ice Sidewalks And Drives, With Rock Salt, By Rotary Spreader	11.15
32 01 30 13-0024	MSF	De-Ice Parking Lots And Roadway With Rock Salt, By Rotary Spreader	105.69
32 01 30 13-0025	CSF	De-Ice Walks, With Calcium Chloride, 1.9 Lb./CSF, By Hand	31.37
32 01 30 13-0026	CSF	De-Ice Sidewalks And Drives With Calcium Chloride, 1.9 Lb./CSF, By Rotary Spreader	30.89
32 01 30 13-0027	MSF	De-Ice Parking Lots And Roadways With Calcium Chloride, 19 Lb./MSF, By Rotary Spreader	303.09

32 01 90 Operation and Maintenance of Planting *(32 01)*

Note: These tasks are to be used as requested by the owner to maintain existing conditions.

32 01 90 13 Fertilizing *(32 01 90)*

32 01 90 13-0001	MSF	Fertilizer - 2 Lb. Of Nitrogen/MSF (Granular)	16.67
32 01 90 13-0002	MSF	Fertilizer - 2 Lb. Of Nitrogen/MSF (Liquid)	12.02
32 01 90 13-0003	MSF	Fertilizer - 0.5 Lb. Of Nitrogen/MSF (Granular)	13.18
32 01 90 13-0004	MSF	Fertilizer - 0.5 Lb. Of Nitrogen/MSF (Liquid)	10.77

32 01 90 19 Mowing *(32 01 90)*

32 01 90 19-0001	ACR	Vegetation Cutting By Bush Hog	234.99	
		Note: Includes normal debris removal, cutting, and trimming.		
		For <1 Acre, Add	*58.75*	
32 01 90 19-0002	MSF	Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF	8.09	
32 01 90 19-0003	MSF	Mowing Vegetation With Riding Mower, >45,000 SF	6.27	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 19-0004	MSF	Clear Vegetation With Weed Trimmer, Up To 1,000 SF	27.04	
		For Work On Slopes >2:1, Add	*6.76*	
		For Clearing Light Brush, Add	*4.06*	
32 01 90 19-0005	MSF	Clear Vegetation With Weed Trimmer, >1,000 SF	22.71	
		For Work On Slopes >2:1, Add	*5.68*	
		For Clearing Light Brush, Add	*3.41*	
32 01 90 19-0006	MSF	Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	23.86	

32 01 90 23 Pruning *(32 01 90)*

32 01 90 23-0001 Tree Pruning *(32 01 90 23)*

Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.

32 01 90 23-0002 Tree Pruning; Crown Cleaning *(32 01 90 23-0001)*

Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.

32 01 90 23-0003	EA	1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	34.28	
32 01 90 23-0004	EA	2" Caliper, Tree Pruning (Crown Cleaning), By Hand	39.18	
32 01 90 23-0005	EA	2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	44.08	
32 01 90 23-0006	EA	3" Caliper, Tree Pruning (Crown Cleaning), By Hand	48.97	
32 01 90 23-0007	EA	4" Caliper, Tree Pruning (Crown Cleaning), By Hand	74.42	
32 01 90 23-0008	EA	4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	123.52	
32 01 90 23-0009	EA	6" Caliper, Tree Pruning (Crown Cleaning), By Hand	130.24	
32 01 90 23-0010	EA	6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	235.26	
32 01 90 23-0011	EA	9" Caliper, Tree Pruning (Crown Cleaning), By Hand	208.55	
32 01 90 23-0012	EA	9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	376.33	
32 01 90 23-0013	EA	12" Caliper, Tree Pruning (Crown Cleaning), By Hand	240.99	
32 01 90 23-0014	EA	12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	435.20	
32 01 90 23-0015	EA	18" Caliper, Tree Pruning (Crown Cleaning), By Hand	280.14	
32 01 90 23-0016	EA	18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	505.77	
32 01 90 23-0017	EA	24" Caliper, Tree Pruning (Crown Cleaning), By Hand	341.01	
32 01 90 23-0018	EA	24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	611.74	
32 01 90 23-0019	EA	30" Caliper, Tree Pruning (Crown Cleaning), By Hand	423.60	
32 01 90 23-0020	EA	30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	770.97	
32 01 90 23-0021	EA	36" Caliper, Tree Pruning (Crown Cleaning), By Hand	580.19	
32 01 90 23-0022	EA	36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	1,044.92	
32 01 90 23-0023	EA	48" Caliper, Tree Pruning (Crown Cleaning), By Hand	920.46	
32 01 90 23-0024	EA	48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	1,680.41	

32 01 90 23-0025 Tree Pruning; Crown Thinning *(32 01 90 23-0001)*

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two- thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA	1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	42.02	
32 01 90 23-0027	EA	2" Caliper, Tree Pruning (Crown Thinning), By Hand	47.99	
32 01 90 23-0028	EA	2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	53.96	
32 01 90 23-0029	EA	3" Caliper, Tree Pruning (Crown Thinning), By Hand	60.04	
32 01 90 23-0030	EA	4" Caliper, Tree Pruning (Crown Thinning), By Hand	91.18	
32 01 90 23-0031	EA	4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	151.27	
32 01 90 23-0032	EA	6" Caliper, Tree Pruning (Crown Thinning), By Hand	159.54	
32 01 90 23-0033	EA	6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	288.19	
32 01 90 23-0034	EA	9" Caliper, Tree Pruning (Crown Thinning), By Hand	255.52	
32 01 90 23-0035	EA	9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	460.99	
32 01 90 23-0036	EA	12" Caliper, Tree Pruning (Crown Thinning), By Hand	295.18	
32 01 90 23-0037	EA	12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	533.09	
32 01 90 23-0038	EA	18" Caliper, Tree Pruning (Crown Thinning), By Hand	343.17	
32 01 90 23-0039	EA	18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	619.55	
32 01 90 23-0040	EA	24" Caliper, Tree Pruning (Crown Thinning), By Hand	417.70	
32 01 90 23-0041	EA	24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	749.41	
32 01 90 23-0042	EA	30" Caliper, Tree Pruning (Crown Thinning), By Hand	518.87	
32 01 90 23-0043	EA	30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	944.44	
32 01 90 23-0044	EA	36" Caliper, Tree Pruning (Crown Thinning), By Hand	710.73	
32 01 90 23-0045	EA	36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,280.03	
32 01 90 23-0046	EA	48" Caliper, Tree Pruning (Crown Thinning), By Hand	1,127.54	
32 01 90 23-0047	EA	48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	2,058.50	

32 01 90 23-0048 Tree Pruning; Crown Raising *(32 01 90 23-0001)*

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049	EA	1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	46.32	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0050	EA	2" Caliper, Tree Pruning (Crown Raising), By Hand	52.89	
32 01 90 23-0051	EA	2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	59.55	
32 01 90 23-0052	EA	3" Caliper, Tree Pruning (Crown Raising), By Hand	66.10	
32 01 90 23-0053	EA	4" Caliper, Tree Pruning (Crown Raising), By Hand	100.49	
32 01 90 23-0054	EA	4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	166.80	
32 01 90 23-0055	EA	6" Caliper, Tree Pruning (Crown Raising), By Hand	175.80	
32 01 90 23-0056	EA	6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	317.60	
32 01 90 23-0057	EA	9" Caliper, Tree Pruning (Crown Raising), By Hand	281.57	
32 01 90 23-0058	EA	9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	508.04	
32 01 90 23-0059	EA	12" Caliper, Tree Pruning (Crown Raising), By Hand	325.34	
32 01 90 23-0060	EA	12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	587.55	
32 01 90 23-0061	EA	18" Caliper, Tree Pruning (Crown Raising), By Hand	378.23	
32 01 90 23-0062	EA	18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	682.83	
32 01 90 23-0063	EA	24" Caliper, Tree Pruning (Crown Raising), By Hand	460.41	
32 01 90 23-0064	EA	24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	825.87	
32 01 90 23-0065	EA	30" Caliper, Tree Pruning (Crown Raising), By Hand	571.85	
32 01 90 23-0066	EA	30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,040.77	
32 01 90 23-0067	EA	36" Caliper, Tree Pruning (Crown Raising), By Hand	783.30	
32 01 90 23-0068	EA	36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,410.60	
32 01 90 23-0069	EA	48" Caliper, Tree Pruning (Crown Raising), By Hand	1,242.62	
32 01 90 23-0070	EA	48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	2,268.58	

32 01 90 23-0071 Tree Pruning; Crown Reduction *(32 01 90 23-0001)*

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	49.75	
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand	56.80	
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	63.95	
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand	71.00	
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand	107.92	
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	179.15	
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand	188.82	
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	341.13	
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand	302.43	
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	545.68	
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand	349.44	
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	631.08	
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand	406.24	
32 01 90 23-0085	EA	18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	733.42	
32 01 90 23-0086	EA	24" Caliper, Tree Pruning (Crown Reduction), By Hand	494.48	
32 01 90 23-0087	EA	24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	887.04	
32 01 90 23-0088	EA	30" Caliper, Tree Pruning (Crown Reduction), By Hand	614.26	
32 01 90 23-0089	EA	30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,117.94	
32 01 90 23-0090	EA	36" Caliper, Tree Pruning (Crown Reduction), By Hand	841.28	
32 01 90 23-0091	EA	36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,515.17	
32 01 90 23-0092	EA	48" Caliper, Tree Pruning (Crown Reduction), By Hand	1,334.68	
32 01 90 23-0093	EA	48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	2,436.55	

32 01 90 23-0094 Tree Pruning; Crown Restoration *(32 01 90 23-0001)*

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	57.10	
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand	65.32	
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	73.45	
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand	81.58	
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand	123.99	
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	205.85	
32 01 90 23-0101	EA	6" Caliper, Tree Pruning (Crown Restoration), By Hand	217.03	
32 01 90 23-0102	EA	6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	392.06	
32 01 90 23-0103	EA	9" Caliper, Tree Pruning (Crown Restoration), By Hand	347.57	
32 01 90 23-0104	EA	9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	627.20	
32 01 90 23-0105	EA	12" Caliper, Tree Pruning (Crown Restoration), By Hand	401.64	
32 01 90 23-0106	EA	12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	725.30	
32 01 90 23-0107	EA	18" Caliper, Tree Pruning (Crown Restoration), By Hand	466.86	
32 01 90 23-0108	EA	18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	842.92	
32 01 90 23-0109	EA	24" Caliper, Tree Pruning (Crown Restoration), By Hand	568.33	
32 01 90 23-0110	EA	24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,019.60	
32 01 90 23-0111	EA	30" Caliper, Tree Pruning (Crown Restoration), By Hand	706.03	
32 01 90 23-0112	EA	30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,284.97	
32 01 90 23-0113	EA	36" Caliper, Tree Pruning (Crown Restoration), By Hand	967.03	
32 01 90 23-0114	EA	36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,741.61	
32 01 90 23-0115	EA	48" Caliper, Tree Pruning (Crown Restoration), By Hand	1,534.08	
32 01 90 23-0116	EA	48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	2,800.73	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0117		**Palm Tree Pruning** *(32 01 90 23)*		
32 01 90 23-0118	EA	Trim Mexican Palm Tree	103.84	
32 01 90 23-0119	EA	Trim Date Palm Tree	234.30	
32 01 90 23-0120	LF	Skin Palm Tree	26.63	
32 01 90 23-0121	EA	Trim And Skin Palm Tree, Up To 30' Height	99.98	
32 01 90 23-0122	EA	Trim And Skin Palm Tree, >30' To 60' Height	123.51	
32 01 90 23-0123	EA	Trim And Skin Palm Tree, >60' To 80' Height	138.21	
32 01 90 23-0124		**Shrub Pruning** *(32 01 90 23)*		
32 01 90 23-0125	MSF	Shrub Pruning, Prune, Shrub Bed	111.59	
32 01 90 23-0126	EA	Shrub Pruning, Prune, Shrub Under 3' Height	3.91	
32 01 90 23-0127	EA	Shrub Pruning, Prune, Shrub 4' Height	8.81	
32 01 90 23-0128	EA	Shrub Pruning, Prune, Shrub Over 6'	15.67	
32 01 90 23-0129	EA	Shrub Pruning, Prune Trees From Ground	39.18	
32 01 90 23-0130	EA	Shrub Pruning, Prune Trees From Ground, High Work	97.94	
32 01 90 23-0131		**Root Pruning** *(32 01 90 23)*		
		Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.		
32 01 90 23-0132	EA	Root Pruning, One Side Of Up To 1-1/2" Caliper Tree	19.59	
32 01 90 23-0133	EA	Root Pruning, One Side Of 2" Caliper Tree	24.49	
32 01 90 23-0134	EA	Root Pruning, One Side Of 2-1/2" Caliper Tree	29.38	
32 01 90 23-0135	EA	Root Pruning, One Side Of 3" Caliper Tree	39.18	
32 01 90 23-0136	EA	Root Pruning, One Side Of 4" Caliper Tree	58.76	
32 01 90 23-0137	EA	Root Pruning, One Side Of >4" To 6" Caliper Tree	73.45	
32 01 90 23-0138	EA	Root Pruning, One Side Of >6" To 9" Caliper Tree	102.83	
32 01 90 23-0139	EA	Root Pruning, One Side Of >9" To 12" Caliper Tree	117.52	
32 01 90 23-0140	EA	Root Pruning, One Side Of >12" To 18" Caliper Tree	137.11	
32 01 90 23-0141	EA	Root Pruning, One Side Of >18' To 24" Caliper Tree	171.38	
32 01 90 23-0142	EA	Root Pruning, One Side Of >24" To 30" Caliper Tree	210.56	
32 01 90 23-0143	EA	Root Pruning, One Side Of >30" To 36" Caliper Tree	244.84	
32 01 90 23-0144	EA	Root Pruning, One Side Of >36" To 42" Caliper Tree	269.33	
32 01 90 23-0145	EA	Root Pruning, One Side Of >42" To 48" Caliper Tree	293.81	
32 01 90 26		**Watering** *(32 01 90)*		
		Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.		
32 01 90 26-0001		**Watering Lawns, Plants And Trees** *(32 01 90 26)*		
		Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for additional watering beyond initial watering at installation for extended watering period of lawns, plants and trees.		
32 01 90 26-0002	MSF	Watering Sod/Grass, Per Inch Of Water	53.46	
32 01 90 26-0003	CSF	Watering Groundcover	8.27	
32 01 90 26-0004	CSF	Watering Annuals And Perennials	14.68	
32 01 90 26-0005	EA	Watering Trees, 1-1/2" To 5" Diameter By Hand	28.41	
32 01 90 26-0006	EA	Watering Trees, 6" To 12" Diameter By Hand	37.34	
32 01 90 26-0007	EA	Watering Trees, 13" To 18" Diameter By Hand	46.27	
32 01 90 26-0008	EA	Watering Trees, >18" Diameter By Hand	56.97	
32 01 90 26-0009	EA	Watering Shrub Or Bush By Hand	14.28	
32 01 90 36		**Weed and Brush Control** *(32 01 90)*		
32 01 90 36-0001		**Herbicide, Push Or Hand Spreader Applied** *(32 01 90 36)*		
32 01 90 36-0002	MSF	Non-Selective Post Emergent Weed Herbicide (70.4 Oz./Acre or 1.62 Oz./MSF)	9.04	
		For >45 To 90, Deduct	*-0.50*	
		For >90 To 225, Deduct	*-1.40*	
		For >225 To 870, Deduct	*-2.30*	
		For >870, Deduct	*-2.80*	
32 01 90 36-0003	MSF	Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 Oz./Acre or 2.94 Oz./MSF)	9.74	
		For >45 To 90, Deduct	*-0.57*	
		For >90 To 225, Deduct	*-1.54*	
		For >225 To 870, Deduct	*-2.51*	
		For >870, Deduct	*-3.08*	
32 01 90 36-0004	MSF	Selective Weed Herbicide (56 Oz./Acre or 1.28 Oz./MSF) Note: Includes pre and post emergent.	9.69	
		For >45 To 90, Deduct	*-0.56*	
		For >90 To 225, Deduct	*-1.53*	
		For >225 To 870, Deduct	*-2.50*	
		For >870, Deduct	*-3.06*	
32 01 90 36-0005	MSF	Selective Woody Brush And Tree Herbicide (72 Oz./Acre or 1.65 Oz./MSF) Note: Includes pre and post emergent.	10.13	
		For >45 To 90, Deduct	*-0.60*	
		For >90 To 225, Deduct	*-1.62*	
		For >225 To 870, Deduct	*-2.63*	
		For >870, Deduct	*-3.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 01 90 39 Pesticides *(32 01 90)*

32 01 90 39-0001	MSF	Pesticide - Surface Eating	12.56
32 01 90 39-0002	MSF	Pesticide - Subsurface Eating	12.60
32 01 90 39-0003	MSF	Pesticide - Fungicide Application	13.70

32 01 90 43 Weed and Cultivate Beds *(32 01 90)*

32 01 90 43-0001	MSF	Weed Mulched Bed	47.95
32 01 90 43-0002	MSF	Weed Unmulched Bed	136.99
32 01 90 43-0003	MSF	Cultivate Bed	73.76

32 01 90 46 Hedge Trimming *(32 01 90)*

32 01 90 46-0001	LF	Trim 0-5' High Hedge, 0-3' Wide	6.33
32 01 90 46-0002	LF	Trim 0-5' High Hedge, 4-6' Wide	9.49
32 01 90 46-0003	LF	Trim 5-10' High Hedge, 0-3' Wide	14.37
32 01 90 46-0004	LF	Trim 5-10' High Hedge, 4-6' Wide	14.63

32 01 90 53 Plant Growth Regulator Application *(32 01 90)*

32 01 90 53-0001	EA	Plant Growth Regulator Application	7.21

32 05 Common Work Results for Exterior Improvements *(32)*

32 05 33 Common Work Results for Planting *(32 05)*

32 05 33 00-0001 Decorative Landscape Boulders *(32 05 33)*

Note: Includes delivery of materials and placement.

32 05 33 00-0002	EA	1 -6" x 2' x 1' Oval Shape Boulders (Approx. 250 Lb. Each)	90.04
32 05 33 00-0003	EA	1 -6" x 2' x 1'-6" Oval Shape Boulders (Approx. 375 Lb. Each)	135.07
32 05 33 00-0004	EA	2' x 2' x 1'-6" Oval Shape Boulders (Approx. 500 Lb. Each)	180.09
32 05 33 00-0005	EA	2' x 2' x 2' Oval Shape Boulders (Approx. 667 Lb. Each)	240.26
32 05 33 00-0006	EA	2' x 3' x 1'-6" Oval Shape Boulders (Approx. 750 Lb. Each)	270.42
32 05 33 00-0007	EA	2' x 3' x 2' Oval Shape Boulders (Approx. 1,000 Lb. Each)	360.56
32 05 33 00-0008	EA	2'-6" x 3' x 2' Oval Shape Boulders (Approx. 1,250 Lb. Each)	450.71
32 05 33 00-0009	EA	3' x 3' x 2' Oval Shape Boulders (Approx. 1,500 Lb. Each)	540.84
32 05 33 00-0010	EA	3' x 3'-6" x 2' Oval Shape Boulders (Approx. 1,750 Lb. Each)	630.99
32 05 33 00-0011	EA	3' x 4' x 2' Oval Shape Boulders (Approx. 2,000 Lb. Each)	721.13
32 05 33 00-0012	EA	3' x 3' x 3' Oval Shape Boulders (Approx. 2,250 Lb. Each)	811.27
32 05 33 00-0013	EA	3' x 4' x 2'-6" Oval Shape Boulders (Approx. 2,500 Lb. Each)	901.41
32 05 33 00-0014	EA	3' x 4' x 3' Oval Shape Boulders (Approx. 3,000 Lb. Each)	1,081.69
32 05 33 00-0015	TON	Landscape Boulders	721.13

32 10 Bases, Ballasts, and Paving *(32)*

32 11 Base Courses *(32 10)*

32 11 16 Subbase Courses *(32 11)*

32 11 16 16 Aggregate Subbase Courses *(32 11 16)*

32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas *(32 11 16 16)*

Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 11 16 16-0002 Base And Subbase Courses By The CY *(32 11 16 16-0001)*

32 11 16 16-0003	CY	Class 5 Granite Roadway Base Course	108.99
32 11 16 16-0004	CY	Class II Graded Crushed Aggregate Roadway Base Course	113.40
32 11 16 16-0005	CY	Class III Graded Crushed Aggregate Roadway Base Course	109.09
32 11 16 16-0006	CY	Recycled Base Course	108.65

32 11 16 16-0007 Base And Subbase Courses For Roadways And Parking Areas By The SY *(32 11 16 16-0001)*

32 11 16 16-0008	SY	2" Crushed Aggregate Base Course For Roadways And Parking Areas	5.55
		For Up To 500, Add	*1.46*
		For >500 To 1,000, Add	*0.56*
		For >5,000 To 10,000, Deduct	*-0.21*
		For >10,000, Deduct	*-0.36*
		For Limestone, Deduct	*-0.37*
32 11 16 16-0009	SY	4" Crushed Aggregate Base Course For Roadways And Parking Areas	10.40
		For Up To 500, Add	*2.78*
		For >500 To 1,000, Add	*1.04*
		For >5,000 To 10,000, Deduct	*-0.40*
		For >10,000, Deduct	*-0.68*
		For Limestone, Deduct	*-0.62*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 16 16-0010	SY	6" Crushed Aggregate Base Course For Roadways And Parking Areas	16.29	
		For Up To 500, Add	*4.31*	
		For >500 To 1,000, Add	*1.63*	
		For >5,000 To 10,000, Deduct	*-0.62*	
		For >10,000, Deduct	*-1.06*	
		For Limestone, Deduct	*-1.05*	
32 11 16 16-0011	SY	9" Crushed Aggregate Base Course For Roadways And Parking Areas	23.74	
		For Up To 500, Add	*6.32*	
		For >500 To 1,000, Add	*2.37*	
		For >5,000 To 10,000, Deduct	*-0.90*	
		For >10,000, Deduct	*-1.54*	
		For Limestone, Deduct	*-1.45*	
32 11 16 16-0012	SY	12" Crushed Aggregate Base Course For Roadways And Parking Areas	28.64	
		For Up To 500, Add	*7.39*	
		For >500 To 1,000, Add	*2.86*	
		For >5,000 To 10,000, Deduct	*-1.09*	
		For >10,000, Deduct	*-1.86*	
		For Limestone, Deduct	*-2.19*	

32 11 16 16-0013 Class II Base Courses By The SY *(32 11 16 16-0001)*

32 11 16 16-0014	SY	2" Class II Graded Crushed Aggregate Base Course	6.23	
		For Up To 500, Add	*1.61*	
		For >500 To 1,000, Add	*0.62*	
		For >5,000 To 10,000, Deduct	*-0.24*	
		For >10,000, Deduct	*-0.40*	
32 11 16 16-0015	SY	4" Class II Crushed Aggregate Base Course	12.47	
		For Up To 500, Add	*3.22*	
		For >500 To 1,000, Add	*1.25*	
		For >5,000 To 10,000, Deduct	*-0.47*	
		For >10,000, Deduct	*-0.81*	
32 11 16 16-0016	SY	6" Class II Crushed Aggregate Base Course	18.70	
		For Up To 500, Add	*4.82*	
		For >500 To 1,000, Add	*1.87*	
		For >5,000 To 10,000, Deduct	*-0.71*	
		For >10,000, Deduct	*-1.22*	
32 11 16 16-0017	SY	9" Class II Crushed Aggregate Base Course	28.05	
		For Up To 500, Add	*7.23*	
		For >500 To 1,000, Add	*2.81*	
		For >5,000 To 10,000, Deduct	*-1.07*	
		For >10,000, Deduct	*-1.82*	
32 11 16 16-0018	SY	12" Class II Crushed Aggregate Base Course	37.40	
		For Up To 500, Add	*9.64*	
		For >500 To 1,000, Add	*3.74*	
		For >5,000 To 10,000, Deduct	*-1.42*	
		For >10,000, Deduct	*-2.43*	

32 11 23 Aggregate Base Courses *(32 11)*

32 11 23 16 Aggregate Base Courses *(32 11 23)*

32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) *(32 11 23 16)*

Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 11 23 16-0002	SF	2" Crushed Aggregate Base Course For Sidewalks	0.77	
		For Up To 1,000, Add	*0.21*	
		For >1,000 To 2,500, Add	*0.08*	
32 11 23 16-0003	SF	3" Crushed Aggregate Base Course For Sidewalks	1.09	
		For Up To 1,000, Add	*0.30*	
		For >1,000 To 2,500, Add	*0.11*	
32 11 23 16-0004	SF	4" Crushed Aggregate Base Course For Sidewalks	1.40	
		For Up To 1,000, Add	*0.39*	
		For >1,000 To 2,500, Add	*0.14*	
32 11 23 16-0005	SF	5" Crushed Aggregate Base Course For Sidewalks	1.82	
		For Up To 1,000, Add	*0.51*	
		For >1,000 To 2,500, Add	*0.18*	
32 11 23 16-0006	SF	6" Crushed Aggregate Base Course For Sidewalks	2.24	
		For Up To 1,000, Add	*0.62*	
		For >1,000 To 2,500, Add	*0.22*	
32 11 23 16-0007	SF	7" Crushed Aggregate Base Course For Sidewalks	2.58	
		For Up To 1,000, Add	*0.72*	
		For >1,000 To 2,500, Add	*0.26*	
32 11 23 16-0008	SF	8" Crushed Aggregate Base Course For Sidewalks	2.92	
		For Up To 1,000, Add	*0.81*	
		For >1,000 To 2,500, Add	*0.29*	

32 11 26 Asphaltic Base Courses *(32 11)*

32 11 26 19 Bituminous-Stabilized Base Courses *(32 11 26)*

32 11 26 19-0001 Bituminous-Stabilized Base Courses *(32 11 26 19)*

32 11 26 19-0002	CY	Bituminous Stabilized Base Course Note: 3/4" ASTM C33.	100.28	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 11 36 Concrete Base Courses *(32 11)*

32 11 36 16 Plain Cement Concrete Base Courses *(32 11 36)*

32 11 36 16-0001 Concrete Base Courses *(32 11 36 16)*

32 11 36 16-0002 SY 9" Concrete Base Course 65.65
Note: Includes 3000 psi traffic rated mix, vibrated and screeded. Excludes reinforcing.

32 12 Flexible Paving *(32 10)*

32 12 13 Preparatory Coats *(32 12)*

32 12 13 13 Tack Coats *(32 12 13)*

32 12 13 13-0001 SY Tack Coat, 0.04 Gallon/SY 0.82
For Up To 150, Add 0.16
For >150 To 300, Add 0.08
For >300 To 500, Add 0.04
For >3,500 To 5,000, Deduct -0.02
For >5,000, Deduct -0.05

32 12 13 13-0002 SY Tack Coat, 0.05 Gallon/SY 0.92
For Up To 150, Add 0.19
For >150 To 300, Add 0.09
For >300 To 500, Add 0.05
For >3,500 To 5,000, Deduct -0.02
For >5,000, Deduct -0.06

32 12 13 13-0003 SY Tack Coat, 0.07 Gallon/SY 1.12
For Up To 150, Add 0.24
For >150 To 300, Add 0.11
For >300 To 500, Add 0.06
For >3,500 To 5,000, Deduct -0.03
For >5,000, Deduct -0.07

32 12 13 13-0004 SY Tack Coat, 0.08 Gallon/SY 1.22
For Up To 150, Add 0.26
For >150 To 300, Add 0.12
For >300 To 500, Add 0.06
For >3,500 To 5,000, Deduct -0.03
For >5,000, Deduct -0.08

32 12 13 13-0005 SY Tack Coat, 0.10 Gallon/SY 1.42
For Up To 150, Add 0.31
For >150 To 300, Add 0.14
For >300 To 500, Add 0.07
For >3,500 To 5,000, Deduct -0.04
For >5,000, Deduct -0.10

32 12 13 13-0006 SY Tack Coat, 0.11 Gallon/SY 1.53
For Up To 150, Add 0.34
For >150 To 300, Add 0.15
For >300 To 500, Add 0.08
For >3,500 To 5,000, Deduct -0.04
For >5,000, Deduct -0.10

32 12 13 19 Prime Coats *(32 12 13)*

32 12 13 19-0001 SY Surface Prime Coat, 0.26 Gallon/SY 2.62
For Up To 150, Add 0.61
For >150 To 300, Add 0.26
For >300 To 500, Add 0.13
For >3,500 To 5,000, Deduct -0.07
For >5,000, Deduct -0.18

32 12 13 19-0002 SY Surface Prime Coat, 0.28 Gallon/SY 2.78
For Up To 150, Add 0.65
For >150 To 300, Add 0.28
For >300 To 500, Add 0.14
For >3,500 To 5,000, Deduct -0.07
For >5,000, Deduct -0.20

32 12 13 19-0003 SY Surface Prime Coat, 0.30 Gallon/SY 2.95
For Up To 150, Add 0.69
For >150 To 300, Add 0.30
For >300 To 500, Add 0.15
For >3,500 To 5,000, Deduct -0.07
For >5,000, Deduct -0.21

32 12 16 Asphalt Paving *(32 12)*

32 12 16 13 Plant-Mix Asphalt Paving *(32 12 16)*

Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0043 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 36 00-0000 for seal coats.

32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) *(32 12 16 13)*
Note: S (3/4") aggregate gradation

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0002	TON	Bituminous Hot Mix Intermediate Binder Course 3,954 Lb./CY	135.00	
		Note: Includes placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
		For Warm Mix Additive, Add	*6.42*	
		For Up To 25, Add	*20.01*	
		For >25 To 50, Add	*11.27*	
		For >500 To 1,000, Deduct	*-5.46*	
		For >1,000 To 2,500, Deduct	*-9.93*	
		For >2,500 To 5,000, Deduct	*-15.39*	
		For >5,000, Deduct	*-22.10*	
32 12 16 13-0003	SY	1" Thick Bituminous Hot Mix Intermediate Binder Course	7.72	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 1,000, Add	*1.18*	
		For >1,000 To 2,000, Add	*0.67*	
		For >10,000 To 20,000, Deduct	*-0.32*	
		For >20,000 To 50,000, Deduct	*-0.58*	
		For >50,000 To 100,000, Deduct	*-0.90*	
		For >100,000, Deduct	*-1.29*	
32 12 16 13-0004	SY	1-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	11.42	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 700, Add	*1.73*	
		For >700 To 1,400, Add	*0.98*	
		For >7,000 To 14,000, Deduct	*-0.47*	
		For >14,000 To 32,000, Deduct	*-0.86*	
		For >32,000 To 64,000, Deduct	*-1.34*	
		For >64,000, Deduct	*-1.92*	
32 12 16 13-0005	SY	2" Thick Bituminous Hot Mix Intermediate Binder Course	14.63	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 500, Add	*2.14*	
		For >500 To 1,000, Add	*1.20*	
		For >5,000 To 10,000, Deduct	*-0.62*	
		For >10,000 To 24,000, Deduct	*-1.13*	
		For >24,000 To 48,000, Deduct	*-1.75*	
		For >48,000, Deduct	*-2.51*	
32 12 16 13-0006	SY	2-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	18.53	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 400, Add	*2.75*	
		For >400 To 800, Add	*1.55*	
		For >4,000 To 8,000, Deduct	*-0.78*	
		For >8,000 To 20,000, Deduct	*-1.42*	
		For >20,000 To 40,000, Deduct	*-2.20*	
		For >40,000, Deduct	*-3.16*	
32 12 16 13-0007	SY	3" Thick Bituminous Hot Mix Intermediate Binder Course	22.24	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 340, Add	*3.30*	
		For >340 To 680, Add	*2.67*	
		For >3,400 To 6,800, Deduct	*-0.93*	
		For >6,800 To 17,000, Deduct	*-1.70*	
		For >17,000 To 34,000, Deduct	*-2.64*	
		For >34,000, Deduct	*-3.79*	
32 12 16 13-0008	SY	3-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	25.94	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 280, Add	*3.85*	
		For >280 To 560, Add	*2.17*	
		For >2,800 To 5,600, Deduct	*-1.09*	
		For >5,600 To 14,000, Deduct	*-1.99*	
		For >14,000 To 28,000, Deduct	*-3.08*	
		For >28,000, Deduct	*-4.42*	
32 12 16 13-0009	SY	4" Thick Bituminous Hot Mix Intermediate Binder Course	29.65	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 250, Add	*4.40*	
		For >250 To 500, Add	*2.48*	
		For >2,500 To 5,000, Deduct	*-1.24*	
		For >5,000 To 12,000, Deduct	*-2.27*	
		For >12,000 To 24,000, Deduct	*-3.52*	
		For >24,000, Deduct	*-5.06*	
32 12 16 13-0010	SY	5" Thick Bituminous Hot Mix Intermediate Binder Course	37.06	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 200, Add	*5.49*	
		For >200 To 400, Add	*3.09*	
		For >2,000 To 4,000, Deduct	*-1.56*	
		For >4,000 To 10,000, Deduct	*-2.84*	
		For >10,000 To 20,000, Deduct	*-4.39*	
		For >20,000, Deduct	*-6.32*	
32 12 16 13-0011	SY	6" Thick Bituminous Hot Mix Intermediate Binder Course	44.47	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 160, Add	*6.59*	
		For >160 To 320, Add	*3.71*	
		For >1,600 To 3,200, Deduct	*-1.87*	
		For >3,200 To 8,000, Deduct	*-3.41*	
		For >8,000 To 16,000, Deduct	*-5.27*	
		For >16,000, Deduct	*-7.58*	

32 12 16 13-0012 Surface Wearing Courses, Hot Mix Asphalt (HMA) *(32 12 16 13)*
Note: SX (1/2") aggregate gradation

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0013	TON	Bituminous Hot Mix Surface Wearing Course 3,774 Lb./CY	139.51	
		Note: Includes placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
		For Warm Mix Additive, Add	*6.13*	
		For Up To 25, Add	*22.09*	
		For >25 To 50, Add	*12.63*	
		For >500 To 1,000, Deduct	*-5.36*	
		For >1,000 To 2,500, Deduct	*-9.78*	
		For >2,500 To 5,000, Deduct	*-15.14*	
		For >5,000, Deduct	*-21.77*	
32 12 16 13-0014	TON	Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR)	155.54	
		Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
		For Warm Mix Additive, Add	*6.68*	
		For Up To 25, Add	*25.05*	
		For >25 To 50, Add	*14.37*	
		For >500 To 1,000, Deduct	*-5.90*	
		For >1,000 To 2,500, Deduct	*-10.76*	
		For >2,500 To 5,000, Deduct	*-16.66*	
		For >5,000, Deduct	*-23.96*	
32 12 16 13-0015	TON	Asphalt Rubberized Hot Mix (ARHM) Surface Course, With 1/2" To 3/4" Course Or Medium Aggregate	164.97	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Warm Mix Additive, Add	*7.29*	
		For Up To 25, Add	*25.99*	
		For >25 To 50, Add	*14.84*	
		For >500 To 1,000, Deduct	*-6.37*	
		For >1,000 To 2,500, Deduct	*-11.61*	
		For >2,500 To 5,000, Deduct	*-17.98*	
		For >5,000, Deduct	*-25.84*	
32 12 16 13-0016	SY	1" Thick Bituminous Hot Mix Surface Wearing Course	7.66	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 1,000, Add	*1.26*	
		For >1,000 To 2,000, Add	*0.72*	
		For >10,000 To 20,000, Deduct	*-0.30*	
		For >20,000 To 50,000, Deduct	*-0.55*	
		For >50,000 To 100,000, Deduct	*-0.85*	
		For >100,000, Deduct	*-1.23*	
32 12 16 13-0017	SY	1-1/2" Thick Bituminous Hot Mix Surface Wearing Course	11.32	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 700, Add	*1.84*	
		For >700 To 1,400, Add	*1.05*	
		For >7,000 To 14,000, Deduct	*-0.45*	
		For >14,000 To 32,000, Deduct	*-0.82*	
		For >32,000 To 64,000, Deduct	*-1.27*	
		For >64,000, Deduct	*-1.83*	
32 12 16 13-0018	SY	2" Thick Bituminous Hot Mix Surface Wearing Course	14.40	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 500, Add	*2.25*	
		For >500 To 1,000, Add	*1.28*	
		For >5,000 To 10,000, Deduct	*-0.58*	
		For >10,000 To 24,000, Deduct	*-1.07*	
		For >24,000 To 48,000, Deduct	*-1.66*	
		For >48,000, Deduct	*-2.38*	
32 12 16 13-0019	SY	2-1/2" Thick Bituminous Hot Mix Surface Wearing Course	18.28	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 400, Add	*2.89*	
		For >400 To 800, Add	*1.65*	
		For >4,000 To 8,000, Deduct	*-0.74*	
		For >8,000 To 20,000, Deduct	*-1.35*	
		For >20,000 To 40,000, Deduct	*-2.09*	
		For >40,000, Deduct	*-3.00*	
32 12 16 13-0020	SY	3" Thick Bituminous Hot Mix Surface Wearing Course	21.94	
		Note: Includes placement, rolling, finishing and sweeping.		
		For Up To 340, Add	*3.47*	
		For >340 To 680, Add	*2.73*	
		For >3,400 To 6,800, Deduct	*-0.88*	
		For >6,800 To 17,000, Deduct	*-1.62*	
		For >17,000 To 34,000, Deduct	*-2.50*	
		For >34,000, Deduct	*-3.61*	
32 12 16 13-0021	CSF	Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench	102.11	

32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) *(32 12 16 13)*

32 12 16 13-0023	TON	Hand Placed Hot Mixed Asphalt 3,954 Lb./CY	390.82	
		Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.		

32 12 16 19 Cold-Mix Asphalt Paving *(32 12 16)*

Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.

32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement *(32 12 16 19)*

Note: 0.5 Gal asphalt/SY per inch depth; well-graded granular aggregate.

32 12 16 19-0002	SY	Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course	12.32	
32 12 16 19-0003	SY	Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course	11.90	
32 12 16 19-0004	SY	Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	17.91	

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 12 16 39 Paving Fabrics *(32 12 16)*

See CSI section 31 32 19 16-0000 for geotextile fabric.

32 12 16 39-0001 Geotextile Paving Fabrics *(32 12 16 39)*

32 12 16 39-0002	SY	3.6 Ounce/SY, 90 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O)		1.96	
		For Up To 50, Add		*0.44*	
		For >50 To 150, Add		*0.32*	
		For >150 To 250, Add		*0.21*	
		For >250 To 500, Add		*0.11*	
32 12 16 39-0003	SY	4.1 Ounce/SY, 101 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O)		2.11	
		For Up To 50, Add		*0.47*	
		For >50 To 150, Add		*0.35*	
		For >150 To 250, Add		*0.23*	
		For >250 To 500, Add		*0.11*	
32 12 16 39-0004	SY	1.3" x 1.3" Rib Pitch Triangular Shape, Black Finish, Polypropylene Stabilization (Tensar® TriAx® TX130S Geogrid)		2.73	
		For Up To 50, Add		*0.59*	
		For >50 To 150, Add		*0.44*	
		For >150 To 250, Add		*0.29*	
		For >250 To 500, Add		*0.14*	
32 12 16 39-0005	SY	1.6" x 1.6" Rib Pitch Triangular Shape, Black Finish, Polypropylene Stabilization (Tensar® TriAx® TX5 Geogrid)		5.30	
		For Up To 50, Add		*1.11*	
		For >50 To 150, Add		*0.83*	
		For >150 To 250, Add		*0.55*	
		For >250 To 500, Add		*0.27*	
32 12 16 39-0006	SY	1.27" x 1.27" Rib Pitch Square Shape, Black Finish, Polypropylene Stabilization (Tensar® BX1200 Geogrid)		3.03	
		For Up To 50, Add		*0.65*	
		For >50 To 150, Add		*0.48*	
		For >150 To 250, Add		*0.32*	
		For >250 To 500, Add		*0.16*	

32 12 16 39-0007 Paving Interlayer Fabrics *(32 12 16 39)*

32 12 16 39-0008	SY	Up To 500 SY, 4.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 25) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	13.80	
32 12 16 39-0009	SY	>500 To 2,500 SY, 4.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 25) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	5.75	
32 12 16 39-0010	SY	>2,500 To 5,000 SY, 4.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 25) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	4.75	
32 12 16 39-0011	SY	>5,000 To 10,000 SY, 4.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 25) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	4.58	
32 12 16 39-0012	SY	>10,000 SY, 4.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 25) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	4.28	
32 12 16 39-0013	SY	Up To 500 SY, 7.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 50) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	18.05	
32 12 16 39-0014	SY	>500 To 2,500 SY, 7.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 50) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	9.94	
32 12 16 39-0015	SY	>2,500 To 5,000 SY, 7.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 50) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	8.93	
32 12 16 39-0016	SY	>5,000 To 10,000 SY, 7.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 50) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	8.75	
32 12 16 39-0017	SY	>10,000 SY, 7.0 OZ/SY Waterproofing Paving Mat (Tensar® GlasPave® 50) Note: Includes crew, tractor, tack truck, mobilization and hot PG asphalt bonding tack to install the paving mat interlayer prior to paving.	8.61	
32 12 16 39-0018	SY	Up To 500 SY, 1" x 1" Grid, 12.0 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511) Note: Includes crew and tractor to install the paving grid interlayer prior to paving.	16.01	
32 12 16 39-0019	SY	>500 To 2,500 SY, 1" x 1" Grid, 12.0 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511) Note: Includes crew and tractor to install the paving grid interlayer prior to paving.	13.17	
32 12 16 39-0020	SY	>2,500 To 5,000 SY, 1" x 1" Grid, 12.0 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511) Note: Includes crew and tractor to install the paving grid interlayer prior to paving.	12.06	
32 12 16 39-0021	SY	>2,500 To 5,000 SY, 1" x 1" Grid, 12.0 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511) Note: Includes crew and tractor to install the paving grid interlayer prior to paving.	11.69	
32 12 16 39-0022	SY	>10,000 SY, 1" x 1" Grid, 12.0 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511) Note: Includes crew and tractor to install the paving grid interlayer prior to paving.	11.47	
32 12 16 39-0023	SY	Up To 500 SY, 1" x 1" Grid, 12.7 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511TF) Note: Includes crew and tractor to install the paving grid interlayer prior to paving.	20.66	
32 12 16 39-0024	SY	>500 To 2,500 SY, 1" x 1" Grid, 12.7 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511TF) Note: Includes crew and tractor to install the paving grid interlayer prior to paving.	17.81	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 39-0025	SY	>2,500 To 5,000 SY, 1" x 1" Grid, 12.7 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511TF)	16.70	
		Note: Includes crew and tractor to install the paving grid interlayer prior to paving.		
32 12 16 39-0026	SY	>5,000 To 10,000 SY, 1" x 1" Grid, 12.7 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511TF)	16.33	
		Note: Includes crew and tractor to install the paving grid interlayer prior to paving.		
32 12 16 39-0027	SY	>10,000 SY, 1" x 1" Grid, 12.7 OZ/SY, Self-Adhesive Paving Interlayer Reinforcement (Tensar® GlasGrid® 8511TF)	16.11	
		Note: Includes crew and tractor to install the paving grid interlayer prior to paving.		

32 12 16 43 Waterproofing Membranes *(32 12 16)*

32 12 16 43-0001 Waterproofing Membranes *(32 12 16 43)*

32 12 16 43-0002	SY	Up To 500 SY, Preformed Rubberized Asphalt Membrane	37.71	
32 12 16 43-0003	SY	>500 To 1,000 SY, Preformed Rubberized Asphalt Membrane	27.73	
32 12 16 43-0004	SY	>1,000 SY, Preformed Rubberized Asphalt Membrane	16.34	

32 12 33 Flexible Paving Surface Treatments *(32 12)*

32 12 33 00-0001 Bituminous Surface Treatment For Roadways *(32 12 33)*

Note: 0.25 Gallon bitumen per SY and 30 Lb. of gravel/SY.

32 12 33 00-0002	SY	Single Course Bituminous Treatment, Prepare And Clean Surface Roadway	3.11	
32 12 33 00-0003	SY	Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.70	

32 12 33 00-0004 Bituminous Surface Treatment For Trails *(32 12 33)*

Note: 0.25 Gallon bitumen per SY and 20 Lb. of gravel/SY.

32 12 33 00-0005	SY	Bituminous Surface Treatment, For Trails	1.96	

32 12 36 Seal Coats *(32 12)*

See CSI section 32 01 13 62-0000 for slurry seal.

32 12 36 13 Asphaltic Seal and Fog Coats *(32 12 36)*

32 12 36 13-0001 Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13)*

Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.

32 12 36 13-0002 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13-0001)*

Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.

32 12 36 13-0003	SY	Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.68	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0004	SY	>200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.12	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0005	SY	>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.88	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0006	SY	>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.60	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0007	SY	>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.45	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0008	SY	>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.33	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0009	SY	>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.18	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0010	SY	>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.10	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	

32 12 36 13-0011 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13-0001)*

Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.

32 12 36 13-0012	SY	Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.62	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0013	SY	>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.00	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0014	SY	>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.70	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0015	SY	>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.53	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0016	SY	>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.17	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0017	SY	>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.96	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0018	SY	>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.78	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0019	SY	>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.69	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0020		Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13-0001)* Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0021	SY	Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.50	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0022	SY	>200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.80	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0023	SY	>500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.43	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0024	SY	>1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.03	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0025	SY	>5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.81	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0026	SY	>10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.50	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0027	SY	>20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.28	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0028	SY	>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.19	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0029		Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13-0001)* Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0030	SY	Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.57	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0031	SY	>200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.87	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0032	SY	>500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.51	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0033	SY	>1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.11	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0034	SY	>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.90	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0035	SY	>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.68	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0036	SY	>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.39	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0037	SY	>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.28	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0038		Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13-0001)* Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0039	SY	Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	11.42	
		For Each Additional 0.5% Latex Additive, Add	*1.59*	
32 12 36 13-0040	SY	>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	10.49	
		For Each Additional 0.5% Latex Additive, Add	*1.59*	
32 12 36 13-0041	SY	>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	9.96	
		For Each Additional 0.5% Latex Additive, Add	*1.59*	
32 12 36 13-0042	SY	>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	9.36	
		For Each Additional 0.5% Latex Additive, Add	*1.59*	
32 12 36 13-0043	SY	>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	9.03	
		For Each Additional 0.5% Latex Additive, Add	*1.59*	
32 12 36 13-0044	SY	>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.64	
		For Each Additional 0.5% Latex Additive, Add	*1.59*	
32 12 36 13-0045	SY	>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.32	
		For Each Additional 0.5% Latex Additive, Add	*1.59*	
32 12 36 13-0046	SY	>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.18	
		For Each Additional 0.5% Latex Additive, Add	*1.59*	
32 12 36 13-0047		Asphalt Emulsion Seal Coat (Scrub Seal) *(32 12 36 13)* Note: Includes initial sweeping prior to placement, cleaning of area, towed broom sled of scrub brush and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping. See CSI section 32 12 36 13-0084 for fog seal.		
32 12 36 13-0048		Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) *(32 12 36 13-0047)* Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0049	SY	Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.18	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0050	SY	>200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.86	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0051	SY	>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.63	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0052	SY	>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.38	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0053	SY	>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.26	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0054	SY	>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.13	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0055	SY	>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.01	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	
32 12 36 13-0056	SY	>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.96	
		For Each Additional 0.5% Latex Additive, Add	*0.65*	

32 12 36 13-0057 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) *(32 12 36 13-0047)*

Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.

32 12 36 13-0058	SY	Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.16	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0059	SY	>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.77	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0060	SY	>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.52	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0061	SY	>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.34	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0062	SY	>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.99	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0063	SY	>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.78	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0064	SY	>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.62	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	
32 12 36 13-0065	SY	>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.56	
		For Each Additional 0.5% Latex Additive, Add	*0.80*	

32 12 36 13-0066 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) *(32 12 36 13-0047)*

Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.

32 12 36 13-0067	SY	Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	7.09	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0068	SY	>200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.59	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0069	SY	>500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.24	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0070	SY	>1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.85	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0071	SY	>5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.63	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0072	SY	>10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.32	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0073	SY	>20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.13	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	
32 12 36 13-0074	SY	>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.05	
		For Each Additional 0.5% Latex Additive, Add	*0.96*	

32 12 36 13-0075 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) *(32 12 36 13-0047)*

Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.

32 12 36 13-0076	SY	Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	7.18	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0077	SY	>200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.68	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0078	SY	>500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.32	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0079	SY	>1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.91	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0080	SY	>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.70	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0081	SY	>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.51	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0082	SY	>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.22	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	
32 12 36 13-0083	SY	>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.15	
		For Each Additional 0.5% Latex Additive, Add	*1.10*	

32 12 36 13-0084 Fog Seal, CQS-1h *(32 12 36 13)*

Note: A fog seal is a light application of diluted, slow-setting asphalt emulsion without aggregate cover. Includes sweeping and cleaning of area.

32 12 36 13-0085	SY	Up To 200 SY, CQS-1h, Fog Seal	2.13	
32 12 36 13-0086	SY	>200 To 500 SY, CQS-1h, Fog Seal	1.55	
32 12 36 13-0087	SY	>500 To 1,000 SY, CQS-1h, Fog Seal	1.32	
32 12 36 13-0088	SY	>1,000 To 5,000 SY, CQS-1h, Fog Seal	1.14	
32 12 36 13-0089	SY	>5,000 To 10,000 SY, CQS-1h, Fog Seal	1.04	
32 12 36 13-0090	SY	>10,000 To 20,000 SY, CQS-1h, Fog Seal	0.95	
32 12 36 13-0091	SY	>20,000 To 50,000 SY, CQS-1h, Fog Seal	0.89	
32 12 36 13-0092	SY	>50,000 SY, CQS-1h, Fog Seal	0.86	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0093		**Sand Sealer** *(32 12 36 13)* Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.		
32 12 36 13-0094	SY	Up To 200 SY, Sand Seal	3.24	
32 12 36 13-0095	SY	>200 To 500 SY, Sand Seal	2.13	
32 12 36 13-0096	SY	>500 To 1,000 SY, Sand Seal	2.11	
32 12 36 13-0097	SY	>1,000 To 5,000 SY, Sand Seal	1.86	
32 12 36 13-0098	SY	>5,000 To 10,000 SY, Sand Seal	1.72	
32 12 36 13-0099	SY	>10,000 To 20,000 SY, Sand Seal	1.61	
32 12 36 13-0100	SY	>20,000 To 50,000 SY, Sand Seal	1.52	
32 12 36 13-0101	SY	>50,000 SY, Sand Seal	1.49	
32 12 36 16		**Coal Tar Seal Coats** *(32 12 36)*		
32 12 36 16-0001		**Thermoplastic Coal-Tar Asphalt Seal** *(32 12 36 16)* Note: Includes sweeping and cleaning of area.		
32 12 36 16-0002	SY	Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	18.04	
32 12 36 16-0003	SY	>500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	16.99	
32 12 36 16-0004	SY	>1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	14.99	
32 12 36 16-0005	SY	>5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	13.47	
32 12 36 16-0006	SY	>20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	11.45	
32 12 36 16-0007	SY	>50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	9.45	
32 12 36 16-0008	SY	Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	21.97	
32 12 36 16-0009	SY	>500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	20.79	
32 12 36 16-0010	SY	>1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	18.38	
32 12 36 16-0011	SY	>5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	16.60	
32 12 36 16-0012	SY	>20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	14.17	
32 12 36 16-0013	SY	>50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	11.76	
32 12 36 23		**Fuel-Resistant Sealers** *(32 12 36)*		
32 12 36 23-0001		**Guardtop Seal Coat** *(32 12 36 23)* Note: Includes sweeping and cleaning of area.		
32 12 36 23-0002	SY	GuardTop® Asphalt Based Sealcoat (Two Coats)	3.50	
		For 3% Polyglass Additive, Add	*0.40*	
		For 6% Polyglass Additive, Add	*0.72*	
		For Guardtop Black Sand 60 Mesh Additive (At 3 Pounds Per Gallon), Add	*0.27*	
32 12 36 23-0003	LF	GuardTop® Cold Pour Crack Filler	1.46	
32 12 36 23-0004	LF	GuardTop® Hot Pour Crack Filler	1.68	
32 12 36 23-0005	SY	GuardTop® Oil Spot Primer For Asphalt	6.35	
32 12 36 23-0006	SY	GuardTop® Ultra, Polymer Modified, Asphalt Based Sealcoat (Two Coats)	4.65	
		For 3% Polyglass Additive, Add	*0.40*	
		For 6% Polyglass Additive, Add	*0.72*	
		For Guardtop Black Sand 60 Mesh Additive (At 3 Pounds Per Gallon), Add	*0.27*	
32 12 43		**Porous Flexible Paving** *(32 12)*		
32 12 43 00-0001		**Flexible Recycled Plastic Porous Grid** *(32 12 43)* Note: Includes sand fill in rings. Excludes base, earthwork and grass or sod.		
32 12 43 00-0002	SY	1" Thick, Recycled Plastic Flexible Pavement With Sand Fill Note: Includes sand fill in rings. Excludes base, earthwork and grass or sod. Invisible Structures, Inc.; Grasspave2.	40.94	
		For Up To 100, Add	*13.79*	
		For >100 To 500, Add	*3.47*	
		For >1,000 To 5,000, Deduct	*-1.42*	
		For >5,000, Deduct	*-2.93*	
32 12 73		**Asphalt Paving Joint Sealants** *(32 12)*		
32 12 73 00-0001		**Expansion Joint In Sidewalk** *(32 12 73)*		
32 12 73 00-0002	LF	For Hot Asphalt Poured Over Expansion Joint In Sidewalk	3.65	

32 13 Rigid Paving *(32 10)*

32 13 13 Concrete Paving *(32 13)*

Note: The following section includes spreading and placing delivered Portland cement concrete mix.

32 13 13 33 Plain Concrete Paving *(32 13 13)*

32 13 13 33-0001 Concrete Paving Assemblies *(32 13 13 33)*

Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.

32 13 13 33-0002 4,500 PSI Concrete Paving Assembly *(32 13 13 33-0001)*

See CSI section 03 31 13 00-0016 for additional concrete at edges.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0003	SY	4" 4,500 PSI Concrete Paving Assembly	64.33	
		For 2,500 PSI Concrete, Deduct	*-3.66*	
		For 3,000 PSI Concrete, Deduct	*-2.38*	
		For 3,500 PSI Concrete, Deduct	*-1.91*	
		For 4,000 PSI Concrete, Deduct	*-0.83*	
		For 5,000 PSI Concrete, Add	*0.51*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*4.13*	
		For <12' Wide Pass, Add	*11.31*	
		For 24' Or Greater Wide Pass, Deduct	*-12.87*	
		For Air Entrainment, Add	*1.59*	
		For Slipforming, Deduct	*-6.43*	
		For Up To 100, Add	*25.88*	
		For >100 To 250, Add	*14.53*	
		For >250 To 500, Add	*7.27*	
		For >1,000 To 2,000, Deduct	*-1.59*	
		For >2,000 To 5,000, Deduct	*-3.20*	
		For >5,000 To 10,000, Deduct	*-4.81*	
		For >10,000 To 20,000, Deduct	*-6.41*	
		For >20,000, Deduct	*-8.02*	
32 13 13 33-0004	SY	5" 4,500 PSI Concrete Paving Assembly	76.05	
		For 2,500 PSI Concrete, Deduct	*-4.59*	
		For 3,000 PSI Concrete, Deduct	*-2.99*	
		For 3,500 PSI Concrete, Deduct	*-2.39*	
		For 4,000 PSI Concrete, Deduct	*-1.04*	
		For 5,000 PSI Concrete, Add	*0.64*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*5.19*	
		For <12' Wide Pass, Add	*13.03*	
		For 24' Or Greater Wide Pass, Deduct	*-15.21*	
		For Air Entrainment, Add	*2.00*	
		For Slipforming, Deduct	*-7.61*	
		For Up To 100, Add	*29.67*	
		For >100 To 250, Add	*16.83*	
		For >250 To 500, Add	*8.42*	
		For >1,000 To 2,000, Deduct	*-2.00*	
		For >2,000 To 5,000, Deduct	*-3.90*	
		For >5,000 To 10,000, Deduct	*-5.80*	
		For >10,000 To 20,000, Deduct	*-7.70*	
		For >20,000, Deduct	*-9.60*	
32 13 13 33-0005	SY	6" 4,500 PSI Concrete Paving Assembly	81.25	
		For 2,500 PSI Concrete, Deduct	*-4.84*	
		For 3,000 PSI Concrete, Deduct	*-3.16*	
		For 3,500 PSI Concrete, Deduct	*-2.53*	
		For 4,000 PSI Concrete, Deduct	*-1.09*	
		For 5,000 PSI Concrete, Add	*0.67*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*5.47*	
		For <12' Wide Pass, Add	*14.00*	
		For 24' Or Greater Wide Pass, Deduct	*-16.25*	
		For Air Entrainment, Add	*2.10*	
		For Slipforming, Deduct	*-8.13*	
		For Up To 100, Add	*31.91*	
		For >100 To 250, Add	*18.06*	
		For >250 To 500, Add	*9.03*	
		For >1,000 To 2,000, Deduct	*-2.10*	
		For >2,000 To 5,000, Deduct	*-4.14*	
		For >5,000 To 10,000, Deduct	*-6.17*	
		For >10,000 To 20,000, Deduct	*-8.20*	
		For >20,000, Deduct	*-10.23*	
32 13 13 33-0006	SY	7" 4,500 PSI Concrete Paving Assembly	96.46	
		For 2,500 PSI Concrete, Deduct	*-6.10*	
		For 3,000 PSI Concrete, Deduct	*-3.98*	
		For 3,500 PSI Concrete, Deduct	*-3.18*	
		For 4,000 PSI Concrete, Deduct	*-1.38*	
		For 5,000 PSI Concrete, Add	*0.85*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*6.90*	
		For <12' Wide Pass, Add	*16.15*	
		For 24' Or Greater Wide Pass, Deduct	*-19.29*	
		For Air Entrainment, Add	*2.65*	
		For Slipforming, Deduct	*-9.65*	
		For Up To 100, Add	*36.64*	
		For >100 To 250, Add	*20.98*	
		For >250 To 500, Add	*10.49*	
		For >1,000 To 2,000, Deduct	*-2.65*	
		For >2,000 To 5,000, Deduct	*-5.07*	
		For >5,000 To 10,000, Deduct	*-7.48*	
		For >10,000 To 20,000, Deduct	*-9.89*	
		For >20,000, Deduct	*-12.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0007	SY	8" 4,500 PSI Concrete Paving Assembly	110.31	
		For 2,500 PSI Concrete, Deduct	*-6.70*	
		For 3,000 PSI Concrete, Deduct	*-4.37*	
		For 3,500 PSI Concrete, Deduct	*-3.50*	
		For 4,000 PSI Concrete, Deduct	*-1.51*	
		For 5,000 PSI Concrete, Add	*0.93*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*7.57*	
		For <12' Wide Pass, Add	*18.84*	
		For 24' Or Greater Wide Pass, Deduct	*-22.06*	
		For Air Entrainment, Add	*2.91*	
		For Slipforming, Deduct	*-11.03*	
		For Up To 100, Add	*42.89*	
		For >100 To 250, Add	*24.36*	
		For >250 To 500, Add	*12.18*	
		For >1,000 To 2,000, Deduct	*-2.91*	
		For >2,000 To 5,000, Deduct	*-5.67*	
		For >5,000 To 10,000, Deduct	*-8.43*	
		For >10,000 To 20,000, Deduct	*-11.19*	
		For >20,000, Deduct	*-13.94*	
32 13 13 33-0008	SY	9" 4,500 PSI Concrete Paving Assembly	124.80	
		For 2,500 PSI Concrete, Deduct	*-7.74*	
		For 3,000 PSI Concrete, Deduct	*-5.05*	
		For 3,500 PSI Concrete, Deduct	*-4.04*	
		For 4,000 PSI Concrete, Deduct	*-1.75*	
		For 5,000 PSI Concrete, Add	*1.08*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*8.75*	
		For <12' Wide Pass, Add	*21.10*	
		For 24' Or Greater Wide Pass, Deduct	*-24.96*	
		For Air Entrainment, Add	*3.37*	
		For Slipforming, Deduct	*-12.48*	
		For Up To 100, Add	*47.95*	
		For >100 To 250, Add	*27.34*	
		For >250 To 500, Add	*13.67*	
		For >1,000 To 2,000, Deduct	*-3.37*	
		For >2,000 To 5,000, Deduct	*-6.49*	
		For >5,000 To 10,000, Deduct	*-9.61*	
		For >10,000 To 20,000, Deduct	*-12.73*	
		For >20,000, Deduct	*-15.85*	
32 13 13 33-0009	SY	10" 4,500 PSI Concrete Paving Assembly	139.12	
		For 2,500 PSI Concrete, Deduct	*-8.52*	
		For 3,000 PSI Concrete, Deduct	*-5.55*	
		For 3,500 PSI Concrete, Deduct	*-4.44*	
		For 4,000 PSI Concrete, Deduct	*-1.93*	
		For 5,000 PSI Concrete, Add	*1.18*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*9.63*	
		For <12' Wide Pass, Add	*23.67*	
		For 24' Or Greater Wide Pass, Deduct	*-27.82*	
		For Air Entrainment, Add	*3.70*	
		For Slipforming, Deduct	*-13.91*	
		For Up To 100, Add	*53.85*	
		For >100 To 250, Add	*30.63*	
		For >250 To 500, Add	*15.31*	
		For >1,000 To 2,000, Deduct	*-3.70*	
		For >2,000 To 5,000, Deduct	*-7.18*	
		For >5,000 To 10,000, Deduct	*-10.66*	
		For >10,000 To 20,000, Deduct	*-14.14*	
		For >20,000, Deduct	*-17.61*	
32 13 13 33-0010	SY	12" 4,500 PSI Concrete Paving Assembly	165.76	
		For 2,500 PSI Concrete, Deduct	*-10.08*	
		For 3,000 PSI Concrete, Deduct	*-6.58*	
		For 3,500 PSI Concrete, Deduct	*-5.26*	
		For 4,000 PSI Concrete, Deduct	*-2.28*	
		For 5,000 PSI Concrete, Add	*1.40*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*11.40*	
		For <12' Wide Pass, Add	*28.29*	
		For 24' Or Greater Wide Pass, Deduct	*-33.15*	
		For Air Entrainment, Add	*4.38*	
		For Slipforming, Deduct	*-16.58*	
		For Up To 100, Add	*64.38*	
		For >100 To 250, Add	*36.58*	
		For >250 To 500, Add	*18.29*	
		For >1,000 To 2,000, Deduct	*-4.38*	
		For >2,000 To 5,000, Deduct	*-8.53*	
		For >5,000 To 10,000, Deduct	*-12.67*	
		For >10,000 To 20,000, Deduct	*-16.82*	
		For >20,000, Deduct	*-20.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0011	SY	15" 4,500 PSI Concrete Paving Assembly	211.31	
		For 2,500 PSI Concrete, Deduct	*-12.38*	
		For 3,000 PSI Concrete, Deduct	*-8.08*	
		For 3,500 PSI Concrete, Deduct	*-6.46*	
		For 4,000 PSI Concrete, Deduct	*-2.80*	
		For 5,000 PSI Concrete, Add	*1.72*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*14.00*	
		For <12' Wide Pass, Add	*36.68*	
		For 24' Or Greater Wide Pass, Deduct	*-42.26*	
		For Air Entrainment, Add	*5.38*	
		For Slipforming, Deduct	*-21.13*	
		For Up To 100, Add	*83.71*	
		For >100 To 250, Add	*47.24*	
		For >250 To 500, Add	*23.62*	
		For >1,000 To 2,000, Deduct	*-5.38*	
		For >2,000 To 5,000, Deduct	*-10.67*	
		For >5,000 To 10,000, Deduct	*-15.95*	
		For >10,000 To 20,000, Deduct	*-21.23*	
		For >20,000, Deduct	*-26.52*	

32 13 16 Decorative Concrete Paving *(32 13)*

32 13 16 13 Patterned Concrete Paving *(32 13 16)*

See CSI section 32 17 26 00-0000 for tactile warning surfaces.

32 13 16 13-0001	SF	For Patterned (Tactile) Finish In Concrete Sidewalk	5.76	

32 13 43 Pervious Concrete Paving *(32 13)*

32 13 43 00-0001 Pervious Concrete Assemblies *(32 13 43)*

Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.

32 13 43 00-0002	SF	6" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	19.21	
		For >5,000 To 30,000, Deduct	*-2.05*	
		For >30,000 To 100,000, Deduct	*-3.75*	
		For >100,000, Deduct	*-4.65*	
32 13 43 00-0003	SF	9" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	24.42	
		For >5,000 To 30,000, Deduct	*-2.53*	
		For >30,000 To 100,000, Deduct	*-4.54*	
		For >100,000, Deduct	*-5.64*	

32 13 73 Concrete Paving Joint Sealants *(32 13)*

32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants *(32 13 73)*

32 13 73 13-0001 Concrete Pavement Joint And Crack Repair *(32 13 73 13)*

Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.

32 13 73 13-0002 Silicone Concrete Pavement Joint And Crack Repair *(32 13 73 13-0001)*

32 13 73 13-0003	CLF	1/4" x 1/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	640.41	
		For Custom Match Coloring, Add	*16.36*	
		For 1 Part Mildew Resistant, Add	*23.85*	
		For High-Modulus Non-Acid Curing, Add	*13.63*	
32 13 73 13-0004	CLF	1/4" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	712.64	
		For Custom Match Coloring, Add	*24.53*	
		For 1 Part Mildew Resistant, Add	*35.78*	
		For High-Modulus Non-Acid Curing, Add	*20.44*	
32 13 73 13-0005	CLF	1/4" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair	784.87	
		For Custom Match Coloring, Add	*32.71*	
		For 1 Part Mildew Resistant, Add	*47.71*	
		For High-Modulus Non-Acid Curing, Add	*27.26*	
32 13 73 13-0006	CLF	3/8" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	801.90	
		For Custom Match Coloring, Add	*36.80*	
		For 1 Part Mildew Resistant, Add	*53.67*	
		For High-Modulus Non-Acid Curing, Add	*30.67*	
32 13 73 13-0007	CLF	3/8" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair	872.08	
		For Custom Match Coloring, Add	*49.07*	
		For 1 Part Mildew Resistant, Add	*71.55*	
		For High-Modulus Non-Acid Curing, Add	*40.89*	
32 13 73 13-0008	CLF	3/8" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	942.27	
		For Custom Match Coloring, Add	*61.33*	
		For 1 Part Mildew Resistant, Add	*89.44*	
		For High-Modulus Non-Acid Curing, Add	*51.11*	
32 13 73 13-0009	CLF	3/8" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,031.53	
		For Custom Match Coloring, Add	*73.60*	
		For 1 Part Mildew Resistant, Add	*107.33*	
		For High-Modulus Non-Acid Curing, Add	*61.33*	
32 13 73 13-0010	CLF	1/2" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair	959.31	
		For Custom Match Coloring, Add	*65.42*	
		For 1 Part Mildew Resistant, Add	*95.41*	
		For High-Modulus Non-Acid Curing, Add	*54.52*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 73 13-0011		CLF	1/2" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,103.76	
			For Custom Match Coloring, Add	*81.78*	
			For 1 Part Mildew Resistant, Add	*119.26*	
			For High-Modulus Non-Acid Curing, Add	*68.15*	
32 13 73 13-0012		CLF	1/2" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,210.06	
			For Custom Match Coloring, Add	*98.13*	
			For 1 Part Mildew Resistant, Add	*143.11*	
			For High-Modulus Non-Acid Curing, Add	*81.78*	
32 13 73 13-0013		CLF	1/2" x 7/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,316.35	
			For Custom Match Coloring, Add	*114.49*	
			For 1 Part Mildew Resistant, Add	*166.96*	
			For High-Modulus Non-Acid Curing, Add	*95.41*	
32 13 73 13-0014		CLF	1/2" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,403.58	
			For Custom Match Coloring, Add	*130.84*	
			For 1 Part Mildew Resistant, Add	*190.81*	
			For High-Modulus Non-Acid Curing, Add	*109.04*	
32 13 73 13-0015		CLF	3/4" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,490.81	
			For Custom Match Coloring, Add	*147.20*	
			For 1 Part Mildew Resistant, Add	*214.67*	
			For High-Modulus Non-Acid Curing, Add	*122.67*	
32 13 73 13-0016		CLF	3/4" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,767.47	
			For Custom Match Coloring, Add	*204.44*	
			For 1 Part Mildew Resistant, Add	*298.15*	
			For High-Modulus Non-Acid Curing, Add	*170.37*	
32 13 73 13-0017		CLF	1" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair	2,044.14	
			For Custom Match Coloring, Add	*261.69*	
			For 1 Part Mildew Resistant, Add	*381.63*	
			For High-Modulus Non-Acid Curing, Add	*218.07*	

32 13 73 16 Field-Molded Concrete Paving Joint Sealants *(32 13 73)*

32 13 73 16-0001 Preformed Elastomeric Concrete Pavement Joint And Crack Repair *(32 13 73 16)*

Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.

32 13 73 16-0002		LF	Joint Sealing, Concrete Pavement Preformed Elastomeric	13.73	

32 13 73 19 Compression Concrete Paving Joint Sealants *(32 13 73)*

32 13 73 19-0001 Silicone Joint Sealant For Concrete Pavement *(32 13 73 19)*

Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.

32 13 73 19-0002		CLF	1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	586.80	121.97
			For >25 To 50, Deduct	*-15.66*	
			For >50 To 100, Deduct	*-31.81*	
			For >100 To 175, Deduct	*-46.48*	
			For >175 To 250, Deduct	*-63.62*	
			For >250, Deduct	*-80.77*	
32 13 73 19-0003		CLF	3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	664.24	130.10
			For >25 To 50, Deduct	*-18.04*	
			For >50 To 100, Deduct	*-36.81*	
			For >100 To 175, Deduct	*-53.41*	
			For >175 To 250, Deduct	*-73.61*	
			For >250, Deduct	*-93.82*	
32 13 73 19-0004		CLF	1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	767.28	138.24
			For >25 To 50, Deduct	*-21.33*	
			For >50 To 100, Deduct	*-43.72*	
			For >100 To 175, Deduct	*-62.90*	
			For >175 To 250, Deduct	*-87.44*	
			For >250, Deduct	*-111.98*	
32 13 73 19-0005		CLF	3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	1,116.11	154.50
			For >25 To 50, Deduct	*-32.88*	
			For >50 To 100, Deduct	*-68.26*	
			For >100 To 175, Deduct	*-96.16*	
			For >175 To 250, Deduct	*-136.52*	
			For >250, Deduct	*-176.87*	
32 13 73 19-0006		CLF	1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	1,521.02	182.96
			For >25 To 50, Deduct	*-45.92*	
			For >50 To 100, Deduct	*-95.78*	
			For >100 To 175, Deduct	*-133.81*	
			For >175 To 250, Deduct	*-191.56*	
			For >250, Deduct	*-249.32*	
32 13 73 19-0007		CLF	1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	2,187.87	203.29
			For >25 To 50, Deduct	*-68.44*	
			For >50 To 100, Deduct	*-143.76*	
			For >100 To 175, Deduct	*-198.46*	
			For >175 To 250, Deduct	*-287.52*	
			For >250, Deduct	*-376.59*	
32 13 73 19-0008		CLF	2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	3,052.77	225.88
			For >25 To 50, Deduct	*-97.81*	
			For >50 To 100, Deduct	*-206.37*	
			For >100 To 175, Deduct	*-282.69*	
			For >175 To 250, Deduct	*-412.74*	
			For >250, Deduct	*-542.79*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 14 Unit Paving *(32 10)*

32 14 09 Paver Restraints *(32 14)*

32 14 09 00-0001 Paver Restraints *(32 14 09)*

Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.

32 14 09 00-0002	LF	Up To 2" Height, Vinyl Paver Restraint	5.41	1.21
		For >1,000 To 2,000, Deduct	*-0.77*	
		For >2,000 To 4,000, Deduct	*-1.11*	
		For >4,000, Deduct	*-1.43*	
32 14 09 00-0003	LF	Up To 2" Height, Galvanized Steel Paver Restraint	5.88	1.21
		For >500 To 1,000, Deduct	*-0.20*	
		For >1,000 To 2,000, Deduct	*-0.40*	
		For >2,000, Deduct	*-0.59*	
32 14 09 00-0004	LF	Up To 1" Height, Aluminum Paver Restraint	5.65	1.21
		For >250 To 500, Deduct	*-0.37*	
		For >500 To 1,000, Deduct	*-0.56*	
		For >1,000 To 1,500, Deduct	*-0.93*	
32 14 09 00-0005	LF	>1" To 2" Height, Aluminum Paver Restraint	6.69	1.21
		For >250 To 500, Deduct	*-0.48*	
		For >500 To 1,000, Deduct	*-0.71*	
		For >1,000 To 1,500, Deduct	*-1.19*	
32 14 09 00-0006	LF	>2" To 3" Height, Aluminum Paver Restraint	8.70	1.21
		For >250 To 500, Deduct	*-0.68*	
		For >500 To 1,000, Deduct	*-1.02*	
		For >1,000 To 1,500, Deduct	*-1.69*	
32 14 09 00-0007	LF	>3" To 4" Height, Aluminum Paver Restraint	10.23	1.21
		For >250 To 500, Deduct	*-0.83*	
		For >500 To 1,000, Deduct	*-1.25*	
		For >1,000 To 1,500, Deduct	*-2.08*	

32 14 11 Bedding for Unit Paving *(32 14)*

32 14 11 00-0001 Bedding For Brick, Precast Concrete Paver And Stone Sidewalk *(32 14 11)*

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 14 11 00-0002	SF	1" To 2" Screeded Sand Bedding	1.15	
		For Up To 100, Add	*0.52*	
		For >100 To 500, Add	*0.15*	
		For >1,000 To 5,000, Deduct	*-0.09*	
		For >5,000, Deduct	*-0.14*	
32 14 11 00-0003	SF	1" To 2" Screeded Stone Dust Bedding	1.36	
		For Up To 100, Add	*0.57*	
		For >100 To 500, Add	*0.16*	
		For >1,000 To 5,000, Deduct	*-0.09*	
		For >5,000, Deduct	*-0.15*	
32 14 11 00-0004	SF	3" Screeded Stone Dust Bedding	1.74	
		For Up To 100, Add	*0.70*	
		For >100 To 500, Add	*0.19*	
		For >1,000 To 5,000, Deduct	*-0.11*	
		For >5,000, Deduct	*-0.18*	
32 14 11 00-0005	SF	4" Screeded Stone Dust Bedding	2.20	
		For Up To 100, Add	*0.88*	
		For >100 To 500, Add	*0.24*	
		For >1,000 To 5,000, Deduct	*-0.13*	
		For >5,000, Deduct	*-0.22*	
32 14 11 00-0006	SF	1" Mortar Bedding	3.63	
		For Up To 100, Add	*1.65*	
		For >100 To 500, Add	*0.48*	
		For >1,000 To 5,000, Deduct	*-0.30*	
		For >5,000, Deduct	*-0.46*	
32 14 11 00-0007	SF	2" Mortar Bedding	5.28	
		For Up To 100, Add	*2.31*	
		For >100 To 500, Add	*0.66*	
		For >1,000 To 5,000, Deduct	*-0.40*	
		For >5,000, Deduct	*-0.63*	
32 14 11 00-0008	SF	Thin-Set Latex Portland Cement Mortar	1.84	
		For Up To 100, Add	*0.86*	
		For >100 To 500, Add	*0.25*	
		For >1,000 To 5,000, Deduct	*-0.16*	
		For >5,000, Deduct	*-0.24*	

32 14 13 Precast Concrete Unit Paving *(32 14)*

32 14 13 16 Precast Concrete Unit Paving Slabs *(32 14 13)*

32 14 13 16-0001 Precast Concrete Paver Sidewalk *(32 14 13 16)*

Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 13 16-0002	SF	2-3/8" Thick, Up To 32 SI Precast Concrete Paver	12.80	3.69
		Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	*1.18*	
		For 3-1/8" Concrete Paver, Add	*1.90*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.01*	
		For Up To 100, Add	*5.05*	
		For >100 To 500, Add	*1.38*	
		For >1,000 To 5,000, Deduct	*-0.74*	
		For >5,000, Deduct	*-1.27*	
32 14 13 16-0003	SF	2-3/8" Thick, >32 to 64 SI Precast Concrete Paver	12.12	3.37
		Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	*1.15*	
		For 3-1/8" Concrete Paver, Add	*1.85*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.94*	
		For Up To 100, Add	*4.71*	
		For >100 To 500, Add	*1.28*	
		For >1,000 To 5,000, Deduct	*-0.67*	
		For >5,000, Deduct	*-1.17*	
32 14 13 16-0004	SF	2-3/8" Thick, >64 to 144 SI Precast Concrete Paver	11.51	2.67
		Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	*1.11*	
		For 3-1/8" Concrete Paver, Add	*1.81*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.88*	
		For Up To 100, Add	*4.41*	
		For >100 To 500, Add	*1.19*	
		For >1,000 To 5,000, Deduct	*-0.61*	
		For >5,000, Deduct	*-1.08*	
32 14 13 16-0005	SF	2-3/8" Thick, >144 SI Precast Concrete Paver	10.95	2.78
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	*1.09*	
		For 3-1/8" Concrete Paver, Add	*1.76*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.83*	
		For Up To 100, Add	*4.13*	
		For >100 To 500, Add	*1.10*	
		For >1,000 To 5,000, Deduct	*-0.56*	
		For >5,000, Deduct	*-1.00*	
32 14 13 16-0006	SF	2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns	11.81	3.20
		Note: Patterns made by combining pavers from two or more size groups.		
		For 2-3/4" Concrete Paver, Add	*1.13*	
		For 3-1/8" Concrete Paver, Add	*1.83*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.91*	
		For Up To 100, Add	*4.56*	
		For >100 To 500, Add	*1.23*	
		For >1,000 To 5,000, Deduct	*-0.64*	
		For >5,000, Deduct	*-1.12*	

32 14 13 19 Porous Precast Concrete Unit Paving *(32 14 13)*

32 14 13 19-0001 Turf Block *(32 14 13 19)*

Note: Grass grid, open-cell unit paver, geoblock.

32 14 13 19-0002	SF	3-1/8" Thick, Precast Concrete Turf Block	13.46	3.20
		For Up To 100, Add	*4.97*	
		For >100 To 500, Add	*1.32*	
		For >1,000 To 5,000, Deduct	*-0.64*	
		For >5,000, Deduct	*-1.17*	

32 14 16 Brick Unit Paving *(32 14)*

32 14 16 00-0001 Brick Paver Sidewalk *(32 14 16)*

Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 16 00-0002	SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat	16.67	3.69
		For 1-3/8" Thick Paver, Deduct	*-3.61*	
		For 2-3/4" Thick Paver (Vehicular), Add	*8.27*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.20*	
		For Up To 100, Add	*6.02*	
		For >100 To 500, Add	*1.57*	
		For >1,000 To 5,000, Deduct	*-0.74*	
		For >5,000, Deduct	*-1.39*	
32 14 16 00-0003	SF	4" x 8" x 2-1/4" Brick, Laid On Edge	24.89	4.22
		For 1-3/8" Thick Paver, Deduct	*-6.19*	
		For 2-3/4" Thick Paver (Vehicular), Add	*14.47*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.67*	
		For Up To 100, Add	*8.33*	
		For >100 To 500, Add	*2.09*	
		For >1,000 To 5,000, Deduct	*-0.84*	
		For >5,000, Deduct	*-1.76*	

32 14 33 Plastic Paving *(32 14)*

32 14 33 13 Permeable Plastic Paving *(32 14 33)*

32 14 33 13-0001 Turf Block Plastic Paving *(32 14 33 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 33 13-0002	SF	4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block	20.40	3.20
		For Up To 100, Add	*6.71*	
		For >100 To 500, Add	*1.66*	
		For >1,000 To 5,000, Deduct	*-0.64*	
		For >5,000, Deduct	*-1.38*	

32 14 40 Stone Paving *(32 14)*

32 14 40 00-0001 Slate Paver Sidewalk *(32 14 40)*

Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 40 00-0002	SF	1" Thick, Up to 54 SI Slate Paver	17.00	3.06
		Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.16*	
		For 1/4" Thick Paver, Deduct	*-8.49*	
		For 1/2" Thick Paver, Deduct	*-5.92*	
		For Up To 100, Add	*5.78*	
		For >100 To 500, Add	*1.46*	
		For >1,000 To 5,000, Deduct	*-0.61*	
		For >5,000, Deduct	*-1.24*	
32 14 40 00-0003	SF	1" Thick, >54 to 108 SI Slate Paver	16.44	2.78
		Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.10*	
		For 1/4" Thick Paver, Deduct	*-8.35*	
		For 1/2" Thick Paver, Deduct	*-5.84*	
		For Up To 100, Add	*5.50*	
		For >100 To 500, Add	*1.38*	
		For >1,000 To 5,000, Deduct	*-0.56*	
		For >5,000, Deduct	*-1.16*	
32 14 40 00-0004	SF	1" Thick, >108 to 216 SI Slate Paver	15.48	2.30
		Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.00*	
		For 1/4" Thick Paver, Deduct	*-8.11*	
		For 1/2" Thick Paver, Deduct	*-5.69*	
		For Up To 100, Add	*5.02*	
		For >100 To 500, Add	*1.23*	
		For >1,000 To 5,000, Deduct	*-0.46*	
		For >5,000, Deduct	*-1.02*	
32 14 40 00-0005	SF	1" Thick, >216 SI Slate Paver	15.06	2.09
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.96*	
		For 1/4" Thick Paver, Deduct	*-8.01*	
		For 1/2" Thick Paver, Deduct	*-5.63*	
		For Up To 100, Add	*4.81*	
		For >100 To 500, Add	*1.17*	
		For >1,000 To 5,000, Deduct	*-0.42*	
		For >5,000, Deduct	*-0.95*	
32 14 40 00-0006	SF	1" Thick, Slate Paver, Combinations And Patterns	15.91	2.52
		Note: Patterns made by combining pavers from two or more size groups.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.05*	
		For 1/4" Thick Paver, Deduct	*-8.22*	
		For 1/2" Thick Paver, Deduct	*-5.76*	
		For Up To 100, Add	*5.24*	
		For >100 To 500, Add	*1.30*	
		For >1,000 To 5,000, Deduct	*-0.50*	
		For >5,000, Deduct	*-1.08*	

32 14 40 00-0007 Granite Paver Sidewalk *(32 14 40)*

Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 40 00-0008	SF	1" Thick, Up to 54 SI Granite Paver	33.75	3.06
		Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.99*	
		For 2" Granite Paver, Add	*1.69*	
		For 3" Granite Paver, Add	*3.38*	
		For 4" Granite Paver, Add	*3.68*	
		For Up To 100, Add	*9.97*	
		For >100 To 500, Add	*2.30*	
		For >1,000 To 5,000, Deduct	*-0.61*	
		For >5,000, Deduct	*-1.75*	
32 14 40 00-0009	SF	1" Thick, >54 to 108 SI Granite Paver	33.19	2.78
		Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.94*	
		For 2" Granite Paver, Add	*1.66*	
		For 3" Granite Paver, Add	*3.32*	
		For 4" Granite Paver, Add	*3.60*	
		For Up To 100, Add	*9.69*	
		For >100 To 500, Add	*2.22*	
		For >1,000 To 5,000, Deduct	*-0.56*	
		For >5,000, Deduct	*-1.66*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0010	SF	1" Thick, >108 to 216 SI Granite Paver	32.23	2.30
		Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.84*	
		For 2" Granite Paver, Add	*1.61*	
		For 3" Granite Paver, Add	*3.22*	
		For 4" Granite Paver, Add	*3.45*	
		For Up To 100, Add	*9.21*	
		For >100 To 500, Add	*2.07*	
		For >1,000 To 5,000, Deduct	*-0.46*	
		For >5,000, Deduct	*-1.52*	
32 14 40 00-0011	SF	1" Thick, >216 SI Granite Paver	31.81	2.09
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.80*	
		For 2" Granite Paver, Add	*1.59*	
		For 3" Granite Paver, Add	*3.18*	
		For 4" Granite Paver, Add	*3.39*	
		For Up To 100, Add	*9.00*	
		For >100 To 500, Add	*2.01*	
		For >1,000 To 5,000, Deduct	*-0.42*	
		For >5,000, Deduct	*-1.46*	
32 14 40 00-0012	SF	1" Thick, Granite Paver, Combinations And Patterns	32.66	2.52
		Note: Patterns made by combining pavers from two or more size groups.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.88*	
		For 2" Granite Paver, Add	*1.63*	
		For 3" Granite Paver, Add	*3.27*	
		For 4" Granite Paver, Add	*3.52*	
		For Up To 100, Add	*9.42*	
		For >100 To 500, Add	*2.14*	
		For >1,000 To 5,000, Deduct	*-0.50*	
		For >5,000, Deduct	*-1.58*	

32 15 Aggregate Surfacing *(32 10)*

32 15 40 Crushed Stone Surfacing *(32 15)*

Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 15 40 00-0001 Gravel Surfacing And Spreading *(32 15 40)*

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0002	CY	Gravel Surfacing And Spreading	110.36

32 15 40 00-0003 Limestone Screenings *(32 15 40)*

Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.

32 15 40 00-0004	CY	Limestone Screenings For Trail	77.46

32 15 40 00-0005 Decomposed Granite *(32 15 40)*

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0006	SY	3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway	20.94	
		Note: Placed in 2 lifts.		
		For Additional 2" Lift	*10.47*	
		For >45 To 180, Deduct	*-1.41*	
		For >180 To 450, Deduct	*-1.77*	
		For >450, Deduct	*-2.13*	

32 16 Curbs, Gutters, Sidewalks, and Driveways *(32 10)*

32 16 13 Curbs and Gutters *(32 16)*

Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0057 for additional saw cuts within the 100'.

32 16 13 13 Cast-In-Place Concrete Curbs and Gutters *(32 16 13)*

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0001 CALTRANs Cast In Place Concrete Curbs Assemblies *(32 16 13 13)*

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0002	LF	CALTRANs Type A1-6 Straight Concrete Curb Assembly	29.51	12.76
		For Up To 20, Add	*17.06*	
		For >20 To 50, Add	*9.65*	
		For >50 To 100, Add	*3.71*	
		For >500 To 1,000, Deduct	*-3.71*	
		For >1,000, Deduct	*-6.30*	
32 16 13 13-0003	LF	CALTRANs Type A1-6 Radius Concrete Curb Assembly	33.09	14.67
		For Up To 20, Add	*19.53*	
		For >20 To 50, Add	*11.06*	
		For >50 To 100, Add	*4.24*	
		For >500 To 1,000, Deduct	*-4.24*	
		For >1,000, Deduct	*-7.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0004	LF	CALTRANs Type A1-8 Straight Concrete Curb Assembly	31.02	12.76
		For Up To 20, Add	*18.64*	
		For >20 To 50, Add	*10.57*	
		For >50 To 100, Add	*4.04*	
		For >500 To 1,000, Deduct	*-4.04*	
		For >1,000, Deduct	*-6.83*	
32 16 13 13-0005	LF	CALTRANs Type A1-8 Radius Concrete Curb Assembly	33.33	14.67
		For Up To 20, Add	*20.22*	
		For >20 To 50, Add	*11.47*	
		For >50 To 100, Add	*4.38*	
		For >500 To 1,000, Deduct	*-4.38*	
		For >1,000, Deduct	*-7.40*	
32 16 13 13-0006	LF	CALTRANs Type A3-6 Straight Concrete Curb Assembly	15.91	8.62
		For Up To 20, Add	*9.56*	
		For >20 To 50, Add	*5.42*	
		For >50 To 100, Add	*2.07*	
		For >500 To 1,000, Deduct	*-2.07*	
		For >1,000, Deduct	*-3.51*	
32 16 13 13-0007	LF	CALTRANs Type A3-6 Radius Concrete Curb Assembly	18.46	9.95
		For Up To 20, Add	*11.35*	
		For >20 To 50, Add	*6.44*	
		For >50 To 100, Add	*2.45*	
		For >500 To 1,000, Deduct	*-2.45*	
		For >1,000, Deduct	*-4.14*	
32 16 13 13-0008	LF	CALTRANs Type A3-8 Straight Concrete Curb Assembly	17.61	8.93
		For Up To 20, Add	*10.41*	
		For >20 To 50, Add	*5.89*	
		For >50 To 100, Add	*2.26*	
		For >500 To 1,000, Deduct	*-2.26*	
		For >1,000, Deduct	*-3.83*	
32 16 13 13-0009	LF	CALTRANs Type A3-8 Radius Concrete Curb Assembly	20.30	10.72
		For Up To 20, Add	*12.29*	
		For >20 To 50, Add	*6.97*	
		For >50 To 100, Add	*2.66*	
		For >500 To 1,000, Deduct	*-2.66*	
		For >1,000, Deduct	*-4.50*	
32 16 13 13-0010	LF	CALTRANs Type B1-4 Straight Concrete Curb Assembly	26.91	12.76
		For Up To 20, Add	*15.59*	
		For >20 To 50, Add	*8.81*	
		For >50 To 100, Add	*3.39*	
		For >500 To 1,000, Deduct	*-3.39*	
		For >1,000, Deduct	*-5.75*	
32 16 13 13-0011	LF	CALTRANs Type B1-4 Straight Concrete Curb Assembly	30.17	14.67
		For Up To 20, Add	*17.83*	
		For >20 To 50, Add	*10.10*	
		For >50 To 100, Add	*3.87*	
		For >500 To 1,000, Deduct	*-3.87*	
		For >1,000, Deduct	*-6.56*	
32 16 13 13-0012	LF	CALTRANs Type B1-6 Straight Concrete Curb Assembly	30.10	12.76
		For Up To 20, Add	*17.18*	
		For >20 To 50, Add	*9.71*	
		For >50 To 100, Add	*3.74*	
		For >500 To 1,000, Deduct	*-3.74*	
		For >1,000, Deduct	*-6.36*	
32 16 13 13-0013	LF	CALTRANs Type B1-6 Radius Concrete Curb Assembly	33.68	14.67
		For Up To 20, Add	*19.65*	
		For >20 To 50, Add	*11.12*	
		For >50 To 100, Add	*4.27*	
		For >500 To 1,000, Deduct	*-4.27*	
		For >1,000, Deduct	*-7.24*	
32 16 13 13-0014	LF	CALTRANs Type B3-4 Straight Concrete Curb Assembly	117.28	7.79
		For Up To 20, Add	*80.86*	
		For >20 To 50, Add	*46.17*	
		For >50 To 100, Add	*17.35*	
		For >500 To 1,000, Deduct	*-17.35*	
		For >1,000, Deduct	*-28.95*	
32 16 13 13-0015	LF	CALTRANs Type B3-4 Radius Concrete Curb Assembly	16.24	8.93
		For Up To 20, Add	*10.13*	
		For >20 To 50, Add	*5.76*	
		For >50 To 100, Add	*2.19*	
		For >500 To 1,000, Deduct	*-2.19*	
		For >1,000, Deduct	*-3.69*	
32 16 13 13-0016	LF	CALTRANs Type B3-6 Straight Concrete Curb Assembly	15.60	8.04
		For Up To 20, Add	*9.31*	
		For >20 To 50, Add	*5.27*	
		For >50 To 100, Add	*2.02*	
		For >500 To 1,000, Deduct	*-2.02*	
		For >1,000, Deduct	*-3.42*	
32 16 13 13-0017	LF	CALTRANs Type B3-6 Radius Concrete Curb Assembly	18.02	9.69
		For Up To 20, Add	*11.00*	
		For >20 To 50, Add	*6.24*	
		For >50 To 100, Add	*2.38*	
		For >500 To 1,000, Deduct	*-2.38*	
		For >1,000, Deduct	*-4.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0018	LF	CALTRANs Type D-4 Straight Concrete Curb Assembly	30.18	12.76
		For Up To 20, Add	*16.24*	
		For >20 To 50, Add	*9.14*	
		For >50 To 100, Add	*3.55*	
		For >500 To 1,000, Deduct	*-3.55*	
		For >1,000, Deduct	*-6.08*	
32 16 13 13-0019	LF	CALTRANs Type D-4 Radius Concrete Curb Assembly	33.44	14.67
		For Up To 20, Add	*18.49*	
		For >20 To 50, Add	*10.42*	
		For >50 To 100, Add	*4.03*	
		For >500 To 1,000, Deduct	*-4.03*	
		For >1,000, Deduct	*-6.88*	
32 16 13 13-0020	LF	CALTRANs Type D-6 Straight Concrete Curb Assembly	34.88	12.76
		For Up To 20, Add	*17.18*	
		For >20 To 50, Add	*9.61*	
		For >50 To 100, Add	*3.79*	
		For >500 To 1,000, Deduct	*-3.79*	
		For >1,000, Deduct	*-6.55*	
32 16 13 13-0021	LF	CALTRANs Type D-6 Radius Concrete Curb Assembly	38.14	14.67
		For Up To 20, Add	*19.43*	
		For >20 To 50, Add	*10.89*	
		For >50 To 100, Add	*4.27*	
		For >500 To 1,000, Deduct	*-4.27*	
		For >1,000, Deduct	*-7.35*	

32 16 13 13-0022 CALTRANs Cast In Place Concrete Curb And Gutter Assemblies *(32 16 13 13)*

Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.

32 16 13 13-0023	LF	CALTRANs Type A2-6 Straight Concrete Curb And Gutter Assembly	60.87	23.92
		For Up To 20, Add	*41.31*	
		For >20 To 50, Add	*23.05*	
		For >50 To 100, Add	*9.13*	
		For >500 To 1,000, Deduct	*-7.83*	
		For >1,000, Deduct	*-13.26*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.07*	
32 16 13 13-0024	LF	CALTRANs Type A2-6 Radius Concrete Curb And Gutter Assembly	65.90	26.44
		For Up To 20, Add	*44.83*	
		For >20 To 50, Add	*25.06*	
		For >50 To 100, Add	*9.89*	
		For >500 To 1,000, Deduct	*-8.58*	
		For >1,000, Deduct	*-14.52*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.57*	
32 16 13 13-0025	LF	CALTRANs Type A2-8 Straight Concrete Curb And Gutter Assembly	65.42	23.92
		For Up To 20, Add	*44.40*	
		For >20 To 50, Add	*24.77*	
		For >50 To 100, Add	*9.81*	
		For >500 To 1,000, Deduct	*-8.41*	
		For >1,000, Deduct	*-14.26*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.37*	
32 16 13 13-0026	LF	CALTRANs Type A2-8 Radius Concrete Curb And Gutter Assembly	70.84	26.44
		For Up To 20, Add	*48.19*	
		For >20 To 50, Add	*26.94*	
		For >50 To 100, Add	*10.63*	
		For >500 To 1,000, Deduct	*-9.23*	
		For >1,000, Deduct	*-15.61*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.92*	
32 16 13 13-0027	LF	CALTRANs Type B2-4 Straight Concrete Curb And Gutter Assembly	33.50	13.73
		For Up To 20, Add	*22.22*	
		For >20 To 50, Add	*12.17*	
		For >50 To 100, Add	*5.03*	
		For >500 To 1,000, Deduct	*-3.79*	
		For >1,000, Deduct	*-6.52*	
		For Mountable Or Rolled Curb And Gutter, Add	*1.44*	
32 16 13 13-0028	LF	CALTRANs Type B2-4 Radius Concrete Curb And Gutter Assembly	35.51	15.11
		For Up To 20, Add	*23.62*	
		For >20 To 50, Add	*12.97*	
		For >50 To 100, Add	*5.33*	
		For >500 To 1,000, Deduct	*-4.09*	
		For >1,000, Deduct	*-7.03*	
		For Mountable Or Rolled Curb And Gutter, Add	*1.64*	
32 16 13 13-0029	LF	CALTRANs Type B2-6 Straight Concrete Curb And Gutter Assembly	39.94	15.11
		For Up To 20, Add	*26.61*	
		For >20 To 50, Add	*14.63*	
		For >50 To 100, Add	*5.99*	
		For >500 To 1,000, Deduct	*-4.64*	
		For >1,000, Deduct	*-7.96*	
		For Mountable Or Rolled Curb And Gutter, Add	*1.90*	
32 16 13 13-0030	LF	CALTRANs Type B2-6 Radius Concrete Curb And Gutter Assembly	42.45	20.15
		For Up To 20, Add	*28.37*	
		For >20 To 50, Add	*15.63*	
		For >50 To 100, Add	*6.37*	
		For >500 To 1,000, Deduct	*-5.02*	
		For >1,000, Deduct	*-8.59*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0031	LF	CALTRANs Type B4-6 Straight Concrete Curb And Gutter Assembly	65.33	26.31
		For Up To 20, Add	*44.46*	
		For >20 To 50, Add	*24.86*	
		For >50 To 100, Add	*9.80*	
		For >500 To 1,000, Deduct	*-8.53*	
		For >1,000, Deduct	*-14.43*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.57*	
32 16 13 13-0032	LF	CALTRANs Type B4-6 Radius Concrete Curb And Gutter Assembly	70.11	28.71
		For Up To 20, Add	*47.81*	
		For >20 To 50, Add	*26.78*	
		For >50 To 100, Add	*10.52*	
		For >500 To 1,000, Deduct	*-9.25*	
		For >1,000, Deduct	*-15.62*	
		For Mountable Or Rolled Curb And Gutter, Add	*5.04*	
32 16 13 13-0033	LF	CALTRANs Type E Straight Concrete Curb And Gutter Assembly	69.73	27.70
		For Up To 20, Add	*47.38*	
		For >20 To 50, Add	*26.46*	
		For >50 To 100, Add	*10.46*	
		For >500 To 1,000, Deduct	*-9.03*	
		For >1,000, Deduct	*-15.28*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.75*	
32 16 13 13-0034	LF	CALTRANs Type E Radius Concrete Curb And Gutter Assembly	74.77	30.22
		For Up To 20, Add	*50.91*	
		For >20 To 50, Add	*28.48*	
		For >50 To 100, Add	*11.22*	
		For >500 To 1,000, Deduct	*-9.78*	
		For >1,000, Deduct	*-16.54*	
		For Mountable Or Rolled Curb And Gutter, Add	*5.26*	

32 16 13 13-0035 Cast In Place Concrete Curbs Assemblies *(32 16 13 13)*

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0036	LF	6" x 12" Cast In Place Concrete Curb	26.33	12.76
		For Mountable Curb, Add	*1.72*	
		For Up To 20, Add	*15.47*	
		For >20 To 50, Add	*8.76*	
		For >50 To 100, Add	*3.36*	
		For >500 To 1,000, Deduct	*-3.36*	
		For >1,000, Deduct	*-5.69*	
32 16 13 13-0037	LF	6" x 12" Cast In Place Concrete Curb - Radius	29.91	14.67
		For Mountable Curb, Add	*2.01*	
		For Up To 20, Add	*17.78*	
		For >20 To 50, Add	*10.07*	
		For >50 To 100, Add	*3.86*	
		For >500 To 1,000, Deduct	*-3.86*	
		For >1,000, Deduct	*-6.53*	
32 16 13 13-0038	LF	6" x 14" Cast In Place Concrete Curb	28.70	12.76
		For Mountable Curb, Add	*1.88*	
		For Up To 20, Add	*16.90*	
		For >20 To 50, Add	*9.57*	
		For >50 To 100, Add	*3.67*	
		For >500 To 1,000, Deduct	*-3.67*	
		For >1,000, Deduct	*-6.22*	
32 16 13 13-0039	LF	6" x 14" Cast In Place Concrete Curb - Radius	32.65	14.67
		For Mountable Curb, Add	*2.21*	
		For Up To 20, Add	*19.45*	
		For >20 To 50, Add	*11.01*	
		For >50 To 100, Add	*4.22*	
		For >500 To 1,000, Deduct	*-4.22*	
		For >1,000, Deduct	*-7.14*	
32 16 13 13-0040	LF	6" x 16" Cast In Place Concrete Curb	31.37	12.76
		For Mountable Curb, Add	*2.03*	
		For Up To 20, Add	*18.39*	
		For >20 To 50, Add	*10.41*	
		For >50 To 100, Add	*3.99*	
		For >500 To 1,000, Deduct	*-3.99*	
		For >1,000, Deduct	*-6.77*	
32 16 13 13-0041	LF	6" x 16" Cast In Place Concrete Curb - Radius	35.54	19.14
		For Mountable Curb, Add	*2.39*	
		For Up To 20, Add	*21.14*	
		For >20 To 50, Add	*11.97*	
		For >50 To 100, Add	*4.58*	
		For >500 To 1,000, Deduct	*-4.58*	
		For >1,000, Deduct	*-7.76*	
32 16 13 13-0042	LF	6" x 18" Cast In Place Concrete Curb	33.44	12.76
		For Mountable Curb, Add	*2.16*	
		For Up To 20, Add	*19.58*	
		For >20 To 50, Add	*11.08*	
		For >50 To 100, Add	*4.25*	
		For >500 To 1,000, Deduct	*-4.25*	
		For >1,000, Deduct	*-7.21*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0043	LF	6" x 18" Cast In Place Concrete Curb - Radius	37.57	14.67
		For Mountable Curb, Add	*2.48*	
		For Up To 20, Add	*22.18*	
		For >20 To 50, Add	*12.56*	
		For >50 To 100, Add	*4.81*	
		For >500 To 1,000, Deduct	*-4.81*	
		For >1,000, Deduct	*-8.16*	
32 16 13 13-0044	LF	6" x 24" Cast In Place Concrete Curb	38.06	14.04
		For Mountable Curb, Add	*2.30*	
		For Up To 20, Add	*21.79*	
		For >20 To 50, Add	*12.31*	
		For >50 To 100, Add	*4.74*	
		For >500 To 1,000, Deduct	*-4.74*	
		For >1,000, Deduct	*-8.06*	
32 16 13 13-0045	LF	6" x 24" Cast In Place Concrete Curb - Radius	42.36	15.94
		For Mountable Curb, Add	*2.61*	
		For Up To 20, Add	*24.42*	
		For >20 To 50, Add	*13.80*	
		For >50 To 100, Add	*5.31*	
		For >500 To 1,000, Deduct	*-5.31*	
		For >1,000, Deduct	*-9.02*	
32 16 13 13-0046	LF	12" x 24" Cast In Place Concrete Curb	47.99	15.94
		For Mountable Curb, Add	*2.31*	
		For Up To 20, Add	*25.55*	
		For >20 To 50, Add	*14.37*	
		For >50 To 100, Add	*5.59*	
		For >500 To 1,000, Deduct	*-5.59*	
		For >1,000, Deduct	*-9.58*	
32 16 13 13-0047	LF	12" x 24" Cast In Place Concrete Curb - Radius	53.22	17.86
		For Mountable Curb, Add	*2.61*	
		For Up To 20, Add	*28.50*	
		For >20 To 50, Add	*16.04*	
		For >50 To 100, Add	*6.23*	
		For >500 To 1,000, Deduct	*-6.23*	
		For >1,000, Deduct	*-10.68*	
32 16 13 13-0048	EA	Additional Finish For Handicap Drop Section In Curb	95.67	

32 16 13 13-0049 Cast In Place Concrete Curb And Gutter Assemblies *(32 16 13 13)*

Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.

32 16 13 13-0050	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	34.56	15.11
		For Up To 20, Add	*23.38*	
		For >20 To 50, Add	*13.01*	
		For >50 To 100, Add	*5.18*	
		For >500 To 1,000, Deduct	*-4.37*	
		For >1,000, Deduct	*-7.42*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.20*	
32 16 13 13-0051	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	37.49	20.15
		For Up To 20, Add	*25.39*	
		For >20 To 50, Add	*14.14*	
		For >50 To 100, Add	*5.62*	
		For >500 To 1,000, Deduct	*-4.77*	
		For >1,000, Deduct	*-8.09*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.43*	
32 16 13 13-0052	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	43.24	16.75
		For Up To 20, Add	*29.28*	
		For >20 To 50, Add	*16.31*	
		For >50 To 100, Add	*6.49*	
		For >500 To 1,000, Deduct	*-5.50*	
		For >1,000, Deduct	*-9.33*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.79*	
32 16 13 13-0053	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	47.58	18.64
		For Up To 20, Add	*32.26*	
		For >20 To 50, Add	*17.99*	
		For >50 To 100, Add	*7.14*	
		For >500 To 1,000, Deduct	*-6.09*	
		For >1,000, Deduct	*-10.33*	
		For Mountable Or Rolled Curb And Gutter, Add	*3.14*	
32 16 13 13-0054	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	51.91	20.15
		For Up To 20, Add	*35.17*	
		For >20 To 50, Add	*19.60*	
		For >50 To 100, Add	*7.79*	
		For >500 To 1,000, Deduct	*-6.62*	
		For >1,000, Deduct	*-11.23*	
		For Mountable Or Rolled Curb And Gutter, Add	*3.39*	
32 16 13 13-0055	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	57.64	22.67
		For Up To 20, Add	*39.12*	
		For >20 To 50, Add	*21.82*	
		For >50 To 100, Add	*8.65*	
		For >500 To 1,000, Deduct	*-7.41*	
		For >1,000, Deduct	*-12.56*	
		For Mountable Or Rolled Curb And Gutter, Add	*3.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0056	LF	6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	61.23	23.92
		For Up To 20, Add	*41.52*	
		For >20 To 50, Add	*23.15*	
		For >50 To 100, Add	*9.18*	
		For >500 To 1,000, Deduct	*-7.85*	
		For >1,000, Deduct	*-13.30*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.05*	
32 16 13 13-0057	LF	6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	67.11	26.44
		For Up To 20, Add	*45.55*	
		For >20 To 50, Add	*25.42*	
		For >50 To 100, Add	*10.07*	
		For >500 To 1,000, Deduct	*-8.64*	
		For >1,000, Deduct	*-14.64*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.51*	
32 16 13 13-0058	LF	6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	70.54	27.70
		For Up To 20, Add	*47.86*	
		For >20 To 50, Add	*26.70*	
		For >50 To 100, Add	*10.58*	
		For >500 To 1,000, Deduct	*-9.07*	
		For >1,000, Deduct	*-15.36*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.71*	
32 16 13 13-0059	LF	6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	76.57	30.22
		For Up To 20, Add	*51.99*	
		For >20 To 50, Add	*29.02*	
		For >50 To 100, Add	*11.49*	
		For >500 To 1,000, Deduct	*-9.87*	
		For >1,000, Deduct	*-16.72*	
		For Mountable Or Rolled Curb And Gutter, Add	*5.16*	
32 16 13 13-0060	LF	6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	79.85	31.48
		For Up To 20, Add	*54.21*	
		For >20 To 50, Add	*30.25*	
		For >50 To 100, Add	*11.98*	
		For >500 To 1,000, Deduct	*-10.29*	
		For >1,000, Deduct	*-17.43*	
		For Mountable Or Rolled Curb And Gutter, Add	*5.37*	
32 16 13 13-0061	LF	6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	88.54	35.25
		For Up To 20, Add	*60.18*	
		For >20 To 50, Add	*33.61*	
		For >50 To 100, Add	*13.28*	
		For >500 To 1,000, Deduct	*-11.48*	
		For >1,000, Deduct	*-19.43*	
		For Mountable Or Rolled Curb And Gutter, Add	*6.06*	
32 16 13 13-0062	LF	Type "F" Curb And Apron, 6" x 18" Concrete Gutter With 8" Curb And Face - Straight	44.05	16.75
		For Up To 20, Add	*29.77*	
		For >20 To 50, Add	*16.55*	
		For >50 To 100, Add	*6.61*	
		For >500 To 1,000, Deduct	*-5.54*	
		For >1,000, Deduct	*-9.41*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.75*	
32 16 13 13-0063	LF	Type "F" Curb And Apron, 6" x 18" Concrete Gutter With 8" Curb And Face - Radius	48.46	18.64
		For Up To 20, Add	*32.79*	
		For >20 To 50, Add	*18.25*	
		For >50 To 100, Add	*7.27*	
		For >500 To 1,000, Deduct	*-6.14*	
		For >1,000, Deduct	*-10.42*	
		For Mountable Or Rolled Curb And Gutter, Add	*3.09*	

32 16 13 13-0064 Roll Curb And Gutter Combined, Cast In Place *(32 16 13 13)*

Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.

32 16 13 13-0065	LF	8" x 36" Concrete Gutter With 4-1/2" Roll Curb And Face - Straight	77.16	27.70
		For Up To 20, Add	*52.09*	
		For >20 To 50, Add	*28.94*	
		For >50 To 100, Add	*11.57*	
		For >500 To 1,000, Deduct	*-9.65*	
		For >1,000, Deduct	*-16.40*	
32 16 13 13-0066	LF	8" x 36" Concrete Gutter With 4-1/2" Roll Curb And Face - Radius	83.51	30.22
		For Up To 20, Add	*56.40*	
		For >20 To 50, Add	*31.35*	
		For >50 To 100, Add	*12.53*	
		For >500 To 1,000, Deduct	*-10.47*	
		For >1,000, Deduct	*-17.79*	

32 16 13 14 Machine Formed, Slip Form Curbs *(32 16 13)*

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0001 Curbs, Machine Formed, Slip Form *(32 16 13 14)*

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0002	EA	Minimum Set-up Charge For Machine Formed Concrete Curb (One Time Per Job)	1,676.93
		Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.	
32 16 13 14-0003	LF	6" x 12" Straight Concrete Curb, Machine Formed	13.49
32 16 13 14-0004	LF	6" x 12" Curved Concrete Curb, Machine Formed	18.53
32 16 13 14-0005	LF	6" x 18" Straight Concrete Curb, Machine Formed	17.78
32 16 13 14-0006	LF	6" x 18" Curved Concrete Curb, Machine Formed	23.76

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 16		**Steel Faced Curbs** *(32 16 13)*		
		Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0001		Sidewalk/Curb Facing *(32 16 13 16)*		
		Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0002	LF	3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	17.92	5.84
		For Curved Section, Add	*3.97*	
32 16 13 16-0003	LF	4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	19.75	6.64
		For Curved Section, Add	*4.47*	
32 16 13 16-0004	LF	6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	26.51	7.44
		For Curved Section, Add	*5.45*	
32 16 13 16-0005	LF	8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	32.48	8.37
		For Curved Section, Add	*6.36*	
32 16 13 16-0006	LF	10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	39.67	9.16
		For Curved Section, Add	*7.39*	
32 16 13 16-0007	LF	12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	51.84	11.68
		For Curved Section, Add	*9.54*	
32 16 13 16-0008	LF	13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	59.90	15.14
		For Curved Section, Add	*11.65*	
32 16 13 16-0009	EA	Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section	186.13	
32 16 13 19		**Cast-In-Place Concrete Drainage Ditches** *(32 16 13)*		
		Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		
32 16 13 19-0001		Valley Gutter, Cast In Place *(32 16 13 19)*		
		Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0002	LF	2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	24.45	
		For Up To 20, Add	*11.56*	
		For >20 To 50, Add	*6.44*	
		For >50 To 100, Add	*2.56*	
		For >500 To 1,000, Deduct	*-2.56*	
		For >1,000, Deduct	*-4.44*	
32 16 13 19-0003	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	29.95	
		For Up To 20, Add	*14.01*	
		For >20 To 50, Add	*7.81*	
		For >50 To 100, Add	*3.10*	
		For >500 To 1,000, Deduct	*-3.10*	
		For >1,000, Deduct	*-5.40*	
32 16 13 19-0004	LF	3' Wide Cast In Place Concrete Valley Gutter, 6" Thick	35.39	
		For Up To 20, Add	*16.43*	
		For >20 To 50, Add	*9.15*	
		For >50 To 100, Add	*3.64*	
		For >500 To 1,000, Deduct	*-3.64*	
		For >1,000, Deduct	*-6.34*	
32 16 13 19-0005	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	40.79	
		For Up To 20, Add	*18.82*	
		For >20 To 50, Add	*10.48*	
		For >50 To 100, Add	*4.17*	
		For >500 To 1,000, Deduct	*-4.17*	
		For >1,000, Deduct	*-7.28*	
32 16 13 19-0006	LF	4' Wide Cast In Place Concrete Valley Gutter, 6" Thick	46.21	
		For Up To 20, Add	*21.22*	
		For >20 To 50, Add	*11.81*	
		For >50 To 100, Add	*4.71*	
		For >500 To 1,000, Deduct	*-4.71*	
		For >1,000, Deduct	*-8.22*	
32 16 13 19-0007	LF	5' Wide Cast In Place Concrete Valley Gutter, 6" Thick	54.77	
		For Up To 20, Add	*24.43*	
		For >20 To 50, Add	*13.57*	
		For >50 To 100, Add	*5.43*	
		For >500 To 1,000, Deduct	*-5.43*	
		For >1,000, Deduct	*-9.52*	
32 16 13 19-0008	LF	6' Wide Cast In Place Concrete Valley Gutter, 6" Thick	62.98	
		For Up To 20, Add	*27.40*	
		For >20 To 50, Add	*15.18*	
		For >50 To 100, Add	*6.11*	
		For >500 To 1,000, Deduct	*-6.11*	
		For >1,000, Deduct	*-10.74*	
32 16 13 19-0009	SF	>6' Wide Cast In Place Concrete Valley Gutter, 6" Thick	10.49	
		For Up To 100, Add	*4.56*	
		For >100 To 250, Add	*2.53*	
		For >250 To 500, Add	*1.02*	
		For >2,500 To 5,000, Deduct	*-1.02*	
		For >5,000, Deduct	*-1.79*	
32 16 13 19-0010	LF	2' Wide Cast In Place Concrete Valley Gutter, 7" Thick	26.83	
		For Up To 20, Add	*12.38*	
		For >20 To 50, Add	*6.89*	
		For >50 To 100, Add	*2.74*	
		For >500 To 1,000, Deduct	*-2.74*	
		For >1,000, Deduct	*-4.79*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0011	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick	33.12	
		For Up To 20, Add	*15.18*	
		For >20 To 50, Add	*8.45*	
		For >50 To 100, Add	*3.37*	
		For >500 To 1,000, Deduct	*-3.37*	
		For >1,000, Deduct	*-5.88*	
32 16 13 19-0012	LF	3' Wide Cast In Place Concrete Valley Gutter, 7" Thick	38.92	
		For Up To 20, Add	*17.64*	
		For >20 To 50, Add	*9.81*	
		For >50 To 100, Add	*3.92*	
		For >500 To 1,000, Deduct	*-3.92*	
		For >1,000, Deduct	*-6.85*	
32 16 13 19-0013	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick	44.91	
		For Up To 20, Add	*20.24*	
		For >20 To 50, Add	*11.24*	
		For >50 To 100, Add	*4.50*	
		For >500 To 1,000, Deduct	*-4.50*	
		For >1,000, Deduct	*-7.87*	
32 16 13 19-0014	LF	4' Wide Cast In Place Concrete Valley Gutter, 7" Thick	50.89	
		For Up To 20, Add	*22.82*	
		For >20 To 50, Add	*12.68*	
		For >50 To 100, Add	*5.07*	
		For >500 To 1,000, Deduct	*-5.07*	
		For >1,000, Deduct	*-8.88*	
32 16 13 19-0015	LF	5' Wide Cast In Place Concrete Valley Gutter, 7" Thick	60.45	
		For Up To 20, Add	*26.32*	
		For >20 To 50, Add	*14.58*	
		For >50 To 100, Add	*5.87*	
		For >500 To 1,000, Deduct	*-5.87*	
		For >1,000, Deduct	*-10.31*	
32 16 13 19-0016	LF	6' Wide Cast In Place Concrete Valley Gutter, 7" Thick	69.65	
		For Up To 20, Add	*29.56*	
		For >20 To 50, Add	*16.34*	
		For >50 To 100, Add	*6.61*	
		For >500 To 1,000, Deduct	*-6.61*	
		For >1,000, Deduct	*-11.65*	
32 16 13 19-0017	SF	>6' Wide Cast In Place Concrete Valley Gutter, 7" Thick	11.61	
		For Up To 100, Add	*4.93*	
		For >100 To 250, Add	*2.72*	
		For >250 To 500, Add	*1.10*	
		For >2,500 To 5,000, Deduct	*-1.10*	
		For >5,000, Deduct	*-1.94*	
32 16 13 19-0018	LF	2' Wide Cast In Place Concrete Valley Gutter, 8" Thick	27.06	
		For Up To 20, Add	*12.80*	
		For >20 To 50, Add	*7.14*	
		For >50 To 100, Add	*2.83*	
		For >500 To 1,000, Deduct	*-2.83*	
		For >1,000, Deduct	*-4.92*	
32 16 13 19-0019	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick	33.18	
		For Up To 20, Add	*15.54*	
		For >20 To 50, Add	*8.66*	
		For >50 To 100, Add	*3.44*	
		For >500 To 1,000, Deduct	*-3.44*	
		For >1,000, Deduct	*-5.99*	
32 16 13 19-0020	LF	3' Wide Cast In Place Concrete Valley Gutter, 8" Thick	39.19	
		For Up To 20, Add	*18.21*	
		For >20 To 50, Add	*10.14*	
		For >50 To 100, Add	*4.03*	
		For >500 To 1,000, Deduct	*-4.03*	
		For >1,000, Deduct	*-7.03*	
32 16 13 19-0021	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick	45.20	
		For Up To 20, Add	*20.89*	
		For >20 To 50, Add	*11.63*	
		For >50 To 100, Add	*4.63*	
		For >500 To 1,000, Deduct	*-4.63*	
		For >1,000, Deduct	*-8.07*	
32 16 13 19-0022	LF	4' Wide Cast In Place Concrete Valley Gutter, 8" Thick	51.23	
		For Up To 20, Add	*23.57*	
		For >20 To 50, Add	*13.12*	
		For >50 To 100, Add	*5.23*	
		For >500 To 1,000, Deduct	*-5.23*	
		For >1,000, Deduct	*-9.12*	
32 16 13 19-0023	LF	5' Wide Cast In Place Concrete Valley Gutter, 8" Thick	60.69	
32 16 13 19-0024	LF	6' Wide Cast In Place Concrete Valley Gutter, 8" Thick	69.78	
32 16 13 19-0025	SF	>6' Wide Cast In Place Concrete Valley Gutter, 8" Thick	11.63	
		For Up To 100, Add	*5.07*	
		For >100 To 250, Add	*2.81*	
		For >250 To 500, Add	*1.13*	
		For >2,500 To 5,000, Deduct	*-1.13*	
		For >5,000, Deduct	*-1.99*	

32 16 13 23 Precast Concrete Curbs and Gutters *(32 16 13)*

32 16 13 23-0001 Precast Concrete Curb *(32 16 13 23)*

32 16 13 23-0002	LF	6" x 18" Precast Concrete Curb	46.11	11.22

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 23-0003	LF	6" x 18" Precast Concrete Curb, Radius	54.92	12.90
32 16 13 23-0004	LF	6" x 20" Precast Concrete Curb	48.81	11.22
32 16 13 23-0005	LF	6" x 20" Precast Concrete Curb, Radius	58.49	12.90
32 16 13 23-0006	LF	7" x 18" Precast Concrete Curb	50.04	11.22
32 16 13 23-0007	LF	7" x 18" Precast Concrete Curb, Radius	59.92	12.90
32 16 13 23-0008	LF	7" x 20" Precast Concrete Curb	53.11	11.22
32 16 13 23-0009	LF	7" x 20" Precast Concrete Curb, Radius	63.81	12.90

32 16 13 33 Asphalt Curbs *(32 16 13)*

32 16 13 33-0001 Asphalt Curbs *(32 16 13 33)*

32 16 13 33-0002	LF	6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain	13.93	5.97
32 16 13 33-0003	LF	8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain	15.64	6.64
32 16 13 33-0004	LF	8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain	17.23	7.30

32 16 13 43 Stone Curbs *(32 16 13)*

32 16 13 43-0001 Granite Curbs *(32 16 13 43)*

32 16 13 43-0002 Split Face Granite Curbs *(32 16 13 43-0001)*

32 16 13 43-0003	LF	4" To 5" x 12" To 14" Split Face Granite Curb, Straight Section	38.42	10.74
		For Up To 20, Add	*14.86*	
		For >20 To 50, Add	*8.15*	
		For >50 To 100, Add	*3.36*	
		For >500 To 1,000, Deduct	*-3.36*	
		For >1,000, Deduct	*-6.00*	
32 16 13 43-0004	LF	6" To 8" x 12" To 14" Split Face Granite Curb, Straight Section	45.76	11.74
		For Up To 20, Add	*16.96*	
		For >20 To 50, Add	*9.26*	
		For >50 To 100, Add	*3.85*	
		For >500 To 1,000, Deduct	*-3.85*	
		For >1,000, Deduct	*-6.92*	
32 16 13 43-0005	LF	4" To 5" x 16" To 18" Split Face Granite Curb, Straight Section	50.61	12.61
		For Up To 20, Add	*18.52*	
		For >20 To 50, Add	*10.10*	
		For >50 To 100, Add	*4.21*	
		For >500 To 1,000, Deduct	*-4.21*	
		For >1,000, Deduct	*-7.58*	
32 16 13 43-0006	LF	6" To 8" x 16" To 18" Split Face Granite Curb, Straight Section	60.36	13.62
		For Up To 20, Add	*21.09*	
		For >20 To 50, Add	*11.45*	
		For >50 To 100, Add	*4.82*	
		For >500 To 1,000, Deduct	*-4.82*	
		For >1,000, Deduct	*-8.74*	
32 16 13 43-0007	LF	4" To 5" x 12" To 14" Split Face Granite Curb, Curved Section	47.89	11.74
		For Up To 20, Add	*17.35*	
		For >20 To 50, Add	*9.45*	
		For >50 To 100, Add	*3.95*	
		For >500 To 1,000, Deduct	*-3.95*	
		For >1,000, Deduct	*-7.12*	
32 16 13 43-0008	LF	6" To 8" x 12" To 14" Split Face Granite Curb, Curved Section	55.22	12.61
		For Up To 20, Add	*19.44*	
		For >20 To 50, Add	*10.56*	
		For >50 To 100, Add	*4.44*	
		For >500 To 1,000, Deduct	*-4.44*	
		For >1,000, Deduct	*-8.04*	
32 16 13 43-0009	LF	4" To 5" x 16" To 18" Split Face Granite Curb, Curved Section	60.14	13.62
		For Up To 20, Add	*21.04*	
		For >20 To 50, Add	*11.42*	
		For >50 To 100, Add	*4.81*	
		For >500 To 1,000, Deduct	*-4.81*	
		For >1,000, Deduct	*-8.72*	
32 16 13 43-0010	LF	6" To 8" x 16" To 18" Split Face Granite Curb, Curved Section	69.89	14.49
		For Up To 20, Add	*23.62*	
		For >20 To 50, Add	*12.77*	
		For >50 To 100, Add	*5.42*	
		For >500 To 1,000, Deduct	*-5.42*	
		For >1,000, Deduct	*-9.88*	

32 16 13 43-0011 Sawn Face Granite Curbs *(32 16 13 43-0001)*

32 16 13 43-0012	LF	4" To 5" x 12" To 14" Sawn Face Granite Curb, Straight Section	38.42	10.74
		For Up To 20, Add	*14.86*	
		For >20 To 50, Add	*8.15*	
		For >50 To 100, Add	*3.36*	
		For >500 To 1,000, Deduct	*-3.36*	
		For >1,000, Deduct	*-6.00*	
32 16 13 43-0013	LF	6" To 8" x 12" To 14" Sawn Face Granite Curb, Straight Section	45.76	11.74
		For Up To 20, Add	*16.96*	
		For >20 To 50, Add	*9.26*	
		For >50 To 100, Add	*3.85*	
		For >500 To 1,000, Deduct	*-3.85*	
		For >1,000, Deduct	*-6.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 43-0014	LF	4" To 5" x 16" To 18" Sawn Face Granite Curb, Straight Section	50.69	12.61
		For Up To 20, Add	*18.57*	
		For >20 To 50, Add	*10.13*	
		For >50 To 100, Add	*4.22*	
		For >500 To 1,000, Deduct	*-4.22*	
		For >1,000, Deduct	*-7.60*	
32 16 13 43-0015	LF	6" To 8" x 16" To 18" Sawn Face Granite Curb, Straight Section	60.44	13.62
		For Up To 20, Add	*21.14*	
		For >20 To 50, Add	*11.48*	
		For >50 To 100, Add	*4.83*	
		For >500 To 1,000, Deduct	*-4.83*	
		For >1,000, Deduct	*-8.76*	
32 16 13 43-0016	LF	4" To 5" x 12" To 14" Sawn Face Granite Curb, Curved Section	54.69	11.74
		For Up To 20, Add	*18.75*	
		For >20 To 50, Add	*10.16*	
		For >50 To 100, Add	*4.30*	
		For >500 To 1,000, Deduct	*-4.30*	
		For >1,000, Deduct	*-7.81*	
32 16 13 43-0017	LF	6" To 8" x 12" To 14" Sawn Face Granite Curb, Curved Section	65.77	12.61
		For Up To 20, Add	*21.59*	
		For >20 To 50, Add	*11.64*	
		For >50 To 100, Add	*4.98*	
		For >500 To 1,000, Deduct	*-4.98*	
		For >1,000, Deduct	*-9.11*	
32 16 13 43-0018	LF	4" To 5" x 16" To 18" Sawn Face Granite Curb, Curved Section	72.98	13.62
		For Up To 20, Add	*23.65*	
		For >20 To 50, Add	*12.73*	
		For >50 To 100, Add	*5.46*	
		For >500 To 1,000, Deduct	*-5.46*	
		For >1,000, Deduct	*-10.01*	
32 16 13 43-0019	LF	6" To 8" x 16" To 18" Sawn Face Granite Curb, Curved Section	88.05	14.49
		For Up To 20, Add	*27.30*	
		For >20 To 50, Add	*14.62*	
		For >50 To 100, Add	*6.34*	
		For >500 To 1,000, Deduct	*-6.34*	
		For >1,000, Deduct	*-11.71*	

32 16 13 43-0020 Granite Base And Curbs *(32 16 13 43-0001)*

32 16 13 43-0021	LF	4" High Granite Base	42.41	13.59
		For Up To 20, Add	*17.51*	
		For >20 To 50, Add	*9.66*	
		For >50 To 100, Add	*3.93*	
		For >500 To 1,000, Deduct	*-3.93*	
		For >1,000, Deduct	*-6.95*	
32 16 13 43-0022	LF	6" High Granite Base	49.15	17.80
		For Up To 20, Add	*21.68*	
		For >20 To 50, Add	*12.03*	
		For >50 To 100, Add	*4.83*	
		For >500 To 1,000, Deduct	*-4.83*	
		For >1,000, Deduct	*-8.47*	

32 16 13 43-0023 Remove And Reset Stone And Precast Curbing *(32 16 13 43)*

Note: Includes storage and cleaning.

32 16 13 43-0024	LF	Removal And Resetting Of Stone Or Precast Curbing Note: Includes storage and cleaning.	41.23

32 16 23 Sidewalks *(32 16)*

32 16 23 00-0001 Cast In Place Concrete Sidewalk Assemblies *(32 16 23)*

Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, sealer, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0079 for buggies, 03 31 13 00-0086 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.

32 16 23 00-0002	SF	4" Cast In Place Concrete Sidewalk	10.12	
		For Up To 100, Add	*4.39*	
		For >100 To 500, Add	*1.25*	
		For >2,000 To 5,000, Deduct	*-0.56*	
		For >5,000 To 10,000, Deduct	*-1.25*	
		For >10,000 To 20,000, Deduct	*-1.69*	
		For >20,000, Deduct	*-2.13*	
		For 3,500 PSI Concrete, Add	*0.12*	
		For 4,000 PSI Concrete, Add	*0.22*	
		For 4,500 PSI Concrete, Add	*0.25*	
		For Welded Wire Reinforcement, Add	*0.91*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0003	SF	5" Cast In Place Concrete Sidewalk	10.99	
		For Up To 100, Add	*4.68*	
		For >100 To 500, Add	*1.32*	
		For >2,000 To 5,000, Deduct	*-0.58*	
		For >5,000 To 10,000, Deduct	*-1.32*	
		For >10,000 To 20,000, Deduct	*-1.79*	
		For >20,000, Deduct	*-2.26*	
		For 3,500 PSI Concrete, Add	*0.15*	
		For 4,000 PSI Concrete, Add	*0.26*	
		For 4,500 PSI Concrete, Add	*0.31*	
		For Welded Wire Reinforcement, Add	*0.91*	
32 16 23 00-0004	SF	6" Cast In Place Concrete Sidewalk	11.86	
		For Up To 100, Add	*4.96*	
		For >100 To 500, Add	*1.39*	
		For >2,000 To 5,000, Deduct	*-0.60*	
		For >5,000 To 10,000, Deduct	*-1.39*	
		For >10,000 To 20,000, Deduct	*-1.89*	
		For >20,000, Deduct	*-2.38*	
		For 3,500 PSI Concrete, Add	*0.18*	
		For 4,000 PSI Concrete, Add	*0.31*	
		For 4,500 PSI Concrete, Add	*0.36*	
		For Welded Wire Reinforcement, Add	*0.91*	
32 16 23 00-0005	SF	7" Cast In Place Concrete Sidewalk	13.78	
		For Up To 100, Add	*5.71*	
		For >100 To 500, Add	*1.59*	
		For >2,000 To 5,000, Deduct	*-0.68*	
		For >5,000 To 10,000, Deduct	*-1.59*	
		For >10,000 To 20,000, Deduct	*-2.16*	
		For >20,000, Deduct	*-2.73*	
		For 3,500 PSI Concrete, Add	*0.22*	
		For 4,000 PSI Concrete, Add	*0.38*	
		For 4,500 PSI Concrete, Add	*0.44*	
		For Welded Wire Reinforcement, Add	*0.91*	
32 16 23 00-0006	SF	8" Cast In Place Concrete Sidewalk	14.54	
		For Up To 100, Add	*5.94*	
		For >100 To 500, Add	*1.65*	
		For >2,000 To 5,000, Deduct	*-0.69*	
		For >5,000 To 10,000, Deduct	*-1.65*	
		For >10,000 To 20,000, Deduct	*-2.24*	
		For >20,000, Deduct	*-2.84*	
		For 3,500 PSI Concrete, Add	*0.25*	
		For 4,000 PSI Concrete, Add	*0.43*	
		For 4,500 PSI Concrete, Add	*0.50*	
		For Welded Wire Reinforcement, Add	*0.91*	
32 16 23 00-0007	SF	For Exposed Aggregate Finish In Sidewalk	2.88	
32 16 23 00-0008	EA	Finish Concrete Handicap Drop Section In Sidewalk Note: Excludes patterned (tactile) finish.	172.72	
32 16 23 00-0009	LF	For Hand Trowel Finish At Sidewalk Edges (Picture Frame)	2.88	

32 16 23 00-0010 Cast In Place Concrete Sidewalk With Fiber Mesh *(32 16 23)*

Note: Includes finish grading, delivered concrete by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, sealer, screed, broom finish, and curing. Excludes excavation, base, and base compaction. For reinforcing bar, use the modifier "For sidewalk without fiber mesh" and add reinforcing bar. See CSI section 03 31 13 00-0079 for buggies, 03 31 13 00-0086 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 32 11 23 16-0001 for base course.

32 16 23 00-0011	SF	4" Thick, 3,000 PSI, Cast In Place Concrete Sidewalk With Fiber Mesh	10.94	
		For Up To 100, Add	*4.72*	
		For >100 To 500, Add	*1.34*	
		For >2,000 To 5,000, Deduct	*-0.60*	
		For >5,000 To 10,000, Deduct	*-1.34*	
		For >10,000 To 20,000, Deduct	*-1.81*	
		For >20,000, Deduct	*-2.29*	
		For 3,500 PSI Concrete, Add	*0.14*	
		For 4,000 PSI Concrete, Add	*0.24*	
		For 4,500 PSI Concrete, Add	*0.28*	
32 16 23 00-0012	SF	5" Thick, 3,000 PSI, Cast In Place Concrete Sidewalk With Fiber Mesh	12.21	
		For Up To 100, Add	*5.26*	
		For >100 To 500, Add	*1.49*	
		For >2,000 To 5,000, Deduct	*-0.66*	
		For >5,000 To 10,000, Deduct	*-1.49*	
		For >10,000 To 20,000, Deduct	*-2.02*	
		For >20,000, Deduct	*-2.55*	
		For 3,500 PSI Concrete, Add	*0.16*	
		For 4,000 PSI Concrete, Add	*0.27*	
		For 4,500 PSI Concrete, Add	*0.31*	
32 16 23 00-0013	SF	6" Thick, 3,000 PSI, Cast In Place Concrete Sidewalk With Fiber Mesh	13.95	
		For Up To 100, Add	*5.90*	
		For >100 To 500, Add	*1.66*	
		For >2,000 To 5,000, Deduct	*-0.72*	
		For >5,000 To 10,000, Deduct	*-1.66*	
		For >10,000 To 20,000, Deduct	*-2.25*	
		For >20,000, Deduct	*-2.84*	
		For 3,500 PSI Concrete, Add	*0.20*	
		For 4,000 PSI Concrete, Add	*0.34*	
		For 4,500 PSI Concrete, Add	*0.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0014	SF	7" Thick, 3,000 PSI, Cast In Place Concrete Sidewalk With Fiber Mesh	16.14	
		For Up To 100, Add	*6.69*	
		For >100 To 500, Add	*1.87*	
		For >2,000 To 5,000, Deduct	*-0.80*	
		For >5,000 To 10,000, Deduct	*-1.87*	
		For >10,000 To 20,000, Deduct	*-2.54*	
		For >20,000, Deduct	*-3.20*	
		For 3,500 PSI Concrete, Add	*0.25*	
		For 4,000 PSI Concrete, Add	*0.44*	
		For 4,500 PSI Concrete, Add	*0.52*	
32 16 23 00-0015	SF	8" Thick, 3,000 PSI, Cast In Place Concrete Sidewalk With Fiber Mesh	17.50	
		For Up To 100, Add	*7.21*	
		For >100 To 500, Add	*2.01*	
		For >2,000 To 5,000, Deduct	*-0.85*	
		For >5,000 To 10,000, Deduct	*-2.01*	
		For >10,000 To 20,000, Deduct	*-2.73*	
		For >20,000, Deduct	*-3.45*	
		For 3,500 PSI Concrete, Add	*0.28*	
		For 4,000 PSI Concrete, Add	*0.49*	
		For 4,500 PSI Concrete, Add	*0.57*	
32 16 23 00-0016	SF	For Exposed Aggregate Finish In Sidewalk With Fiber Mesh	2.88	
32 16 23 00-0017	LF	For Hand Trowel Finish At Sidewalk Edges (Picture Frame)	2.88	
32 16 23 00-0018	EA	Finish Concrete Handicap Drop Section In Sidewalk Note: Excludes patterned (tactile) finish.	172.72	

32 16 23 00-0019 Bituminous Sidewalk Assemblies *(32 16 23)*

Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 32 11 23 16-0001 for base course.

32 16 23 00-0020	SY	1" Bituminous Sidewalk	9.28	
		For Up To 100, Add	*3.64*	
		For >100 To 500, Add	*0.99*	
		For >1,000 To 5,000, Deduct	*-0.53*	
		For >5,000, Deduct	*-0.99*	
32 16 23 00-0021	SY	1-1/2" Bituminous Sidewalk	11.58	
		For Up To 100, Add	*4.47*	
		For >100 To 500, Add	*1.21*	
		For >1,000 To 5,000, Deduct	*-0.63*	
		For >5,000, Deduct	*-1.21*	
32 16 23 00-0022	SY	2" Bituminous Sidewalk	15.85	
		For Up To 100, Add	*5.92*	
		For >100 To 500, Add	*1.58*	
		For >1,000 To 5,000, Deduct	*-0.78*	
		For >5,000, Deduct	*-1.58*	
32 16 23 00-0023	SY	2-1/2" Bituminous Sidewalk	19.79	
		For Up To 100, Add	*7.37*	
		For >100 To 500, Add	*1.96*	
		For >1,000 To 5,000, Deduct	*-0.97*	
		For >5,000, Deduct	*-1.96*	
32 16 23 00-0024	SY	3" Bituminous Sidewalk	22.62	
		For Up To 100, Add	*8.28*	
		For >100 To 500, Add	*2.18*	
		For >1,000 To 5,000, Deduct	*-1.05*	
		For >5,000, Deduct	*-2.18*	
32 16 23 00-0025	SY	3-1/2" Bituminous Sidewalk	26.00	
		For Up To 100, Add	*9.39*	
		For >100 To 500, Add	*2.46*	
		For >1,000 To 5,000, Deduct	*-1.16*	
		For >5,000, Deduct	*-2.46*	

32 16 43 Asphalt Dike *(32 16)*

32 16 43 00-0001 Asphalt Dike *(32 16 43)*

32 16 43 00-0002	LF	Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	7.01
32 16 43 00-0003	LF	Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height	9.51
32 16 43 00-0004	LF	Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height	9.51
32 16 43 00-0005	LF	Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height	13.47
32 16 43 00-0006	LF	Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height	15.92
32 16 43 00-0007	LF	Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height	3.90
32 16 43 00-0008	LF	Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.81
32 16 43 00-0009	LF	Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	15.17
32 16 43 00-0010	LF	CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	7.01
32 16 43 00-0011	LF	CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height	3.90
32 16 43 00-0012	LF	CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	15.17
32 16 43 00-0013	LF	CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.81
32 16 43 00-0014	LF	CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height	5.67

32 17 Paving Specialties *(32 10)*

32 17 13 Parking Bumpers *(32 17)*

Note: Includes dowels set.

32 17 13 16 Plastic Parking Bumpers *(32 17 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 13 16-0001	EA	4" x 6" x 4' Recycled Plastic Wheel Stop	220.89	7.97
32 17 13 16-0002	EA	4" x 6" x 6' Recycled Plastic Wheel Stop	250.52	7.97

32 17 13 19 Precast Concrete Parking Bumpers *(32 17 13)*

32 17 13 19-0001	EA	6" x 8" x 4' Precast Concrete Wheel Stop With Dowels	77.92	24.01
32 17 13 19-0002	EA	6" x 6" x 6' Precast Concrete Wheel Stop With Dowels	89.00	24.01
32 17 13 19-0003	EA	6" x 8" x 6' Precast Concrete Wheel Stop With Dowels	92.65	24.01
32 17 13 19-0004	EA	6" x 10" x 6' Precast Concrete Wheel Stop With Dowels	97.05	24.01
32 17 13 19-0005	EA	4-7/8" x 7-5/8" x 6' Precast Concrete Wheel Stop With Dowels	90.51	24.01
32 17 13 19-0006	EA	8" x 13" x 6' Precast Concrete Wheel Stop With Dowels	114.77	24.01
32 17 13 19-0007	EA	Removal And Relocation Of Precast Concrete Wheel Stop	38.42	
32 17 13 19-0008	EA	Removal And Relocation Of Plastic Or Wood Wheel Stop	24.98	

32 17 13 23 Rubber Parking Bumpers *(32 17 13)*

32 17 13 23-0001	EA	3' Recycled Rubber Wheel Stop	33.88	7.97
32 17 13 23-0002	EA	4' Recycled Rubber Wheel Stop	39.44	7.97
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop	41.66	7.97
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop	45.00	7.97

32 17 13 26 Wood Parking Bumpers *(32 17 13)*

32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated	10.94	1.92
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated	14.18	1.92

32 17 16 Manufactured Traffic-Calming Devices *(32 17)*

32 17 16 00-0001 Modular Rubber Speed Tables *(32 17 16)*

Note: 3" high flat-topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.

32 17 16 00-0002	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	72.17
32 17 16 00-0003	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	63.04
32 17 16 00-0004	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	59.17
32 17 16 00-0005	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	69.06
32 17 16 00-0006	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	60.74
32 17 16 00-0007	SF	>24' To 30' Road Width x 21' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	57.32
32 17 16 00-0008	SF	>30' To 40' Road Width x 7' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	65.97
32 17 16 00-0009	SF	>30' To 40' Road Width x 14' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	58.92
32 17 16 00-0010	SF	>30' To 40' Road Width x 21' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	55.77

32 17 16 00-0011 Asphalt Speed Table *(32 17 16)*

Note: Excludes pavement markings or reflectors.

32 17 16 00-0012	LF	Up to 36" Run, Asphalt Speed Table With 3" Center Crown Note: Tapered on edges to roadway.	40.31
32 17 16 00-0013	LF	>36" To 48" Run, Asphalt Speed Table With 3" Center Crown Note: Tapered on edges to roadway.	47.46
32 17 16 00-0014	LF	Up to 36" Run, Asphalt Speed Table With 4" Center Crown Note: Tapered on edges to roadway.	50.60
32 17 16 00-0015	LF	>36" To 48" Run, Asphalt Speed Table With 4" Center Crown Note: Tapered on edges to roadway.	59.58
32 17 16 00-0016	LF	Up to 36" Run, Asphalt Speed Table With 6" Center Crown Note: Tapered on edges to roadway.	62.39
32 17 16 00-0017	LF	>36" To 48" Run, Asphalt Speed Table With 6" Center Crown Note: Tapered on edges to roadway.	69.53

32 17 16 00-0018 Concrete Speed Table *(32 17 16)*

32 17 16 00-0019	SF	Concrete Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	15.82

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 16 00-0020		**Speed Bumps** *(32 17 16)* Note: Excludes pavement markings or reflectors.		
32 17 16 00-0021	LF	2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump	34.07	2.11
32 17 16 00-0022	LF	2-1/4" High x 12" Wide, Recycled Rubber Speed Bump	33.37	1.41
32 17 16 00-0023	LF	2-5/8" High x 12" Wide, Recycled Plastic Speed Bump	158.08	1.41
32 17 16 00-0024	EA	18" x 8" x 1-1/2", White, Non-Slip Surface, Low-Profile Speed Bump (Western TD11500) Note: With recessed 3/8" mounting holes, 3/8" stainless steel drop-in anchors, 3/8" Nord-Lock Lock washers, 3/8-16 x 3" Hex Cap Screw. Includes drilling in concrete, placement of hardware, and layout of standard patterns.	99.30	15.80
32 17 16 00-0025	EA	17.875" x 7.875" x 1.5" Precast Concrete Speed Bump	81.96	15.80

32 17 23 Pavement Markings *(32 17)*

See CSI section 01 55 26 00-0000 for temporary markings and removable line mask tape.

32 17 23 13 Painted Pavement Markings *(32 17 23)*

32 17 23 13-0001		**Painted Pavement Striping, Letters, Symbols And Markers for Roads** *(32 17 23 13)* Note: Includes primers, adhesive and reflective glass beads. For broken line quantities use total lane length. Per Coat.	
32 17 23 13-0002		**Painted Epoxy Reflective Pavement Marking** *(32 17 23 13-0001)* Note: 15 mil thickness.	
32 17 23 13-0003	LF	Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping	0.62
		For 20 Mil Thickness, Add	*0.13*
		For Up To 5,000 LF, Add	*0.12*
		For >25,000 LF, Deduct	*-0.09*
		For Broken Line, Deduct	*-0.27*
32 17 23 13-0004	LF	Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping	0.85
		For 20 Mil Thickness, Add	*0.20*
		For Up To 5,000 LF, Add	*0.17*
		For >25,000 LF, Deduct	*-0.13*
		For Broken Line, Deduct	*-0.41*
32 17 23 13-0005	LF	Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping	1.03
		For 20 Mil Thickness, Add	*0.23*
		For Up To 5,000 LF, Add	*0.21*
		For >25,000 LF, Deduct	*-0.15*
		For Broken Line, Deduct	*-0.48*
32 17 23 13-0006	LF	Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping	1.56
		For 20 Mil Thickness, Add	*0.38*
		For Up To 5,000 LF, Add	*0.31*
		For >25,000 LF, Deduct	*-0.23*
		For Broken Line, Deduct	*-0.79*
32 17 23 13-0007	LF	Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping	0.96
		For 20 Mil Thickness, Add	*0.25*
		For Up To 5,000 LF, Add	*0.19*
		For >25,000 LF, Deduct	*-0.14*
		For Broken Line On One Side, Deduct	*-0.26*
		For Double Broken Line, Deduct	*-0.53*
32 17 23 13-0008	LF	Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping	1.37
		For 20 Mil Thickness, Add	*0.37*
		For Up To 5,000 LF, Add	*0.27*
		For >25,000 LF, Deduct	*-0.21*
		For Broken Line On One Side, Deduct	*-0.40*
		For Double Broken Line, Deduct	*-0.80*
32 17 23 13-0009	SF	Solid Area, Epoxy Reflective Pavement Marking Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.	7.70
		For 20 Mil Thickness, Add	*0.95*
32 17 23 13-0010	EA	6" High, Letter/Number, Epoxy Reflective Pavement Marking	4.71
		For 20 Mil Thickness, Add	*0.46*
		For <10, Add	*0.59*
		For >50 To 100, Deduct	*-0.29*
		For >100 To 200, Deduct	*-0.39*
		For >200, Deduct	*-0.78*
32 17 23 13-0011	EA	12" High, Letter/Number, Epoxy Reflective Pavement Marking	8.79
		For 20 Mil Thickness, Add	*1.26*
		For <10, Add	*0.89*
		For >50 To 100, Deduct	*-0.44*
		For >100 To 200, Deduct	*-0.59*
		For >200, Deduct	*-1.18*
32 17 23 13-0012	EA	24" High, Letter/Number, Epoxy Reflective Pavement Marking	14.86
		For 20 Mil Thickness, Add	*2.17*
		For <10, Add	*1.47*
		For >50 To 100, Deduct	*-0.74*
		For >100 To 200, Deduct	*-0.98*
		For >200, Deduct	*-1.96*
32 17 23 13-0013	EA	36" High, Letter/Number, Epoxy Reflective Pavement Marking	28.49
		For 20 Mil Thickness, Add	*3.93*
		For <10, Add	*2.94*
		For >50 To 100, Deduct	*-1.47*
		For >100 To 200, Deduct	*-1.96*
		For >200, Deduct	*-3.93*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0014	EA	48" High, Letter/Number, Epoxy Reflective Pavement Marking	33.53	
		For 20 Mil Thickness, Add	*4.94*	
		For <10, Add	*3.30*	
		For >50 To 100, Deduct	*-1.65*	
		For >100 To 200, Deduct	*-2.20*	
		For >200, Deduct	*-4.40*	
32 17 23 13-0015	EA	72" High, Letter/Number, Epoxy Reflective Pavement Marking	60.20	
		For 20 Mil Thickness, Add	*8.97*	
		For <10, Add	*5.88*	
		For >50 To 100, Deduct	*-2.94*	
		For >100 To 200, Deduct	*-3.92*	
		For >200, Deduct	*-7.83*	
32 17 23 13-0016	EA	96" High, Letter/Number, Epoxy Reflective Pavement Marking	80.28	
		For 20 Mil Thickness, Add	*11.86*	
		For <10, Add	*7.89*	
		For >50 To 100, Deduct	*-3.95*	
		For >100 To 200, Deduct	*-5.26*	
		For >200, Deduct	*-10.52*	
32 17 23 13-0017	EA	120" High, Letter/Number, Epoxy Reflective Pavement Marking	126.96	
		For 20 Mil Thickness, Add	*23.85*	
		For <10, Add	*9.78*	
		For >50 To 100, Deduct	*-4.89*	
		For >100 To 200, Deduct	*-6.52*	
		For >200, Deduct	*-13.04*	
32 17 23 13-0018	SF	Letter/Number, Epoxy Reflective Pavement Marking	7.90	
		For 20 Mil Thickness, Add	*0.96*	
32 17 23 13-0019	SF	Symbols, Epoxy Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc.	9.90	
		For 20 Mil Thickness, Add	*1.06*	
32 17 23 13-0020	EA	Bike Lane Symbol, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	101.89	
		For 20 Mil Thickness, Add	*23.16*	
32 17 23 13-0021	EA	Railroad Crossing Symbol, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	414.13	
		For 20 Mil Thickness, Add	*111.03*	
32 17 23 13-0022	EA	Preferential Lane Symbol (Diamond), Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 3' width x 12' height.	117.01	
		For 20 Mil Thickness, Add	*26.17*	
32 17 23 13-0023	EA	Through Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 3-1/2' width x 10' height.	122.35	
		For 20 Mil Thickness, Add	*25.88*	
32 17 23 13-0024	EA	Turn Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 6' width x 8' height.	148.25	
		For 20 Mil Thickness, Add	*34.51*	
32 17 23 13-0025	EA	Dual Turn Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 11' width x 8' height.	231.59	
		For 20 Mil Thickness, Add	*61.26*	
32 17 23 13-0026	EA	Turn And Through Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 7' width x 13' height.	237.57	
		For 20 Mil Thickness, Add	*63.25*	
32 17 23 13-0027	EA	Dual Turn And Through Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 9' width x 15' height.	327.15	
		For 20 Mil Thickness, Add	*92.57*	
32 17 23 13-0028	EA	Elongated Through Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 5-1/2' width x 12' height.	101.64	
		For 20 Mil Thickness, Add	*16.33*	
32 17 23 13-0029	EA	Elongated Turn Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 3' width x 12' height.	133.68	
		For 20 Mil Thickness, Add	*27.01*	
32 17 23 13-0030	EA	Elongated Dual Turn Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 5-1/2' width x 12' height.	168.42	
		For 20 Mil Thickness, Add	*37.24*	
32 17 23 13-0031	EA	Elongated Turn And Through Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 3-1/2' width x 20' height.	172.41	
		For 20 Mil Thickness, Add	*38.57*	
32 17 23 13-0032	EA	Elongated Dual Turn And Through Lane Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 3-1/2' width x 20' height.	288.77	
		For 20 Mil Thickness, Add	*76.54*	
32 17 23 13-0033	EA	Lane-Reduction Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 5-1/2' width x 18' height.	255.64	
		For 20 Mil Thickness, Add	*67.66*	
32 17 23 13-0034	EA	Wrong-Way Arrow, Epoxy Reflective Pavement Marking Note: Approximate overall dimensions: 6' width x 24' height.	237.78	
		For 20 Mil Thickness, Add	*62.78*	

32 17 23 13-0035 Painted Reflective Pavement Marking *(32 17 23 13-0001)*

Note: 15 mil thickness.

32 17 23 13-0036	LF	Single 4" Wide Solid Line, Painted Reflective Pavement Striping	0.39	
		For Up To 5,000 LF, Add	*0.08*	
		For >25,000 LF, Deduct	*-0.06*	
		For Broken Line, Deduct	*-0.10*	
32 17 23 13-0037	LF	Single 6" Wide Solid Line, Painted Reflective Pavement Striping	0.50	
		For Up To 5,000 LF, Add	*0.10*	
		For >25,000 LF, Deduct	*-0.08*	
		For Broken Line, Deduct	*-0.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0038	LF	Single 8" Wide Solid Line, Painted Reflective Pavement Striping	0.62	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
		For Broken Line, Deduct	*-0.17*	
32 17 23 13-0039	LF	Single 12" Wide Solid Line, Painted Reflective Pavement Striping	0.86	
		For Up To 5,000 LF, Add	*0.17*	
		For >25,000 LF, Deduct	*-0.13*	
		For Broken Line, Deduct	*-0.26*	
32 17 23 13-0040	LF	Double 4" Wide Solid Lines, Painted Reflective Pavement Striping	0.57	
		For Up To 5,000 LF, Add	*0.11*	
		For >25,000 LF, Deduct	*-0.09*	
		For Broken Line On One Side, Deduct	*-0.09*	
		For Double Broken Line, Deduct	*-0.18*	
32 17 23 13-0041	LF	Double 6" Wide Solid Lines, Painted Reflective Pavement Striping	0.87	
		For Up To 5,000 LF, Add	*0.17*	
		For >25,000 LF, Deduct	*-0.13*	
		For Broken Line On One Side, Deduct	*-0.14*	
		For Double Broken Line, Deduct	*-0.27*	
32 17 23 13-0042	SF	Solid Area, Painted Reflective Pavement Striping Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.	6.06	
32 17 23 13-0043	EA	6" High, Letter/Number, Painted Reflective Pavement Marking	4.43	
		For <10, Add	*0.59*	
		For >50 To 100, Deduct	*-0.29*	
		For >100 To 200, Deduct	*-0.39*	
		For >200, Deduct	*-0.78*	
32 17 23 13-0044	EA	12" High, Letter/Number, Painted Reflective Pavement Marking	7.78	
		For <10, Add	*0.89*	
		For >50 To 100, Deduct	*-0.44*	
		For >100 To 200, Deduct	*-0.59*	
		For >200, Deduct	*-1.18*	
32 17 23 13-0045	EA	24" High, Letter/Number, Painted Reflective Pavement Marking	13.10	
		For <10, Add	*1.47*	
		For >50 To 100, Deduct	*-0.74*	
		For >100 To 200, Deduct	*-0.98*	
		For >200, Deduct	*-1.96*	
32 17 23 13-0046	EA	36" High, Letter/Number, Painted Reflective Pavement Marking	25.39	
		For <10, Add	*2.94*	
		For >50 To 100, Deduct	*-1.47*	
		For >100 To 200, Deduct	*-1.96*	
		For >200, Deduct	*-3.93*	
32 17 23 13-0047	EA	48" High, Letter/Number, Painted Reflective Pavement Marking	29.51	
		For <10, Add	*3.30*	
		For >50 To 100, Deduct	*-1.65*	
		For >100 To 200, Deduct	*-2.20*	
		For >200, Deduct	*-4.40*	
32 17 23 13-0048	EA	72" High, Letter/Number, Painted Reflective Pavement Marking	52.85	
		For <10, Add	*5.88*	
		For >50 To 100, Deduct	*-2.94*	
		For >100 To 200, Deduct	*-3.92*	
		For >200, Deduct	*-7.83*	
32 17 23 13-0049	EA	96" High, Letter/Number, Painted Reflective Pavement Marking	70.59	
		For <10, Add	*7.89*	
		For >50 To 100, Deduct	*-3.95*	
		For >100 To 200, Deduct	*-5.26*	
		For >200, Deduct	*-10.52*	
32 17 23 13-0050	EA	120" High, Letter/Number, Painted Reflective Pavement Marking	105.34	
		For <10, Add	*9.78*	
		For >50 To 100, Deduct	*-4.89*	
		For >100 To 200, Deduct	*-6.52*	
		For >200, Deduct	*-13.04*	
32 17 23 13-0051	SF	Letter/Number, Painted Reflective Pavement Marking Note: Includes solvent based and latex paints.	7.21	
32 17 23 13-0052	SF	Symbols, Painted Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.	8.54	
32 17 23 13-0053	EA	Bike Lane Symbol, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	79.58	
32 17 23 13-0054	EA	Railroad Crossing Symbol, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	302.59	
32 17 23 13-0055	EA	Preferential Lane Symbol (Diamond), Painted Reflective Pavement Marking Note: Approximate overall dimensions: 3' width x 12' height.	91.91	
32 17 23 13-0056	EA	Through Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 3-1/2' width x 10' height.	97.95	
32 17 23 13-0057	EA	Turn Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 6' width x 8' height.	114.79	
32 17 23 13-0058	EA	Dual Turn Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 11' width x 8' height.	170.25	
32 17 23 13-0059	EA	Turn And Through Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 7' width x 13' height.	174.13	
32 17 23 13-0060	EA	Dual Turn And Through Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 9' width x 15' height.	233.04	
32 17 23 13-0061	EA	Elongated Through Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 5-1/2' width x 12' height.	87.75	
32 17 23 13-0062	EA	Elongated Turn Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 3' width x 12' height.	108.58	
32 17 23 13-0063	EA	Elongated Dual Turn Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 5-1/2' width x 12' height.	152.21	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0064	EA	Elongated Turn And Through Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 3-1/2' width x 20' height.	157.39	
32 17 23 13-0065	EA	Elongated Dual Turn And Through Lane Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 3-1/2' width x 20' height.	212.09	
32 17 23 13-0066	EA	Lane-Reduction Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 5-1/2' width x 18' height.	190.21	
32 17 23 13-0067	EA	Wrong-Way Arrow, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 6' width x 24' height.	244.70	
32 17 23 13-0068		Painted Thermoplastic Reflective Pavement Marking *(32 17 23 13-0001)* Note: 40 mil thickness.		
32 17 23 13-0069	LF	Single 4" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	0.99	
		For Up To 5,000 LF, Add	*0.20*	
		For >25,000 LF, Deduct	*-0.15*	
		For Broken Line, Deduct	*-0.55*	
		For 30 mils Thick, Deduct	*-0.18*	
		For 45 mils Thick, Add	*0.09*	
		For Enhanced Wet-Night Visibility, Add	*0.06*	
32 17 23 13-0070	LF	Single 6" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	1.37	
		For Up To 5,000 LF, Add	*0.27*	
		For >25,000 LF, Deduct	*-0.21*	
		For Broken Line, Deduct	*-0.80*	
		For 30 mils Thick, Deduct	*-0.27*	
		For 45 mils Thick, Add	*0.13*	
		For Enhanced Wet-Night Visibility, Add	*0.09*	
32 17 23 13-0071	LF	Single 8" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	1.85	
		For Up To 5,000 LF, Add	*0.37*	
		For >25,000 LF, Deduct	*-0.28*	
		For Broken Line, Deduct	*-1.10*	
		For 30 mils Thick, Deduct	*-0.37*	
		For 45 mils Thick, Add	*0.18*	
		For Enhanced Wet-Night Visibility, Add	*0.12*	
32 17 23 13-0072	LF	Single 12" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	2.69	
		For Up To 5,000 LF, Add	*0.54*	
		For >25,000 LF, Deduct	*-0.40*	
		For Broken Line, Deduct	*-1.64*	
		For 30 mils Thick, Deduct	*-0.55*	
		For 45 mils Thick, Add	*0.27*	
		For Enhanced Wet-Night Visibility, Add	*0.18*	
32 17 23 13-0073	LF	Double 4" Wide Solid Lines, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	1.79	
		For Up To 5,000 LF, Add	*0.36*	
		For >25,000 LF, Deduct	*-0.27*	
		For Broken Line On One Side, Deduct	*-0.55*	
		For Double Broken Line, Deduct	*-1.10*	
		For 30 mils Thick, Deduct	*-0.37*	
		For 45 mils Thick, Add	*0.18*	
		For Enhanced Wet-Night Visibility, Add	*0.12*	
32 17 23 13-0074	LF	Double 6" Wide Solid Lines, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	2.69	
		For Up To 5,000 LF, Add	*0.54*	
		For >25,000 LF, Deduct	*-0.40*	
		For Broken Line On One Side, Deduct	*-0.82*	
		For Double Broken Line, Deduct	*-1.64*	
		For 30 mils Thick, Deduct	*-0.55*	
		For 45 mils Thick, Add	*0.27*	
		For Enhanced Wet-Night Visibility, Add	*0.18*	
32 17 23 13-0075	SF	Solid Area, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking Note: Includes yellow or white.	7.89	
		For 30 mils Thick, Deduct	*-0.55*	
		For 45 mils Thick, Add	*0.27*	
		For Enhanced Wet-Night Visibility, Add	*0.18*	
32 17 23 13-0076	EA	6" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	5.16	
		For Up To 10, Add	*0.59*	
		For >50 To 100, Deduct	*-0.29*	
		For >100 To 200, Deduct	*-0.39*	
		For >200, Deduct	*-0.78*	
		For 30 mils Thick, Deduct	*-0.31*	
		For 45 mils Thick, Add	*0.16*	
		For Enhanced Wet-Night Visibility, Add	*0.10*	
32 17 23 13-0077	EA	12" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	10.42	
		For Up To 10, Add	*0.89*	
		For >50 To 100, Deduct	*-0.44*	
		For >100 To 200, Deduct	*-0.59*	
		For >200, Deduct	*-1.18*	
		For 30 mils Thick, Deduct	*-1.13*	
		For 45 mils Thick, Add	*0.56*	
		For Enhanced Wet-Night Visibility, Add	*0.37*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0078	EA	24" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	17.71	
		For Up To 10, Add	*1.47*	
		For >50 To 100, Deduct	*-0.74*	
		For >100 To 200, Deduct	*-0.98*	
		For >200, Deduct	*-1.96*	
		For 30 mils Thick, Deduct	*-1.97*	
		For 45 mils Thick, Add	*0.99*	
		For Enhanced Wet-Night Visibility, Add	*0.65*	
32 17 23 13-0079	EA	36" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	33.50	
		For Up To 10, Add	*2.94*	
		For >50 To 100, Deduct	*-1.47*	
		For >100 To 200, Deduct	*-1.96*	
		For >200, Deduct	*-3.93*	
		For 30 mils Thick, Deduct	*-3.47*	
		For 45 mils Thick, Add	*1.73*	
		For Enhanced Wet-Night Visibility, Add	*1.14*	
32 17 23 13-0080	EA	48" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	40.05	
		For Up To 10, Add	*3.30*	
		For >50 To 100, Deduct	*-1.65*	
		For >100 To 200, Deduct	*-2.20*	
		For >200, Deduct	*-4.40*	
		For 30 mils Thick, Deduct	*-4.51*	
		For 45 mils Thick, Add	*2.25*	
		For Enhanced Wet-Night Visibility, Add	*1.49*	
32 17 23 13-0081	EA	72" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	72.10	
		For Up To 10, Add	*5.88*	
		For >50 To 100, Deduct	*-2.94*	
		For >100 To 200, Deduct	*-3.92*	
		For >200, Deduct	*-7.83*	
		For 30 mils Thick, Deduct	*-8.23*	
		For 45 mils Thick, Add	*4.12*	
		For Enhanced Wet-Night Visibility, Add	*2.72*	
32 17 23 13-0082	EA	96" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	95.93	
		For Up To 10, Add	*7.89*	
		For >50 To 100, Deduct	*-3.95*	
		For >100 To 200, Deduct	*-5.26*	
		For >200, Deduct	*-10.52*	
		For 30 mils Thick, Deduct	*-10.83*	
		For 45 mils Thick, Add	*5.42*	
		For Enhanced Wet-Night Visibility, Add	*3.57*	
32 17 23 13-0083	EA	120" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	161.90	
		For Up To 10, Add	*9.78*	
		For >50 To 100, Deduct	*-4.89*	
		For >100 To 200, Deduct	*-6.52*	
		For >200, Deduct	*-13.04*	
		For 30 mils Thick, Deduct	*-24.18*	
		For 45 mils Thick, Add	*12.09*	
		For Enhanced Wet-Night Visibility, Add	*7.98*	
32 17 23 13-0084	SF	Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	9.03	
		For 30 mils Thick, Deduct	*-0.78*	
		For 45 mils Thick, Add	*0.39*	
		For Enhanced Wet-Night Visibility, Add	*0.26*	
32 17 23 13-0085	SF	Symbols, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc.	11.03	
		For 30 mils Thick, Deduct	*-0.78*	
		For 45 mils Thick, Add	*0.39*	
		For Enhanced Wet-Night Visibility, Add	*0.26*	

32 17 23 13-0086 Painted Thermoplastic Reflective Pavement Marking (CALTRANS) *(32 17 23 13-0001)*

Note: 40 mil thickness.

32 17 23 13-0087	LF	CALTRANS Detail 1 Centerline, Painted Thermoplastic Reflective Pavement Striping	0.41	
		For Up To 5,000 LF, Add	*0.08*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0088	LF	CALTRANS Detail 2 Centerline, Painted Thermoplastic Reflective Pavement Striping	0.60	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
32 17 23 13-0089	LF	CALTRANS Detail 5 Centerline, Painted Thermoplastic Reflective Pavement Striping	0.39	
		For Up To 5,000 LF, Add	*0.08*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0090	LF	CALTRANS Detail 6 Centerline, Painted Thermoplastic Reflective Pavement Striping	0.58	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
32 17 23 13-0091	LF	CALTRANS Detail 8 Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.41	
		For Up To 5,000 LF, Add	*0.08*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0092	LF	CALTRANS Detail 9 Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.60	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
32 17 23 13-0093	LF	CALTRANS Detail 11 Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.39	
		For Up To 5,000 LF, Add	*0.08*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0094	LF	CALTRANS Detail 12 Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.58	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0095	LF	CALTRANS Detail 14A Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.58	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
32 17 23 13-0096	LF	CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.93	
		For Up To 5,000 LF, Add	*0.19*	
		For >25,000 LF, Deduct	*-0.14*	
		For Broken Line On One Side, Deduct	*-0.25*	
		For Double Broken Line, Deduct	*-0.50*	
32 17 23 13-0097	LF	CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	1.68	
		For Up To 5,000 LF, Add	*0.34*	
		For >25,000 LF, Deduct	*-0.25*	
32 17 23 13-0098	LF	CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.91	
		For Up To 5,000 LF, Add	*0.18*	
		For >25,000 LF, Deduct	*-0.14*	
		For Broken Line On One Side, Deduct	*-0.24*	
		For Double Broken Line, Deduct	*-0.49*	
32 17 23 13-0099	LF	CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	1.47	
		For Up To 5,000 LF, Add	*0.29*	
		For >25,000 LF, Deduct	*-0.22*	
32 17 23 13-0100	LF	CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	1.30	
		For Up To 5,000 LF, Add	*0.26*	
		For >25,000 LF, Deduct	*-0.20*	
		For Broken Line On One Side, Deduct	*-0.39*	
		For Double Broken Line, Deduct	*-0.78*	
32 17 23 13-0101	LF	CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	2.05	
		For Up To 5,000 LF, Add	*0.41*	
		For >25,000 LF, Deduct	*-0.31*	
32 17 23 13-0102	LF	CALTRANS Detail 24 Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	0.78	
		For Up To 5,000 LF, Add	*0.16*	
		For >25,000 LF, Deduct	*-0.12*	
32 17 23 13-0103	LF	CALTRANS Detail 25 Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	0.97	
		For Up To 5,000 LF, Add	*0.19*	
		For >25,000 LF, Deduct	*-0.15*	
32 17 23 13-0104	LF	CALTRANS Detail 25A Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	1.16	
		For Up To 5,000 LF, Add	*0.23*	
		For >25,000 LF, Deduct	*-0.17*	
32 17 23 13-0105	LF	CALTRANS Detail 27 Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	1.49	
		For Up To 5,000 LF, Add	*0.30*	
		For >25,000 LF, Deduct	*-0.22*	
32 17 23 13-0106	LF	CALTRANS Detail 27B Right Edgelines, Painted Thermoplastic Reflective Pavement Striping	0.78	
		For Up To 5,000 LF, Add	*0.16*	
		For >25,000 LF, Deduct	*-0.12*	
32 17 23 13-0107	LF	CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Thermoplastic Reflective Pavement Striping	0.36	
		For Up To 5,000 LF, Add	*0.07*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0108	LF	CALTRANS Detail 28 Median Islands, Painted Thermoplastic Reflective Pavement Striping	0.86	
		For Up To 5,000 LF, Add	*0.17*	
		For >25,000 LF, Deduct	*-0.13*	
		For Broken Line On One Side, Deduct	*-0.13*	
		For Double Broken Line, Deduct	*-0.26*	
32 17 23 13-0109	LF	CALTRANS Detail 29 Median Islands, Painted Thermoplastic Reflective Pavement Striping	3.35	
		For Up To 5,000 LF, Add	*0.67*	
		For >25,000 LF, Deduct	*-0.50*	
32 17 23 13-0110	LF	CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Thermoplastic Reflective Pavement Striping	1.81	
		For Up To 5,000 LF, Add	*0.36*	
		For >25,000 LF, Deduct	*-0.27*	
		For Broken Line On One Side, Deduct	*-0.49*	
		For Double Broken Line, Deduct	*-0.98*	
32 17 23 13-0111	LF	CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Thermoplastic Reflective Pavement Striping	2.76	
		For Up To 5,000 LF, Add	*0.55*	
		For >25,000 LF, Deduct	*-0.41*	
32 17 23 13-0112	LF	CALTRANS Detail 34 Intersection Treatments, Painted Thermoplastic Reflective Pavement Striping	1.47	
		For Up To 5,000 LF, Add	*0.29*	
		For >25,000 LF, Deduct	*-0.22*	
32 17 23 13-0113	LF	CALTRANS Detail 35 Intersection Treatments, Painted Thermoplastic Reflective Pavement Striping	1.71	
		For Up To 5,000 LF, Add	*0.34*	
		For >25,000 LF, Deduct	*-0.26*	
32 17 23 13-0114	LF	CALTRANS Detail 35A Intersection Treatments, Painted Thermoplastic Reflective Pavement Striping	0.93	
		For Up To 5,000 LF, Add	*0.19*	
		For >25,000 LF, Deduct	*-0.14*	
32 17 23 13-0115	LF	CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Thermoplastic Reflective Pavement Striping	3.55	
		For Up To 5,000 LF, Add	*0.71*	
		For >25,000 LF, Deduct	*-0.53*	
32 17 23 13-0116	LF	CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Thermoplastic Reflective Pavement Striping	2.03	
		For Up To 5,000 LF, Add	*0.41*	
		For >25,000 LF, Deduct	*-0.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0117	LF	CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Thermoplastic Reflective Pavement Striping	2.54	
		For Up To 5,000 LF, Add	*0.51*	
		For >25,000 LF, Deduct	*-0.38*	
32 17 23 13-0118	LF	CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Thermoplastic Reflective Pavement Striping	1.36	
		For Up To 5,000 LF, Add	*0.27*	
		For >25,000 LF, Deduct	*-0.20*	
32 17 23 13-0119	LF	CALTRANS Detail 37B Lane Drop At Intersections, Painted Thermoplastic Reflective Pavement Striping	1.36	
		For Up To 5,000 LF, Add	*0.27*	
		For >25,000 LF, Deduct	*-0.20*	
32 17 23 13-0120	LF	CALTRANS Detail 38 Channelizing Line, Painted Thermoplastic Reflective Pavement Striping	1.93	
		For Up To 5,000 LF, Add	*0.39*	
		For >25,000 LF, Deduct	*-0.29*	
32 17 23 13-0121	LF	CALTRANS Detail 38A Channelizing Line, Painted Thermoplastic Reflective Pavement Striping	1.55	
		For Up To 5,000 LF, Add	*0.31*	
		For >25,000 LF, Deduct	*-0.23*	
32 17 23 13-0122	LF	CALTRANS Detail 38B Channelizing Line, Painted Thermoplastic Reflective Pavement Striping	2.31	
		For Up To 5,000 LF, Add	*0.46*	
		For >25,000 LF, Deduct	*-0.35*	
32 17 23 13-0123	LF	CALTRANS Detail 39 Bike Lane Line, Painted Thermoplastic Reflective Pavement Striping	1.06	
		For Up To 5,000 LF, Add	*0.21*	
		For >25,000 LF, Deduct	*-0.16*	
32 17 23 13-0124	LF	CALTRANS Detail 39A Intersection Line Bike Lane, Painted Thermoplastic Reflective Pavement Striping	0.56	
		For Up To 5,000 LF, Add	*0.11*	
		For >25,000 LF, Deduct	*-0.08*	
32 17 23 13-0125	LF	CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Thermoplastic Reflective Pavement Striping	0.33	
		For Up To 5,000 LF, Add	*0.07*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0126	LF	CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Thermoplastic Reflective Pavement Striping	0.33	
		For Up To 5,000 LF, Add	*0.07*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0127	EA	CALTRANS 10' Arrow, Type I, Painted Thermoplastic Reflective Pavement Marking	130.31	
		For <10, Add	*14.29*	
		For >50 To 100, Deduct	*-7.15*	
		For >100 To 200, Deduct	*-9.53*	
		For >200, Deduct	*-19.06*	
32 17 23 13-0128	EA	CALTRANS 18' Arrow, Type I, Painted Thermoplastic Reflective Pavement Marking	229.31	
		For <10, Add	*25.02*	
		For >50 To 100, Deduct	*-12.51*	
		For >100 To 200, Deduct	*-16.68*	
		For >200, Deduct	*-33.35*	
32 17 23 13-0129	EA	CALTRANS 24' Arrow, Type I, Painted Thermoplastic Reflective Pavement Marking	287.20	
		For <10, Add	*31.45*	
		For >50 To 100, Deduct	*-15.72*	
		For >100 To 200, Deduct	*-20.97*	
		For >200, Deduct	*-41.93*	
32 17 23 13-0130	EA	CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Thermoplastic Reflective Pavement Marking	417.52	
		For <10, Add	*45.74*	
		For >50 To 100, Deduct	*-22.87*	
		For >100 To 200, Deduct	*-30.50*	
		For >200, Deduct	*-60.99*	
32 17 23 13-0131	EA	CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Thermoplastic Reflective Pavement Marking	498.74	
		For <10, Add	*60.04*	
		For >50 To 100, Deduct	*-30.02*	
		For >100 To 200, Deduct	*-40.03*	
		For >200, Deduct	*-80.05*	
32 17 23 13-0132	EA	CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Thermoplastic Reflective Pavement Marking	386.19	
		For <10, Add	*42.17*	
		For >50 To 100, Deduct	*-21.08*	
		For >100 To 200, Deduct	*-28.11*	
		For >200, Deduct	*-56.23*	
32 17 23 13-0133	EA	CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Thermoplastic Reflective Pavement Marking	673.39	
		For <10, Add	*73.62*	
		For >50 To 100, Deduct	*-36.81*	
		For >100 To 200, Deduct	*-49.08*	
		For >200, Deduct	*-98.16*	
32 17 23 13-0134	EA	CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Thermoplastic Reflective Pavement Marking	137.59	
		For <10, Add	*15.01*	
		For >50 To 100, Deduct	*-7.51*	
		For >100 To 200, Deduct	*-10.01*	
		For >200, Deduct	*-20.01*	
32 17 23 13-0135	EA	CALTRANS 24' Arrow, Type V, Painted Thermoplastic Reflective Pavement Marking	301.74	
		For <10, Add	*32.88*	
		For >50 To 100, Deduct	*-16.44*	
		For >100 To 200, Deduct	*-21.92*	
		For >200, Deduct	*-43.84*	
32 17 23 13-0136	EA	CALTRANS 18' Arrow, Type VI, Painted Thermoplastic Reflective Pavement Marking	386.19	
		For <10, Add	*42.17*	
		For >50 To 100, Deduct	*-21.08*	
		For >100 To 200, Deduct	*-28.11*	
		For >200, Deduct	*-56.23*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0137	EA	CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Thermoplastic Reflective Pavement Marking	250.05	
		For <10, Add	*27.16*	
		For >50 To 100, Deduct	*-13.58*	
		For >100 To 200, Deduct	*-18.11*	
		For >200, Deduct	*-36.21*	
32 17 23 13-0138	EA	CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Thermoplastic Reflective Pavement Marking	328.30	
		For <10, Add	*35.74*	
		For >50 To 100, Deduct	*-17.87*	
		For >100 To 200, Deduct	*-23.83*	
		For >200, Deduct	*-47.65*	
32 17 23 13-0139	EA	CALTRANS 5' Arrow, Bike Lane, Painted Thermoplastic Reflective Pavement Marking	65.16	
		For <10, Add	*7.15*	
		For >50 To 100, Deduct	*-3.57*	
		For >100 To 200, Deduct	*-4.77*	
		For >200, Deduct	*-9.53*	
32 17 23 13-0140	EA	CALTRANS Railroad Crossing Symbol, Painted Thermoplastic Reflective Pavement Marking Note: Excludes variable width transverse lines.	627.77	
		For <10, Add	*67.90*	
		For >50 To 100, Deduct	*-33.95*	
		For >100 To 200, Deduct	*-45.27*	
		For >200, Deduct	*-90.53*	
32 17 23 13-0141	SF	CALTRANS Solid Area, Painted Thermoplastic Reflective Pavement Marking	8.32	
32 17 23 13-0142	EA	CALTRANS Bike Lane Symbol Without Person, Painted Thermoplastic Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	63.99	
		For <10, Add	*5.15*	
		For >50 To 100, Deduct	*-2.57*	
		For >100 To 200, Deduct	*-3.43*	
		For >200, Deduct	*-6.86*	
32 17 23 13-0143	EA	CALTRANS Bike Lane Symbol With Person, Painted Thermoplastic Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	67.30	
		For <10, Add	*5.43*	
		For >50 To 100, Deduct	*-2.72*	
		For >100 To 200, Deduct	*-3.62*	
		For >200, Deduct	*-7.24*	
32 17 23 13-0144	EA	CALTRANS Diamond Symbol, Painted Thermoplastic Reflective Pavement Marking	103.76	
		For <10, Add	*11.44*	
		For >50 To 100, Deduct	*-5.72*	
		For >100 To 200, Deduct	*-7.62*	
		For >200, Deduct	*-15.25*	
32 17 23 13-0145	EA	CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Thermoplastic Reflective Pavement Marking	211.91	
		For <10, Add	*23.16*	
		For >50 To 100, Deduct	*-11.58*	
		For >100 To 200, Deduct	*-15.44*	
		For >200, Deduct	*-30.88*	
32 17 23 13-0146	EA	CALTRANS Bike Loop Detector Symbol, Painted Thermoplastic Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	41.09	
		For <10, Add	*5.43*	
		For >50 To 100, Deduct	*-2.72*	
		For >100 To 200, Deduct	*-3.62*	
		For >200, Deduct	*-7.24*	
32 17 23 13-0147	SF	CALTRANS Letter/Number, Painted Thermoplastic Reflective Pavement Marking	8.41	
32 17 23 13-0148	SF	CALTRANS Symbols, Painted Thermoplastic Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc.	9.17	

32 17 23 13-0149 Pavement Striping, Letters And Symbols For Parking Areas *(32 17 23 13)*

Note: Includes primers. Per Coat.

32 17 23 13-0150 Painted Pavement Marking For Parking Areas *(32 17 23 13-0149)*

Note: 15 mil thickness.

CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0151	LF	Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas	1.32	
32 17 23 13-0152	LF	Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas	1.46	
32 17 23 13-0153	LF	Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas	1.55	
32 17 23 13-0154	LF	Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas	1.77	
32 17 23 13-0155	SF	Solid Area, Painted Pavement Marking For Parking Areas Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.	6.01	
32 17 23 13-0156	EA	6" High, Letter/Number, Painted Pavement Marking For Parking Areas	4.30	
		For Up To 10, Add	*0.57*	
		For >50 To 100, Deduct	*-0.29*	
		For >100 To 200, Deduct	*-0.38*	
		For >200, Deduct	*-0.76*	
32 17 23 13-0157	EA	12" High, Letter/Number, Painted Pavement Marking For Parking Areas	7.50	
		For Up To 10, Add	*0.86*	
		For >50 To 100, Deduct	*-0.43*	
		For >100 To 200, Deduct	*-0.57*	
		For >200, Deduct	*-1.14*	
32 17 23 13-0158	EA	24" High, Letter/Number, Painted Pavement Marking For Parking Areas	12.66	
		For Up To 10, Add	*1.43*	
		For >50 To 100, Deduct	*-0.71*	
		For >100 To 200, Deduct	*-0.95*	
		For >200, Deduct	*-1.91*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0159	EA	36" High, Letter/Number, Painted Pavement Marking For Parking Areas	23.61	
		For Up To 10, Add	*2.72*	
		For >50 To 100, Deduct	*-1.36*	
		For >100 To 200, Deduct	*-1.81*	
		For >200, Deduct	*-3.62*	
32 17 23 13-0160	EA	42" High, Letter/Number, Painted Pavement Marking For Parking Areas	31.11	
		For Up To 10, Add	*3.72*	
		For >50 To 100, Deduct	*-1.86*	
		For >100 To 200, Deduct	*-2.48*	
		For >200, Deduct	*-4.96*	
32 17 23 13-0161	EA	48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	37.66	
		For Up To 10, Add	*4.58*	
		For >50 To 100, Deduct	*-2.29*	
		For >100 To 200, Deduct	*-3.05*	
		For >200, Deduct	*-6.10*	
32 17 23 13-0162	EA	72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	51.20	
		For Up To 10, Add	*5.72*	
		For >50 To 100, Deduct	*-2.86*	
		For >100 To 200, Deduct	*-3.81*	
		For >200, Deduct	*-7.62*	
32 17 23 13-0163	EA	Through Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 3-1/2' width x 10' height.	95.96	
32 17 23 13-0164	EA	Turn Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 6' width x 8' height.	112.06	
32 17 23 13-0165	EA	Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 11' width x 8' height.	165.24	
32 17 23 13-0166	EA	Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 7' width x 13' height.	168.95	
32 17 23 13-0167	EA	Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 9' width x 15' height.	225.36	
32 17 23 13-0168	EA	Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.	37.36	
		For Blue Background With White Symbol, Add	*30.66*	
		For Blue Background With White Symbol And Border, Add	*38.32*	
32 17 23 13-0169	EA	Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.	57.61	
		For Blue Background With White Symbol, Add	*65.81*	
		For Blue Background With White Symbol And Border, Add	*82.27*	

32 17 23 13-0170 Painted Curbs *(32 17 23 13)*

Note: All colors.

32 17 23 13-0171	LF	Reflective Painted Curb	3.82
32 17 23 13-0172	LF	Reflective Painted Curb And Gutter	7.42
32 17 23 13-0173	LF	Painted Curb	3.11
32 17 23 13-0174	LF	Painted Curb And Gutter	6.83

32 17 23 13-0175 Markings For Outdoor Play Areas, Courts *(32 17 23 13)*

32 17 23 13-0176	LF	2" Wide Marking For Outdoor Play Areas	1.13
32 17 23 13-0177	LF	3" Wide Marking For Outdoor Play Areas	1.28
32 17 23 13-0178	LF	4" Wide Marking For Outdoor Play Areas	1.45
32 17 23 13-0179	LF	6" Wide Marking For Outdoor Play Areas	1.72
32 17 23 13-0180	EA	Layout And Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, etc.)	332.38

32 17 23 13-0181 Painted and/or Raised Reflective Pavement Marking (CALTRANS) *(32 17 23 13)*

Note: 20 to 25 mil thickness, per LF of detail for painted.

32 17 23 13-0182	LF	CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping	0.30	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0183	LF	CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping	0.49	
		For Up To 5,000 LF, Add	*0.10*	
		For >25,000 LF, Deduct	*-0.07*	
32 17 23 13-0184	LF	CALTRANS Detail 4 Centerline	1.13	
		For Up To 5,000 LF, Add	*0.23*	
		For >25,000 LF, Deduct	*-0.17*	
32 17 23 13-0185	LF	CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping	0.30	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0186	LF	CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.50	
		For Up To 5,000 LF, Add	*0.10*	
		For >25,000 LF, Deduct	*-0.08*	
32 17 23 13-0187	LF	CALTRANS Detail 7 Centerline	0.82	
		For Up To 5,000 LF, Add	*0.16*	
		For >25,000 LF, Deduct	*-0.12*	
32 17 23 13-0188	LF	CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.30	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0189	LF	CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.49	
		For Up To 5,000 LF, Add	*0.10*	
		For >25,000 LF, Deduct	*-0.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0190	LF	CALTRANS Detail 10 Lanelines	1.13	
		For Up To 5,000 LF, Add	*0.23*	
		For >25,000 LF, Deduct	*-0.17*	
32 17 23 13-0191	LF	CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.30	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0192	LF	CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.48	
		For Up To 5,000 LF, Add	*0.10*	
		For >25,000 LF, Deduct	*-0.07*	
32 17 23 13-0193	LF	CALTRANS Detail 13 Lanelines	0.82	
		For Up To 5,000 LF, Add	*0.16*	
		For >25,000 LF, Deduct	*-0.12*	
32 17 23 13-0194	LF	CALTRANS Detail 14 Lanelines	0.82	
		For Up To 5,000 LF, Add	*0.16*	
		For >25,000 LF, Deduct	*-0.12*	
32 17 23 13-0195	LF	CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping	0.48	
		For Up To 5,000 LF, Add	*0.10*	
		For >25,000 LF, Deduct	*-0.07*	
32 17 23 13-0196	LF	CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.44	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.07*	
		For Broken Line On One Side, Deduct	*-0.07*	
		For Double Broken Line, Deduct	*-0.14*	
32 17 23 13-0197	LF	CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	1.19	
		For Up To 5,000 LF, Add	*0.24*	
		For >25,000 LF, Deduct	*-0.18*	
32 17 23 13-0198	LF	CALTRANS Detail 17 No Passing Zones-One Direction Lanelines	3.28	
		For Up To 5,000 LF, Add	*0.66*	
		For >25,000 LF, Deduct	*-0.49*	
32 17 23 13-0199	LF	CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.44	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.07*	
		For Broken Line On One Side, Deduct	*-0.07*	
		For Double Broken Line, Deduct	*-0.14*	
32 17 23 13-0200	LF	CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	1.00	
		For Up To 5,000 LF, Add	*0.20*	
		For >25,000 LF, Deduct	*-0.15*	
32 17 23 13-0201	LF	CALTRANS Detail 20 No Passing Zones-One Direction Lanelines	2.77	
		For Up To 5,000 LF, Add	*0.55*	
		For >25,000 LF, Deduct	*-0.42*	
32 17 23 13-0202	LF	CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.54	
		For Up To 5,000 LF, Add	*0.11*	
		For >25,000 LF, Deduct	*-0.08*	
		For Broken Line On One Side, Deduct	*-0.11*	
		For Double Broken Line, Deduct	*-0.21*	
32 17 23 13-0203	LF	CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	1.29	
		For Up To 5,000 LF, Add	*0.26*	
		For >25,000 LF, Deduct	*-0.19*	
32 17 23 13-0204	LF	CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines	3.89	
		For Up To 5,000 LF, Add	*0.78*	
		For >25,000 LF, Deduct	*-0.58*	
32 17 23 13-0205	LF	CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping	0.40	
		For Up To 5,000 LF, Add	*0.08*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0206	LF	CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping	0.59	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
32 17 23 13-0207	LF	CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping	0.78	
		For Up To 5,000 LF, Add	*0.16*	
		For >25,000 LF, Deduct	*-0.12*	
32 17 23 13-0208	LF	CALTRANS Detail 26 Left Edgelines	0.19	
		For Up To 5,000 LF, Add	*0.04*	
		For >25,000 LF, Deduct	*-0.03*	
32 17 23 13-0209	LF	CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping	0.73	
		For Up To 5,000 LF, Add	*0.15*	
		For >25,000 LF, Deduct	*-0.11*	
32 17 23 13-0210	LF	CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.40	
		For Up To 5,000 LF, Add	*0.08*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0211	LF	CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping	0.29	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.04*	
32 17 23 13-0212	LF	CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping	1.07	
		For Up To 5,000 LF, Add	*0.21*	
		For >25,000 LF, Deduct	*-0.16*	
		For Broken Line On One Side, Deduct	*-0.21*	
		For Double Broken Line, Deduct	*-0.42*	
32 17 23 13-0213	LF	CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping	1.83	
		For Up To 5,000 LF, Add	*0.37*	
		For >25,000 LF, Deduct	*-0.27*	
32 17 23 13-0214	LF	CALTRANS Detail 30 Median Islands	7.81	
		For Up To 5,000 LF, Add	*1.56*	
		For >25,000 LF, Deduct	*-1.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0215	LF	CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	0.86	
		For Up To 5,000 LF, Add	*0.17*	
		For >25,000 LF, Deduct	*-0.13*	
		For Broken Line On One Side, Deduct	*-0.13*	
		For Double Broken Line, Deduct	*-0.26*	
32 17 23 13-0216	LF	CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	1.81	
		For Up To 5,000 LF, Add	*0.36*	
		For >25,000 LF, Deduct	*-0.27*	
32 17 23 13-0217	LF	CALTRANS Detail 33 Two-Way Left Turn Lanes	5.35	
		For Up To 5,000 LF, Add	*1.07*	
		For >25,000 LF, Deduct	*-0.80*	
32 17 23 13-0218	LF	CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	1.00	
		For Up To 5,000 LF, Add	*0.20*	
		For >25,000 LF, Deduct	*-0.15*	
32 17 23 13-0219	LF	CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping	0.44	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.07*	
32 17 23 13-0220	LF	CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping	1.20	
		For Up To 5,000 LF, Add	*0.24*	
		For >25,000 LF, Deduct	*-0.18*	
32 17 23 13-0221	LF	CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping	0.44	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.07*	
32 17 23 13-0222	LF	CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping	2.03	
		For Up To 5,000 LF, Add	*0.41*	
		For >25,000 LF, Deduct	*-0.30*	
32 17 23 13-0223	LF	CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping	1.27	
		For Up To 5,000 LF, Add	*0.25*	
		For >25,000 LF, Deduct	*-0.19*	
32 17 23 13-0224	LF	CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	1.39	
		For Up To 5,000 LF, Add	*0.28*	
		For >25,000 LF, Deduct	*-0.21*	
32 17 23 13-0225	LF	CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	1.21	
		For Up To 5,000 LF, Add	*0.24*	
		For >25,000 LF, Deduct	*-0.18*	
32 17 23 13-0226	LF	CALTRANS Detail 37A Lane Drop At Exit Ramps	2.62	
		For Up To 5,000 LF, Add	*0.52*	
		For >25,000 LF, Deduct	*-0.39*	
32 17 23 13-0227	LF	CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping	1.21	
		For Up To 5,000 LF, Add	*0.24*	
		For >25,000 LF, Deduct	*-0.18*	
32 17 23 13-0228	LF	CALTRANS Detail 37C Lane Drop At Intersections	2.62	
		For Up To 5,000 LF, Add	*0.52*	
		For >25,000 LF, Deduct	*-0.39*	
32 17 23 13-0229	LF	CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	1.17	
		For Up To 5,000 LF, Add	*0.23*	
		For >25,000 LF, Deduct	*-0.18*	
32 17 23 13-0230	LF	CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping	0.79	
		For Up To 5,000 LF, Add	*0.16*	
		For >25,000 LF, Deduct	*-0.12*	
32 17 23 13-0231	LF	CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping	1.55	
		For Up To 5,000 LF, Add	*0.31*	
		For >25,000 LF, Deduct	*-0.23*	
32 17 23 13-0232	LF	CALTRANS Detail 38C Channelizing Line	3.89	
		For Up To 5,000 LF, Add	*0.78*	
		For >25,000 LF, Deduct	*-0.58*	
32 17 23 13-0233	LF	CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.49	
		For Up To 5,000 LF, Add	*0.10*	
		For >25,000 LF, Deduct	*-0.07*	
32 17 23 13-0234	LF	CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.37	
		For Up To 5,000 LF, Add	*0.07*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0235	LF	CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.28	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.04*	
32 17 23 13-0236	LF	CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.89	
		For Up To 5,000 LF, Add	*0.38*	
		For >25,000 LF, Deduct	*-0.28*	
32 17 23 13-0237	LF	CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.28	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.04*	
32 17 23 13-0238	LF	CALTRANS Detail 41A Center Line Extensions Through Intersections	1.89	
		For Up To 5,000 LF, Add	*0.38*	
		For >25,000 LF, Deduct	*-0.28*	
32 17 23 13-0239	EA	CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	114.32	
		For <10, Add	*14.29*	
		For >50 To 100, Deduct	*-7.15*	
		For >100 To 200, Deduct	*-9.53*	
		For >200, Deduct	*-19.06*	
32 17 23 13-0240	EA	CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	200.75	
		For <10, Add	*25.02*	
		For >50 To 100, Deduct	*-12.51*	
		For >100 To 200, Deduct	*-16.68*	
		For >200, Deduct	*-33.35*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0241	EA	CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	251.80	
		For <10, Add	*31.45*	
		For >50 To 100, Deduct	*-15.72*	
		For >100 To 200, Deduct	*-20.97*	
		For >200, Deduct	*-41.93*	
32 17 23 13-0242	EA	CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	366.13	
		For <10, Add	*45.74*	
		For >50 To 100, Deduct	*-22.87*	
		For >100 To 200, Deduct	*-30.50*	
		For >200, Deduct	*-60.99*	
32 17 23 13-0243	EA	CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	480.46	
		For <10, Add	*60.04*	
		For >50 To 100, Deduct	*-30.02*	
		For >100 To 200, Deduct	*-40.03*	
		For >200, Deduct	*-80.05*	
32 17 23 13-0244	EA	CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking	338.22	
		For <10, Add	*42.17*	
		For >50 To 100, Deduct	*-21.08*	
		For >100 To 200, Deduct	*-28.11*	
		For >200, Deduct	*-56.23*	
32 17 23 13-0245	EA	CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	590.02	
		For <10, Add	*73.62*	
		For >50 To 100, Deduct	*-36.81*	
		For >100 To 200, Deduct	*-49.08*	
		For >200, Deduct	*-98.16*	
32 17 23 13-0246	EA	CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	120.46	
		For <10, Add	*15.01*	
		For >50 To 100, Deduct	*-7.51*	
		For >100 To 200, Deduct	*-10.01*	
		For >200, Deduct	*-20.01*	
32 17 23 13-0247	EA	CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking	264.05	
		For <10, Add	*32.88*	
		For >50 To 100, Deduct	*-16.44*	
		For >100 To 200, Deduct	*-21.92*	
		For >200, Deduct	*-43.84*	
32 17 23 13-0248	EA	CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking	338.22	
		For <10, Add	*42.17*	
		For >50 To 100, Deduct	*-21.08*	
		For >100 To 200, Deduct	*-28.11*	
		For >200, Deduct	*-56.23*	
32 17 23 13-0249	EA	CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking	218.07	
		For <10, Add	*27.16*	
		For >50 To 100, Deduct	*-13.58*	
		For >100 To 200, Deduct	*-18.11*	
		For >200, Deduct	*-36.21*	
32 17 23 13-0250	EA	CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking	287.19	
		For <10, Add	*35.74*	
		For >50 To 100, Deduct	*-17.87*	
		For >100 To 200, Deduct	*-23.83*	
		For >200, Deduct	*-47.65*	
32 17 23 13-0251	EA	CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking	57.17	
		For <10, Add	*7.15*	
		For >50 To 100, Deduct	*-3.57*	
		For >100 To 200, Deduct	*-4.77*	
		For >200, Deduct	*-9.53*	
32 17 23 13-0252	EA	CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking Note: Excludes variable width transverse lines.	547.82	
		For <10, Add	*67.90*	
		For >50 To 100, Deduct	*-33.95*	
		For >100 To 200, Deduct	*-45.27*	
		For >200, Deduct	*-90.53*	
32 17 23 13-0253	SF	CALTRANS Solid Area, Painted Reflective Pavement Marking	7.18	
32 17 23 13-0254	EA	CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	55.99	
		For <10, Add	*5.15*	
		For >50 To 100, Deduct	*-2.57*	
		For >100 To 200, Deduct	*-3.43*	
		For >200, Deduct	*-6.86*	
32 17 23 13-0255	EA	CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	59.31	
		For <10, Add	*5.43*	
		For >50 To 100, Deduct	*-2.72*	
		For >100 To 200, Deduct	*-3.62*	
		For >200, Deduct	*-7.24*	
32 17 23 13-0256	EA	CALTRANS Diamond Symbol, Painted Reflective Pavement Marking	91.19	
		For <10, Add	*11.44*	
		For >50 To 100, Deduct	*-5.72*	
		For >100 To 200, Deduct	*-7.62*	
		For >200, Deduct	*-15.25*	
32 17 23 13-0257	EA	CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking	185.65	
		For <10, Add	*23.16*	
		For >50 To 100, Deduct	*-11.58*	
		For >100 To 200, Deduct	*-15.44*	
		For >200, Deduct	*-30.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0258	EA	CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	38.80	
		For <10, Add	*5.43*	
		For >50 To 100, Deduct	*-2.72*	
		For >100 To 200, Deduct	*-3.62*	
		For >200, Deduct	*-7.24*	
32 17 23 13-0259	SF	CALTRANS Letter/Number, Painted Reflective Pavement Marking	7.27	
32 17 23 13-0260	SF	CALTRANS Symbols, Painted Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc.	8.03	

32 17 23 23 Raised Pavement Markings *(32 17 23)*

32 17 23 23-0001 Raised Pavement Markers (RPMs) *(32 17 23 23)*

Note: White, Red, Yellow/Amber, Green or Blue

32 17 23 23-0002	EA	One-Way Reflective, Raised Pavement Marker (RPM) Note: Type G, H or R	8.56	2.91
		For >100, Deduct	*-0.86*	
32 17 23 23-0003	EA	Two-Way Reflective, Raised Pavement Marker (RPM) Note: Type B, C, D, AC, RA or RR	9.10	2.91
		For >100, Deduct	*-0.91*	
32 17 23 23-0004	EA	4" Diameter, Round Reflective, Raised Pavement Marker (RPM)	11.30	2.91
		For >100, Deduct	*-1.13*	
32 17 23 23-0005	EA	4" Diameter, Non-Reflective, Raised Pavement Marker (RPM) Note: Type A or AY	7.87	2.91
		For >100, Deduct	*-0.79*	

32 17 23 23-0006 Snowplowable Pavement Markers *(32 17 23 23)*

32 17 23 23-0007	EA	One-Way Reflective, Snowplowable Pavement Marker With Center Rail Note: Type G, H or R	84.54	35.77
32 17 23 23-0008	EA	Two-Way Reflective, Snowplowable Pavement Marker With Center Rail Note: Type B, C, D, AC, RA or RR	85.01	35.77
32 17 23 23-0009	EA	Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	24.74	
32 17 23 23-0010	EA	Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker	31.16	

32 17 23 33 Plastic Pavement Markings *(32 17 23)*

32 17 23 33-0001 Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads *(32 17 23 33)*

Note: Includes primers, adhesive and reflective glass beads. For broken line modifier quantity use total lane length.

32 17 23 33-0002 Thermoplastic Reflective Pavement Marking *(32 17 23 33-0001)*

Note: 90 mil thickness.

32 17 23 33-0003	LF	Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.03	
		For Up To 5,000 LF, Add	*0.41*	
		For >25,000 LF, Deduct	*-0.30*	
		For 60 mils Thick, Deduct	*-0.30*	
		For 125 mils Thick, Add	*0.38*	
		For Broken Line, Deduct	*-1.28*	
32 17 23 33-0004	LF	Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	2.98	
		For Up To 5,000 LF, Add	*0.60*	
		For >25,000 LF, Deduct	*-0.45*	
		For 60 mils Thick, Deduct	*-0.45*	
		For 125 mils Thick, Add	*0.58*	
		For Broken Line, Deduct	*-1.92*	
32 17 23 33-0005	LF	Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	3.93	
		For Up To 5,000 LF, Add	*0.79*	
		For >25,000 LF, Deduct	*-0.59*	
		For 60 mils Thick, Deduct	*-0.60*	
		For 125 mils Thick, Add	*0.77*	
		For Broken Line, Deduct	*-2.56*	
32 17 23 33-0006	LF	Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	5.79	
		For Up To 5,000 LF, Add	*1.16*	
		For >25,000 LF, Deduct	*-0.87*	
		For 60 mils Thick, Deduct	*-0.89*	
		For 125 mils Thick, Add	*1.15*	
		For Broken Line, Deduct	*-3.83*	
32 17 23 33-0007	LF	Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	3.92	
		For Up To 5,000 LF, Add	*0.78*	
		For >25,000 LF, Deduct	*-0.59*	
		For 60 mils Thick, Deduct	*-0.60*	
		For 125 mils Thick, Add	*0.77*	
		For Broken Line On One Side, Deduct	*-1.28*	
		For Double Broken Line, Deduct	*-2.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0008	LF	Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	5.79	
		For Up To 5,000 LF, Add	*1.16*	
		For >25,000 LF, Deduct	*-0.87*	
		For 60 mils Thick, Deduct	*-0.89*	
		For 125 mils Thick, Add	*1.15*	
		For Broken Line On One Side, Deduct	*-1.92*	
		For Double Broken Line, Deduct	*-3.83*	
32 17 23 33-0009	SF	Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Includes yellow or white.	10.80	
		For 60 mils Thick, Deduct	*-0.89*	
		For 125 mils Thick, Add	*1.15*	
32 17 23 33-0010	EA	6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	6.70	
		For Up To 10, Add	*0.64*	
		For >50 To 100, Deduct	*-0.32*	
		For >100 To 200, Deduct	*-0.43*	
		For >200, Deduct	*-0.86*	
		For 60 mils Thick, Deduct	*-0.42*	
		For 125 mils Thick, Add	*0.54*	
32 17 23 33-0011	EA	12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	15.18	
		For Up To 10, Add	*0.97*	
		For >50 To 100, Deduct	*-0.49*	
		For >100 To 200, Deduct	*-0.65*	
		For >200, Deduct	*-1.30*	
		For 60 mils Thick, Deduct	*-1.52*	
		For 125 mils Thick, Add	*1.96*	
32 17 23 33-0012	EA	24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	26.00	
		For Up To 10, Add	*1.62*	
		For >50 To 100, Deduct	*-0.81*	
		For >100 To 200, Deduct	*-1.08*	
		For >200, Deduct	*-2.15*	
		For 60 mils Thick, Deduct	*-2.67*	
		For 125 mils Thick, Add	*3.43*	
32 17 23 33-0013	EA	36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	48.40	
		For Up To 10, Add	*3.24*	
		For >50 To 100, Deduct	*-1.62*	
		For >100 To 200, Deduct	*-2.16*	
		For >200, Deduct	*-4.33*	
		For 60 mils Thick, Deduct	*-4.68*	
		For 125 mils Thick, Add	*6.02*	
32 17 23 33-0014	EA	48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	59.00	
		For Up To 10, Add	*3.63*	
		For >50 To 100, Deduct	*-1.82*	
		For >100 To 200, Deduct	*-2.42*	
		For >200, Deduct	*-4.84*	
		For 60 mils Thick, Deduct	*-6.09*	
		For 125 mils Thick, Add	*7.83*	
32 17 23 33-0015	EA	72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	106.66	
		For Up To 10, Add	*6.46*	
		For >50 To 100, Deduct	*-3.23*	
		For >100 To 200, Deduct	*-4.31*	
		For >200, Deduct	*-8.62*	
		For 60 mils Thick, Deduct	*-11.13*	
		For 125 mils Thick, Add	*14.31*	
32 17 23 33-0016	EA	96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	141.51	
		For Up To 10, Add	*8.68*	
		For >50 To 100, Deduct	*-4.34*	
		For >100 To 200, Deduct	*-5.79*	
		For >200, Deduct	*-11.57*	
		For 60 mils Thick, Deduct	*-14.64*	
		For 125 mils Thick, Add	*18.82*	
32 17 23 33-0017	EA	120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	258.39	
		For Up To 10, Add	*10.75*	
		For >50 To 100, Deduct	*-5.38*	
		For >100 To 200, Deduct	*-7.17*	
		For >200, Deduct	*-14.33*	
		For 60 mils Thick, Deduct	*-32.68*	
		For 125 mils Thick, Add	*42.01*	
32 17 23 33-0018	SF	Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	12.50	
		For 60 mils Thick, Deduct	*-1.05*	
		For 125 mils Thick, Add	*1.35*	
32 17 23 33-0019	EA	Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	228.82	
		For 60 mils Thick, Deduct	*-33.37*	
		For 125 mils Thick, Add	*42.91*	
32 17 23 33-0020	SY	Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Per SY of area.	35.27	
		For 60 mils Thick, Deduct	*-2.00*	
		For 125 mils Thick, Add	*2.57*	
32 17 23 33-0021	EA	Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	320.46	
		For 60 mils Thick, Deduct	*-24.24*	
		For 125 mils Thick, Add	*31.17*	
32 17 23 33-0022	EA	Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	955.29	
		For 60 mils Thick, Deduct	*-73.78*	
		For 125 mils Thick, Add	*94.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0023	EA	Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	153.27	
		For 60 mils Thick, Deduct	*-11.60*	
		For 125 mils Thick, Add	*14.91*	
32 17 23 33-0024	SF	Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc.	13.93	
		For 60 mils Thick, Deduct	*-1.05*	
		For 125 mils Thick, Add	*1.35*	
32 17 23 33-0025	EA	10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	195.05	
		For 60 mils Thick, Deduct	*-14.76*	
		For 125 mils Thick, Add	*18.97*	
32 17 23 33-0026	EA	18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	348.32	
		For 60 mils Thick, Deduct	*-26.35*	
		For 125 mils Thick, Add	*33.88*	
32 17 23 33-0027	EA	24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	431.93	
		For 60 mils Thick, Deduct	*-32.68*	
		For 125 mils Thick, Add	*42.01*	
32 17 23 33-0028	EA	24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	626.98	
		For 60 mils Thick, Deduct	*-47.43*	
		For 125 mils Thick, Add	*60.98*	
32 17 23 33-0029	EA	24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	822.05	
		For 60 mils Thick, Deduct	*-62.19*	
		For 125 mils Thick, Add	*79.96*	
32 17 23 33-0030	EA	24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	585.18	
		For 60 mils Thick, Deduct	*-44.27*	
		For 125 mils Thick, Add	*56.92*	
32 17 23 33-0031	EA	24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	1,017.10	
		For 60 mils Thick, Deduct	*-76.95*	
		For 125 mils Thick, Add	*98.93*	
32 17 23 33-0032	EA	8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	209.00	
		For 60 mils Thick, Deduct	*-15.81*	
		For 125 mils Thick, Add	*20.33*	
32 17 23 33-0033	EA	24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	459.79	
		For 60 mils Thick, Deduct	*-34.78*	
		For 125 mils Thick, Add	*44.72*	
32 17 23 33-0034	EA	18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	585.18	
		For 60 mils Thick, Deduct	*-44.27*	
		For 125 mils Thick, Add	*56.92*	
32 17 23 33-0035	EA	13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	376.20	
		For 60 mils Thick, Deduct	*-28.46*	
		For 125 mils Thick, Add	*36.59*	
32 17 23 33-0036	EA	15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	501.59	
		For 60 mils Thick, Deduct	*-37.95*	
		For 125 mils Thick, Add	*48.79*	
32 17 23 33-0037	EA	5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	97.53	
		For 60 mils Thick, Deduct	*-7.38*	
		For 125 mils Thick, Add	*9.49*	

32 17 23 33-0038 Thermoplastic Reflective Pavement Striping By Hand For Repairs *(32 17 23 33-0001)*

32 17 23 33-0039	LF	Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.71	
		For 60 mils Thick, Deduct	*-0.30*	
		For 125 mils Thick, Add	*0.38*	
32 17 23 33-0040	LF	Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	4.86	
		For 60 mils Thick, Deduct	*-0.45*	
		For 125 mils Thick, Add	*0.58*	
32 17 23 33-0041	LF	Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	6.08	
		For 60 mils Thick, Deduct	*-0.60*	
		For 125 mils Thick, Add	*0.77*	
32 17 23 33-0042	LF	Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	8.82	
		For 60 mils Thick, Deduct	*-0.89*	
		For 125 mils Thick, Add	*1.15*	
32 17 23 33-0043	LF	Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	16.25	
		For 60 mils Thick, Deduct	*-1.79*	
		For 125 mils Thick, Add	*2.30*	

32 17 23 33-0044 Preformed, Patterned Thermoplastic Reflective Pavement Marking Tape *(32 17 23 33-0001)*

Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).

32 17 23 33-0045	LF	Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	4.53	
		For Up To 5,000 LF, Add	*0.91*	
		For >25,000 LF, Deduct	*-0.68*	
32 17 23 33-0046	LF	Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	6.76	
		For Up To 5,000 LF, Add	*1.35*	
		For >25,000 LF, Deduct	*-1.01*	
32 17 23 33-0047	LF	Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	8.97	
		For Up To 5,000 LF, Add	*1.79*	
		For >25,000 LF, Deduct	*-1.35*	
32 17 23 33-0048	LF	Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	13.36	
		For Up To 5,000 LF, Add	*2.67*	
		For >25,000 LF, Deduct	*-2.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0049	SF	Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape Note: Includes yellow or white.	34.82	
32 17 23 33-0050	EA	6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	52.08	
		For <10, Add	*1.17*	
		For >50 To 100, Deduct	*-0.59*	
		For >100 To 200, Deduct	*-0.78*	
		For >200, Deduct	*-1.56*	
32 17 23 33-0051	EA	12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	94.17	
		For <10, Add	*1.49*	
		For >50 To 100, Deduct	*-0.74*	
		For >100 To 200, Deduct	*-0.99*	
		For >200, Deduct	*-1.98*	
32 17 23 33-0052	EA	24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	160.30	
		For <10, Add	*2.94*	
		For >50 To 100, Deduct	*-1.47*	
		For >100 To 200, Deduct	*-1.96*	
		For >200, Deduct	*-3.93*	
32 17 23 33-0053	EA	36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	225.20	
		For <10, Add	*5.89*	
		For >50 To 100, Deduct	*-2.94*	
		For >100 To 200, Deduct	*-3.93*	
		For >200, Deduct	*-7.85*	
32 17 23 33-0054	EA	48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	265.10	
		For <10, Add	*6.60*	
		For >50 To 100, Deduct	*-3.30*	
		For >100 To 200, Deduct	*-4.40*	
		For >200, Deduct	*-8.81*	
32 17 23 33-0055	EA	72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	326.83	
		For <10, Add	*11.75*	
		For >50 To 100, Deduct	*-5.88*	
		For >100 To 200, Deduct	*-7.83*	
		For >200, Deduct	*-15.67*	
32 17 23 33-0056	EA	96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	413.69	
		For <10, Add	*15.78*	
		For >50 To 100, Deduct	*-7.89*	
		For >100 To 200, Deduct	*-10.52*	
		For >200, Deduct	*-21.04*	
32 17 23 33-0057	EA	120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	519.39	
		For <10, Add	*19.56*	
		For >50 To 100, Deduct	*-9.78*	
		For >100 To 200, Deduct	*-13.04*	
		For >200, Deduct	*-26.07*	
32 17 23 33-0058	SF	Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	35.59	
32 17 23 33-0059	SF	Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape Note: Handicap, railroad, diamond symbol, etc.	37.02	

32 17 23 33-0060 Preformed, Thermoplastic Reflective Pavement Marking Tape *(32 17 23 33-0001)*

Note: Heat applied. (Flint PreMark or HotTape Series).

32 17 23 33-0061	EA	Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 4' width x 8' height.	517.71
32 17 23 33-0062	EA	Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	1,375.71
32 17 23 33-0063	EA	Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 13' height.	262.51
32 17 23 33-0064	EA	6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 2' width x 6' height.	216.57
32 17 23 33-0065	EA	9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.	440.92
32 17 23 33-0066	EA	4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 4' height.	254.98
32 17 23 33-0067	EA	8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 6' width x 8' height.	493.67
32 17 23 33-0068	EA	Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.	859.45
32 17 23 33-0069	EA	Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.	1,306.40
32 17 23 33-0070	EA	Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 1-2/3' width x 12' height.	450.26
32 17 23 33-0071	EA	Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 12' height.	503.01
32 17 23 33-0072	EA	Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 12' height.	948.83
32 17 23 33-0073	EA	Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/2' width x 20' height.	869.92
32 17 23 33-0074	EA	Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 20' height.	872.79
32 17 23 33-0075	EA	Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 18' height.	1,215.62

32 17 23 33-0076 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas

(32 17 23 33)

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0077		Thermoplastic Pavement Marking Symbols For Parking Areas *(32 17 23 33-0076)*		
		Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0078	EA	28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	171.39	
		Note: White or blue symbol. Excludes striping.		
32 17 23 33-0079	EA	39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	671.75	
		Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
32 17 23 33-0080	EA	40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	374.88	
		Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0081	EA	45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	452.09	
		Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0082	EA	48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	474.10	
		Note: White symbol on blue background. Excludes striping.		

32 17 26 Tactile Warning Surfaces *(32 17)*

32 17 26 00-0001		Vitrified Polymer Composite (VPC); (Armor Tile) *(32 17 26)*		
		Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002	SF	Surface Applied VPC Truncated Dome Detectable Warning Surface	72.31	10.92
		Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.		
32 17 26 00-0003	SF	Embedded, VPC Truncated Dome Detectable Warning Surface	58.11	10.92
		Note: Also raised strips or directional bars. All colors.		
32 17 26 00-0004		Fiber-Reinforced, Polymer Modified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) *(32 17 26)*		
		Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0005	SF	Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT)	86.19	10.92
		Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish. All colors. 2' or 3' width.		
32 17 26 00-0006	SF	>15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT)	76.37	10.92
		Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish. All colors. 2' or 3' width.		

32 30 Site Improvements *(32)*

32 32 Retaining Walls *(32 30)*

32 32 13 Cast-In-Place Concrete Retaining Wall *(32 32)*

Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0001		Concrete Retaining Walls *(32 32 13)*		
		Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0002	LF	4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	413.24	155.25
		For >3:1 Sloped Soil At Top, Add	*8.74*	
32 32 13 00-0003	LF	6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	514.97	191.04
		For >3:1 Sloped Soil At Top, Add	*11.29*	
32 32 13 00-0004	LF	8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	560.53	206.05
		For >3:1 Sloped Soil At Top, Add	*12.62*	
32 32 13 00-0005	LF	10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	712.45	254.78
		For >3:1 Sloped Soil At Top, Add	*17.26*	
32 32 13 00-0006	LF	12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	820.91	292.65
		For >3:1 Sloped Soil At Top, Add	*20.02*	
32 32 13 00-0007	LF	16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,188.78	429.33
		For >3:1 Sloped Soil At Top, Add	*28.07*	
32 32 13 00-0008	LF	20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,632.64	592.71
		For >3:1 Sloped Soil At Top, Add	*38.01*	
32 32 13 00-0009	LF	4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	453.91	169.54
		For >3:1 Sloped Soil At Top, Add	*9.76*	
32 32 13 00-0010	LF	6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	554.94	204.28
		For >3:1 Sloped Soil At Top, Add	*12.45*	
32 32 13 00-0011	LF	8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	586.97	213.15
		For >3:1 Sloped Soil At Top, Add	*13.66*	
32 32 13 00-0012	LF	10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	805.96	285.66
		For >3:1 Sloped Soil At Top, Add	*19.94*	
32 32 13 00-0013	LF	12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,022.86	366.93
		For >3:1 Sloped Soil At Top, Add	*24.56*	
32 32 13 00-0014	LF	16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,534.97	556.20
		For >3:1 Sloped Soil At Top, Add	*35.93*	
32 32 13 00-0015	LF	20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	2,166.35	785.09
		For >3:1 Sloped Soil At Top, Add	*50.67*	

32 32 16 Precast Concrete Retaining Walls *(32 32)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 16 00-0001		**Precast Retaining Walls** *(32 32 16)* Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.		
32 32 16 00-0002	SF	10-15' High, Tied-back, Precast Concrete Retaining Walls	110.54	16.17
32 32 16 00-0003	SF	16-20' High, Tied-back, Precast Concrete Retaining Walls	113.49	12.99
32 32 16 00-0004	SF	21-25' High, Tied-back, Precast Concrete Retaining Walls	117.67	10.83
32 32 16 00-0005	SF	26-30' High, Tied-back, Precast Concrete Retaining Walls	127.23	10.83
32 32 16 00-0006	SF	>30' High, Tied-back, Precast Concrete Retaining Walls	134.59	9.23
32 32 23		**Segmental Retaining Walls** *(32 32)*		
32 32 23 13		**Segmental Concrete Unit Masonry Retaining Walls** *(32 32 23)*		
32 32 23 13-0001		**Modular Retaining Wall Systems** *(32 32 23 13)* Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.		
32 32 23 13-0002		**"Amastone" Type Modular Retaining Wall Systems** *(32 32 23 13-0001)*		
32 32 23 13-0003	SF	Up To 4' Height "Amastone" Type Modular Retaining Wall System	75.58	9.60
		For >3:1 Sloped Soil At Top, Add	*4.79*	
32 32 23 13-0004	SF	4 To 8' Height "Amastone" Type Modular Retaining Wall System	79.74	10.10
		For >3:1 Sloped Soil At Top, Add	*5.06*	
32 32 23 13-0005	SF	8 To 12' Height "Amastone" Type Modular Retaining Wall System	83.11	11.11
		For >3:1 Sloped Soil At Top, Add	*5.18*	
32 32 23 13-0006	SF	12 To 16' Height "Amastone" Type Modular Retaining Wall System	86.68	12.12
		For >3:1 Sloped Soil At Top, Add	*5.31*	
32 32 23 13-0007		**"Diamond" Type Modular Retaining Wall Systems** *(32 32 23 13-0001)*		
32 32 23 13-0008	SF	Up To 4' Height "Diamond" Type Modular Retaining Wall System	78.53	9.60
		For >3:1 Sloped Soil At Top, Add	*5.04*	
32 32 23 13-0009	SF	4 To 8' Height "Diamond" Type Modular Retaining Wall System	82.69	10.10
		For >3:1 Sloped Soil At Top, Add	*5.31*	
32 32 23 13-0010	SF	8 To 12' Height "Diamond" Type Modular Retaining Wall System	86.05	11.11
		For >3:1 Sloped Soil At Top, Add	*5.43*	
32 32 23 13-0011	SF	12 To 16' Height "Diamond" Type Modular Retaining Wall System	89.62	12.12
		For >3:1 Sloped Soil At Top, Add	*5.56*	
32 32 23 13-0012		**"Keystone" Type Modular Retaining Wall Systems** *(32 32 23 13-0001)*		
32 32 23 13-0013	SF	Up To 4' Height "Keystone" Type Modular Retaining Wall System	85.57	9.60
		For >3:1 Sloped Soil At Top, Add	*5.64*	
32 32 23 13-0014	SF	4 To 8' Height "Keystone" Type Modular Retaining Wall System	89.73	10.10
		For >3:1 Sloped Soil At Top, Add	*5.91*	
32 32 23 13-0015	SF	8 To 12' Height "Keystone" Type Modular Retaining Wall System	93.10	11.11
		For >3:1 Sloped Soil At Top, Add	*6.02*	
32 32 23 13-0016	SF	12 To 16' Height "Keystone" Type Modular Retaining Wall System	96.67	12.12
		For >3:1 Sloped Soil At Top, Add	*6.16*	
32 32 23 13-0017		**"Criblock" Type Modular Retaining Wall Systems** *(32 32 23 13-0001)*		
32 32 23 13-0018	SF	Up To 4' Height "Criblock" Type Modular Retaining Wall System	75.58	9.60
		For >3:1 Sloped Soil At Top, Add	*4.79*	
		For Gravel Backfill Instead Of Earth, Add	*0.25*	
32 32 23 13-0019	SF	4 To 8' Height "Criblock" Type Modular Retaining Wall System	79.74	10.10
		For >3:1 Sloped Soil At Top, Add	*5.06*	
		For Gravel Backfill Instead Of Earth, Add	*0.25*	
32 32 23 13-0020	SF	8 To 12' Height "Criblock" Type Modular Retaining Wall System	83.11	11.11
		For >3:1 Sloped Soil At Top, Add	*5.18*	
		For Gravel Backfill Instead Of Earth, Add	*0.25*	
32 32 23 13-0021	SF	12 To 16' Height "Criblock" Type Modular Retaining Wall System	86.68	12.12
		For >3:1 Sloped Soil At Top, Add	*5.31*	
		For Gravel Backfill Instead Of Earth, Add	*0.25*	
32 32 23 13-0022		**"Versa-Lok" Type Modular Retaining Wall Systems** *(32 32 23 13-0001)*		
32 32 23 13-0023	SF	Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System	66.64	9.60
		For >3:1 Sloped Soil At Top, Add	*4.03*	
32 32 23 13-0024	SF	4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System	73.74	10.10
		For >3:1 Sloped Soil At Top, Add	*4.55*	
32 32 23 13-0025	SF	8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System	77.16	11.11
		For >3:1 Sloped Soil At Top, Add	*4.67*	
32 32 23 13-0026	SF	12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System	80.18	12.12
		For >3:1 Sloped Soil At Top, Add	*4.75*	
32 32 23 13-0027		**Retaining Wall Cap Block Restoration** *(32 32 23 13-0001)* Note: Includes removal of existing cap block and installation of new cap block to match.		
32 32 23 13-0028	LF	Removal And Reinstall Retaining Wall Cap Block And Pins	42.20	
		For >3:1 Sloped Soil At Top, Add	*2.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26		**Metal Crib Retaining Walls** *(32 32)*		
32 32 26 00-0001		Bin Type Retaining Wall *(32 32 26)*		
32 32 26 00-0002		Vertical Bin Walls *(32 32 26 00-0001)*		
		Note: Excludes excavation and backfill.		
32 32 26 00-0003	SF	5.5' Vertical Bin Retaining Wall, Wall Heights To 11'	79.96	
32 32 26 00-0004	SF	7.7' Vertical Bin Retaining Wall, Wall Heights, 8.33' To 16.33'	94.74	
32 32 26 00-0005	SF	9.9' Vertical Bin Retaining Wall, Wall Heights, 13.67' To 21.67'	110.38	
32 32 26 00-0006	SF	12.1' Vertical Bin Retain Wall, Wall Heights 17.67' To 25.67'	119.24	
32 32 26 00-0007	SF	14.3' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	133.21	
32 32 26 00-0008	SF	16.5' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	142.07	
32 32 26 00-0009		Battered Bin Walls *(32 32 26 00-0001)*		
		Note: Excludes excavation and backfill.		
32 32 26 00-0010	SF	5.5' Battered Bin Retain Wall, Wall Heights To 11'	71.11	
32 32 26 00-0011	SF	7.7' Battered Bin Retain Wall, Wall Heights 8.33' To 16.33'	77.02	
32 32 26 00-0012	SF	9.9' Battered Bin Retain Wall, Wall Heights 13.67' To 21.67'	86.65	
32 32 26 00-0013	SF	12.1' Battered Bin Retain Wall, Wall Heights 17.67' To 25.67'	96.99	
32 32 26 00-0014	SF	14.3' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	113.54	
32 32 26 00-0015	SF	16.5' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	116.49	
32 32 26 00-0016		Aluminized Steel Bin *(32 32 26)*		
		Note: Excludes excavation and backfill.		
32 32 26 00-0017	SF	4' High, 5.5' Deep Aluminized Steel Bin	48.40	5.48
		For >3:1 Sloped Soil At Top, Add	*3.18*	
		For Galvanized Type, Deduct	*-3.75*	
32 32 26 00-0018	SF	8' High, 5.5' Deep Aluminized Steel Bin	54.19	5.48
		For >3:1 Sloped Soil At Top, Add	*3.67*	
		For Galvanized Type, Deduct	*-4.31*	
32 32 26 00-0019	SF	10' High, 7.7' Deep Aluminized Steel Bin	57.87	5.99
		For >3:1 Sloped Soil At Top, Add	*3.91*	
		For Galvanized Type, Deduct	*-4.60*	
32 32 26 00-0020	SF	12' High, 7.7' Deep Aluminized Steel Bin	65.92	6.76
		For >3:1 Sloped Soil At Top, Add	*4.45*	
		For Galvanized Type, Deduct	*-5.24*	
32 32 26 00-0021	SF	16' High, 7.7' Deep Aluminized Steel Bin	63.48	7.01
		For >3:1 Sloped Soil At Top, Add	*4.21*	
		For Galvanized Type, Deduct	*-4.96*	
32 32 26 00-0022	SF	16' High, 9.9' Deep Aluminized Steel Bin	70.75	7.14
		For >3:1 Sloped Soil At Top, Add	*4.81*	
		For Galvanized Type, Deduct	*-5.66*	
32 32 26 00-0023	SF	20' High, 9.9' Deep Aluminized Steel Bin	78.49	7.52
		For >3:1 Sloped Soil At Top, Add	*5.38*	
		For Galvanized Type, Deduct	*-6.33*	
32 32 26 00-0024	SF	20' High, 12.1' Deep Aluminized Steel Bin	80.37	7.91
		For >3:1 Sloped Soil At Top, Add	*5.50*	
		For Galvanized Type, Deduct	*-6.47*	
32 32 26 00-0025	SF	24' High, 12.1' Deep Aluminized Steel Bin	84.54	7.91
		For >3:1 Sloped Soil At Top, Add	*5.84*	
		For Galvanized Type, Deduct	*-6.87*	
32 32 26 00-0026	SF	24' High, 14.3' Deep Aluminized Steel Bin	88.71	8.03
		For >3:1 Sloped Soil At Top, Add	*6.18*	
		For Galvanized Type, Deduct	*-7.28*	
32 32 26 00-0027	SF	28' High, 14.3' Deep Aluminized Steel Bin	91.67	8.16
		For >3:1 Sloped Soil At Top, Add	*6.41*	
		For Galvanized Type, Deduct	*-7.55*	
32 32 29		**Timber Retaining Walls** *(32 32)*		
32 32 29 00-0001		Wood Post Retaining Walls *(32 32 29)*		
		Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0002	LF	4" x 4", 1' High, Redwood, Wood Post Retaining Walls	94.49	35.03
		For >3:1 Sloped Soil At Top, Add	*2.09*	
32 32 29 00-0003	LF	4" x 4", 2' High, Redwood, Wood Post Retaining Walls	184.96	68.59
		For >3:1 Sloped Soil At Top, Add	*4.07*	
32 32 29 00-0004	LF	4" x 4", 1' High, Cedar, Wood Post Retaining Walls	91.36	35.03
		For >3:1 Sloped Soil At Top, Add	*1.82*	
32 32 29 00-0005	LF	4" x 4", 2' High, Cedar, Wood Post Retaining Walls	178.87	68.59
		For >3:1 Sloped Soil At Top, Add	*3.55*	
32 32 29 00-0006	LF	4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls	84.80	30.60
		For >3:1 Sloped Soil At Top, Add	*2.00*	
32 32 29 00-0007	LF	4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	165.94	59.86
		For >3:1 Sloped Soil At Top, Add	*3.92*	
32 32 29 00-0008	LF	4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls	75.08	27.17
		For >3:1 Sloped Soil At Top, Add	*1.76*	
32 32 29 00-0009	LF	4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls	135.76	49.17
		For >3:1 Sloped Soil At Top, Add	*3.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0010	LF	6" x 6", 2' High, Redwood, Wood Post Retaining Walls	246.25	83.09
		For >3:1 Sloped Soil At Top, Add	*6.81*	
32 32 29 00-0011	LF	6" x 6", 4' High, Redwood, Wood Post Retaining Walls	485.78	162.87
		For >3:1 Sloped Soil At Top, Add	*13.62*	
32 32 29 00-0012	LF	6" x 6", 2' High, Cedar, Wood Post Retaining Walls	242.77	83.09
		For >3:1 Sloped Soil At Top, Add	*6.51*	
32 32 29 00-0013	LF	6" x 6", 4' High, Cedar, Wood Post Retaining Walls	477.08	162.87
		For >3:1 Sloped Soil At Top, Add	*12.88*	
32 32 29 00-0014	LF	6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	209.88	67.49
		For >3:1 Sloped Soil At Top, Add	*6.36*	
32 32 29 00-0015	LF	6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	416.31	133.25
		For >3:1 Sloped Soil At Top, Add	*12.73*	
32 32 29 00-0016	LF	6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls	168.09	53.96
		For >3:1 Sloped Soil At Top, Add	*5.11*	
32 32 29 00-0017	LF	6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls	330.42	105.59
		For >3:1 Sloped Soil At Top, Add	*10.14*	
32 32 29 00-0018	LF	8" x 8", 4' High, Redwood, Wood Post Retaining Walls	598.76	180.07
		For >3:1 Sloped Soil At Top, Add	*20.28*	
32 32 29 00-0019	LF	8" x 8", 6' High, Redwood, Wood Post Retaining Walls	1,119.74	336.18
		For >3:1 Sloped Soil At Top, Add	*38.03*	
32 32 29 00-0020	LF	8" x 8", 4' High, Cedar, Wood Post Retaining Walls	581.34	180.07
		For >3:1 Sloped Soil At Top, Add	*18.80*	
32 32 29 00-0021	LF	8" x 8", 6' High, Cedar, Wood Post Retaining Walls	1,086.66	336.18
		For >3:1 Sloped Soil At Top, Add	*35.22*	
32 32 29 00-0022	LF	8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	593.09	207.73
		For >3:1 Sloped Soil At Top, Add	*15.10*	
32 32 29 00-0023	LF	8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls	1,106.70	387.93
		For >3:1 Sloped Soil At Top, Add	*28.12*	
32 32 29 00-0024	LF	8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls	479.43	167.90
		For >3:1 Sloped Soil At Top, Add	*12.21*	
32 32 29 00-0025	LF	8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls	889.22	311.47
		For >3:1 Sloped Soil At Top, Add	*22.64*	
32 32 29 00-0026	LF	4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	182.03	69.20
		For >3:1 Sloped Soil At Top, Add	*3.70*	
32 32 29 00-0027	LF	6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	272.17	103.86
		For >3:1 Sloped Soil At Top, Add	*5.48*	
32 32 29 00-0028	LF	8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	362.21	138.40
		For >3:1 Sloped Soil At Top, Add	*7.25*	
32 32 29 00-0029	LF	4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	120.91	39.09
		For >3:1 Sloped Soil At Top, Add	*3.63*	
32 32 29 00-0030	LF	6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	175.55	56.42
		For >3:1 Sloped Soil At Top, Add	*5.33*	
32 32 29 00-0031	LF	8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	237.65	76.21
		For >3:1 Sloped Soil At Top, Add	*7.25*	

32 32 29 00-0032 Wood Tie Retaining Walls, Rod Connector At 4' *(32 32 29)*

Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0033 Redwood *(32 32 29 00-0032)*

32 32 29 00-0034	LF	2' High, 6" x 6" Wood Tie Wall	126.96	42.53
		For >3:1 Sloped Soil At Top, Add	*3.55*	
32 32 29 00-0035	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	289.64	96.98
		For >3:1 Sloped Soil At Top, Add	*8.14*	
32 32 29 00-0036	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	433.66	145.42
		For >3:1 Sloped Soil At Top, Add	*12.14*	
32 32 29 00-0037	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	414.65	124.63
		For >3:1 Sloped Soil At Top, Add	*14.06*	
32 32 29 00-0038	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	622.99	186.96
		For >3:1 Sloped Soil At Top, Add	*21.16*	
32 32 29 00-0039	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	822.42	245.83
		For >3:1 Sloped Soil At Top, Add	*28.12*	

32 32 29 00-0040 Cedar *(32 32 29 00-0032)*

32 32 29 00-0041	LF	2' High, 6" x 6" Wood Tie Wall	125.22	42.53
		For >3:1 Sloped Soil At Top, Add	*3.40*	
32 32 29 00-0042	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	284.42	96.98
		For >3:1 Sloped Soil At Top, Add	*7.70*	
32 32 29 00-0043	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	426.70	145.42
		For >3:1 Sloped Soil At Top, Add	*11.54*	
32 32 29 00-0044	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	402.46	124.63
		For >3:1 Sloped Soil At Top, Add	*13.02*	
32 32 29 00-0045	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	605.58	186.96
		For >3:1 Sloped Soil At Top, Add	*19.68*	
32 32 29 00-0046	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	798.04	245.83
		For >3:1 Sloped Soil At Top, Add	*26.05*	

32 32 29 00-0047 Creosoted Wood *(32 32 29 00-0032)*

32 32 29 00-0048	LF	2' High, 6" x 8" Wood Tie Wall	142.56	56.42
		For >3:1 Sloped Soil At Top, Add	*2.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0049	LF	4' High, 6" x 8" Wood Tie Wall Deadman At 6'	326.73	129.80
		For >3:1 Sloped Soil At Top, Add	*5.70*	
32 32 29 00-0050	LF	6' High, 6" x 8" Wood Tie Wall Deadman At 6'	484.39	192.12
		For >3:1 Sloped Soil At Top, Add	*8.51*	
32 32 29 00-0051	LF	4' High, 7" x 9" Wood Tie Wall Deadman At 6'	656.81	261.32
		For >3:1 Sloped Soil At Top, Add	*11.40*	
32 32 29 00-0052	LF	6' High, 7" x 9" Wood Tie Wall Deadman At 6'	956.34	380.67
		For >3:1 Sloped Soil At Top, Add	*16.58*	
32 32 29 00-0053	LF	8' High, 7" x 9" Wood Tie Wall Deadman At 6'	1,268.88	504.70
		For >3:1 Sloped Soil At Top, Add	*22.05*	

32 32 29 00-0054 Pressure Treated Wood *(32 32 29 00-0032)*

32 32 29 00-0055	LF	2' High, 6" x 6" Wood Tie Wall	109.55	35.16
		For >3:1 Sloped Soil At Top, Add	*3.34*	
32 32 29 00-0056	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	248.93	79.65
		For >3:1 Sloped Soil At Top, Add	*7.62*	
32 32 29 00-0057	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	372.95	119.47
		For >3:1 Sloped Soil At Top, Add	*11.40*	
32 32 29 00-0058	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	410.01	143.69
		For >3:1 Sloped Soil At Top, Add	*10.43*	
32 32 29 00-0059	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	615.66	214.73
		For >3:1 Sloped Soil At Top, Add	*15.84*	
32 32 29 00-0060	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	816.49	285.54
		For >3:1 Sloped Soil At Top, Add	*20.87*	

32 32 29 00-0061 Post And Board Retaining Walls *(32 32 29)*

Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0062	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls	73.15	20.77
		For >3:1 Sloped Soil At Top, Add	*2.69*	
32 32 29 00-0063	LF	4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls	113.64	35.52
		For >3:1 Sloped Soil At Top, Add	*3.63*	
32 32 29 00-0064	LF	6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls	148.37	44.12
		For >3:1 Sloped Soil At Top, Add	*5.11*	
32 32 29 00-0065	LF	6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls	207.71	62.57
		For >3:1 Sloped Soil At Top, Add	*7.03*	
32 32 29 00-0066	LF	6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	271.54	81.37
		For >3:1 Sloped Soil At Top, Add	*9.25*	
32 32 29 00-0067	LF	8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	555.34	161.02
		For >3:1 Sloped Soil At Top, Add	*19.83*	
32 32 29 00-0068	LF	8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls	626.50	178.35
		For >3:1 Sloped Soil At Top, Add	*22.94*	
32 32 29 00-0069	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls	74.45	21.64
		For >3:1 Sloped Soil At Top, Add	*2.65*	
32 32 29 00-0070	LF	4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	130.85	38.48
		For >3:1 Sloped Soil At Top, Add	*4.59*	
32 32 29 00-0071	LF	6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	128.58	37.74
		For >3:1 Sloped Soil At Top, Add	*4.51*	
32 32 29 00-0072	LF	6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls	180.65	54.20
		For >3:1 Sloped Soil At Top, Add	*6.14*	
32 32 29 00-0073	LF	6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls	281.95	86.53
		For >3:1 Sloped Soil At Top, Add	*9.25*	
32 32 29 00-0074	LF	6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar	222.62	66.50
		For >3:1 Sloped Soil At Top, Add	*7.62*	
32 32 29 00-0075	LF	8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar	574.34	166.19
		For >3:1 Sloped Soil At Top, Add	*20.57*	
32 32 29 00-0076	LF	4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated	97.84	39.95
		For >3:1 Sloped Soil At Top, Add	*1.52*	
32 32 29 00-0077	LF	4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated	141.19	56.78
		For >3:1 Sloped Soil At Top, Add	*2.35*	
32 32 29 00-0078	LF	4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat	203.67	77.93
		For >3:1 Sloped Soil At Top, Add	*4.07*	
32 32 29 00-0079	LF	6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated	356.25	131.52
		For >3:1 Sloped Soil At Top, Add	*7.92*	
32 32 29 00-0080	LF	6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated	360.60	131.52
		For >3:1 Sloped Soil At Top, Add	*8.29*	
32 32 29 00-0081	LF	6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat	339.83	126.36
		For >3:1 Sloped Soil At Top, Add	*7.40*	
32 32 29 00-0082	LF	8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated	797.20	290.70
		For >3:1 Sloped Soil At Top, Add	*18.35*	
32 32 29 00-0083	LF	4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking	97.84	39.95
		For >3:1 Sloped Soil At Top, Add	*1.52*	
32 32 29 00-0084	LF	4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking	141.19	56.78
		For >3:1 Sloped Soil At Top, Add	*2.35*	
32 32 29 00-0085	LF	4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking	203.67	77.93
		For >3:1 Sloped Soil At Top, Add	*4.07*	
32 32 29 00-0086	LF	6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking	255.69	96.98
		For >3:1 Sloped Soil At Top, Add	*5.25*	
32 32 29 00-0087	LF	6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls	356.25	131.52
		For >3:1 Sloped Soil At Top, Add	*7.92*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0088		LF	6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls	339.83	126.36
			For >3:1 Sloped Soil At Top, Add	*7.40*	
32 32 29 00-0089		LF	8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls	797.20	290.70
			For >3:1 Sloped Soil At Top, Add	*18.35*	

32 32 53 Stone Retaining Walls *(32 32)*

32 32 53 00-0001 Stone Retaining Walls *(32 32 53)*

Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.

32 32 53 00-0002 Stone Retaining Walls *(32 32 53 00-0001)*

Note: Stone at $16.00/ton.

32 32 53 00-0003		LF	$16.00/ton 3' High Stone Retaining Wall, Dry Set	508.61	227.40
			For >3:1 Sloped Soil At Top, Add	*4.57*	
32 32 53 00-0004		LF	$16.00/ton 4' High Stone Retaining Wall, Dry Set	599.85	270.53
			For >3:1 Sloped Soil At Top, Add	*4.99*	
32 32 53 00-0005		LF	$16.00/ton 6' High Stone Retaining Wall, Dry Set	787.55	359.43
			For >3:1 Sloped Soil At Top, Add	*5.84*	
32 32 53 00-0006		LF	$16.00/ton 8' High Stone Retaining Wall, Dry Set	1,212.74	561.98
			For >3:1 Sloped Soil At Top, Add	*7.54*	
32 32 53 00-0007		LF	$16.00/ton 10' High Stone Retaining Wall, Dry Set	1,575.28	735.13
			For >3:1 Sloped Soil At Top, Add	*8.92*	
32 32 53 00-0008		LF	$16.00/ton 12' High Stone Retaining Wall, Dry Set	1,954.67	915.46
			For >3:1 Sloped Soil At Top, Add	*10.51*	
32 32 53 00-0009		LF	$16.00/ton 3' High Stone Retaining Wall, Mortar Set	456.39	201.33
			For >3:1 Sloped Soil At Top, Add	*4.57*	
32 32 53 00-0010		LF	$16.00/ton 4' High Stone Retaining Wall, Mortar Set	535.20	238.21
			For >3:1 Sloped Soil At Top, Add	*4.99*	
32 32 53 00-0011		LF	$16.00/ton 6' High Stone Retaining Wall, Mortar Set	692.11	311.65
			For >3:1 Sloped Soil At Top, Add	*5.84*	
32 32 53 00-0012		LF	$16.00/ton 8' High Stone Retaining Wall, Mortar Set	1,059.13	485.20
			For >3:1 Sloped Soil At Top, Add	*7.54*	
32 32 53 00-0013		LF	$16.00/ton 10' High Stone Retaining Wall, Mortar Set	1,359.80	627.44
			For >3:1 Sloped Soil At Top, Add	*8.92*	
32 32 53 00-0014		LF	$16.00/ton 12' High Stone Retaining Wall, Mortar Set	1,688.88	782.61
			For >3:1 Sloped Soil At Top, Add	*10.51*	

32 32 53 00-0015 Stone Retaining Walls *(32 32 53 00-0001)*

Note: Stone at $32.00/ton.

32 32 53 00-0016		LF	$32.00/ton 3' High Stone Retaining Wall, Dry Set	524.85	227.40
			For >3:1 Sloped Soil At Top, Add	*5.95*	
32 32 53 00-0017		LF	$32.00/ton 4' High Stone Retaining Wall, Dry Set	622.34	270.53
			For >3:1 Sloped Soil At Top, Add	*6.90*	
32 32 53 00-0018		LF	$32.00/ton 6' High Stone Retaining Wall, Dry Set	820.04	359.43
			For >3:1 Sloped Soil At Top, Add	*8.60*	
32 32 53 00-0019		LF	$32.00/ton 8' High Stone Retaining Wall, Dry Set	1,260.22	561.98
			For >3:1 Sloped Soil At Top, Add	*11.58*	
32 32 53 00-0020		LF	$32.00/ton 10' High Stone Retaining Wall, Dry Set	1,640.25	735.13
			For >3:1 Sloped Soil At Top, Add	*14.44*	
32 32 53 00-0021		LF	$32.00/ton 12' High Stone Retaining Wall, Dry Set	2,037.14	915.46
			For >3:1 Sloped Soil At Top, Add	*17.52*	
32 32 53 00-0022		LF	$32.00/ton 3' High Stone Retaining Wall, Mortar Set	472.63	201.33
			For >3:1 Sloped Soil At Top, Add	*5.95*	
32 32 53 00-0023		LF	$32.00/ton 4' High Stone Retaining Wall, Mortar Set	557.69	238.21
			For >3:1 Sloped Soil At Top, Add	*6.90*	
32 32 53 00-0024		LF	$32.00/ton 6' High Stone Retaining Wall, Mortar Set	724.60	311.65
			For >3:1 Sloped Soil At Top, Add	*8.60*	
32 32 53 00-0025		LF	$32.00/ton 8' High Stone Retaining Wall, Mortar Set	1,106.61	485.20
			For >3:1 Sloped Soil At Top, Add	*11.58*	
32 32 53 00-0026		LF	$32.00/ton 10' High Stone Retaining Wall, Mortar Set	1,424.77	627.44
			For >3:1 Sloped Soil At Top, Add	*14.44*	
32 32 53 00-0027		LF	$32.00/ton 12' High Stone Retaining Wall, Mortar Set	1,771.35	782.61
			For >3:1 Sloped Soil At Top, Add	*17.52*	

32 32 53 00-0028 Stone Retaining Walls *(32 32 53 00-0001)*

Note: Stone at $48.00/ton.

32 32 53 00-0029		LF	$48.00/ton 3' High Stone Retaining Wall, Dry Set	542.34	227.40
			For >3:1 Sloped Soil At Top, Add	*7.43*	
32 32 53 00-0030		LF	$48.00/ton 4' High Stone Retaining Wall, Dry Set	644.58	270.53
			For >3:1 Sloped Soil At Top, Add	*8.79*	
32 32 53 00-0031		LF	$48.00/ton 6' High Stone Retaining Wall, Dry Set	851.28	359.43
			For >3:1 Sloped Soil At Top, Add	*11.26*	
32 32 53 00-0032		LF	$48.00/ton 8' High Stone Retaining Wall, Dry Set	1,307.71	561.98
			For >3:1 Sloped Soil At Top, Add	*15.61*	
32 32 53 00-0033		LF	$48.00/ton 10' High Stone Retaining Wall, Dry Set	1,705.22	735.13
			For >3:1 Sloped Soil At Top, Add	*19.97*	
32 32 53 00-0034		LF	$48.00/ton 12' High Stone Retaining Wall, Dry Set	2,120.85	915.46
			For >3:1 Sloped Soil At Top, Add	*24.64*	
32 32 53 00-0035		LF	$48.00/ton 3' High Stone Retaining Wall, Mortar Set	490.12	201.33
			For >3:1 Sloped Soil At Top, Add	*7.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0036	LF	$48.00/ton 4' High Stone Retaining Wall, Mortar Set	580.18	238.21
		For >3:1 Sloped Soil At Top, Add	*8.82*	
32 32 53 00-0037	LF	$48.00/ton 6' High Stone Retaining Wall, Mortar Set	755.84	311.65
		For >3:1 Sloped Soil At Top, Add	*11.26*	
32 32 53 00-0038	LF	$48.00/ton 8' High Stone Retaining Wall, Mortar Set	1,154.10	485.20
		For >3:1 Sloped Soil At Top, Add	*15.61*	
32 32 53 00-0039	LF	$48.00/ton 10' High Stone Retaining Wall, Mortar Set	1,489.74	627.44
		For >3:1 Sloped Soil At Top, Add	*19.97*	
32 32 53 00-0040	LF	$48.00/ton 12' High Stone Retaining Wall, Mortar Set	1,855.06	782.61
		For >3:1 Sloped Soil At Top, Add	*24.64*	

32 32 53 00-0041 Stone Retaining Walls *(32 32 53 00-0001)*

Note: Stone at $64.00/ton.

32 32 53 00-0042	LF	$64.00/ton 3' High Stone Retaining Wall, Dry Set	559.84	227.40
		For >3:1 Sloped Soil At Top, Add	*8.92*	
32 32 53 00-0043	LF	$64.00/ton 4' High Stone Retaining Wall, Dry Set	642.33	270.53
		For >3:1 Sloped Soil At Top, Add	*8.60*	
32 32 53 00-0044	LF	$64.00/ton 6' High Stone Retaining Wall, Dry Set	885.01	359.43
		For >3:1 Sloped Soil At Top, Add	*14.13*	
32 32 53 00-0045	LF	$64.00/ton 8' High Stone Retaining Wall, Dry Set	1,357.69	561.98
		For >3:1 Sloped Soil At Top, Add	*19.86*	
32 32 53 00-0046	LF	$64.00/ton 10' High Stone Retaining Wall, Dry Set	1,772.70	735.13
		For >3:1 Sloped Soil At Top, Add	*25.70*	
32 32 53 00-0047	LF	$64.00/ton 12' High Stone Retaining Wall, Dry Set	2,205.82	915.46
		For >3:1 Sloped Soil At Top, Add	*31.86*	
32 32 53 00-0048	LF	$64.00/ton 3' High Stone Retaining Wall, Mortar Set	507.62	201.33
		For >3:1 Sloped Soil At Top, Add	*8.92*	
32 32 53 00-0049	LF	$64.00/ton 4' High Stone Retaining Wall, Mortar Set	602.67	238.21
		For >3:1 Sloped Soil At Top, Add	*10.73*	
32 32 53 00-0050	LF	$64.00/ton 6' High Stone Retaining Wall, Mortar Set	789.57	311.65
		For >3:1 Sloped Soil At Top, Add	*14.13*	
32 32 53 00-0051	LF	$64.00/ton 8' High Stone Retaining Wall, Mortar Set	1,204.08	485.20
		For >3:1 Sloped Soil At Top, Add	*19.86*	
32 32 53 00-0052	LF	$64.00/ton 10' High Stone Retaining Wall, Mortar Set	1,557.22	627.44
		For >3:1 Sloped Soil At Top, Add	*25.70*	
32 32 53 00-0053	LF	$64.00/ton 12' High Stone Retaining Wall, Mortar Set	1,940.03	782.61
		For >3:1 Sloped Soil At Top, Add	*31.86*	

32 35 Screening Devices *(32 30)*

32 35 16 Sound Barriers *(32 35)*

32 35 16 00-0001 Precast Concrete Roadway Sound Barriers And Support Including Caps For Columns *(32 35 16)*

Note: Installed on steel supports. Finish to be determined by owner (ribbed, patterned, stamped, exposed aggregate or smooth)

32 35 16 00-0002 4" Thick *(32 35 16 00-0001)*

32 35 16 00-0003	LF	6' High x 4" Thick Precast Concrete Sound Walls	202.65	27.41
32 35 16 00-0004	LF	7' High x 4" Thick Precast Concrete Sound Walls	219.12	30.61
32 35 16 00-0005	LF	8' High x 4" Thick Precast Concrete Sound Walls	238.56	33.15
32 35 16 00-0006	LF	9' High x 4" Thick Precast Concrete Sound Walls	254.49	35.70
32 35 16 00-0007	LF	10' High x 4" Thick Precast Concrete Sound Walls	269.16	38.25
32 35 16 00-0008	LF	11' High x 4" Thick Precast Concrete Sound Walls	290.12	39.54
32 35 16 00-0009	LF	12' High x 4" Thick Precast Concrete Sound Walls	310.55	41.44

32 35 16 00-0010 6" Thick *(32 35 16 00-0001)*

32 35 16 00-0011	LF	6' High x 6" Thick Precast Concrete Sound Walls	241.88	31.88
32 35 16 00-0012	LF	7' High x 6" Thick Precast Concrete Sound Walls	261.51	35.70
32 35 16 00-0013	LF	8' High x 6" Thick Precast Concrete Sound Walls	284.70	39.54
32 35 16 00-0014	LF	9' High x 6" Thick Precast Concrete Sound Walls	303.69	42.09
32 35 16 00-0015	LF	10' High x 6" Thick Precast Concrete Sound Walls	321.19	44.63
32 35 16 00-0016	LF	11' High x 6" Thick Precast Concrete Sound Walls	346.28	46.55
32 35 16 00-0017	LF	12' High x 6" Thick Precast Concrete Sound Walls	370.72	48.46

32 35 16 00-0018 8" Thick *(32 35 16 00-0001)*

32 35 16 00-0019	LF	6' High x 8" Thick Precast Concrete Sound Walls	292.27	38.25
32 35 16 00-0020	LF	7' High x 8" Thick Precast Concrete Sound Walls	315.90	42.09
32 35 16 00-0021	LF	8' High x 8" Thick Precast Concrete Sound Walls	343.93	45.91
32 35 16 00-0022	LF	9' High x 8" Thick Precast Concrete Sound Walls	366.81	49.73
32 35 16 00-0023	LF	10' High x 8" Thick Precast Concrete Sound Walls	387.96	52.92
32 35 16 00-0024	LF	11' High x 8" Thick Precast Concrete Sound Walls	418.38	54.84
32 35 16 00-0025	LF	12' High x 8" Thick Precast Concrete Sound Walls	448.05	57.39

32 35 16 00-0026 Redwood Top *(32 35 16 00-0001)*

32 35 16 00-0027	LF	2" x 6" Redwood, Construction Grade/Rough	6.34	1.44
32 35 16 00-0028	LF	2" x 8" Redwood, Construction Grade/Rough	7.30	1.86

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 35 16 00-0029	LF	2" x 10" Redwood, Construction Grade/Rough	11.29	2.30
32 35 16 00-0030	LF	2" x 12" Redwood, Construction Grade/Rough	13.63	2.88
32 35 16 00-0031	LF	2" x 6" Redwood, Con Heart/Smooth	7.81	1.44
32 35 16 00-0032	LF	2" x 8" Redwood, Con Heart/Smooth	11.31	1.86
32 35 16 00-0033	LF	2" x 10" Redwood, Con Heart/Smooth	15.01	2.30
32 35 16 00-0034	LF	2" x 12" Redwood, Con Heart/Smooth	18.05	2.88

32 39 Manufactured Site Specialties *(32 30)*

Note: Excludes core drilling (where needed), augering, concrete footing and compaction See CSI section 02 41 19 13-0081 for concrete core drilling, 02 41 19 13-0219 for asphalt core drilling.

32 39 13 Manufactured Metal Bollards *(32 39)*

32 39 13 00-0001 Metal Pipe Bollards *(32 39 13)*

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any.

32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powered Coated *(32 39 13 00-0001)*

32 39 13 00-0003	LF	4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	71.05	14.65
		For Galvanized Steel, Add	*7.09*	
		For 304 Stainless Steel, Add	*56.34*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*141.28*	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	*96.56*	
		For Schedule 80, Add	*9.19*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*10.20*	
32 39 13 00-0004	LF	6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	95.14	14.65
		For Galvanized Steel, Add	*11.19*	
		For 304 Stainless Steel, Add	*88.86*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*141.28*	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	*96.56*	
		For Schedule 80, Add	*12.81*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*14.39*	
32 39 13 00-0005	LF	8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	134.26	18.32
		For Galvanized Steel, Add	*16.60*	
		For 304 Stainless Steel, Add	*131.79*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*184.56*	
		For Each Sleeve For Removable, Lockable Bollard, Add	*209.28*	
		For Schedule 80, Add	*18.31*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*19.21*	
32 39 13 00-0006	LF	10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	177.54	21.98
		For Galvanized Steel, Add	*22.71*	
		For 304 Stainless Steel, Add	*180.32*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*213.88*	
		For Each Sleeve For Removable, Lockable Bollard, Add	*223.94*	
		For Schedule 80, Add	*24.43*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*23.49*	
32 39 13 00-0007	LF	12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	224.37	29.32
		For Galvanized Steel, Add	*28.18*	
		For 304 Stainless Steel, Add	*223.76*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*293.48*	
		For Each Sleeve For Removable, Lockable Bollard, Add	*312.24*	
		For Schedule 80, Add	*30.72*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*27.39*	

32 39 13 00-0008 Cast Bollards *(32 39 13 00-0001)*

32 39 13 00-0009	EA	36" Cast Aluminum Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, all colors.	2,004.78	87.94
32 39 13 00-0010	EA	36" Cast Aluminum Removable Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	3,380.14	87.94
32 39 13 00-0011	EA	36" Cast Iron Bollard, Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, all colors.	1,700.70	87.94
32 39 13 00-0012	EA	36" Cast Iron Removable Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	3,084.20	87.94

32 39 23 Manufactured Concrete Bollards *(32 39)*

32 39 23 00-0001 Concrete Bollards *(32 39 23)*

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any.

32 39 23 00-0002 Concrete Bollard, Exposed Aggregate *(32 39 23 00-0001)*

32 39 23 00-0003	EA	12" x 12" x 30" High Concrete Bollard, Light Media Blast Note: Surface mounted with anchor bolts embedded into grout pockets.	664.99	117.25
32 39 23 00-0004	EA	12" Diameter x 30" High Concrete Bollard, Light Media Blast Note: Surface mounted with anchor bolts embedded into grout pockets.	664.99	117.25

32 39 23 00-0005 Poured In Place Concrete Bollard With Powder Coated Steel Exterior *(32 39 23)*

Note: Includes high visibility powder coated steel exterior with welded anchoring tabs for embedding in concrete. Excludes excavation and concrete foundation.

32 39 23 00-0006	EA	24" Exposed Height, 5-1/2" Diameter, Poured In Place Concrete Bollard With Powder Coated Steel Exterior	264.83	58.62
32 39 23 00-0007	EA	36" Exposed Height, 5-1/2" Diameter, Poured In Place Concrete Bollard With Powder Coated Steel Exterior	339.39	58.62
32 39 23 00-0008	EA	42" Exposed Height, 5-1/2" Diameter, Poured In Place Concrete Bollard With Powder Coated Steel Exterior	389.81	58.62
32 39 23 00-0009	EA	48" Exposed Height, 5-1/2" Diameter, Poured In Place Concrete Bollard With Powder Coated Steel Exterior	437.39	58.62

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 39 25 Manufactured Wood Bollards *(32 39)*

32 39 25 00-0001 Wood Bollards *(32 39 25)*

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any.

32 39 25 00-0002 Wood Bollard, Pressure Treated Timber *(32 39 25 00-0001)*

32 39 25 00-0003	LF	4" x 4", Pressure Treated Wood Bollard	25.63	11.72
		For Each Sleeve For Removable, Lockable Bollard, Add	*141.90*	
32 39 25 00-0004	LF	6" x 6", Pressure Treated Wood Bollard	27.92	11.72
		For Each Sleeve For Removable, Lockable Bollard, Add	*141.90*	
32 39 25 00-0005	LF	8" x 8", Pressure Treated Wood Bollard	34.33	13.19
		For Each Sleeve For Removable, Lockable Bollard, Add	*222.76*	
32 39 25 00-0006	LF	10" x 10", Pressure Treated Wood Bollard	47.57	17.59
		For Each Sleeve For Removable, Lockable Bollard, Add	*240.34*	
32 39 25 00-0007	LF	12" x 12", Pressure Treated Wood Bollard	64.75	23.45
		For Each Sleeve For Removable, Lockable Bollard, Add	*338.80*	

32 39 27 Manufactured Plastic Bollards *(32 39)*

32 39 27 00-0001 Plastic Bollards *(32 39 27)*

32 39 27 00-0002 Recycled Plastic Bollards *(32 39 27 00-0001)*

32 39 27 00-0003	EA	6" x 6" x 33" Surface Mounted Recycled Plastic Bollard Note: Includes anchor bolts.	377.90	58.62
32 39 27 00-0004	EA	6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard	609.95	58.62

32 39 27 00-0005 Plastic Bollard Covers *(32 39 27 00-0001)*

32 39 27 00-0006	EA	4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	93.59	12.33
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0007	EA	6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	101.14	13.57
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0008	EA	3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe	128.05	12.33
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0009	EA	3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe	128.05	12.33
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0010	EA	3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe	144.14	12.33
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0011	EA	4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe	128.05	12.33
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0012	EA	4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	130.35	12.33
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0013	EA	5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	128.05	12.33
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0014	EA	5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	130.35	12.33
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0015	EA	5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	183.20	12.33
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0016	EA	6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	130.51	13.57
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0017	EA	6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	167.28	13.57
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0018	EA	6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	190.75	13.57
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0019	EA	7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	160.56	14.81
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0020	EA	8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe	174.34	14.81
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0021	EA	8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe	174.34	14.81
		For Reflective Tape, Add	*10.94*	
32 39 27 00-0022	EA	10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe	236.40	14.81
		For Reflective Tape, Add	*10.94*	

32 39 29 Manufactured Stone Bollards *(32 39)*

32 39 29 00-0001 Stone Bollards *(32 39 29)*

32 39 29 00-0002 Granite Bollards *(32 39 29 00-0001)*

32 39 29 00-0003	EA	16" x 16" x 30" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	1,870.41	146.56
32 39 29 00-0004	EA	16" x 16" x 54" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	2,360.47	205.19
32 39 29 00-0005	EA	12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top Note: Surface mounted with anchors embedded into grout pockets.	1,136.26	146.56
32 39 29 00-0006	EA	12" Diameter x 18" Granite Bollard, Smooth Matt Finish Note: Flat Top, surface mounted with anchors embedded into grout pockets.	1,725.75	117.25
32 39 29 00-0007	EA	24" x 24" x 20" Granite Bollard, Octagonal Cross Section Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.	2,600.42	117.25

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 Utilities

Note: Buried plastic pipe and conduit includes detectable tracer wire

33 01 Operation and Maintenance of Utilities *(33)*

33 01 10 Operation and Maintenance of Water Utilities *(33 01)*

33 01 10 54 Cleaning of Water Utility Piping *(33 01 10)*

See CSI section 33 01 30 41-0012 for cleaning of water lines.

33 01 10 58 Disinfection of Water Utility Piping Systems *(33 01 10)*

33 01 10 58-0001 Water Main Disinfection/Sterilization *(33 01 10 58)*

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Set-up And Removal Of Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	1,129.40	
33 01 10 58-0003	EA	Move And Set-up At Different Access/Location For Water Main Disinfection/Sterilization, Gas Chlorination Method	564.70	
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.42	
		For >250 To 500, Deduct	*-0.02*	
		For >500 To 1,000, Deduct	*-0.04*	
		For >1,000 To 2,000, Deduct	*-0.06*	
		For >2,000 To 5,000, Deduct	*-0.08*	
		For >5,000, Deduct	*-0.11*	
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization	0.66	
		For >250 To 500, Deduct	*-0.03*	
		For >500 To 1,000, Deduct	*-0.07*	
		For >1,000 To 2,000, Deduct	*-0.10*	
		For >2,000 To 5,000, Deduct	*-0.13*	
		For >5,000, Deduct	*-0.17*	
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization	0.85	
		For >250 To 500, Deduct	*-0.04*	
		For >500 To 1,000, Deduct	*-0.09*	
		For >1,000 To 2,000, Deduct	*-0.13*	
		For >2,000 To 5,000, Deduct	*-0.17*	
		For >5,000, Deduct	*-0.21*	
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization	1.00	
		For >250 To 500, Deduct	*-0.05*	
		For >500 To 1,000, Deduct	*-0.10*	
		For >1,000 To 2,000, Deduct	*-0.15*	
		For >2,000 To 5,000, Deduct	*-0.20*	
		For >5,000, Deduct	*-0.25*	
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization	1.30	
		For >250 To 500, Deduct	*-0.07*	
		For >500 To 1,000, Deduct	*-0.13*	
		For >1,000 To 2,000, Deduct	*-0.20*	
		For >2,000 To 5,000, Deduct	*-0.26*	
		For >5,000, Deduct	*-0.33*	
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.47	
		For >250 To 500, Deduct	*-0.07*	
		For >500 To 1,000, Deduct	*-0.15*	
		For >1,000 To 2,000, Deduct	*-0.22*	
		For >2,000 To 5,000, Deduct	*-0.29*	
		For >5,000, Deduct	*-0.37*	
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.69	
		For >250 To 500, Deduct	*-0.08*	
		For >500 To 1,000, Deduct	*-0.17*	
		For >1,000 To 2,000, Deduct	*-0.25*	
		For >2,000 To 5,000, Deduct	*-0.34*	
		For >5,000, Deduct	*-0.42*	
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.99	
		For >250 To 500, Deduct	*-0.10*	
		For >500 To 1,000, Deduct	*-0.20*	
		For >1,000 To 2,000, Deduct	*-0.30*	
		For >2,000 To 5,000, Deduct	*-0.40*	
		For >5,000, Deduct	*-0.50*	
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.57	
		For >250 To 500, Deduct	*-0.13*	
		For >500 To 1,000, Deduct	*-0.26*	
		For >1,000 To 2,000, Deduct	*-0.39*	
		For >2,000 To 5,000, Deduct	*-0.51*	
		For >5,000, Deduct	*-0.64*	
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.76	
		For >250 To 500, Deduct	*-0.19*	
		For >500 To 1,000, Deduct	*-0.38*	
		For >1,000 To 2,000, Deduct	*-0.56*	
		For >2,000 To 5,000, Deduct	*-0.75*	
		For >5,000, Deduct	*-0.94*	
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization	5.22	
		For >250 To 500, Deduct	*-0.26*	
		For >500 To 1,000, Deduct	*-0.52*	
		For >1,000 To 2,000, Deduct	*-0.78*	
		For >2,000 To 5,000, Deduct	*-1.04*	
		For >5,000, Deduct	*-1.31*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 01 10 71 Relining Water Utilities Pipelines *(33 01 10)*

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001 Relining Underground Water Pipelines *(33 01 10 71)*

Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hour response for owners' backups.

33 01 10 71-0002 Set-Up And Reinsertion For Relining Underground Water Pipelines *(33 01 10 71-0001)*

33 01 10 71-0003	EA	Initial Set-up And Final Equipment Removal For Relining Underground Water Pipelines	6,022.95
33 01 10 71-0004	EA	Move And Set-up At Different Access/Location	2,409.17

33 01 10 71-0005 Lining Pipe With Cement *(33 01 10 71-0001)*

33 01 10 71-0006	LF	Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	69.01	
		For 3/16" Thickness, Add	*1.26*	
		For 1/4" Thickness, Add	*2.51*	
33 01 10 71-0007	LF	>500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	61.50	
		For 3/16" Thickness, Add	*1.26*	
		For 1/4" Thickness, Add	*2.51*	
33 01 10 71-0008	LF	>1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	51.44	
		For 3/16" Thickness, Add	*1.26*	
		For 1/4" Thickness, Add	*2.51*	
33 01 10 71-0009	LF	>5,000', 4" Pipe, 1/8" Pipe Lining With Cement	38.80	
		For 3/16" Thickness, Add	*1.26*	
		For 1/4" Thickness, Add	*2.51*	
33 01 10 71-0010	LF	Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	71.98	
		For 3/16" Thickness, Add	*1.88*	
		For 1/4" Thickness, Add	*3.76*	
33 01 10 71-0011	LF	>500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	64.19	
		For 3/16" Thickness, Add	*1.88*	
		For 1/4" Thickness, Add	*3.76*	
33 01 10 71-0012	LF	>1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	53.78	
		For 3/16" Thickness, Add	*1.88*	
		For 1/4" Thickness, Add	*3.76*	
33 01 10 71-0013	LF	>5,000', 6" Pipe, 1/8" Pipe Lining With Cement	40.98	
		For 3/16" Thickness, Add	*1.88*	
		For 1/4" Thickness, Add	*3.76*	
33 01 10 71-0014	LF	Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	74.84	
		For 3/16" Thickness, Add	*2.50*	
		For 1/4" Thickness, Add	*5.00*	
33 01 10 71-0015	LF	>500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	66.87	
		For 3/16" Thickness, Add	*2.50*	
		For 1/4" Thickness, Add	*5.00*	
33 01 10 71-0016	LF	>1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	56.11	
		For 3/16" Thickness, Add	*2.50*	
		For 1/4" Thickness, Add	*5.00*	
33 01 10 71-0017	LF	>5,000', 8" Pipe, 1/8" Pipe Lining With Cement	43.14	
		For 3/16" Thickness, Add	*2.50*	
		For 1/4" Thickness, Add	*5.00*	
33 01 10 71-0018	LF	Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	77.08	
		For 3/16" Thickness, Add	*3.14*	
		For 1/4" Thickness, Add	*6.27*	
33 01 10 71-0019	LF	>500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	68.98	
		For 3/16" Thickness, Add	*3.14*	
		For 1/4" Thickness, Add	*6.27*	
33 01 10 71-0020	LF	>1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	58.07	
		For 3/16" Thickness, Add	*3.14*	
		For 1/4" Thickness, Add	*6.27*	
33 01 10 71-0021	LF	>5,000', 10" Pipe, 1/8" Pipe Lining With Cement	45.32	
		For 3/16" Thickness, Add	*3.14*	
		For 1/4" Thickness, Add	*6.27*	
33 01 10 71-0022	LF	Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	83.44	
		For 3/16" Thickness, Add	*3.76*	
		For 1/4" Thickness, Add	*7.52*	
33 01 10 71-0023	LF	>500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	74.83	
		For 3/16" Thickness, Add	*3.76*	
		For 1/4" Thickness, Add	*7.52*	
33 01 10 71-0024	LF	>1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	63.22	
		For 3/16" Thickness, Add	*3.76*	
		For 1/4" Thickness, Add	*7.52*	
33 01 10 71-0025	LF	>5,000', 12" Pipe, 1/8" Pipe Lining With Cement	49.44	
		For 3/16" Thickness, Add	*3.76*	
		For 1/4" Thickness, Add	*7.52*	
33 01 10 71-0026	LF	Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	90.75	
		For 1/4" Thickness, Add	*4.18*	
		For 5/16" Thickness, Add	*8.36*	
33 01 10 71-0027	LF	>500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	81.83	
		For 1/4" Thickness, Add	*4.18*	
		For 5/16" Thickness, Add	*8.36*	
33 01 10 71-0028	LF	>1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	69.73	
		For 1/4" Thickness, Add	*4.18*	
		For 5/16" Thickness, Add	*8.36*	
33 01 10 71-0029	LF	>5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	56.53	
		For 1/4" Thickness, Add	*4.18*	
		For 5/16" Thickness, Add	*8.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030	LF	Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	95.55	
		For 1/4" Thickness, Add	*5.01*	
		For 5/16" Thickness, Add	*10.02*	
33 01 10 71-0031	LF	>500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	86.34	
		For 1/4" Thickness, Add	*5.01*	
		For 5/16" Thickness, Add	*10.02*	
33 01 10 71-0032	LF	>1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	73.84	
		For 1/4" Thickness, Add	*5.01*	
		For 5/16" Thickness, Add	*10.02*	
33 01 10 71-0033	LF	>5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	61.31	
		For 1/4" Thickness, Add	*5.01*	
		For 5/16" Thickness, Add	*10.02*	
33 01 10 71-0034	LF	Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	101.39	
		For 1/4" Thickness, Add	*5.85*	
		For 5/16" Thickness, Add	*11.70*	
33 01 10 71-0035	LF	>500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	91.87	
		For 1/4" Thickness, Add	*5.85*	
		For 5/16" Thickness, Add	*11.70*	
33 01 10 71-0036	LF	>1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	78.77	
		For 1/4" Thickness, Add	*5.85*	
		For 5/16" Thickness, Add	*11.70*	
33 01 10 71-0037	LF	>5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	67.06	
		For 1/4" Thickness, Add	*5.85*	
		For 5/16" Thickness, Add	*11.70*	
33 01 10 71-0038	LF	Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	107.35	
		For 1/4" Thickness, Add	*6.69*	
		For 5/16" Thickness, Add	*13.37*	
33 01 10 71-0039	LF	>500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	97.44	
		For 1/4" Thickness, Add	*6.69*	
		For 5/16" Thickness, Add	*13.37*	
33 01 10 71-0040	LF	>1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	83.92	
		For 1/4" Thickness, Add	*6.69*	
		For 5/16" Thickness, Add	*13.37*	
33 01 10 71-0041	LF	>5,000', 24" Pipe, 3/16" Pipe Lining With Cement	73.01	
		For 1/4" Thickness, Add	*6.69*	
		For 5/16" Thickness, Add	*13.37*	
33 01 10 71-0042	LF	Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	115.68	
		For 1/4" Thickness, Add	*8.35*	
		For 5/16" Thickness, Add	*16.71*	
33 01 10 71-0043	LF	>500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	105.19	
		For 1/4" Thickness, Add	*8.35*	
		For 5/16" Thickness, Add	*16.71*	
33 01 10 71-0044	LF	>1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	90.87	
		For 1/4" Thickness, Add	*8.35*	
		For 5/16" Thickness, Add	*16.71*	
33 01 10 71-0045	LF	>5,000', 30" Pipe, 3/16" Pipe Lining With Cement	79.84	
		For 1/4" Thickness, Add	*8.35*	
		For 5/16" Thickness, Add	*16.71*	
33 01 10 71-0046	LF	Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	123.93	
		For 1/4" Thickness, Add	*10.03*	
		For 5/16" Thickness, Add	*20.06*	
33 01 10 71-0047	LF	500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	112.98	
		For 1/4" Thickness, Add	*10.03*	
		For 5/16" Thickness, Add	*20.06*	
33 01 10 71-0048	LF	>1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	97.85	
		For 1/4" Thickness, Add	*10.03*	
		For 5/16" Thickness, Add	*20.06*	
33 01 10 71-0049	LF	>5,000', 36" Pipe, 3/16" Pipe Lining With Cement	86.71	
		For 1/4" Thickness, Add	*10.03*	
		For 5/16" Thickness, Add	*20.06*	
33 01 10 71-0050	LF	Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	155.21	
		For 3/8" Thickness, Add	*26.32*	
		For 7/16" Thickness, Add	*39.48*	
33 01 10 71-0051	LF	>500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	143.28	
		For 3/8" Thickness, Add	*26.32*	
		For 7/16" Thickness, Add	*39.48*	
33 01 10 71-0052	LF	>1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	126.84	
		For 3/8" Thickness, Add	*26.32*	
		For 7/16" Thickness, Add	*39.48*	
33 01 10 71-0053	LF	>5,000', 42" Pipe, 1/4" Pipe Lining With Cement	115.35	
		For 3/8" Thickness, Add	*26.32*	
		For 7/16" Thickness, Add	*39.48*	
33 01 10 71-0054	LF	Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	171.32	
		For 3/8" Thickness, Add	*30.08*	
		For 7/16" Thickness, Add	*45.11*	
33 01 10 71-0055	LF	>500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	158.57	
		For 3/8" Thickness, Add	*30.08*	
		For 7/16" Thickness, Add	*45.11*	
33 01 10 71-0056	LF	>1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	140.90	
		For 3/8" Thickness, Add	*30.08*	
		For 7/16" Thickness, Add	*45.11*	
33 01 10 71-0057	LF	>5,000', 48" Pipe, 1/4" Pipe Lining With Cement	129.18	
		For 3/8" Thickness, Add	*30.08*	
		For 7/16" Thickness, Add	*45.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058	LF	Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement	180.92	
		For 3/8" Thickness, Add	*33.84*	
		For 7/16" Thickness, Add	*50.75*	
33 01 10 71-0059	LF	>500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	167.88	
		For 3/8" Thickness, Add	*33.84*	
		For 7/16" Thickness, Add	*50.75*	
33 01 10 71-0060	LF	>1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	149.79	
		For 3/8" Thickness, Add	*33.84*	
		For 7/16" Thickness, Add	*50.75*	
33 01 10 71-0061	LF	>5,000', 54" Pipe, 1/4" Pipe Lining With Cement	138.54	
		For 3/8" Thickness, Add	*33.84*	
		For 7/16" Thickness, Add	*50.75*	
33 01 10 71-0062	LF	Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement	190.53	
		For 3/8" Thickness, Add	*37.61*	
		For 7/16" Thickness, Add	*56.41*	
33 01 10 71-0063	LF	>500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	177.26	
		For 3/8" Thickness, Add	*37.61*	
		For 7/16" Thickness, Add	*56.41*	
33 01 10 71-0064	LF	>1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	158.83	
		For 3/8" Thickness, Add	*37.61*	
		For 7/16" Thickness, Add	*56.41*	
33 01 10 71-0065	LF	>5,000', 60" Pipe, 1/4" Pipe Lining With Cement	147.91	
		For 3/8" Thickness, Add	*37.61*	
		For 7/16" Thickness, Add	*56.41*	
33 01 10 71-0066	LF	Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement	200.46	
		For 3/8" Thickness, Add	*41.37*	
		For 7/16" Thickness, Add	*62.05*	
33 01 10 71-0067	LF	>500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	186.91	
		For 3/8" Thickness, Add	*41.37*	
		For 7/16" Thickness, Add	*62.05*	
33 01 10 71-0068	LF	>1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	168.18	
		For 3/8" Thickness, Add	*41.37*	
		For 7/16" Thickness, Add	*62.05*	
33 01 10 71-0069	LF	>5,000', 66" Pipe, 1/4" Pipe Lining With Cement	158.07	
		For 3/8" Thickness, Add	*41.37*	
		For 7/16" Thickness, Add	*62.05*	
33 01 10 71-0070	LF	Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement	210.83	
		For 3/8" Thickness, Add	*45.12*	
		For 7/16" Thickness, Add	*67.68*	
33 01 10 71-0071	LF	>500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	197.05	
		For 3/8" Thickness, Add	*45.12*	
		For 7/16" Thickness, Add	*67.68*	
33 01 10 71-0072	LF	>1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	177.87	
		For 3/8" Thickness, Add	*45.12*	
		For 7/16" Thickness, Add	*67.68*	
33 01 10 71-0073	LF	>5,000', 72" Pipe, 1/4" Pipe Lining With Cement	168.34	
		For 3/8" Thickness, Add	*45.12*	
		For 7/16" Thickness, Add	*67.68*	

33 01 10 71-0074 Lining Pipe With Epoxy *(33 01 10 71-0001)*

33 01 10 71-0075	LF	Up To 500', 4" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	65.47
33 01 10 71-0076	LF	>500' To 1,000', 4" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	58.55
33 01 10 71-0077	LF	>1,000' To 5,000', 4" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	49.28
33 01 10 71-0078	LF	>5,000', 4" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	44.66
33 01 10 71-0079	LF	Up To 500', 6" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	69.14
33 01 10 71-0080	LF	>500' To 1,000', 6" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	61.99
33 01 10 71-0081	LF	>1,000' To 5,000', 6" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	52.40
33 01 10 71-0082	LF	>5,000', 6" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	47.59
33 01 10 71-0083	LF	Up To 500', 8" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	72.75
33 01 10 71-0084	LF	>500' To 1,000', 8" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	65.43
33 01 10 71-0085	LF	>1,000' To 5,000', 8" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	55.52
33 01 10 71-0086	LF	>5,000', 8" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	50.64
33 01 10 71-0087	LF	Up To 500', 10" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	69.86
33 01 10 71-0088	LF	>500' To 1,000', 10" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	68.35
33 01 10 71-0089	LF	>1,000' To 5,000', 10" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	58.33
33 01 10 71-0090	LF	>5,000', 10" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	53.34
33 01 10 71-0091	LF	Up To 500', 12" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	82.64
33 01 10 71-0092	LF	>500' To 1,000', 12" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	74.71
33 01 10 71-0093	LF	>1,000' To 5,000', 12" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	64.03
33 01 10 71-0094	LF	>5,000', 12" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	58.63
33 01 10 71-0095	LF	Up To 500', >12" To 16" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	87.97
33 01 10 71-0096	LF	>500' To 1,000', >12" To 16" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	79.74
33 01 10 71-0097	LF	>1,000' To 5,000', >12" To 16" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	68.62
33 01 10 71-0098	LF	>5,000', >12" To 16" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	63.01
33 01 10 71-0099	LF	Up To 500', >16" To 20" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	93.23
33 01 10 71-0100	LF	>500' To 1,000', >16" To 20" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	84.77
33 01 10 71-0101	LF	1,000' To 5,000', >16" To 20" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	73.27
33 01 10 71-0102	LF	>5,000', >16" To 20" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	67.46
33 01 10 71-0103	LF	Up To 500', >20" To 22" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	99.53
33 01 10 71-0104	LF	>500' To 1,000', >20" To 22" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	90.76
33 01 10 71-0105	LF	>1,000' To 5,000', >20" To 22" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	78.70
33 01 10 71-0106	LF	>5,000', >20" To 22" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	72.77

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0107	LF	Up To 500', 24" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	105.87	
33 01 10 71-0108	LF	>500' To 1,000', 24" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	96.75	
33 01 10 71-0109	LF	>1,000' To 5,000', 24" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	84.31	
33 01 10 71-0110	LF	>5,000', 24" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	78.09	
33 01 10 71-0111	LF	Up To 500', 30" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	115.33	
33 01 10 71-0112	LF	>500' To 1,000', 30" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	105.67	
33 01 10 71-0113	LF	>1,000' To 5,000', 30" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	92.50	
33 01 10 71-0114	LF	>5,000', 30" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	85.85	
33 01 10 71-0115	LF	Up To 500', 36" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	124.68	
33 01 10 71-0116	LF	>500' To 1,000', 36" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	114.60	
33 01 10 71-0117	LF	>1,000' To 5,000', 36" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	100.71	
33 01 10 71-0118	LF	>5,000', 36" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	93.79	
33 01 10 71-0119	LF	Up To 500', 42" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	139.11	
33 01 10 71-0120	LF	>500' To 1,000', 42" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	128.12	
33 01 10 71-0121	LF	>1,000' To 5,000', 42" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	113.01	
33 01 10 71-0122	LF	>5,000', 42" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	105.53	
33 01 10 71-0123	LF	Up To 500', 48" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	153.46	
33 01 10 71-0124	LF	>500' To 1,000', 48" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	141.70	
33 01 10 71-0125	LF	>1,000' To 5,000', 48" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	125.46	
33 01 10 71-0126	LF	>5,000', 48" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	117.42	
33 01 10 71-0127	LF	Up To 500', 54" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	161.74	
33 01 10 71-0128	LF	>500' To 1,000', 54" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	149.73	
33 01 10 71-0129	LF	>1,000' To 5,000', 54" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	133.10	
33 01 10 71-0130	LF	>5,000', 54" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	124.85	
33 01 10 71-0131	LF	Up To 500', 60" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	169.98	
33 01 10 71-0132	LF	>500' To 1,000', 60" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	157.79	
33 01 10 71-0133	LF	>1,000' To 5,000', 60" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	140.83	
33 01 10 71-0134	LF	>5,000', 60" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	132.06	

33 01 10 71-0135 Water House Connection *(33 01 10 71-0001)*

33 01 10 71-0136	EA	Blow Out Line To Water House Connection After Lining	56.47	

33 01 20 Operation and Maintenance of Wells *(33 01)*

33 01 20 00-0001 Pull Submersible Well Pumps For Repair *(33 01 20)*

Note: Includes cleaning.

33 01 20 00-0002	EA	Up To 100' Depth, Pull Submersible Well Pumps For Repair Note: Includes reinstallation after repair.	98.92	
33 01 20 00-0003	EA	>100 To 200' Depth, Pull Submersible Well Pumps For Repair Note: Includes reinstallation after repair.	131.88	
33 01 20 00-0004	EA	>200 To 300' Depth, Pull Submersible Well Pumps For Repair Note: Includes reinstallation after repair.	171.46	
33 01 20 00-0005	EA	>300 To 400' Depth, Pull Submersible Well Pumps For Repair Note: Includes reinstallation after repair.	224.21	
33 01 20 00-0006	EA	>400 To 500' Depth, Pull Submersible Well Pumps For Repair Note: Includes reinstallation after repair.	276.96	
33 01 20 00-0007	EA	>500 To 600' Depth, Pull Submersible Well Pumps For Repair Note: Includes reinstallation after repair.	316.53	

33 01 30 Operation and Maintenance of Sewer Utilities *(33 01)*

33 01 30 11 Television Inspection Of Pipelines *(33 01 30)*

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts *(33 01 30 11)*

33 01 30 11-0002 Set-up For Video Camera *(33 01 30 11-0001)*

Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1" to 12" diameter pipes for distances up to 300 feet. Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).

33 01 30 11-0003	EA	Initial Set-up And Final Equipment Removal For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	1,037.82	
33 01 30 11-0004	EA	Initial Set-up And Final Equipment Removal For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert	2,075.65	
33 01 30 11-0005	EA	Initial Set-up And Final Equipment Removal For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	3,113.46	
33 01 30 11-0006	EA	Move And Set-up At Different Access/Location For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	518.91	
33 01 30 11-0007	EA	Move And Set-up At Different Access/Location For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	1,037.82	

33 01 30 11-0008 Video Camera Planning And Analysis Inspection *(33 01 30 11-0001)*

Note: For pipe interior and culverts.

33 01 30 11-0009	LF	4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	2.63	
		For >500 To 1,000, Deduct	*-0.26*	
		For >1,000 To 5,000, Deduct	*-0.66*	
		For >5,000, Deduct	*-0.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0010	LF	>6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	3.50	
		For >500 To 1,000, Deduct	*-0.35*	
		For >1,000 To 5,000, Deduct	*-0.88*	
		For >5,000, Deduct	*-1.23*	
33 01 30 11-0011	LF	>12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	4.39	
		For >500 To 1,000, Deduct	*-0.44*	
		For >1,000 To 5,000, Deduct	*-1.10*	
		For >5,000, Deduct	*-1.54*	
33 01 30 11-0012	LF	>21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	5.85	
		For >500 To 1,000, Deduct	*-0.59*	
		For >1,000 To 5,000, Deduct	*-1.46*	
		For >5,000, Deduct	*-2.05*	
33 01 30 11-0013	LF	>30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	8.23	
		For >500 To 1,000, Deduct	*-0.82*	
		For >1,000 To 5,000, Deduct	*-2.06*	
		For >5,000, Deduct	*-2.88*	
33 01 30 11-0014	LF	>42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	10.96	
		For >500 To 1,000, Deduct	*-1.10*	
		For >1,000 To 5,000, Deduct	*-2.74*	
		For >5,000, Deduct	*-3.84*	
33 01 30 11-0015	LF	>60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	15.48	
		For >500 To 1,000, Deduct	*-1.55*	
		For >1,000 To 5,000, Deduct	*-3.87*	
		For >5,000, Deduct	*-5.42*	
33 01 30 11-0016	LF	>72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	21.93	
		For >500 To 1,000, Deduct	*-2.19*	
		For >1,000 To 5,000, Deduct	*-5.48*	
		For >5,000, Deduct	*-7.68*	
33 01 30 11-0017		Video Camera Pre-Rehab For Pipe Interior And Culverts *(33 01 30 11-0001)*		
33 01 30 11-0018	LF	4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior.	3.90	
		For >500 To 1,000, Deduct	*-0.39*	
		For >1,000 To 5,000, Deduct	*-0.98*	
		For >5,000, Deduct	*-1.37*	
33 01 30 11-0019	LF	>6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior.	5.19	
		For >500 To 1,000, Deduct	*-0.52*	
		For >1,000 To 5,000, Deduct	*-1.30*	
		For >5,000, Deduct	*-1.82*	
33 01 30 11-0020	LF	>12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior.	6.49	
		For >500 To 1,000, Deduct	*-0.65*	
		For >1,000 To 5,000, Deduct	*-1.62*	
		For >5,000, Deduct	*-2.27*	
33 01 30 11-0021	LF	>21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior.	8.65	
		For >500 To 1,000, Deduct	*-0.87*	
		For >1,000 To 5,000, Deduct	*-2.16*	
		For >5,000, Deduct	*-3.03*	
33 01 30 11-0022	LF	>30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior.	12.16	
		For >500 To 1,000, Deduct	*-1.22*	
		For >1,000 To 5,000, Deduct	*-3.04*	
		For >5,000, Deduct	*-4.26*	
33 01 30 11-0023	LF	>42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior.	16.21	
		For >500 To 1,000, Deduct	*-1.62*	
		For >1,000 To 5,000, Deduct	*-4.05*	
		For >5,000, Deduct	*-5.67*	
33 01 30 11-0024	LF	>60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior.	22.89	
		For >500 To 1,000, Deduct	*-2.29*	
		For >1,000 To 5,000, Deduct	*-5.72*	
		For >5,000, Deduct	*-8.01*	
33 01 30 11-0025	LF	>72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior.	32.44	
		For >500 To 1,000, Deduct	*-3.24*	
		For >1,000 To 5,000, Deduct	*-8.11*	
		For >5,000, Deduct	*-11.35*	
33 01 30 11-0026		Video Camera Post-Rehab For Pipe Interior And Culverts *(33 01 30 11-0001)*		
33 01 30 11-0027	LF	4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase Note: CCTV inspection of pipe interior.	2.78	
		For >500 To 1,000, Deduct	*-0.28*	
		For >1,000 To 5,000, Deduct	*-0.70*	
		For >5,000, Deduct	*-0.97*	

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0028	LF	>6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase	3.71	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.37*	
		For >1,000 To 5,000, Deduct	*-0.93*	
		For >5,000, Deduct	*-1.30*	
33 01 30 11-0029	LF	>12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase	4.63	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.46*	
		For >1,000 To 5,000, Deduct	*-1.16*	
		For >5,000, Deduct	*-1.62*	
33 01 30 11-0030	LF	>21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase	6.18	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.62*	
		For >1,000 To 5,000, Deduct	*-1.55*	
		For >5,000, Deduct	*-2.16*	
33 01 30 11-0031	LF	>30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase	8.69	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.87*	
		For >1,000 To 5,000, Deduct	*-2.17*	
		For >5,000, Deduct	*-3.04*	
33 01 30 11-0032	LF	>42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase	11.58	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-1.16*	
		For >1,000 To 5,000, Deduct	*-2.90*	
		For >5,000, Deduct	*-4.05*	
33 01 30 11-0033	LF	>60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase	16.35	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-1.64*	
		For >1,000 To 5,000, Deduct	*-4.09*	
		For >5,000, Deduct	*-5.72*	
33 01 30 11-0034	LF	>72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase	23.16	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-2.32*	
		For >1,000 To 5,000, Deduct	*-5.79*	
		For >5,000, Deduct	*-8.11*	

33 01 30 23 Pipe Bursting *(33 01 30)*

33 01 30 23-0001 Pipe Bursting *(33 01 30 23)*

Note: The following section excludes costs for CCTV Inspection, sewer cleaning, pavement both temporary and permanent, emergency after hour response for owners' backups, bypass pumping, tree removal, service saddles, soil testing, and erosion control. See CSI section 31 13 13 00-0001 for tree removal.

33 01 30 23-0002 Manhole Chipping *(33 01 30 23-0001)*

Note: For use at manholes to open holes for pipe bursting head.

33 01 30 23-0003	EA	6" To 15" Diameter, Manhole Chipping	469.41
33 01 30 23-0004	EA	>15" To 24" Diameter, Manhole Chipping	551.09
33 01 30 23-0005	EA	>24" To 36" Diameter, Manhole Chipping	688.82

33 01 30 23-0006 Pipe Bursting *(33 01 30 23-0001)*

Note: Includes equipment to burst or upsize existing clay, cast iron, concrete, PVC or ductile iron pipe; pipe bursting royalty fee. Excludes CCTV inspection, PE piping, excavation of pit, backfill, compaction, final grade, seed and sod restoration, recovery of bursting head disabled by obstruction, either undocumented or unrecognizable during CCTV inspection. See CSI section 33 01 30 23-0051 for PE piping.

33 01 30 23-0007 Set-up For Pipe Bursting Equipment *(33 01 30 23-0006)*

33 01 30 23-0008	EA	Initial Set-up And Final Equipment Removal For Up To 12" Underground Pipelines For Pipe Bursting Equipment	7,987.64
33 01 30 23-0009	EA	Initial Set-up And Final Equipment Removal For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment	11,981.46
33 01 30 23-0010	EA	Initial Set-up And Final Equipment Removal For > 24" To 36" Underground Pipelines For Pipe Bursting Equipment	19,969.11
33 01 30 23-0011	EA	Move And Set-up At Different Access/Location For Up To 12" Underground Pipelines For Pipe Bursting Equipment	2,995.36
33 01 30 23-0012	EA	Move And Set-up At Different Access/Location For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment	4,493.05
33 01 30 23-0013	EA	Move And Set-up At Different Access/Location For > 2" To 36" Underground Pipelines For Pipe Bursting Equipment	7,488.41
33 01 30 23-0014	EA	Move And Set-up Pipe Bursting Equipment For Laterals	1,996.91

33 01 30 23-0015 Pneumatic Head Pipe Bursting *(33 01 30 23-0006)*

33 01 30 23-0016	LF	4" Diameter, Pneumatic Head Pipe Bursting	28.40
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*2.27*
		For >150 To 200, Add	*1.36*
		For >100 To 150, Add	*2.72*
		For >75 To 100, Add	*4.09*
		For >50 To 75, Add	*5.45*
		For >25 To 50, Add	*7.26*
		For Up To 25, Add	*9.99*
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*2.27*
		For Bursting Ductile Iron Pipe, Add	*7.53*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0017	LF	6" Diameter, Pneumatic Head Pipe Bursting	32.75	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*2.81*	
		For >150 To 200, Add	*1.69*	
		For >100 To 150, Add	*3.38*	
		For >75 To 100, Add	*5.06*	
		For >50 To 75, Add	*6.75*	
		For >25 To 50, Add	*9.00*	
		For Up To 25, Add	*12.38*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*2.81*	
		For Bursting Ductile Iron Pipe, Add	*8.96*	
33 01 30 23-0018	LF	8" Diameter, Pneumatic Head Pipe Bursting	36.84	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*3.33*	
		For >150 To 200, Add	*2.00*	
		For >100 To 150, Add	*3.99*	
		For >75 To 100, Add	*5.99*	
		For >50 To 75, Add	*7.98*	
		For >25 To 50, Add	*10.64*	
		For Up To 25, Add	*14.63*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*3.33*	
		For Bursting Ductile Iron Pipe, Add	*10.31*	
33 01 30 23-0019	LF	10" Diameter, Pneumatic Head Pipe Bursting	42.12	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*3.99*	
		For >150 To 200, Add	*2.39*	
		For >100 To 150, Add	*4.78*	
		For >75 To 100, Add	*7.17*	
		For >50 To 75, Add	*9.56*	
		For >25 To 50, Add	*12.75*	
		For Up To 25, Add	*17.53*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*3.99*	
		For Bursting Ductile Iron Pipe, Add	*12.06*	
33 01 30 23-0020	LF	12" Diameter, Pneumatic Head Pipe Bursting	48.21	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*4.75*	
		For >150 To 200, Add	*2.85*	
		For >100 To 150, Add	*5.70*	
		For >75 To 100, Add	*8.54*	
		For >50 To 75, Add	*11.39*	
		For >25 To 50, Add	*15.19*	
		For Up To 25, Add	*20.88*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*4.75*	
		For Bursting Ductile Iron Pipe, Add	*14.07*	
33 01 30 23-0021	LF	15" Diameter, Pneumatic Head Pipe Bursting	53.34	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*4.90*	
		For >150 To 200, Add	*2.94*	
		For >100 To 150, Add	*5.88*	
		For >75 To 100, Add	*8.82*	
		For >50 To 75, Add	*11.76*	
		For >25 To 50, Add	*15.68*	
		For Up To 25, Add	*21.55*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*4.90*	
		For Bursting Ductile Iron Pipe, Add	*15.06*	
33 01 30 23-0022	LF	18" Diameter, Pneumatic Head Pipe Bursting	59.44	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*5.66*	
		For >150 To 200, Add	*3.40*	
		For >100 To 150, Add	*6.79*	
		For >75 To 100, Add	*10.19*	
		For >50 To 75, Add	*13.59*	
		For >25 To 50, Add	*18.12*	
		For Up To 25, Add	*24.91*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*5.66*	
		For Bursting Ductile Iron Pipe, Add	*17.07*	
33 01 30 23-0023	LF	21"/22" Diameter, Pneumatic Head Pipe Bursting	75.11	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*6.74*	
		For >150 To 200, Add	*4.04*	
		For >100 To 150, Add	*8.08*	
		For >75 To 100, Add	*12.12*	
		For >50 To 75, Add	*16.16*	
		For >25 To 50, Add	*21.55*	
		For Up To 25, Add	*29.63*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*6.74*	
		For Bursting Ductile Iron Pipe, Add	*20.96*	
33 01 30 23-0024	LF	24" Diameter, Pneumatic Head Pipe Bursting	92.44	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*8.90*	
		For >150 To 200, Add	*5.34*	
		For >100 To 150, Add	*10.68*	
		For >75 To 100, Add	*16.02*	
		For >50 To 75, Add	*21.36*	
		For >25 To 50, Add	*28.48*	
		For Up To 25, Add	*39.17*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*8.90*	
		For Bursting Ductile Iron Pipe, Add	*26.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0025	LF	30" Diameter, Pneumatic Head Pipe Bursting	102.16	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*9.23*	
		For >150 To 200, Add	*5.54*	
		For >100 To 150, Add	*11.08*	
		For >75 To 100, Add	*16.62*	
		For >50 To 75, Add	*22.16*	
		For >25 To 50, Add	*29.55*	
		For Up To 25, Add	*40.63*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*9.23*	
		For Bursting Ductile Iron Pipe, Add	*28.62*	
33 01 30 23-0026	LF	36" Diameter, Pneumatic Head Pipe Bursting	131.89	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*12.95*	
		For >150 To 200, Add	*7.77*	
		For >100 To 150, Add	*15.54*	
		For >75 To 100, Add	*23.31*	
		For >50 To 75, Add	*31.08*	
		For >25 To 50, Add	*41.44*	
		For Up To 25, Add	*56.98*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*12.95*	
		For Bursting Ductile Iron Pipe, Add	*38.43*	

33 01 30 23-0027 Static Head Pipe Bursting *(33 01 30 23-0006)*

33 01 30 23-0028	LF	4" Diameter, Static Head Pipe Bursting	37.23	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*3.37*	
		For >150 To 200, Add	*2.02*	
		For >100 To 150, Add	*4.05*	
		For >75 To 100, Add	*6.07*	
		For >50 To 75, Add	*8.10*	
		For >25 To 50, Add	*10.80*	
		For Up To 25, Add	*14.84*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*3.37*	
		For Bursting Ductile Iron Pipe, Add	*10.44*	
33 01 30 23-0029	LF	6" Diameter, Static Head Pipe Bursting	41.62	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*3.92*	
		For >150 To 200, Add	*2.35*	
		For >100 To 150, Add	*4.71*	
		For >75 To 100, Add	*7.06*	
		For >50 To 75, Add	*9.41*	
		For >25 To 50, Add	*12.55*	
		For Up To 25, Add	*17.26*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*3.92*	
		For Bursting Ductile Iron Pipe, Add	*11.89*	
33 01 30 23-0030	LF	8" Diameter, Static Head Pipe Bursting	46.69	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*4.56*	
		For >150 To 200, Add	*2.73*	
		For >100 To 150, Add	*5.47*	
		For >75 To 100, Add	*8.20*	
		For >50 To 75, Add	*10.94*	
		For >25 To 50, Add	*14.58*	
		For Up To 25, Add	*20.05*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*4.56*	
		For Bursting Ductile Iron Pipe, Add	*13.56*	
33 01 30 23-0031	LF	10" Diameter, Static Head Pipe Bursting	53.29	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*5.38*	
		For >150 To 200, Add	*3.23*	
		For >100 To 150, Add	*6.46*	
		For >75 To 100, Add	*9.69*	
		For >50 To 75, Add	*12.92*	
		For >25 To 50, Add	*17.22*	
		For Up To 25, Add	*23.68*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*5.38*	
		For Bursting Ductile Iron Pipe, Add	*15.74*	
33 01 30 23-0032	LF	12" Diameter, Static Head Pipe Bursting	60.89	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*6.33*	
		For >150 To 200, Add	*3.80*	
		For >100 To 150, Add	*7.60*	
		For >75 To 100, Add	*11.40*	
		For >50 To 75, Add	*15.20*	
		For >25 To 50, Add	*20.26*	
		For Up To 25, Add	*27.86*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*6.33*	
		For Bursting Ductile Iron Pipe, Add	*18.25*	
33 01 30 23-0033	LF	15" Diameter, Static Head Pipe Bursting	69.79	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*6.96*	
		For >150 To 200, Add	*4.17*	
		For >100 To 150, Add	*8.35*	
		For >75 To 100, Add	*12.52*	
		For >50 To 75, Add	*16.69*	
		For >25 To 50, Add	*22.26*	
		For Up To 25, Add	*30.60*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*6.96*	
		For Bursting Ductile Iron Pipe, Add	*20.48*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0034	LF	18" Diameter, Static Head Pipe Bursting	77.12	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*7.87*	
		For >150 To 200, Add	*4.72*	
		For >100 To 150, Add	*9.45*	
		For >75 To 100, Add	*14.17*	
		For >50 To 75, Add	*18.89*	
		For >25 To 50, Add	*25.19*	
		For Up To 25, Add	*34.63*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*7.87*	
		For Bursting Ductile Iron Pipe, Add	*22.90*	
33 01 30 23-0035	LF	21"/22" Diameter, Static Head Pipe Bursting	96.63	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*9.43*	
		For >150 To 200, Add	*5.66*	
		For >100 To 150, Add	*11.31*	
		For >75 To 100, Add	*16.97*	
		For >50 To 75, Add	*22.62*	
		For >25 To 50, Add	*30.16*	
		For Up To 25, Add	*41.47*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*9.43*	
		For Bursting Ductile Iron Pipe, Add	*28.07*	
33 01 30 23-0036	LF	24" Diameter, Static Head Pipe Bursting	124.94	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*12.96*	
		For >150 To 200, Add	*7.78*	
		For >100 To 150, Add	*15.56*	
		For >75 To 100, Add	*23.33*	
		For >50 To 75, Add	*31.11*	
		For >25 To 50, Add	*41.48*	
		For Up To 25, Add	*57.04*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*12.96*	
		For Bursting Ductile Iron Pipe, Add	*37.41*	
33 01 30 23-0037	LF	30" Diameter, Static Head Pipe Bursting	152.21	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*15.49*	
		For >150 To 200, Add	*9.29*	
		For >100 To 150, Add	*18.59*	
		For >75 To 100, Add	*27.88*	
		For >50 To 75, Add	*37.18*	
		For >25 To 50, Add	*49.57*	
		For Up To 25, Add	*68.16*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*15.49*	
		For Bursting Ductile Iron Pipe, Add	*45.14*	
33 01 30 23-0038	LF	36" Diameter, Static Head Pipe Bursting	183.64	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*19.42*	
		For >150 To 200, Add	*11.65*	
		For >100 To 150, Add	*23.30*	
		For >75 To 100, Add	*34.95*	
		For >50 To 75, Add	*46.61*	
		For >25 To 50, Add	*62.14*	
		For Up To 25, Add	*85.44*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*19.42*	
		For Bursting Ductile Iron Pipe, Add	*55.51*	

33 01 30 23-0039 Hydraulic Head Pipe Bursting *(33 01 30 23-0006)*

33 01 30 23-0040	LF	4" Diameter, Hydraulic Head Pipe Bursting	32.42	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*2.77*	
		For >150 To 200, Add	*1.66*	
		For >100 To 150, Add	*3.33*	
		For >75 To 100, Add	*4.99*	
		For >50 To 75, Add	*6.65*	
		For >25 To 50, Add	*8.87*	
		For Up To 25, Add	*12.20*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*2.77*	
		For Bursting Ductile Iron Pipe, Add	*8.86*	
33 01 30 23-0041	LF	6" Diameter, Hydraulic Head Pipe Bursting	36.32	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*3.26*	
		For >150 To 200, Add	*1.96*	
		For >100 To 150, Add	*3.91*	
		For >75 To 100, Add	*5.87*	
		For >50 To 75, Add	*7.82*	
		For >25 To 50, Add	*10.43*	
		For Up To 25, Add	*14.34*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*3.26*	
		For Bursting Ductile Iron Pipe, Add	*10.14*	
33 01 30 23-0042	LF	8" Diameter, Hydraulic Head Pipe Bursting	40.79	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*3.82*	
		For >150 To 200, Add	*2.29*	
		For >100 To 150, Add	*4.58*	
		For >75 To 100, Add	*6.87*	
		For >50 To 75, Add	*9.17*	
		For >25 To 50, Add	*12.22*	
		For Up To 25, Add	*16.80*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*3.82*	
		For Bursting Ductile Iron Pipe, Add	*11.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0043	LF	10" Diameter, Hydraulic Head Pipe Bursting	46.58	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*4.54*	
		For >150 To 200, Add	*2.73*	
		For >100 To 150, Add	*5.45*	
		For >75 To 100, Add	*8.18*	
		For >50 To 75, Add	*10.90*	
		For >25 To 50, Add	*14.54*	
		For Up To 25, Add	*19.99*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*4.54*	
		For Bursting Ductile Iron Pipe, Add	*13.53*	
33 01 30 23-0044	LF	12" Diameter, Hydraulic Head Pipe Bursting	53.29	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*5.38*	
		For >150 To 200, Add	*3.23*	
		For >100 To 150, Add	*6.46*	
		For >75 To 100, Add	*9.69*	
		For >50 To 75, Add	*12.92*	
		For >25 To 50, Add	*17.22*	
		For Up To 25, Add	*23.68*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*5.38*	
		For Bursting Ductile Iron Pipe, Add	*15.74*	
33 01 30 23-0045	LF	15" Diameter, Hydraulic Head Pipe Bursting	60.90	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*5.84*	
		For >150 To 200, Add	*3.51*	
		For >100 To 150, Add	*7.01*	
		For >75 To 100, Add	*10.52*	
		For >50 To 75, Add	*14.03*	
		For >25 To 50, Add	*18.70*	
		For Up To 25, Add	*25.71*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*5.84*	
		For Bursting Ductile Iron Pipe, Add	*17.55*	
33 01 30 23-0046	LF	18" Diameter, Hydraulic Head Pipe Bursting	68.10	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*6.74*	
		For >150 To 200, Add	*4.05*	
		For >100 To 150, Add	*8.09*	
		For >75 To 100, Add	*12.14*	
		For >50 To 75, Add	*16.19*	
		For >25 To 50, Add	*21.58*	
		For Up To 25, Add	*29.67*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*6.74*	
		For Bursting Ductile Iron Pipe, Add	*19.93*	
33 01 30 23-0047	LF	21"/22" Diameter, Hydraulic Head Pipe Bursting	85.84	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*8.08*	
		For >150 To 200, Add	*4.85*	
		For >100 To 150, Add	*9.69*	
		For >75 To 100, Add	*14.54*	
		For >50 To 75, Add	*19.38*	
		For >25 To 50, Add	*25.84*	
		For Up To 25, Add	*35.54*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*8.08*	
		For Bursting Ductile Iron Pipe, Add	*24.51*	
33 01 30 23-0048	LF	24" Diameter, Hydraulic Head Pipe Bursting	111.84	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*11.33*	
		For >150 To 200, Add	*6.80*	
		For >100 To 150, Add	*13.59*	
		For >75 To 100, Add	*20.39*	
		For >50 To 75, Add	*27.18*	
		For >25 To 50, Add	*36.24*	
		For Up To 25, Add	*49.84*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*11.33*	
		For Bursting Ductile Iron Pipe, Add	*33.09*	
33 01 30 23-0049	LF	30" Diameter, Hydraulic Head Pipe Bursting	137.54	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*13.66*	
		For >150 To 200, Add	*8.19*	
		For >100 To 150, Add	*16.39*	
		For >75 To 100, Add	*24.58*	
		For >50 To 75, Add	*32.78*	
		For >25 To 50, Add	*43.70*	
		For Up To 25, Add	*60.09*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*13.66*	
		For Bursting Ductile Iron Pipe, Add	*40.30*	
33 01 30 23-0050	LF	36" Diameter, Hydraulic Head Pipe Bursting	167.42	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	*17.39*	
		For >150 To 200, Add	*10.43*	
		For >100 To 150, Add	*20.87*	
		For >75 To 100, Add	*31.30*	
		For >50 To 75, Add	*41.74*	
		For >25 To 50, Add	*55.65*	
		For Up To 25, Add	*76.52*	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	*17.39*	
		For Bursting Ductile Iron Pipe, Add	*50.16*	

33 01 30 23-0051 Pipe Lining *(33 01 30 23-0001)*

33 01 30 23-0052 Pipe Fusion For High-Density Polyethylene (HDPE) Pipe Lining *(33 01 30 23-0051)*

Note: Per each joint.

33 01 30 23-0053	EA	4" To 15", Pipe Fusion For High-Density Polyethylene (HDPE) Pipe Lining	145.62	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0054	EA	>15" To 24", Pipe Fusion For High-Density Polyethylene (HDPE) Pipe Lining	167.09	
33 01 30 23-0055	EA	>24" To 36", Pipe Fusion For High-Density Polyethylene (HDPE) Pipe Lining	199.28	
33 01 30 23-0056		**High-Density Polyethylene (HDPE) Pipe Lining, DR 17** *(33 01 30 23-0051)* Note: Material to be installed behind bursting head. Excludes pipe joint fusion. See CSI section 33 01 30 23-0052 for pipe joint fusion.		
33 01 30 23-0057	LF	4" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	4.73	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-0.52*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*1.42*	
		For White Interior Pipe, Add	*0.96*	
		For Gray Interior Pipe, Add	*0.73*	
33 01 30 23-0058	LF	5" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	6.27	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-0.79*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*2.15*	
		For White Interior Pipe, Add	*1.45*	
		For Gray Interior Pipe, Add	*1.10*	
33 01 30 23-0059	LF	6" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	8.20	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-1.13*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*3.07*	
		For White Interior Pipe, Add	*2.07*	
		For Gray Interior Pipe, Add	*1.57*	
33 01 30 23-0060	LF	7.125" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	9.23	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-1.31*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*3.55*	
		For White Interior Pipe, Add	*2.40*	
		For Gray Interior Pipe, Add	*1.82*	
33 01 30 23-0061	LF	8" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	12.63	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-1.91*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*5.19*	
		For White Interior Pipe, Add	*3.50*	
		For Gray Interior Pipe, Add	*2.65*	
33 01 30 23-0062	LF	10" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	18.56	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-2.97*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*8.06*	
		For White Interior Pipe, Add	*5.44*	
		For Gray Interior Pipe, Add	*4.12*	
33 01 30 23-0063	LF	12" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	25.32	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-4.18*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*11.34*	
		For White Interior Pipe, Add	*7.66*	
		For Gray Interior Pipe, Add	*5.80*	
33 01 30 23-0064	LF	13.375" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	27.71	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-4.59*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*12.48*	
		For White Interior Pipe, Add	*8.42*	
		For Gray Interior Pipe, Add	*6.38*	
33 01 30 23-0065	LF	14" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	30.23	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-5.04*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*13.68*	
		For White Interior Pipe, Add	*9.23*	
		For Gray Interior Pipe, Add	*7.00*	
33 01 30 23-0066	LF	16" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	38.92	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-6.58*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*17.86*	
		For White Interior Pipe, Add	*12.05*	
		For Gray Interior Pipe, Add	*9.13*	
33 01 30 23-0067	LF	18" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	48.83	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-8.33*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*22.63*	
		For White Interior Pipe, Add	*15.27*	
		For Gray Interior Pipe, Add	*11.57*	
33 01 30 23-0068	LF	20" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	59.84	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-10.28*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*27.92*	
		For White Interior Pipe, Add	*18.84*	
		For Gray Interior Pipe, Add	*14.28*	
33 01 30 23-0069	LF	22" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	72.03	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-12.44*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*33.79*	
		For White Interior Pipe, Add	*22.80*	
		For Gray Interior Pipe, Add	*17.27*	
33 01 30 23-0070	LF	24" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	85.45	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-14.81*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*40.22*	
		For White Interior Pipe, Add	*27.14*	
		For Gray Interior Pipe, Add	*20.56*	
33 01 30 23-0071	LF	26" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	99.94	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-17.36*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*47.17*	
		For White Interior Pipe, Add	*31.83*	
		For Gray Interior Pipe, Add	*24.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0072	LF	28" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	115.74	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-20.14*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*54.72*	
		For White Interior Pipe, Add	*36.93*	
		For Gray Interior Pipe, Add	*27.98*	
33 01 30 23-0073	LF	30" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	132.73	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-23.12*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*62.82*	
		For White Interior Pipe, Add	*42.40*	
		For Gray Interior Pipe, Add	*32.12*	
33 01 30 23-0074	LF	32" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	150.92	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-26.30*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*71.46*	
		For White Interior Pipe, Add	*48.22*	
		For Gray Interior Pipe, Add	*36.53*	
33 01 30 23-0075	LF	34" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	185.79	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-32.46*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*88.18*	
		For White Interior Pipe, Add	*59.51*	
		For Gray Interior Pipe, Add	*45.08*	
33 01 30 23-0076	LF	36" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	191.35	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	*-33.29*	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	*90.45*	
		For White Interior Pipe, Add	*61.04*	
		For Gray Interior Pipe, Add	*46.24*	

33 01 30 23-0077 Re-Connection Of Non-Renewed Laterals *(33 01 30 23-0001)*

Note: Excludes earthwork excavation and backfill

33 01 30 23-0078 Re-Connection Of Laterals; Insert-A-Tee *(33 01 30 23-0077)*

Note: Includes cutting hole in pipe and excavation vacuum truck for exterior pipe lateral reconnection. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling, and back-fill material. See CSI section 01 74 19 00-0043 for hauling, 31 05 16 00-0001 for back-fill material.

33 01 30 23-0079	EA	Re-Connection Of Non-Renewed Lateral, 6 To 8" Main With 4" Inserta-Tee	1,378.46	
		For No Excavation, Deduct	*-907.12*	
33 01 30 23-0080	EA	Re-Connection Of Non-Renewed Lateral, 8" Main With 6" Inserta-Tee	1,547.94	
		For No Excavation, Deduct	*-1,020.50*	
33 01 30 23-0081	EA	Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 4" Inserta-Tee	1,633.94	
		For No Excavation, Deduct	*-1,077.20*	
33 01 30 23-0082	EA	Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 6" Inserta-Tee	1,719.94	
		For No Excavation, Deduct	*-1,133.90*	
33 01 30 23-0083	EA	Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 8" Inserta-Tee	1,853.48	
		For No Excavation, Deduct	*-1,190.59*	
33 01 30 23-0084	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 4" Inserta-Tee	1,737.46	
		For No Excavation, Deduct	*-1,133.90*	
33 01 30 23-0085	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 6" Inserta-Tee	1,825.96	
		For No Excavation, Deduct	*-1,190.59*	
33 01 30 23-0086	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 8" Inserta-Tee	1,949.48	
		For No Excavation, Deduct	*-1,247.28*	
33 01 30 23-0087	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 10" Inserta-Tee	2,243.17	
		For No Excavation, Deduct	*-1,303.97*	
33 01 30 23-0088	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 12" Inserta-Tee	2,359.20	
		For No Excavation, Deduct	*-1,360.67*	
33 01 30 23-0089	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 15" Inserta-Tee	2,805.53	
		For No Excavation, Deduct	*-1,417.37*	

33 01 30 23-0090 Re-Connection Of Laterals; Saddle Style *(33 01 30 23-0077)*

Note: Includes excavation vacuum truck for exterior pipe lateral reconnection, fusion to high-density polyethylene (HDPE) pipe for lateral. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling and back-fill material. See CSI section 01 74 19 00-0043 for hauling, 31 05 16 00-0001 for back-fill material.

33 01 30 23-0091	EA	Re-Connection Of Non-Renewed Lateral, 6" Main With 4" Or 6" Saddle Tap (Mueller H-615)	2,948.29	
		For No Excavation, Deduct	*-1,012.41*	
		For Strap-On Saddle Type Instead Of Fusion Weld	*-266.44*	
33 01 30 23-0092	EA	Re-Connection Of Non-Renewed Lateral, 8" Main With 4" Or 6" Saddle Tap (Mueller H-615)	3,240.06	
		For No Excavation, Deduct	*-1,052.90*	
		For Strap-On Saddle Type Instead Of Fusion Weld	*-251.02*	
33 01 30 23-0093	EA	Re-Connection Of Non-Renewed Lateral, 10" Main With 4" Or 6" Saddle Tap (Mueller H-615)	4,430.17	
		For No Excavation, Deduct	*-1,093.40*	
		For Strap-On Saddle Type Instead Of Fusion Weld	*-100.85*	
33 01 30 23-0094	EA	Re-Connection Of Non-Renewed Lateral, 12" Main With 4" Or 6" Saddle Tap (Mueller H-615)	4,673.14	
		For No Excavation, Deduct	*-1,214.89*	
		For Strap-On Saddle Type Instead Of Fusion Weld	*-149.45*	
33 01 30 23-0095	EA	Re-Connection Of Non-Renewed Lateral, 14" Main With 4" Or 6" Saddle Tap (Mueller H-615)	8,073.36	
		For No Excavation, Deduct	*-1,295.88*	
		For Strap-On Saddle Type Instead Of Fusion Weld	*303.89*	
33 01 30 23-0096	EA	Re-Connection Of Non-Renewed Lateral, 16" Main With 4" Or 6" Saddle Tap (Mueller H-615)	8,756.35	
		For No Excavation, Deduct	*-1,437.62*	
		For Strap-On Saddle Type Instead Of Fusion Weld	*307.12*	
33 01 30 23-0097	EA	Re-Connection Of Non-Renewed Lateral, 18" Main With 4" Or 6" Saddle Tap (Mueller H-615)	11,699.07	
		For No Excavation, Deduct	*-1,579.35*	
		For Strap-On Saddle Type Instead Of Fusion Weld	*649.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0098	EA	Re-Connection Of Non-Renewed Lateral, 20" Main With 4" Or 6" Saddle Tap (Mueller H-615)	11,204.02	
		For No Excavation, Deduct	*-1,781.84*	
		For Strap-On Saddle Type Instead Of Fusion Weld	*433.32*	
33 01 30 23-0099	EA	Re-Connection Of Non-Renewed Lateral, 24" Main With 4" Or 6" Saddle Tap (Mueller H-615)	13,597.09	
		For No Excavation, Deduct	*-2,105.81*	
		For Strap-On Saddle Type Instead Of Fusion Weld	*565.50*	

33 01 30 41 Cleaning of Sewers *(33 01 30)*

33 01 30 41-0001 Pipe Line Cleaning And Flushing *(33 01 30 41)*

Note: Includes flushing. Owner provided water. See CSI section 33 01 30 89-0001 for bypass pumping and piping.

33 01 30 41-0002 Pipe Line Cleaning *(33 01 30 41-0001)*

Note: Includes removal of all debris/waste. Excludes disposal.

33 01 30 41-0003 Set-up And Reinsertion For Hydro Jet *(33 01 30 41-0002)*

Note: Includes mobilization delivery, set-up, cleanup after use and return.

33 01 30 41-0004	EA	Initial Set-up And Final Equipment Removal For Up To 8" Jet Cleaning	1,540.53
33 01 30 41-0005	EA	Initial Set-up And Final Equipment Removal For >8" To 12" Jet Cleaning	2,310.79
33 01 30 41-0006	EA	Initial Set-up And Final Equipment Removal For >12" To 30" Jet Cleaning	3,081.07
33 01 30 41-0007	EA	Initial Set-up And Final Equipment Removal For >30" Jet Cleaning	4,108.08
33 01 30 41-0008	EA	Move And Set-up At Different Access/Location For Up To 8" Jet Cleaning	385.13
33 01 30 41-0009	EA	Move And Set-up At Different Access/Location For >8" To 12" Jet Cleaning	577.69
33 01 30 41-0010	EA	Move And Set-up At Different Access/Location For >12" To 30" Jet Cleaning	770.27
33 01 30 41-0011	EA	Move And Set-up At Different Access/Location For >30" Jet Cleaning	962.83

33 01 30 41-0012 Hydro Jet Cleaning Of Sewer And Water Pipelines *(33 01 30 41-0002)*

33 01 30 41-0013	LF	Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.14
		For >250 To 500, Deduct	*-0.21*
		For >500 To 1,000, Deduct	*-0.41*
		For >1,000 To 2,000, Deduct	*-0.62*
		For >2,000 To 5,000, Deduct	*-0.83*
		For >5,000, Deduct	*-1.04*
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*3.11*
33 01 30 41-0014	LF	6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.75
		For >250 To 500, Deduct	*-0.24*
		For >500 To 1,000, Deduct	*-0.48*
		For >1,000 To 2,000, Deduct	*-0.71*
		For >2,000 To 5,000, Deduct	*-0.95*
		For >5,000, Deduct	*-1.19*
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*3.56*
33 01 30 41-0015	LF	8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.58
		For >250 To 500, Deduct	*-0.28*
		For >500 To 1,000, Deduct	*-0.56*
		For >1,000 To 2,000, Deduct	*-0.84*
		For >2,000 To 5,000, Deduct	*-1.12*
		For >5,000, Deduct	*-1.40*
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*4.19*
33 01 30 41-0016	LF	10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	6.91
		For >250 To 500, Deduct	*-0.35*
		For >500 To 1,000, Deduct	*-0.69*
		For >1,000 To 2,000, Deduct	*-1.04*
		For >2,000 To 5,000, Deduct	*-1.38*
		For >5,000, Deduct	*-1.73*
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*5.18*
33 01 30 41-0017	LF	12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	7.83
		For >250 To 500, Deduct	*-0.39*
		For >500 To 1,000, Deduct	*-0.78*
		For >1,000 To 2,000, Deduct	*-1.17*
		For >2,000 To 5,000, Deduct	*-1.57*
		For >5,000, Deduct	*-1.96*
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*5.87*
33 01 30 41-0018	LF	>12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	9.04
		For >250 To 500, Deduct	*-0.45*
		For >500 To 1,000, Deduct	*-0.90*
		For >1,000 To 2,000, Deduct	*-1.36*
		For >2,000 To 5,000, Deduct	*-1.81*
		For >5,000, Deduct	*-2.26*
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*6.78*
33 01 30 41-0019	LF	>16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	10.88
		For >250 To 500, Deduct	*-0.54*
		For >500 To 1,000, Deduct	*-1.09*
		For >1,000 To 2,000, Deduct	*-1.63*
		For >2,000 To 5,000, Deduct	*-2.18*
		For >5,000, Deduct	*-2.72*
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*8.16*
33 01 30 41-0020	LF	>24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	12.34
		For >250 To 500, Deduct	*-0.62*
		For >500 To 1,000, Deduct	*-1.23*
		For >1,000 To 2,000, Deduct	*-1.85*
		For >2,000 To 5,000, Deduct	*-2.47*
		For >5,000, Deduct	*-3.09*
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*9.26*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0021	LF	>30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	14.59	
		For >250 To 500, Deduct	*-0.73*	
		For >500 To 1,000, Deduct	*-1.46*	
		For >1,000 To 2,000, Deduct	*-2.19*	
		For >2,000 To 5,000, Deduct	*-2.92*	
		For >5,000, Deduct	*-3.65*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*10.94*	
33 01 30 41-0022	LF	>42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	18.34	
		For >250 To 500, Deduct	*-0.92*	
		For >500 To 1,000, Deduct	*-1.83*	
		For >1,000 To 2,000, Deduct	*-2.75*	
		For >2,000 To 5,000, Deduct	*-3.67*	
		For >5,000, Deduct	*-4.59*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*13.76*	
33 01 30 41-0023	LF	>60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	21.39	
		For >250 To 500, Deduct	*-1.07*	
		For >500 To 1,000, Deduct	*-2.14*	
		For >1,000 To 2,000, Deduct	*-3.21*	
		For >2,000 To 5,000, Deduct	*-4.28*	
		For >5,000, Deduct	*-5.35*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*16.04*	

33 01 30 41-0024 Flushing Of Storm Water Pipelines *(33 01 30 41-0002)*

Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.

33 01 30 41-0025	LF	12" To 16" Diameter Pipe Line Flushing	1.55	
		For >250 To 500, Deduct	*-0.08*	
		For >500 To 1,000, Deduct	*-0.16*	
		For >1,000 To 2,000, Deduct	*-0.23*	
		For >2,000 To 5,000, Deduct	*-0.31*	
		For >5,000, Deduct	*-0.39*	
33 01 30 41-0026	LF	>16" To 24" Diameter Pipe Line Flushing	1.78	
		For >250 To 500, Deduct	*-0.09*	
		For >500 To 1,000, Deduct	*-0.18*	
		For >1,000 To 2,000, Deduct	*-0.27*	
		For >2,000 To 5,000, Deduct	*-0.36*	
		For >5,000, Deduct	*-0.45*	
33 01 30 41-0027	LF	>24" To 30" Diameter Pipe Line Flushing	2.09	
		For >250 To 500, Deduct	*-0.10*	
		For >500 To 1,000, Deduct	*-0.21*	
		For >1,000 To 2,000, Deduct	*-0.31*	
		For >2,000 To 5,000, Deduct	*-0.42*	
		For >5,000, Deduct	*-0.52*	
33 01 30 41-0028	LF	>30" To 42" Diameter Pipe Line Flushing	2.40	
		For >250 To 500, Deduct	*-0.12*	
		For >500 To 1,000, Deduct	*-0.24*	
		For >1,000 To 2,000, Deduct	*-0.36*	
		For >2,000 To 5,000, Deduct	*-0.48*	
		For >5,000, Deduct	*-0.60*	
33 01 30 41-0029	LF	>42" To 60" Diameter Pipe Line Flushing	3.20	
		For >250 To 500, Deduct	*-0.16*	
		For >500 To 1,000, Deduct	*-0.32*	
		For >1,000 To 2,000, Deduct	*-0.48*	
		For >2,000 To 5,000, Deduct	*-0.64*	
		For >5,000, Deduct	*-0.80*	

33 01 30 41-0030 Hydro Jet Cleaning Of Culverts *(33 01 30 41-0002)*

33 01 30 41-0031	LF	Jet Cleaning Of Culvert, 0-250 LF	19.17	
		For >250 To 500, Deduct	*-0.96*	
		For >500 To 1,000, Deduct	*-1.92*	
		For >1,000 To 2,000, Deduct	*-2.88*	
		For >2,000 To 5,000, Deduct	*-3.83*	
		For >5,000, Deduct	*-4.79*	

33 01 30 41-0032 Pipe Line Cleaning, Mechanical Method *(33 01 30 41-0001)*

Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.

33 01 30 41-0033	EA	Initial Set-up And Final Equipment Removal For Mechanical Cleaning	1,355.29	
33 01 30 41-0034	EA	Move And Set-up At Different Access/Location For Mechanical Cleaning	451.76	
33 01 30 41-0035	LF	Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	7.85	
		For >250 To 500, Deduct	*-0.38*	
		For >500 To 1,000, Deduct	*-0.75*	
		For >1,000 To 2,000, Deduct	*-1.13*	
		For >2,000 To 5,000, Deduct	*-1.51*	
		For >5,000, Deduct	*-1.88*	
33 01 30 41-0036	LF	6" Diameter Pipe Line Cleaning, Mechanical Method	10.32	
		For >250 To 500, Deduct	*-0.48*	
		For >500 To 1,000, Deduct	*-0.97*	
		For >1,000 To 2,000, Deduct	*-1.45*	
		For >2,000 To 5,000, Deduct	*-1.94*	
		For >5,000, Deduct	*-2.42*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0037	LF	8" Diameter Pipe Line Cleaning, Mechanical Method	12.08	
		For >250 To 500, Deduct	*-0.56*	
		For >500 To 1,000, Deduct	*-1.13*	
		For >1,000 To 2,000, Deduct	*-1.69*	
		For >2,000 To 5,000, Deduct	*-2.26*	
		For >5,000, Deduct	*-2.82*	
33 01 30 41-0038	LF	10" Diameter Pipe Line Cleaning, Mechanical Method	13.98	
		For >250 To 500, Deduct	*-0.65*	
		For >500 To 1,000, Deduct	*-1.30*	
		For >1,000 To 2,000, Deduct	*-1.95*	
		For >2,000 To 5,000, Deduct	*-2.61*	
		For >5,000, Deduct	*-3.26*	
33 01 30 41-0039	LF	12" Diameter Pipe Line Cleaning, Mechanical Method	15.23	
		For >250 To 500, Deduct	*-0.71*	
		For >500 To 1,000, Deduct	*-1.41*	
		For >1,000 To 2,000, Deduct	*-2.12*	
		For >2,000 To 5,000, Deduct	*-2.82*	
		For >5,000, Deduct	*-3.53*	
33 01 30 41-0040	LF	>12" To 16" Diameter Pipe Line Cleaning, Mechanical Method	17.56	
		For >250 To 500, Deduct	*-0.81*	
		For >500 To 1,000, Deduct	*-1.61*	
		For >1,000 To 2,000, Deduct	*-2.42*	
		For >2,000 To 5,000, Deduct	*-3.23*	
		For >5,000, Deduct	*-4.03*	
33 01 30 41-0041	LF	>16" To 24" Diameter Pipe Line Cleaning, Mechanical Method	22.16	
		For >250 To 500, Deduct	*-1.00*	
		For >500 To 1,000, Deduct	*-1.99*	
		For >1,000 To 2,000, Deduct	*-2.99*	
		For >2,000 To 5,000, Deduct	*-3.99*	
		For >5,000, Deduct	*-4.98*	
33 01 30 41-0042	LF	>24" To 30" Diameter Pipe Line Cleaning, Mechanical Method	25.40	
		For >250 To 500, Deduct	*-1.11*	
		For >500 To 1,000, Deduct	*-2.22*	
		For >1,000 To 2,000, Deduct	*-3.33*	
		For >2,000 To 5,000, Deduct	*-4.44*	
		For >5,000, Deduct	*-5.56*	
33 01 30 41-0043	LF	>30" To 42" Diameter Pipe Line Cleaning, Mechanical Method	29.54	
		For >250 To 500, Deduct	*-1.28*	
		For >500 To 1,000, Deduct	*-2.56*	
		For >1,000 To 2,000, Deduct	*-3.84*	
		For >2,000 To 5,000, Deduct	*-5.11*	
		For >5,000, Deduct	*-6.39*	
33 01 30 41-0044	LF	>42 To 60" Diameter Pipe Line Cleaning, Mechanical Method	38.65	
		For >250 To 500, Deduct	*-1.69*	
		For >500 To 1,000, Deduct	*-3.39*	
		For >1,000 To 2,000, Deduct	*-5.08*	
		For >2,000 To 5,000, Deduct	*-6.78*	
		For >5,000, Deduct	*-8.47*	
33 01 30 41-0045	LF	>60" Diameter Pipe Line Cleaning, Mechanical Method	44.01	
		For >250 To 500, Deduct	*-1.88*	
		For >500 To 1,000, Deduct	*-3.77*	
		For >1,000 To 2,000, Deduct	*-5.65*	
		For >2,000 To 5,000, Deduct	*-7.53*	
		For >5,000, Deduct	*-9.41*	

33 01 30 41-0046 Pipe Line Auguring/Rod Out Pipe *(33 01 30 41-0001)*

33 01 30 41-0047	EA	Initial Set-up And Final Equipment Removal For Auguring	1,355.29	
33 01 30 41-0048	EA	Move And Set-up At Different Location For Auguring	451.76	
33 01 30 41-0049	LF	Up To 4" Diameter Pipe Line Auguring/Rod Out	4.52	
		For >250 To 500, Deduct	*-0.23*	
		For >500 To 1,000, Deduct	*-0.45*	
		For >1,000 To 2,000, Deduct	*-0.68*	
		For >2,000 To 5,000, Deduct	*-0.90*	
		For >5,000, Deduct	*-1.13*	
33 01 30 41-0050	LF	6" Diameter Pipe Line Auguring/Rod Out	5.84	
		For >250 To 500, Deduct	*-0.29*	
		For >500 To 1,000, Deduct	*-0.58*	
		For >1,000 To 2,000, Deduct	*-0.88*	
		For >2,000 To 5,000, Deduct	*-1.17*	
		For >5,000, Deduct	*-1.46*	
33 01 30 41-0051	LF	8" Diameter Pipe Line Auguring/Rod Out	6.78	
		For >250 To 500, Deduct	*-0.34*	
		For >500 To 1,000, Deduct	*-0.68*	
		For >1,000 To 2,000, Deduct	*-1.02*	
		For >2,000 To 5,000, Deduct	*-1.36*	
		For >5,000, Deduct	*-1.70*	
33 01 30 41-0052	LF	10" Diameter Pipe Line Auguring/Rod Out	7.88	
		For >250 To 500, Deduct	*-0.39*	
		For >500 To 1,000, Deduct	*-0.79*	
		For >1,000 To 2,000, Deduct	*-1.18*	
		For >2,000 To 5,000, Deduct	*-1.58*	
		For >5,000, Deduct	*-1.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0053	LF	12" Diameter Pipe Line Auguring/Rod Out	8.47	
		For >250 To 500, Deduct	*-0.42*	
		For >500 To 1,000, Deduct	*-0.85*	
		For >1,000 To 2,000, Deduct	*-1.27*	
		For >2,000 To 5,000, Deduct	*-1.69*	
		For >5,000, Deduct	*-2.12*	
33 01 30 41-0054	LF	>12" To 16" Diameter Pipe Line Auguring/Rod Out	9.68	
		For >250 To 500, Deduct	*-0.48*	
		For >500 To 1,000, Deduct	*-0.97*	
		For >1,000 To 2,000, Deduct	*-1.45*	
		For >2,000 To 5,000, Deduct	*-1.94*	
		For >5,000, Deduct	*-2.42*	
33 01 30 41-0055	LF	>16" To 24" Diameter Pipe Line Auguring/Rod Out	11.89	
		For >250 To 500, Deduct	*-0.59*	
		For >500 To 1,000, Deduct	*-1.19*	
		For >1,000 To 2,000, Deduct	*-1.78*	
		For >2,000 To 5,000, Deduct	*-2.38*	
		For >5,000, Deduct	*-2.97*	
33 01 30 41-0056	LF	>24" To 30" Diameter Pipe Line Auguring/Rod Out	13.28	
		For >250 To 500, Deduct	*-0.66*	
		For >500 To 1,000, Deduct	*-1.33*	
		For >1,000 To 2,000, Deduct	*-1.99*	
		For >2,000 To 5,000, Deduct	*-2.66*	
		For >5,000, Deduct	*-3.32*	
33 01 30 41-0057	LF	>30" To 42" Diameter Pipe Line Auguring/Rod Out	15.40	
		For >250 To 500, Deduct	*-0.77*	
		For >500 To 1,000, Deduct	*-1.54*	
		For >1,000 To 2,000, Deduct	*-2.31*	
		For >2,000 To 5,000, Deduct	*-3.08*	
		For >5,000, Deduct	*-3.85*	
33 01 30 41-0058	LF	>42 To 60" Diameter Pipe Line Auguring/Rod Out	21.17	
		For >250 To 500, Deduct	*-1.06*	
		For >500 To 1,000, Deduct	*-2.12*	
		For >1,000 To 2,000, Deduct	*-3.18*	
		For >2,000 To 5,000, Deduct	*-4.23*	
		For >5,000, Deduct	*-5.29*	
33 01 30 41-0059	LF	>60" Diameter Pipe Line Auguring/Rod Out	22.59	
		For >250 To 500, Deduct	*-1.13*	
		For >500 To 1,000, Deduct	*-2.26*	
		For >1,000 To 2,000, Deduct	*-3.39*	
		For >2,000 To 5,000, Deduct	*-4.52*	
		For >5,000, Deduct	*-5.65*	

33 01 30 42 Cleaning of Manholes *(33 01 30)*

33 01 30 42-0001 Structure Cleaning And Flushing *(33 01 30 42)*

Note: Includes flushing. Owner provided water.

33 01 30 42-0002 Rod Out Structures And Other Hand Operations *(33 01 30 42-0001)*

33 01 30 42-0003	EA	Rod Out Waste Water Drain	57.42
33 01 30 42-0004	EA	Rod Out Sewer Catch Basin	114.86
33 01 30 42-0005	EA	Up To 6" Diameter Pipe, Rod Out Blockage	22.97
33 01 30 42-0006	EA	8" Diameter Pipe, Rod Out Blockage	25.26
33 01 30 42-0007	EA	10" Diameter Pipe, Rod Out Blockage	28.72
33 01 30 42-0008	EA	12" Diameter Pipe, Rod Out Blockage	33.31
33 01 30 42-0009	EA	>12" To 16" Diameter Pipe, Rod Out Blockage	39.05
33 01 30 42-0010	EA	>16" To 24" Diameter Pipe, Rod Out Blockage	45.94
33 01 30 42-0011	EA	>24" To 30" Diameter Pipe, Rod Out Blockage	53.98
33 01 30 42-0012	EA	>30" To 42" Diameter Pipe, Rod Out Blockage	62.02
33 01 30 42-0013	EA	>42" To 60" Diameter Pipe, Rod Out Blockage	72.36
33 01 30 42-0014	EA	>60" Diameter Pipe, Rod Out Blockage	86.14
33 01 30 42-0015	EA	Clean Out Debris From Entrance To Inlet Structure	287.14
33 01 30 42-0016	EA	3' To 4' Diameter, Clean Out Blocked Manhole By Hand	959.06
		For >10 To 100, Deduct	*-143.86*
		For >100 To 250, Deduct	*-215.79*
		For >250, Deduct	*-287.72*
33 01 30 42-0017	EA	5' To 6' Diameter, Clean Out Blocked Manhole By Hand	1,150.87
		For >10 To 100, Deduct	*-172.63*
		For >100 To 250, Deduct	*-258.95*
		For >250, Deduct	*-345.26*
33 01 30 42-0018	EA	Clean Out Blocked Catch Basin By Hand	575.44
		For >10 To 100, Deduct	*-86.32*
		For >100 To 250, Deduct	*-129.47*
		For >250, Deduct	*-172.63*

33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum *(33 01 30 42-0001)*

Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.

33 01 30 42-0020	EA	Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes	329.63
33 01 30 42-0021	EA	Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes	306.23
33 01 30 42-0022	EA	Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes	282.83
33 01 30 42-0023	EA	Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes	259.42
33 01 30 42-0024	EA	Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes	236.02

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 42-0025	EA	Jet/Vacuum Clean >250 Catch Basins Or Manholes	212.61	

33 01 30 43 Removal of Protruding Service Connection *(33 01 30)*

33 01 30 43-0001 Trim Protruding Service Taps *(33 01 30 43)*

33 01 30 43-0002	EA	Trim Protruding Service Tap, 4", Robotic	838.29	
33 01 30 43-0003	EA	Trim Protruding Service Tap, 6", Robotic	922.12	
33 01 30 43-0004	EA	Trim Protruding Service Tap, 8", Robotic	1,005.94	

33 01 30 51 Maintenance of Utilities *(33 01 30)*

33 01 30 51-0001 Pipe Repair *(33 01 30 51)*

Note: Excludes excavation and backfill where required See CSI section 31 23 00 00-0000 for excavation and backfill.

33 01 30 51-0002 Pipe Repair Clamp, Full Circle, Single Band *(33 01 30 51-0001)*

Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.

33 01 30 51-0003	EA	2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	132.61	
		For Stainless Steel Nuts And Bolts, Add	*20.64*	
33 01 30 51-0004	EA	2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	187.20	
		For Stainless Steel Nuts And Bolts, Add	*31.10*	
33 01 30 51-0005	EA	2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	215.79	
		For Stainless Steel Nuts And Bolts, Add	*36.63*	
33 01 30 51-0006	EA	2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	245.57	
		For Stainless Steel Nuts And Bolts, Add	*42.14*	
33 01 30 51-0007	EA	2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	142.93	
		For Stainless Steel Nuts And Bolts, Add	*22.41*	
33 01 30 51-0008	EA	2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	198.88	
		For Stainless Steel Nuts And Bolts, Add	*33.19*	
33 01 30 51-0009	EA	2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	227.55	
		For Stainless Steel Nuts And Bolts, Add	*38.59*	
33 01 30 51-0010	EA	2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	262.58	
		For Stainless Steel Nuts And Bolts, Add	*45.15*	
33 01 30 51-0011	EA	3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	153.39	
		For Stainless Steel Nuts And Bolts, Add	*24.52*	
33 01 30 51-0012	EA	3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	206.74	
		For Stainless Steel Nuts And Bolts, Add	*34.70*	
33 01 30 51-0013	EA	3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	238.62	
		For Stainless Steel Nuts And Bolts, Add	*40.68*	
33 01 30 51-0014	EA	3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	277.57	
		For Stainless Steel Nuts And Bolts, Add	*48.30*	
33 01 30 51-0015	EA	4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	172.65	
		For Stainless Steel Nuts And Bolts, Add	*27.88*	
33 01 30 51-0016	EA	4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	227.53	
		For Stainless Steel Nuts And Bolts, Add	*37.53*	
33 01 30 51-0017	EA	4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	275.80	
		For Stainless Steel Nuts And Bolts, Add	*45.68*	
33 01 30 51-0018	EA	4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	332.21	
		For Stainless Steel Nuts And Bolts, Add	*55.11*	
33 01 30 51-0019	EA	4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	432.96	
		For Stainless Steel Nuts And Bolts, Add	*74.02*	
33 01 30 51-0020	EA	4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	538.04	
		For Stainless Steel Nuts And Bolts, Add	*92.93*	
33 01 30 51-0021	EA	4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	655.96	
		For Stainless Steel Nuts And Bolts, Add	*113.99*	
33 01 30 51-0022	EA	6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	202.86	
		For Stainless Steel Nuts And Bolts, Add	*32.90*	
33 01 30 51-0023	EA	6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	268.81	
		For Stainless Steel Nuts And Bolts, Add	*44.63*	
33 01 30 51-0024	EA	6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	318.54	
		For Stainless Steel Nuts And Bolts, Add	*52.62*	
33 01 30 51-0025	EA	6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	373.56	
		For Stainless Steel Nuts And Bolts, Add	*61.15*	
33 01 30 51-0026	EA	6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	514.49	
		For Stainless Steel Nuts And Bolts, Add	*88.61*	
33 01 30 51-0027	EA	6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	625.34	
		For Stainless Steel Nuts And Bolts, Add	*108.06*	
33 01 30 51-0028	EA	6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	746.86	
		For Stainless Steel Nuts And Bolts, Add	*129.12*	
33 01 30 51-0029	EA	8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	266.84	
		For Stainless Steel Nuts And Bolts, Add	*39.36*	
33 01 30 51-0030	EA	8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	346.09	
		For Stainless Steel Nuts And Bolts, Add	*52.08*	
33 01 30 51-0031	EA	8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	417.60	
		For Stainless Steel Nuts And Bolts, Add	*63.02*	
33 01 30 51-0032	EA	8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	498.82	
		For Stainless Steel Nuts And Bolts, Add	*75.10*	
33 01 30 51-0033	EA	8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	659.34	
		For Stainless Steel Nuts And Bolts, Add	*104.04*	
33 01 30 51-0034	EA	8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	788.61	
		For Stainless Steel Nuts And Bolts, Add	*124.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0035	EA	8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	934.59	
		For Stainless Steel Nuts And Bolts, Add	*146.43*	
33 01 30 51-0036	EA	10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	311.17	
		For Stainless Steel Nuts And Bolts, Add	*47.90*	
33 01 30 51-0037	EA	10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	416.71	
		For Stainless Steel Nuts And Bolts, Add	*66.26*	
33 01 30 51-0038	EA	10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	491.18	
		For Stainless Steel Nuts And Bolts, Add	*77.47*	
33 01 30 51-0039	EA	10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	602.08	
		For Stainless Steel Nuts And Bolts, Add	*95.82*	
33 01 30 51-0040	EA	10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	787.64	
		For Stainless Steel Nuts And Bolts, Add	*129.97*	
33 01 30 51-0041	EA	10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	898.40	
		For Stainless Steel Nuts And Bolts, Add	*145.27*	
33 01 30 51-0042	EA	10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	1,152.73	
		For Stainless Steel Nuts And Bolts, Add	*191.65*	
33 01 30 51-0043	EA	12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	354.57	
		For Stainless Steel Nuts And Bolts, Add	*54.03*	
33 01 30 51-0044	EA	12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	462.00	
		For Stainless Steel Nuts And Bolts, Add	*71.86*	
33 01 30 51-0045	EA	12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	557.54	
		For Stainless Steel Nuts And Bolts, Add	*86.96*	
33 01 30 51-0046	EA	12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	685.17	
		For Stainless Steel Nuts And Bolts, Add	*108.06*	
33 01 30 51-0047	EA	12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	878.98	
		For Stainless Steel Nuts And Bolts, Add	*142.72*	
33 01 30 51-0048	EA	12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	1,034.53	
		For Stainless Steel Nuts And Bolts, Add	*166.67*	
33 01 30 51-0049	EA	12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	1,311.69	
		For Stainless Steel Nuts And Bolts, Add	*216.11*	

33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands *(33 01 30 51-0001)*

Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.

33 01 30 51-0051	EA	14.38" To 15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	774.17	
		For Stainless Steel Nuts And Bolts, Add	*207.89*	
33 01 30 51-0052	EA	14.38" To 15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,094.83	
		For Stainless Steel Nuts And Bolts, Add	*300.12*	
33 01 30 51-0053	EA	14.38" To 15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,472.83	
		For Stainless Steel Nuts And Bolts, Add	*407.00*	
33 01 30 51-0054	EA	14.38" To 15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,162.55	
		For Stainless Steel Nuts And Bolts, Add	*613.43*	
33 01 30 51-0055	EA	15.07" To 15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	812.63	
		For Stainless Steel Nuts And Bolts, Add	*218.12*	
33 01 30 51-0056	EA	15.07" To 15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,146.16	
		For Stainless Steel Nuts And Bolts, Add	*314.03*	
33 01 30 51-0057	EA	15.07" To 15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,538.25	
		For Stainless Steel Nuts And Bolts, Add	*424.56*	
33 01 30 51-0058	EA	15.07" To 15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,267.16	
		For Stainless Steel Nuts And Bolts, Add	*642.70*	
33 01 30 51-0059	EA	15.92" To 16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	833.95	
		For Stainless Steel Nuts And Bolts, Add	*222.53*	
33 01 30 51-0060	EA	15.92" To 16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,174.17	
		For Stainless Steel Nuts And Bolts, Add	*319.90*	
33 01 30 51-0061	EA	15.92" To 16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,579.42	
		For Stainless Steel Nuts And Bolts, Add	*434.08*	
33 01 30 51-0062	EA	15.92" To 16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,325.99	
		For Stainless Steel Nuts And Bolts, Add	*656.60*	
33 01 30 51-0063	EA	16.56" To 17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	856.44	
		For Stainless Steel Nuts And Bolts, Add	*226.92*	
33 01 30 51-0064	EA	16.56" To 17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,206.12	
		For Stainless Steel Nuts And Bolts, Add	*326.48*	
33 01 30 51-0065	EA	16.56" To 17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,619.84	
		For Stainless Steel Nuts And Bolts, Add	*442.13*	
33 01 30 51-0066	EA	16.56" To 17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,385.11	
		For Stainless Steel Nuts And Bolts, Add	*669.79*	
33 01 30 51-0067	EA	17.15" To 17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	876.81	
		For Stainless Steel Nuts And Bolts, Add	*230.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0068	EA	17.15" To 17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,233.72	
		For Stainless Steel Nuts And Bolts, Add	*331.60*	
33 01 30 51-0069	EA	17.15" To 17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,660.25	
		For Stainless Steel Nuts And Bolts, Add	*450.18*	
33 01 30 51-0070	EA	17.15" To 17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,438.97	
		For Stainless Steel Nuts And Bolts, Add	*680.76*	
33 01 30 51-0071	EA	17.82" To 18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	895.95	
		For Stainless Steel Nuts And Bolts, Add	*234.25*	
33 01 30 51-0072	EA	17.82" To 18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,261.72	
		For Stainless Steel Nuts And Bolts, Add	*337.45*	
33 01 30 51-0073	EA	17.82" To 18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,696.17	
		For Stainless Steel Nuts And Bolts, Add	*457.50*	
33 01 30 51-0074	EA	17.82" To 18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,474.20	
		For Stainless Steel Nuts And Bolts, Add	*686.25*	
33 01 30 51-0075	EA	18.46" To 19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	917.74	
		For Stainless Steel Nuts And Bolts, Add	*238.81*	
33 01 30 51-0076	EA	18.46" To 19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,294.61	
		For Stainless Steel Nuts And Bolts, Add	*344.77*	
33 01 30 51-0077	EA	18.46" To 19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,734.18	
		For Stainless Steel Nuts And Bolts, Add	*465.55*	
33 01 30 51-0078	EA	18.46" To 19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,549.25	
		For Stainless Steel Nuts And Bolts, Add	*705.65*	

33 01 30 51-0079 Repair Couplings and Fittings *(33 01 30 51-0001)*

33 01 30 51-0080 Compression Couplings And Fittings For Copper Pipe *(33 01 30 51-0079)*

Note: Includes gaskets. Dresser style 88.

33 01 30 51-0081 Copper Compression Repair Couplings *(33 01 30 51-0080)*

33 01 30 51-0082	EA	1/2" Copper Compression Repair Coupling	90.40
33 01 30 51-0083	EA	3/4" Copper Compression Repair Coupling	105.15
33 01 30 51-0084	EA	1" Copper Compression Repair Coupling	123.62
33 01 30 51-0085	EA	1-1/4" Copper Compression Repair Coupling	139.06
33 01 30 51-0086	EA	1-1/2" Copper Compression Repair Coupling	214.89

33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows *(33 01 30 51-0080)*

33 01 30 51-0088	EA	1/2" Copper Compression Repair 90 Degree Elbow	108.63
33 01 30 51-0089	EA	1" Copper Compression Repair 90 Degree Elbow	126.22
33 01 30 51-0090	EA	1-1/2" Copper Compression Repair 90 Degree Elbow	256.34
33 01 30 51-0091	EA	1" IPS x 1" CTS 90 Degree Plain End Street Elbow	101.81
33 01 30 51-0092	EA	3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow	91.49
33 01 30 51-0093	EA	1" IPS x 1" CTS 90 Degree Threaded End Street Elbow	107.09
33 01 30 51-0094	EA	1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow	132.47

33 01 30 51-0095 Copper Compression Repair Fitting, Tees *(33 01 30 51-0080)*

33 01 30 51-0096	EA	1/2" Copper Compression Repair Tee	199.27
33 01 30 51-0097	EA	3/4" Copper Compression Repair Tee	154.48
33 01 30 51-0098	EA	1" Copper Compression Repair Tee	183.53
33 01 30 51-0099	EA	1" F x 1" M x 1" CTS Street Tee	151.20

33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters *(33 01 30 51-0080)*

33 01 30 51-0101	EA	3/4" M x 1/2" CTS Male Adapter	93.98
33 01 30 51-0102	EA	3/4" M x 3/4" CTS Male Adapter	75.51
33 01 30 51-0103	EA	1" M x 1" CTS Male Adapter	86.06
33 01 30 51-0104	EA	1-1/4" M x 1" CTS Male Adapter	104.75
33 01 30 51-0105	EA	1-1/4" M x 1-1/4" CTS Male Adapter	125.25
33 01 30 51-0106	EA	1-1/2" M x 1" CTS Male Adapter	136.70

33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters *(33 01 30 51-0080)*

33 01 30 51-0108	EA	3/4" M x 3/4" CTS Female Adapter	110.14
33 01 30 51-0109	EA	1" M x 1" CTS Female Adapter	116.76

33 01 30 51-0110 Compression Couplings And Fittings For Steel Pipe, Cast Body *(33 01 30 51-0079)*

Note: Includes gaskets. Dresser style 90.

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0111		**Compression Couplings For Steel Pipe, Cast Body** *(33 01 30 51-0110)* Note: Includes gaskets.		
33 01 30 51-0112	EA	1/2" Cast Body, Compression Coupling, 5" Middle Ring	79.57	
33 01 30 51-0113	EA	3/4" Cast Body, Compression Coupling, 5" Middle Ring	79.49	
33 01 30 51-0114	EA	1" Cast Body, Compression Coupling, 5" Middle Ring	89.23	
33 01 30 51-0115	EA	1-1/4" Cast Body, Compression Coupling, 5" Middle Ring	99.08	
33 01 30 51-0116	EA	1-1/2" Cast Body, Compression Coupling, 5" Middle Ring	122.32	
33 01 30 51-0117	EA	2" Cast Body, Compression Coupling, 5" Middle Ring	149.02	
33 01 30 51-0118	EA	1/2" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	81.95	
33 01 30 51-0119	EA	3/4" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	82.11	
33 01 30 51-0120	EA	1" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	89.62	
33 01 30 51-0121	EA	1-1/4" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	100.30	
33 01 30 51-0122	EA	1-1/2" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	126.31	
33 01 30 51-0123	EA	2" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	150.78	
33 01 30 51-0124	EA	3/4" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	161.06	
33 01 30 51-0125	EA	1" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	188.44	
33 01 30 51-0126	EA	1-1/4" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	195.20	
33 01 30 51-0127	EA	1-1/2" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	218.23	
33 01 30 51-0128	EA	2" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	265.78	
33 01 30 51-0129		**Compression Reducing Couplings For Steel Pipe** *(33 01 30 51-0110)* Note: Includes armored gaskets.		
33 01 30 51-0130	EA	3/4" x 1/2" Compression Reducing Coupling	87.42	
33 01 30 51-0131	EA	1" x 3/4" Compression Reducing Coupling	91.81	
33 01 30 51-0132	EA	1-1/4" x 3/4" Compression Reducing Coupling	103.42	
33 01 30 51-0133	EA	1-1/4" x 1" Compression Reducing Coupling	107.80	
33 01 30 51-0134	EA	1-1/2" x 3/4" Compression Reducing Coupling	213.85	
33 01 30 51-0135	EA	1-1/2" x 1" Compression Reducing Coupling	129.12	
33 01 30 51-0136	EA	1-1/2" x 1-1/4" Compression Reducing Coupling	129.74	
33 01 30 51-0137	EA	2" x 3/4" Compression Reducing Coupling	255.35	
33 01 30 51-0138	EA	2" x 1" Compression Reducing Coupling	231.01	
33 01 30 51-0139	EA	2" x 1-1/4" Compression Reducing Coupling	173.09	
33 01 30 51-0140	EA	2" x 1-1/2" Compression Reducing Coupling	172.45	
33 01 30 51-0141		**Steel Compression Repair Fittings, Elbows** *(33 01 30 51-0110)* Note: Includes armored gaskets.		
33 01 30 51-0142	EA	1" Compression 45 Degree Elbow	147.68	
33 01 30 51-0143	EA	1-1/4" Compression 45 Degree Elbow	153.07	
33 01 30 51-0144	EA	1-1/2" Compression 45 Degree Elbow	198.11	
33 01 30 51-0145	EA	2" Compression 45 Degree Elbow	250.80	
33 01 30 51-0146	EA	3/4" Compression 90 Degree Elbow	97.52	
33 01 30 51-0147	EA	1" Compression 90 Degree Elbow	100.26	
33 01 30 51-0148	EA	1-1/4" Compression 90 Degree Elbow	117.65	
33 01 30 51-0149	EA	1-1/2" Compression 90 Degree Elbow	169.39	
33 01 30 51-0150	EA	2" Compression 90 Degree Elbow	184.40	
33 01 30 51-0151	EA	3/4" Plain End Compression 90 Degree Street Elbow	97.85	
33 01 30 51-0152	EA	1" Plain End Compression 90 Degree Street Elbow	84.47	
33 01 30 51-0153	EA	1-1/4" Plain End Compression 90 Degree Street Elbow	95.32	
33 01 30 51-0154	EA	1-1/2" Plain End Compression 90 Degree Street Elbow	120.69	
33 01 30 51-0155	EA	2" Plain End Compression 90 Degree Street Elbow	156.85	
33 01 30 51-0156	EA	3/4" Threaded End Compression 90 Degree Street Elbow	101.28	
33 01 30 51-0157	EA	1" Threaded End Compression 90 Degree Street Elbow	90.90	
33 01 30 51-0158	EA	1-1/4" Threaded End Compression 90 Degree Street Elbow	119.18	
33 01 30 51-0159	EA	1-1/2" Threaded End Compression 90 Degree Street Elbow	143.46	
33 01 30 51-0160	EA	2" Threaded End Compression 90 Degree Street Elbow	205.55	
33 01 30 51-0161		**Steel Compression Repair Fittings, Tees** *(33 01 30 51-0110)* Note: Includes armored gaskets.		
33 01 30 51-0162	EA	3/4" Compression Street Tee	104.87	
33 01 30 51-0163	EA	1" Compression Street Tee	123.53	
33 01 30 51-0164	EA	1-1/4" Compression Street Tee	123.46	
33 01 30 51-0165	EA	1-1/2" Compression Street Tee	141.41	
33 01 30 51-0166	EA	2" Compression Street Tee	218.63	
33 01 30 51-0167	EA	1-1/4" x 1-1/4" x 1" Compression Reducing Street Tee	122.22	
33 01 30 51-0168	EA	1-1/4" x 1" x 1-1/4" Compression Reducing Street Tee	128.44	
33 01 30 51-0169	EA	1-1/2" x 1-1/2" x 1" Compression Reducing Street Tee	160.90	
33 01 30 51-0170	EA	1-1/2" x 1-1/2" x 1-1/4" Compression Reducing Street Tee	189.00	
33 01 30 51-0171	EA	1-1/2" x 1" x 1-1/2" Compression Reducing Street Tee	190.24	
33 01 30 51-0172	EA	1-1/2" x 1-1/4" x 1-1/2" Compression Reducing Street Tee	158.25	
33 01 30 51-0173	EA	2" x 1-1/4" x 2" Compression Reducing Street Tee	212.56	
33 01 30 51-0174	EA	2" x 1-1/2" x 2" Compression Reducing Street Tee	243.78	
33 01 30 51-0175	EA	3/4" Welding Compression Street Tee	198.53	
33 01 30 51-0176	EA	1" Welding Compression Street Tee	197.67	
33 01 30 51-0177	EA	1-1/4" Welding Compression Street Tee	211.32	
33 01 30 51-0178	EA	1-1/2" Welding Compression Street Tee	253.79	
33 01 30 51-0179	EA	2" Welding Compression Street Tee	343.99	
33 01 30 51-0180	EA	3/4" Regular Compression Tee	144.05	
33 01 30 51-0181	EA	1" Regular Compression Tee	257.11	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0182	EA	1-1/4" Regular Compression Tee	270.64	
33 01 30 51-0183	EA	1-1/2" Regular Compression Tee	288.59	
33 01 30 51-0184	EA	2" Regular Compression Tee	318.70	
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Compression Reducing Tee	313.70	
33 01 30 51-0186		**Steel Compression Repair Fittings, Male Adapters** *(33 01 30 51-0110)*		
		Note: Includes armored gaskets.		
33 01 30 51-0187	EA	3/4" Compression Male Adapter	97.23	
33 01 30 51-0188	EA	1" Compression Male Adapter	108.05	
33 01 30 51-0189	EA	1-1/4" Compression Male Adapter	141.99	
33 01 30 51-0190	EA	1-1/2" Compression Male Adapter	159.41	
33 01 30 51-0191	EA	2" Compression Male Adapter	179.17	
33 01 30 51-0192	EA	1" x 1-1/4" Compression Male Adapter	141.19	
33 01 30 51-0193		**Steel Compression Repair Fittings, Line Caps** *(33 01 30 51-0110)*		
		Note: Includes armored gaskets.		
33 01 30 51-0194	EA	3/4" Compression Line Caps	52.45	
33 01 30 51-0195	EA	1" Compression Line Caps	61.06	
33 01 30 51-0196	EA	1-1/4" Compression Line Caps	69.82	
33 01 30 51-0197	EA	1-1/2" Compression Line Caps	81.88	
33 01 30 51-0198	EA	2" Compression Line Caps	101.28	
33 01 30 51-0199		**Couplings For Steel Pipe** *(33 01 30 51-0079)*		
		Note: Includes Buna S gasket. Dresser style 38		
33 01 30 51-0200	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket	77.32	
33 01 30 51-0201	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket	95.26	
33 01 30 51-0202	EA	1" Coupling, 5" Middle Ring With Buna S Gasket	108.89	
33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket	129.18	
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket	159.76	
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket	214.64	
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket	200.98	
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket	261.56	
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket	269.82	
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket	278.09	
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket	301.58	
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket	315.61	
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket	333.19	
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket	391.92	
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket	397.46	
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket	417.63	
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket	416.50	
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket	431.48	
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket	450.62	
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket	485.63	
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket	507.78	
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket	525.96	
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket	600.95	
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket	705.50	
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket	683.24	
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket	904.86	
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket	1,048.31	
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket	1,257.18	
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket	1,383.98	
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket	1,494.26	
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket	1,881.40	
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket	1,979.29	
33 01 30 51-0232		**Couplings For Steel Pipe** *(33 01 30 51-0079)*		
		Note: Includes Buna S gasket, protected. Dresser style 38.		
33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected	79.69	
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected	94.93	
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected	108.75	
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected	128.08	
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected	191.29	
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected	186.95	
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected	189.12	
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected	278.09	
33 01 30 51-0241	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected	286.35	
33 01 30 51-0242	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected	294.62	
33 01 30 51-0243	EA	4" Coupling, 4" Middle Ring With Buna S Gasket, Protected	324.10	
33 01 30 51-0244	EA	4" Coupling, 5" Middle Ring With Buna S Gasket, Protected	309.54	
33 01 30 51-0245	EA	4" Coupling, 7" Middle Ring With Buna S Gasket, Protected	317.20	
33 01 30 51-0246	EA	5" Coupling, 4" Middle Ring With Buna S Gasket, Protected	420.93	
33 01 30 51-0247	EA	5" Coupling, 5" Middle Ring With Buna S Gasket, Protected	424.98	
33 01 30 51-0248	EA	5" Coupling, 7" Middle Ring With Buna S Gasket, Protected	612.45	
33 01 30 51-0249	EA	6" Coupling, 4" Middle Ring With Buna S Gasket, Protected	425.37	
33 01 30 51-0250	EA	6" Coupling, 5" Middle Ring With Buna S Gasket, Protected	446.88	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0251	EA	6" Coupling, 7" Middle Ring With Buna S Gasket, Protected	455.18	
33 01 30 51-0252	EA	8" Coupling, 4" Middle Ring With Buna S Gasket, Protected	533.71	
33 01 30 51-0253	EA	8" Coupling, 5" Middle Ring With Buna S Gasket, Protected	541.87	
33 01 30 51-0254	EA	8" Coupling, 7" Middle Ring With Buna S Gasket, Protected	555.03	
33 01 30 51-0255	EA	10" Coupling, 5" Middle Ring With Buna S Gasket, Protected	620.78	
33 01 30 51-0256	EA	10" Coupling, 7" Middle Ring With Buna S Gasket, Protected	726.16	
33 01 30 51-0257	EA	12" Coupling, 5" Middle Ring With Buna S Gasket, Protected	703.91	
33 01 30 51-0258	EA	12" Coupling, 7" Middle Ring With Buna S Gasket, Protected	925.07	
33 01 30 51-0259	EA	14" Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,068.98	
33 01 30 51-0260	EA	16" Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,288.17	
33 01 30 51-0261	EA	18" Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,425.31	
33 01 30 51-0262	EA	20" Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,535.59	
33 01 30 51-0263	EA	22" Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,922.72	
33 01 30 51-0264	EA	24" Coupling, 7" Middle Ring With Buna S Gasket, Protected	2,020.61	

33 01 30 51-0265 Couplings For Steel Pipe *(33 01 30 51-0079)*

Note: Includes Buna N gasket, protected. Dresser style 38.

33 01 30 51-0266	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected	94.38	
33 01 30 51-0267	EA	3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected	109.89	
33 01 30 51-0268	EA	1" Coupling, 5" Middle Ring With Buna N Gasket, Protected	126.29	
33 01 30 51-0269	EA	1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	150.87	
33 01 30 51-0270	EA	2" Coupling, 4" Middle Ring With Buna N Gasket, Protected	191.29	
33 01 30 51-0271	EA	2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	228.19	
33 01 30 51-0272	EA	2" Coupling, 7" Middle Ring With Buna N Gasket, Protected	240.46	
33 01 30 51-0273	EA	3" Coupling, 4" Middle Ring With Buna N Gasket, Protected	278.09	
33 01 30 51-0274	EA	3" Coupling, 5" Middle Ring With Buna N Gasket, Protected	286.35	
33 01 30 51-0275	EA	3" Coupling, 7" Middle Ring With Buna N Gasket, Protected	294.62	
33 01 30 51-0276	EA	4" Coupling, 4" Middle Ring With Buna N Gasket, Protected	324.10	
33 01 30 51-0277	EA	4" Coupling, 5" Middle Ring With Buna N Gasket, Protected	353.57	
33 01 30 51-0278	EA	4" Coupling, 7" Middle Ring With Buna N Gasket, Protected	364.76	
33 01 30 51-0279	EA	5" Coupling, 4" Middle Ring With Buna N Gasket, Protected	420.93	
33 01 30 51-0280	EA	5" Coupling, 5" Middle Ring With Buna N Gasket, Protected	424.98	
33 01 30 51-0281	EA	5" Coupling, 7" Middle Ring With Buna N Gasket, Protected	472.30	
33 01 30 51-0282	EA	6" Coupling, 4" Middle Ring With Buna N Gasket, Protected	425.37	
33 01 30 51-0283	EA	6" Coupling, 5" Middle Ring With Buna N Gasket, Protected	446.88	
33 01 30 51-0284	EA	6" Coupling, 7" Middle Ring With Buna N Gasket, Protected	455.18	
33 01 30 51-0285	EA	8" Coupling, 4" Middle Ring With Buna N Gasket, Protected	533.71	
33 01 30 51-0286	EA	8" Coupling, 5" Middle Ring With Buna N Gasket, Protected	541.87	
33 01 30 51-0287	EA	8" Coupling, 7" Middle Ring With Buna N Gasket, Protected	555.03	
33 01 30 51-0288	EA	10" Coupling, 5" Middle Ring With Buna N Gasket, Protected	620.78	
33 01 30 51-0289	EA	10" Coupling, 7" Middle Ring With Buna N Gasket, Protected	726.16	
33 01 30 51-0290	EA	12" Coupling, 5" Middle Ring With Buna N Gasket, Protected	703.91	
33 01 30 51-0291	EA	12" Coupling, 7" Middle Ring With Buna N Gasket, Protected	925.07	
33 01 30 51-0292	EA	14" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,068.98	
33 01 30 51-0293	EA	16" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,257.18	
33 01 30 51-0294	EA	18" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,425.31	
33 01 30 51-0295	EA	20" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,535.59	
33 01 30 51-0296	EA	22" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,922.72	
33 01 30 51-0297	EA	24" Coupling, 7" Middle Ring With Buna N Gasket, Protected	2,020.61	

33 01 30 51-0298 Couplings For Steel Pipe *(33 01 30 51-0079)*

Note: Includes high temperature carded glass gasket, protected. Dresser style 38.

33 01 30 51-0299	EA	3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	161.73	
33 01 30 51-0300	EA	1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	173.69	
33 01 30 51-0301	EA	1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	179.78	
33 01 30 51-0302	EA	2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	278.69	
33 01 30 51-0303	EA	2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	301.29	
33 01 30 51-0304	EA	2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	312.80	
33 01 30 51-0305	EA	3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	357.74	
33 01 30 51-0306	EA	3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	355.14	
33 01 30 51-0307	EA	4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	394.89	
33 01 30 51-0308	EA	4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	406.09	
33 01 30 51-0309	EA	5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	553.29	
33 01 30 51-0310	EA	5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	568.15	
33 01 30 51-0311	EA	6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	587.09	
33 01 30 51-0312	EA	6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	596.94	
33 01 30 51-0313	EA	8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	604.60	
33 01 30 51-0314	EA	8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	752.47	
33 01 30 51-0315	EA	8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	812.78	
33 01 30 51-0316	EA	10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	826.55	
33 01 30 51-0317	EA	10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	826.35	
33 01 30 51-0318	EA	12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	1,055.85	
33 01 30 51-0319	EA	12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,101.27	
33 01 30 51-0320	EA	14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,276.50	
33 01 30 51-0321	EA	16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,608.06	
33 01 30 51-0322	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,565.80	
33 01 30 51-0323	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,748.40	
33 01 30 51-0324	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,895.86	
33 01 30 51-0325	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	2,061.93	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0326		**Grind Offset Joint** *(33 01 30 51-0001)*		
33 01 30 51-0327	EA	6" To 10", Grind Drop Offset Joint	502.98	
33 01 30 51-0328	EA	>10" To 15", Grind Drop Offset Joint	670.63	
33 01 30 51-0329	EA	>15" To 24", Grind Drop Offset Joint	838.29	
33 01 30 51-0330	EA	>24" To 30", Grind Drop Offset Joint	1,005.94	
33 01 30 51-0331		**Pipe Plugging** *(33 01 30 51-0001)*		
33 01 30 51-0332		**Gravity Bladder Type, Temporary Pipe Plugging** *(33 01 30 51-0331)*		
		Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.		
33 01 30 51-0333	EA	3/4" Bladder Type, Temporary Pipe Plug	86.59	
33 01 30 51-0334	EA	1" Bladder Type, Temporary Pipe Plug	92.62	
33 01 30 51-0335	EA	1-1/4" Bladder Type, Temporary Pipe Plug	99.72	
33 01 30 51-0336	EA	1-1/2" Bladder Type, Temporary Pipe Plug	106.40	
33 01 30 51-0337	EA	2" Bladder Type, Temporary Pipe Plug	112.86	
33 01 30 51-0338	EA	2-1/2" Bladder Type, Temporary Pipe Plug	119.96	
33 01 30 51-0339	EA	3" Bladder Type, Temporary Pipe Plug	128.71	
33 01 30 51-0340	EA	4" Bladder Type, Temporary Pipe Plug	141.50	
33 01 30 51-0341	EA	5" Bladder Type, Temporary Pipe Plug	153.40	
33 01 30 51-0342	EA	6" Bladder Type, Temporary Pipe Plug	171.23	
33 01 30 51-0343	EA	8" Bladder Type, Temporary Pipe Plug	190.02	
33 01 30 51-0344	EA	10" Bladder Type, Temporary Pipe Plug	220.30	
33 01 30 51-0345	EA	12" Bladder Type, Temporary Pipe Plug	255.82	
33 01 30 51-0346	EA	14" Bladder Type, Temporary Pipe Plug	304.82	
33 01 30 51-0347	EA	16" Bladder Type, Temporary Pipe Plug	367.39	
33 01 30 51-0348	EA	18" Bladder Type, Temporary Pipe Plug	442.52	
33 01 30 51-0349	EA	20" Bladder Type, Temporary Pipe Plug	525.95	
33 01 30 51-0350	EA	24" Bladder Type, Temporary Pipe Plug	606.61	
33 01 30 51-0351		**Hydra Stop, Hot Tapping Of Pressure Pipe** *(33 01 30 51-0331)*		
		Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.		
33 01 30 51-0352	EA	2" Hydra Stop, Line Stopper	2,959.35	
33 01 30 51-0353	EA	2-1/2" Hydra Stop, Line Stopper	3,713.33	
33 01 30 51-0354	EA	3" Hydra Stop, Line Stopper	4,552.20	
33 01 30 51-0355	EA	4" Hydra Stop, Line Stopper	5,494.27	
33 01 30 51-0356	EA	5" Hydra Stop, Line Stopper	6,195.83	
33 01 30 51-0357	EA	6" Hydra Stop, Line Stopper	7,316.00	
33 01 30 51-0358	EA	8" Hydra Stop, Line Stopper	8,017.58	
33 01 30 51-0359	EA	10" Hydra Stop, Line Stopper	9,137.71	
33 01 30 51-0360	EA	12" Hydra Stop, Line Stopper	10,257.90	
33 01 30 51-0361	EA	14" Hydra Stop, Line Stopper	11,448.79	
33 01 30 51-0362	EA	16" Hydra Stop, Line Stopper	13,064.18	
33 01 30 51-0363	EA	18" Hydra Stop, Line Stopper	14,891.73	
33 01 30 51-0364	EA	20" Hydra Stop, Line Stopper	17,709.53	
33 01 30 51-0365		**Aluminum Expansion Plugs** *(33 01 30 51-0331)*		
		Note: For use with PVC, clay Or cast iron drainage pipe.		
33 01 30 51-0366	EA	3" Pipe Aluminum Expansion Plug	82.15	
33 01 30 51-0367	EA	4" Pipe Aluminum Expansion Plug	118.67	
33 01 30 51-0368	EA	5" Pipe Aluminum Expansion Plug	133.79	
33 01 30 51-0369	EA	6" Pipe Aluminum Expansion Plug	203.81	
33 01 30 51-0370	EA	8" Pipe Aluminum Expansion Plug	209.39	
33 01 30 51-0371	EA	10" Pipe Aluminum Expansion Plug	262.21	
33 01 30 51-0372	EA	12" Pipe Aluminum Expansion Plug	355.10	
33 01 30 51-0373	EA	14" Pipe Aluminum Expansion Plug	574.49	
33 01 30 51-0374	EA	15" Pipe Aluminum Expansion Plug	622.29	
33 01 30 51-0375		**Pipe Repair Clamp, Stainless Steel, 3" Long** *(33 01 30 51-0001)*		
33 01 30 51-0376	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	181.92	
33 01 30 51-0377	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long	182.51	
33 01 30 51-0378	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long	184.00	
33 01 30 51-0379	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long	185.49	
33 01 30 51-0380	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	186.23	
33 01 30 51-0381	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long	188.46	
33 01 30 51-0382	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	190.69	
33 01 30 51-0383	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long	193.67	
33 01 30 51-0384	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long	334.06	
33 01 30 51-0385	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long	343.73	
33 01 30 51-0386	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long	350.43	
33 01 30 51-0387	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long	421.08	
33 01 30 51-0388	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long	430.00	
33 01 30 51-0389	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long	435.95	
33 01 30 51-0390	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long	444.88	
33 01 30 51-0391	EA	18" Diameter Pipe Clamp, Stainless Steel, 3" Long	453.80	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0392	EA	20" Diameter Pipe Clamp, Stainless Steel, 3" Long	465.70	
33 01 30 51-0393	EA	24" Diameter Pipe Clamp, Stainless Steel, 3" Long	486.53	
33 01 30 51-0394		PolySeal Pipe Coupler *(33 01 30 51-0001)*		
33 01 30 51-0395	EA	18" Diameter Pipe, PolySeal Repair Couplers (MarMac)	371.14	
33 01 30 51-0396	EA	24" Diameter Pipe, PolySeal Repair Couplers (MarMac)	419.04	
33 01 30 63		**Sewer and Pipe Joint Sealing** *(33 01 30)*		
33 01 30 63-0001		Joint Air Test *(33 01 30 63)*		
33 01 30 63-0002	EA	4" To 8", Joint Air Test	116.53	
33 01 30 63-0003	EA	10" To 15", Joint Air Test	135.95	
33 01 30 63-0004	EA	>15" To 21", Joint Air Test	155.37	
33 01 30 63-0005	EA	>21" To 24", Joint Air Test	194.22	
33 01 30 63-0006	EA	>24" To 27", Joint Air Test	233.06	
33 01 30 63-0007	EA	>27" To 36", Joint Air Test	271.91	
33 01 30 63-0008		Joint Seal And Joint Air Retest *(33 01 30 63)* Note: Includes grout.		
33 01 30 63-0009	EA	4" Joint Seal And Joint Air Retest Note: Includes up to 1 gallon of grout.	348.89	
33 01 30 63-0010	EA	6" Joint Seal And Joint Air Retest Note: Includes 1 gallon of grout.	387.73	
33 01 30 63-0011	EA	8" Joint Seal And Joint Air Retest Note: Includes 2 gallons of grout.	464.73	
33 01 30 63-0012	EA	10" Joint Seal And Joint Air Retest Note: Includes 2.5 gallons of grout.	522.65	
33 01 30 63-0013	EA	12" Joint Seal And Joint Air Retest Note: Includes 3 gallons of grout.	580.56	
33 01 30 63-0014	EA	15" Joint Seal And Joint Air Retest Note: Includes 3.75 gallons of grout.	686.86	
33 01 30 63-0015	EA	18" Joint Seal And Joint Air Retest Note: Includes 4.5 gallons of grout.	793.16	
33 01 30 63-0016	EA	21" Joint Seal And Joint Air Retest Note: Includes 5.25 gallons of grout.	899.46	
33 01 30 63-0017	EA	24" Joint Seal And Joint Air Retest Note: Includes 6 gallons of grout.	1,044.60	
33 01 30 63-0018	EA	27" Joint Seal And Joint Air Retest Note: Includes 6.75 gallons of grout.	1,189.73	
33 01 30 63-0019	EA	30" Joint Seal And Joint Air Retest Note: Includes 7.5 gallons of grout.	1,373.71	
33 01 30 63-0020	EA	36" Joint Seal And Joint Air Retest Note: Includes 9 gallons of grout.	1,586.31	
33 01 30 63-0021	GAL	Extra Grout Per Joint Note: For extra grout per joint required over listed amount.	193.51	
33 01 30 70		**Rehabilitation of Sewer Utilities** *(33 01 30)*		
33 01 30 70-0001		Cementitious Pipe Coatings By Hand *(33 01 30 70)* Note: To be used on repair areas to install the coating on the exposed portion of the pipe.		
33 01 30 70-0002	SF	Up To 1" Thick Cementitious Coating On Pipe, Troweled On	10.73	
33 01 30 70-0003	SF	>1" To 2" Thick Cementitious Coating On Pipe, Troweled On	16.22	
33 01 30 71		**Relining Sewers** *(33 01 30)*		
33 01 30 71-0001		Relining Underground Pipelines *(33 01 30 71)* Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hour response for owners' backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 71-0002		Lining Pipe With Rib Loc *(33 01 30 71-0001)*		
33 01 30 71-0003	LF	Lining 6" Pipe With Rib Loc	52.56	
		For >500 To 1,000, Deduct	*-1.33*	
		For >1,000 To 2,000, Deduct	*-2.59*	
		For >2,000 To 5,000, Deduct	*-3.99*	
		For >5,000, Deduct	*-5.95*	
33 01 30 71-0004	LF	Lining 8" Pipe With Rib Loc	58.49	
		For >500 To 1,000, Deduct	*-1.47*	
		For >1,000 To 2,000, Deduct	*-2.87*	
		For >2,000 To 5,000, Deduct	*-4.41*	
		For >5,000, Deduct	*-6.60*	
33 01 30 71-0005	LF	Lining 10" Pipe With Rib Loc	81.31	
		For >500 To 1,000, Deduct	*-1.95*	
		For >1,000 To 2,000, Deduct	*-3.83*	
		For >2,000 To 5,000, Deduct	*-5.86*	
		For >5,000, Deduct	*-8.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0006	LF	Lining 12" Pipe With Rib Loc	103.70	
		For >500 To 1,000, Deduct	*-2.44*	
		For >1,000 To 2,000, Deduct	*-4.78*	
		For >2,000 To 5,000, Deduct	*-7.31*	
		For >5,000, Deduct	*-11.27*	
33 01 30 71-0007	LF	Lining 15" Pipe With Rib Loc	138.28	
		For >500 To 1,000, Deduct	*-3.18*	
		For >1,000 To 2,000, Deduct	*-6.25*	
		For >2,000 To 5,000, Deduct	*-9.53*	
		For >5,000, Deduct	*-14.85*	
33 01 30 71-0008	LF	Lining 18" Pipe With Rib Loc	178.61	
		For >500 To 1,000, Deduct	*-4.04*	
		For >1,000 To 2,000, Deduct	*-7.96*	
		For >2,000 To 5,000, Deduct	*-12.11*	
		For >5,000, Deduct	*-19.02*	
33 01 30 71-0009	LF	Lining 21" Pipe With Rib Loc	224.59	
		For >500 To 1,000, Deduct	*-4.99*	
		For >1,000 To 2,000, Deduct	*-9.86*	
		For >2,000 To 5,000, Deduct	*-14.98*	
		For >5,000, Deduct	*-23.71*	
33 01 30 71-0010	LF	Lining 24" Pipe With Rib Loc	278.16	
		For >500 To 1,000, Deduct	*-6.11*	
		For >1,000 To 2,000, Deduct	*-12.08*	
		For >2,000 To 5,000, Deduct	*-18.33*	
		For >5,000, Deduct	*-29.18*	
33 01 30 71-0011	LF	Lining 27" Pipe With Rib Loc	333.42	
		For >500 To 1,000, Deduct	*-7.27*	
		For >1,000 To 2,000, Deduct	*-14.39*	
		For >2,000 To 5,000, Deduct	*-21.81*	
		For >5,000, Deduct	*-34.85*	
33 01 30 71-0012	LF	Lining 30" Pipe With Rib Loc	395.72	
		For >500 To 1,000, Deduct	*-8.58*	
		For >1,000 To 2,000, Deduct	*-17.00*	
		For >2,000 To 5,000, Deduct	*-25.75*	
		For >5,000, Deduct	*-41.25*	
33 01 30 71-0013	LF	Lining 36" Pipe With Rib Loc	504.96	
		For >500 To 1,000, Deduct	*-10.85*	
		For >1,000 To 2,000, Deduct	*-21.52*	
		For >2,000 To 5,000, Deduct	*-32.56*	
		For >5,000, Deduct	*-52.38*	
33 01 30 71-0014	LF	Lining 42" Pipe With Rib Loc	629.13	
		For >500 To 1,000, Deduct	*-13.44*	
		For >1,000 To 2,000, Deduct	*-26.67*	
		For >2,000 To 5,000, Deduct	*-40.33*	
		For >5,000, Deduct	*-65.06*	
33 01 30 71-0015	LF	Lining 48" Pipe With Rib Loc	770.25	
		For >500 To 1,000, Deduct	*-16.41*	
		For >1,000 To 2,000, Deduct	*-32.57*	
		For >2,000 To 5,000, Deduct	*-49.23*	
		For >5,000, Deduct	*-79.53*	
33 01 30 71-0016	LF	Lining 54" Pipe With Rib Loc	910.80	
		For >500 To 1,000, Deduct	*-19.42*	
		For >1,000 To 2,000, Deduct	*-38.54*	
		For >2,000 To 5,000, Deduct	*-58.26*	
		For >5,000, Deduct	*-94.09*	
33 01 30 71-0017	LF	Lining 60" Pipe With Rib Loc	1,074.48	
		For >500 To 1,000, Deduct	*-23.13*	
		For >1,000 To 2,000, Deduct	*-45.85*	
		For >2,000 To 5,000, Deduct	*-69.40*	
		For >5,000, Deduct	*-111.55*	
33 01 30 71-0018	LF	Lining 66" Pipe With Rib Loc	1,275.22	
		For >500 To 1,000, Deduct	*-28.09*	
		For >1,000 To 2,000, Deduct	*-55.53*	
		For >2,000 To 5,000, Deduct	*-84.26*	
		For >5,000, Deduct	*-133.98*	
33 01 30 71-0019	LF	Lining 72" Pipe With Rib Loc	1,538.72	
		For >500 To 1,000, Deduct	*-35.29*	
		For >1,000 To 2,000, Deduct	*-69.45*	
		For >2,000 To 5,000, Deduct	*-105.87*	
		For >5,000, Deduct	*-165.17*	

33 01 30 71-0020 Lining Pipe, Spray Applied With Structural Polyurethane *(33 01 30 71-0001)*
Note: Two part structural polyurethane.

33 01 30 71-0021 Mobilization And Set-up For Spray Applied Structural Polyurethane Lining *(33 01 30 71-0020)*

33 01 30 71-0022	EA	Initial Set-up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining	1,998.98

33 01 30 71-0023 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane *(33 01 30 71-0020)*
Note: Two part structural polyurethane.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0024	LF	36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	63.08	
		For Up To 75, Add	*13.69*	
		For >75 To 150, Add	*6.31*	
		For >500 To 1,000, Deduct	*-1.69*	
		For >1,000 To 2,000, Deduct	*-3.28*	
		For >2,000 To 5,000, Deduct	*-5.08*	
		For >5,000, Deduct	*-7.39*	
33 01 30 71-0025	LF	42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	73.59	
		For Up To 75, Add	*15.98*	
		For >75 To 150, Add	*7.36*	
		For >500 To 1,000, Deduct	*-1.97*	
		For >1,000 To 2,000, Deduct	*-3.82*	
		For >2,000 To 5,000, Deduct	*-5.92*	
		For >5,000, Deduct	*-8.62*	
33 01 30 71-0026	LF	48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	84.12	
		For Up To 75, Add	*18.26*	
		For >75 To 150, Add	*8.41*	
		For >500 To 1,000, Deduct	*-2.26*	
		For >1,000 To 2,000, Deduct	*-4.37*	
		For >2,000 To 5,000, Deduct	*-6.77*	
		For >5,000, Deduct	*-9.85*	
33 01 30 71-0027	LF	54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	94.63	
		For Up To 75, Add	*20.54*	
		For >75 To 150, Add	*9.46*	
		For >500 To 1,000, Deduct	*-2.54*	
		For >1,000 To 2,000, Deduct	*-4.92*	
		For >2,000 To 5,000, Deduct	*-7.62*	
		For >5,000, Deduct	*-11.08*	
33 01 30 71-0028	LF	60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	105.14	
		For Up To 75, Add	*22.83*	
		For >75 To 150, Add	*10.51*	
		For >500 To 1,000, Deduct	*-2.82*	
		For >1,000 To 2,000, Deduct	*-5.46*	
		For >2,000 To 5,000, Deduct	*-8.46*	
		For >5,000, Deduct	*-12.31*	
33 01 30 71-0029	LF	66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	115.65	
		For Up To 75, Add	*25.11*	
		For >75 To 150, Add	*11.57*	
		For >500 To 1,000, Deduct	*-3.10*	
		For >1,000 To 2,000, Deduct	*-6.01*	
		For >2,000 To 5,000, Deduct	*-9.31*	
		For >5,000, Deduct	*-13.54*	
33 01 30 71-0030	LF	72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	126.16	
		For Up To 75, Add	*27.39*	
		For >75 To 150, Add	*12.62*	
		For >500 To 1,000, Deduct	*-3.39*	
		For >1,000 To 2,000, Deduct	*-6.56*	
		For >2,000 To 5,000, Deduct	*-10.16*	
		For >5,000, Deduct	*-14.77*	
33 01 30 71-0031	LF	78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	136.68	
		For Up To 75, Add	*29.67*	
		For >75 To 150, Add	*13.67*	
		For >500 To 1,000, Deduct	*-3.67*	
		For >1,000 To 2,000, Deduct	*-7.10*	
		For >2,000 To 5,000, Deduct	*-11.00*	
		For >5,000, Deduct	*-16.00*	
33 01 30 71-0032	LF	84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	147.20	
		For Up To 75, Add	*31.96*	
		For >75 To 150, Add	*14.72*	
		For >500 To 1,000, Deduct	*-3.95*	
		For >1,000 To 2,000, Deduct	*-7.65*	
		For >2,000 To 5,000, Deduct	*-11.85*	
		For >5,000, Deduct	*-17.24*	
33 01 30 71-0033	LF	90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	157.70	
		For Up To 75, Add	*34.24*	
		For >75 To 150, Add	*15.77*	
		For >500 To 1,000, Deduct	*-4.23*	
		For >1,000 To 2,000, Deduct	*-8.19*	
		For >2,000 To 5,000, Deduct	*-12.70*	
		For >5,000, Deduct	*-18.47*	
33 01 30 71-0034	LF	96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	168.22	
		For Up To 75, Add	*36.52*	
		For >75 To 150, Add	*16.82*	
		For >500 To 1,000, Deduct	*-4.51*	
		For >1,000 To 2,000, Deduct	*-8.74*	
		For >2,000 To 5,000, Deduct	*-13.54*	
		For >5,000, Deduct	*-19.70*	
33 01 30 71-0035	LF	102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	178.73	
		For Up To 75, Add	*38.80*	
		For >75 To 150, Add	*17.87*	
		For >500 To 1,000, Deduct	*-4.80*	
		For >1,000 To 2,000, Deduct	*-9.29*	
		For >2,000 To 5,000, Deduct	*-14.39*	
		For >5,000, Deduct	*-20.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0036	LF	108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	189.25	
		For Up To 75, Add	*41.08*	
		For >75 To 150, Add	*18.93*	
		For >500 To 1,000, Deduct	*-5.08*	
		For >1,000 To 2,000, Deduct	*-9.83*	
		For >2,000 To 5,000, Deduct	*-15.24*	
		For >5,000, Deduct	*-22.16*	
33 01 30 71-0037	LF	114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	199.77	
		For Up To 75, Add	*43.37*	
		For >75 To 150, Add	*19.98*	
		For >500 To 1,000, Deduct	*-5.36*	
		For >1,000 To 2,000, Deduct	*-10.38*	
		For >2,000 To 5,000, Deduct	*-16.08*	
		For >5,000, Deduct	*-23.39*	
33 01 30 71-0038	LF	120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	210.27	
		For Up To 75, Add	*45.65*	
		For >75 To 150, Add	*21.03*	
		For >500 To 1,000, Deduct	*-5.64*	
		For >1,000 To 2,000, Deduct	*-10.93*	
		For >2,000 To 5,000, Deduct	*-16.93*	
		For >5,000, Deduct	*-24.62*	
33 01 30 71-0039	SF	Structure Lining, Spray Applied With 100 mil Structural Polyurethane	6.70	

33 01 30 71-0040 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane *(33 01 30 71-0020)*

Note: Two part structural polyurethane.

33 01 30 71-0041	LF	36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	85.02	
		For Up To 75, Add	*18.14*	
		For >75 To 150, Add	*8.50*	
		For >500 To 1,000, Deduct	*-2.15*	
		For >1,000 To 2,000, Deduct	*-4.20*	
		For >2,000 To 5,000, Deduct	*-6.46*	
		For >5,000, Deduct	*-9.64*	
33 01 30 71-0042	LF	42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	99.17	
		For Up To 75, Add	*21.16*	
		For >75 To 150, Add	*9.92*	
		For >500 To 1,000, Deduct	*-2.51*	
		For >1,000 To 2,000, Deduct	*-4.89*	
		For >2,000 To 5,000, Deduct	*-7.54*	
		For >5,000, Deduct	*-11.24*	
33 01 30 71-0043	LF	48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	113.35	
		For Up To 75, Add	*24.18*	
		For >75 To 150, Add	*11.34*	
		For >500 To 1,000, Deduct	*-2.87*	
		For >1,000 To 2,000, Deduct	*-5.59*	
		For >2,000 To 5,000, Deduct	*-8.62*	
		For >5,000, Deduct	*-12.85*	
33 01 30 71-0044	LF	54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	127.52	
		For Up To 75, Add	*27.21*	
		For >75 To 150, Add	*12.75*	
		For >500 To 1,000, Deduct	*-3.23*	
		For >1,000 To 2,000, Deduct	*-6.29*	
		For >2,000 To 5,000, Deduct	*-9.69*	
		For >5,000, Deduct	*-14.45*	
33 01 30 71-0045	LF	60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	141.70	
		For Up To 75, Add	*30.23*	
		For >75 To 150, Add	*14.17*	
		For >500 To 1,000, Deduct	*-3.59*	
		For >1,000 To 2,000, Deduct	*-6.99*	
		For >2,000 To 5,000, Deduct	*-10.77*	
		For >5,000, Deduct	*-16.06*	
33 01 30 71-0046	LF	66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	155.86	
		For Up To 75, Add	*33.25*	
		For >75 To 150, Add	*15.59*	
		For >500 To 1,000, Deduct	*-3.95*	
		For >1,000 To 2,000, Deduct	*-7.69*	
		For >2,000 To 5,000, Deduct	*-11.85*	
		For >5,000, Deduct	*-17.67*	
33 01 30 71-0047	LF	72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	170.03	
		For Up To 75, Add	*36.28*	
		For >75 To 150, Add	*17.00*	
		For >500 To 1,000, Deduct	*-4.31*	
		For >1,000 To 2,000, Deduct	*-8.39*	
		For >2,000 To 5,000, Deduct	*-12.93*	
		For >5,000, Deduct	*-19.27*	
33 01 30 71-0048	LF	78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	184.20	
		For Up To 75, Add	*39.30*	
		For >75 To 150, Add	*18.42*	
		For >500 To 1,000, Deduct	*-4.67*	
		For >1,000 To 2,000, Deduct	*-9.09*	
		For >2,000 To 5,000, Deduct	*-14.00*	
		For >5,000, Deduct	*-20.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0049	LF	84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	198.38	
		For Up To 75, Add	*42.32*	
		For >75 To 150, Add	*19.84*	
		For >500 To 1,000, Deduct	*-5.03*	
		For >1,000 To 2,000, Deduct	*-9.79*	
		For >2,000 To 5,000, Deduct	*-15.08*	
		For >5,000, Deduct	*-22.49*	
33 01 30 71-0050	LF	90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	212.53	
		For Up To 75, Add	*45.34*	
		For >75 To 150, Add	*21.25*	
		For >500 To 1,000, Deduct	*-5.39*	
		For >1,000 To 2,000, Deduct	*-10.49*	
		For >2,000 To 5,000, Deduct	*-16.16*	
		For >5,000, Deduct	*-24.09*	
33 01 30 71-0051	LF	96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	226.71	
		For Up To 75, Add	*48.37*	
		For >75 To 150, Add	*22.67*	
		For >500 To 1,000, Deduct	*-5.74*	
		For >1,000 To 2,000, Deduct	*-11.19*	
		For >2,000 To 5,000, Deduct	*-17.23*	
		For >5,000, Deduct	*-25.70*	
33 01 30 71-0052	LF	102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	240.88	
		For Up To 75, Add	*51.39*	
		For >75 To 150, Add	*24.09*	
		For >500 To 1,000, Deduct	*-6.10*	
		For >1,000 To 2,000, Deduct	*-11.89*	
		For >2,000 To 5,000, Deduct	*-18.31*	
		For >5,000, Deduct	*-27.30*	
33 01 30 71-0053	LF	108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	255.05	
		For Up To 75, Add	*54.42*	
		For >75 To 150, Add	*25.51*	
		For >500 To 1,000, Deduct	*-6.46*	
		For >1,000 To 2,000, Deduct	*-12.59*	
		For >2,000 To 5,000, Deduct	*-19.39*	
		For >5,000, Deduct	*-28.91*	
33 01 30 71-0054	LF	114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	269.21	
		For Up To 75, Add	*57.44*	
		For >75 To 150, Add	*26.92*	
		For >500 To 1,000, Deduct	*-6.82*	
		For >1,000 To 2,000, Deduct	*-13.28*	
		For >2,000 To 5,000, Deduct	*-20.46*	
		For >5,000, Deduct	*-30.51*	
33 01 30 71-0055	LF	120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	283.38	
		For Up To 75, Add	*60.46*	
		For >75 To 150, Add	*28.34*	
		For >500 To 1,000, Deduct	*-7.18*	
		For >1,000 To 2,000, Deduct	*-13.98*	
		For >2,000 To 5,000, Deduct	*-21.54*	
		For >5,000, Deduct	*-32.12*	
33 01 30 71-0056	SF	Structure Lining, Spray Applied With 150 mil Structural Polyurethane	9.02	

33 01 30 71-0057 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane *(33 01 30 71-0020)*

Note: Two part structural polyurethane.

33 01 30 71-0058	LF	36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	106.93	
		For Up To 75, Add	*22.58*	
		For >75 To 150, Add	*10.69*	
		For >500 To 1,000, Deduct	*-2.62*	
		For >1,000 To 2,000, Deduct	*-5.11*	
		For >2,000 To 5,000, Deduct	*-7.85*	
		For >5,000, Deduct	*-11.89*	
33 01 30 71-0059	LF	42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	124.76	
		For Up To 75, Add	*26.35*	
		For >75 To 150, Add	*12.48*	
		For >500 To 1,000, Deduct	*-3.05*	
		For >1,000 To 2,000, Deduct	*-5.97*	
		For >2,000 To 5,000, Deduct	*-9.16*	
		For >5,000, Deduct	*-13.87*	
33 01 30 71-0060	LF	48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	142.58	
		For Up To 75, Add	*30.11*	
		For >75 To 150, Add	*14.26*	
		For >500 To 1,000, Deduct	*-3.49*	
		For >1,000 To 2,000, Deduct	*-6.82*	
		For >2,000 To 5,000, Deduct	*-10.47*	
		For >5,000, Deduct	*-15.85*	
33 01 30 71-0061	LF	54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	160.41	
		For Up To 75, Add	*33.87*	
		For >75 To 150, Add	*16.04*	
		For >500 To 1,000, Deduct	*-3.93*	
		For >1,000 To 2,000, Deduct	*-7.67*	
		For >2,000 To 5,000, Deduct	*-11.78*	
		For >5,000, Deduct	*-17.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0062	LF	60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	178.21	
		For Up To 75, Add	*37.63*	
		For >75 To 150, Add	*17.82*	
		For >500 To 1,000, Deduct	*-4.36*	
		For >1,000 To 2,000, Deduct	*-8.52*	
		For >2,000 To 5,000, Deduct	*-13.08*	
		For >5,000, Deduct	*-19.81*	
33 01 30 71-0063	LF	66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	196.03	
		For Up To 75, Add	*41.40*	
		For >75 To 150, Add	*19.60*	
		For >500 To 1,000, Deduct	*-4.80*	
		For >1,000 To 2,000, Deduct	*-9.37*	
		For >2,000 To 5,000, Deduct	*-14.39*	
		For >5,000, Deduct	*-21.79*	
33 01 30 71-0064	LF	72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	213.86	
		For Up To 75, Add	*45.16*	
		For >75 To 150, Add	*21.39*	
		For >500 To 1,000, Deduct	*-5.23*	
		For >1,000 To 2,000, Deduct	*-10.23*	
		For >2,000 To 5,000, Deduct	*-15.70*	
		For >5,000, Deduct	*-23.78*	
33 01 30 71-0065	LF	78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	231.68	
		For Up To 75, Add	*48.92*	
		For >75 To 150, Add	*23.17*	
		For >500 To 1,000, Deduct	*-5.67*	
		For >1,000 To 2,000, Deduct	*-11.08*	
		For >2,000 To 5,000, Deduct	*-17.01*	
		For >5,000, Deduct	*-25.76*	
33 01 30 71-0066	LF	84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	249.50	
		For Up To 75, Add	*52.69*	
		For >75 To 150, Add	*24.95*	
		For >500 To 1,000, Deduct	*-6.11*	
		For >1,000 To 2,000, Deduct	*-11.93*	
		For >2,000 To 5,000, Deduct	*-18.32*	
		For >5,000, Deduct	*-27.74*	
33 01 30 71-0067	LF	90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	267.32	
		For Up To 75, Add	*56.45*	
		For >75 To 150, Add	*26.73*	
		For >500 To 1,000, Deduct	*-6.54*	
		For >1,000 To 2,000, Deduct	*-12.78*	
		For >2,000 To 5,000, Deduct	*-19.62*	
		For >5,000, Deduct	*-29.72*	
33 01 30 71-0068	LF	96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	285.15	
		For Up To 75, Add	*60.22*	
		For >75 To 150, Add	*28.52*	
		For >500 To 1,000, Deduct	*-6.98*	
		For >1,000 To 2,000, Deduct	*-13.64*	
		For >2,000 To 5,000, Deduct	*-20.93*	
		For >5,000, Deduct	*-31.70*	
33 01 30 71-0069	LF	102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	302.96	
		For Up To 75, Add	*63.98*	
		For >75 To 150, Add	*30.30*	
		For >500 To 1,000, Deduct	*-7.41*	
		For >1,000 To 2,000, Deduct	*-14.49*	
		For >2,000 To 5,000, Deduct	*-22.24*	
		For >5,000, Deduct	*-33.68*	
33 01 30 71-0070	LF	108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	320.78	
		For Up To 75, Add	*67.74*	
		For >75 To 150, Add	*32.08*	
		For >500 To 1,000, Deduct	*-7.85*	
		For >1,000 To 2,000, Deduct	*-15.34*	
		For >2,000 To 5,000, Deduct	*-23.55*	
		For >5,000, Deduct	*-35.66*	
33 01 30 71-0071	LF	114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	338.61	
		For Up To 75, Add	*71.51*	
		For >75 To 150, Add	*33.86*	
		For >500 To 1,000, Deduct	*-8.29*	
		For >1,000 To 2,000, Deduct	*-16.19*	
		For >2,000 To 5,000, Deduct	*-24.86*	
		For >5,000, Deduct	*-37.64*	
33 01 30 71-0072	LF	120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	356.43	
		For Up To 75, Add	*75.27*	
		For >75 To 150, Add	*35.64*	
		For >500 To 1,000, Deduct	*-8.72*	
		For >1,000 To 2,000, Deduct	*-17.04*	
		For >2,000 To 5,000, Deduct	*-26.16*	
		For >5,000, Deduct	*-39.63*	
33 01 30 71-0073	SF	Structure Lining, Spray Applied With 200 mil Structural Polyurethane	11.34	

33 01 30 71-0074 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane *(33 01 30 71-0020)*

Note: Two part structural polyurethane.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0075	LF	36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	128.94	
		For Up To 75, Add	*27.05*	
		For >75 To 150, Add	*12.89*	
		For >500 To 1,000, Deduct	*-3.08*	
		For >1,000 To 2,000, Deduct	*-6.04*	
		For >2,000 To 5,000, Deduct	*-9.24*	
		For >5,000, Deduct	*-14.15*	
33 01 30 71-0076	LF	42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	150.44	
		For Up To 75, Add	*31.56*	
		For >75 To 150, Add	*15.04*	
		For >500 To 1,000, Deduct	*-3.60*	
		For >1,000 To 2,000, Deduct	*-7.04*	
		For >2,000 To 5,000, Deduct	*-10.79*	
		For >5,000, Deduct	*-16.51*	
33 01 30 71-0077	LF	48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	171.93	
		For Up To 75, Add	*36.06*	
		For >75 To 150, Add	*17.19*	
		For >500 To 1,000, Deduct	*-4.11*	
		For >1,000 To 2,000, Deduct	*-8.05*	
		For >2,000 To 5,000, Deduct	*-12.33*	
		For >5,000, Deduct	*-18.87*	
33 01 30 71-0078	LF	54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	193.42	
		For Up To 75, Add	*40.57*	
		For >75 To 150, Add	*19.34*	
		For >500 To 1,000, Deduct	*-4.62*	
		For >1,000 To 2,000, Deduct	*-9.06*	
		For >2,000 To 5,000, Deduct	*-13.87*	
		For >5,000, Deduct	*-21.23*	
33 01 30 71-0079	LF	60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	214.92	
		For Up To 75, Add	*45.08*	
		For >75 To 150, Add	*21.49*	
		For >500 To 1,000, Deduct	*-5.14*	
		For >1,000 To 2,000, Deduct	*-10.06*	
		For >2,000 To 5,000, Deduct	*-15.41*	
		For >5,000, Deduct	*-23.59*	
33 01 30 71-0080	LF	66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	236.40	
		For Up To 75, Add	*49.59*	
		For >75 To 150, Add	*23.64*	
		For >500 To 1,000, Deduct	*-5.65*	
		For >1,000 To 2,000, Deduct	*-11.07*	
		For >2,000 To 5,000, Deduct	*-16.95*	
		For >5,000, Deduct	*-25.95*	
33 01 30 71-0081	LF	72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	257.90	
		For Up To 75, Add	*54.10*	
		For >75 To 150, Add	*25.79*	
		For >500 To 1,000, Deduct	*-6.16*	
		For >1,000 To 2,000, Deduct	*-12.08*	
		For >2,000 To 5,000, Deduct	*-18.49*	
		For >5,000, Deduct	*-28.31*	
33 01 30 71-0082	LF	78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	279.39	
		For Up To 75, Add	*58.60*	
		For >75 To 150, Add	*27.94*	
		For >500 To 1,000, Deduct	*-6.68*	
		For >1,000 To 2,000, Deduct	*-13.08*	
		For >2,000 To 5,000, Deduct	*-20.03*	
		For >5,000, Deduct	*-30.66*	
33 01 30 71-0083	LF	84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	300.87	
		For Up To 75, Add	*63.11*	
		For >75 To 150, Add	*30.09*	
		For >500 To 1,000, Deduct	*-7.19*	
		For >1,000 To 2,000, Deduct	*-14.09*	
		For >2,000 To 5,000, Deduct	*-21.57*	
		For >5,000, Deduct	*-33.02*	
33 01 30 71-0084	LF	90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	322.36	
		For Up To 75, Add	*67.62*	
		For >75 To 150, Add	*32.24*	
		For >500 To 1,000, Deduct	*-7.70*	
		For >1,000 To 2,000, Deduct	*-15.09*	
		For >2,000 To 5,000, Deduct	*-23.11*	
		For >5,000, Deduct	*-35.38*	
33 01 30 71-0085	LF	96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	343.85	
		For Up To 75, Add	*72.12*	
		For >75 To 150, Add	*34.39*	
		For >500 To 1,000, Deduct	*-8.22*	
		For >1,000 To 2,000, Deduct	*-16.10*	
		For >2,000 To 5,000, Deduct	*-24.65*	
		For >5,000, Deduct	*-37.74*	
33 01 30 71-0086	LF	102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	365.34	
		For Up To 75, Add	*76.63*	
		For >75 To 150, Add	*36.53*	
		For >500 To 1,000, Deduct	*-8.73*	
		For >1,000 To 2,000, Deduct	*-17.11*	
		For >2,000 To 5,000, Deduct	*-26.20*	
		For >5,000, Deduct	*-40.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0087	LF	108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	386.84	
		For Up To 75, Add	*81.14*	
		For >75 To 150, Add	*38.68*	
		For >500 To 1,000, Deduct	*-9.25*	
		For >1,000 To 2,000, Deduct	*-18.11*	
		For >2,000 To 5,000, Deduct	*-27.74*	
		For >5,000, Deduct	*-42.46*	
33 01 30 71-0088	LF	114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	408.33	
		For Up To 75, Add	*85.65*	
		For >75 To 150, Add	*40.83*	
		For >500 To 1,000, Deduct	*-9.76*	
		For >1,000 To 2,000, Deduct	*-19.12*	
		For >2,000 To 5,000, Deduct	*-29.28*	
		For >5,000, Deduct	*-44.82*	
33 01 30 71-0089	LF	120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	429.83	
		For Up To 75, Add	*90.16*	
		For >75 To 150, Add	*42.98*	
		For >500 To 1,000, Deduct	*-10.27*	
		For >1,000 To 2,000, Deduct	*-20.13*	
		For >2,000 To 5,000, Deduct	*-30.82*	
		For >5,000, Deduct	*-47.18*	
33 01 30 71-0090	SF	Structure Lining, Spray Applied With 250 mil Structural Polyurethane	13.68	

33 01 30 71-0091 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane *(33 01 30 71-0020)*

Note: Two part structural polyurethane.

33 01 30 71-0092	LF	36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	151.10	
		For Up To 75, Add	*31.54*	
		For >75 To 150, Add	*15.11*	
		For >500 To 1,000, Deduct	*-3.55*	
		For >1,000 To 2,000, Deduct	*-6.97*	
		For >2,000 To 5,000, Deduct	*-10.65*	
		For >5,000, Deduct	*-16.43*	
33 01 30 71-0093	LF	42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	176.29	
		For Up To 75, Add	*36.80*	
		For >75 To 150, Add	*17.63*	
		For >500 To 1,000, Deduct	*-4.14*	
		For >1,000 To 2,000, Deduct	*-8.13*	
		For >2,000 To 5,000, Deduct	*-12.43*	
		For >5,000, Deduct	*-19.17*	
33 01 30 71-0094	LF	48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	201.48	
		For Up To 75, Add	*42.06*	
		For >75 To 150, Add	*20.15*	
		For >500 To 1,000, Deduct	*-4.74*	
		For >1,000 To 2,000, Deduct	*-9.29*	
		For >2,000 To 5,000, Deduct	*-14.21*	
		For >5,000, Deduct	*-21.91*	
33 01 30 71-0095	LF	54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	226.66	
		For Up To 75, Add	*47.32*	
		For >75 To 150, Add	*22.67*	
		For >500 To 1,000, Deduct	*-5.33*	
		For >1,000 To 2,000, Deduct	*-10.46*	
		For >2,000 To 5,000, Deduct	*-15.98*	
		For >5,000, Deduct	*-24.65*	
33 01 30 71-0096	LF	60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	251.85	
		For Up To 75, Add	*52.58*	
		For >75 To 150, Add	*25.19*	
		For >500 To 1,000, Deduct	*-5.92*	
		For >1,000 To 2,000, Deduct	*-11.62*	
		For >2,000 To 5,000, Deduct	*-17.76*	
		For >5,000, Deduct	*-27.39*	
33 01 30 71-0097	LF	66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	277.04	
		For Up To 75, Add	*57.84*	
		For >75 To 150, Add	*27.70*	
		For >500 To 1,000, Deduct	*-6.51*	
		For >1,000 To 2,000, Deduct	*-12.78*	
		For >2,000 To 5,000, Deduct	*-19.53*	
		For >5,000, Deduct	*-30.13*	
33 01 30 71-0098	LF	72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	302.22	
		For Up To 75, Add	*63.09*	
		For >75 To 150, Add	*30.22*	
		For >500 To 1,000, Deduct	*-7.10*	
		For >1,000 To 2,000, Deduct	*-13.94*	
		For >2,000 To 5,000, Deduct	*-21.31*	
		For >5,000, Deduct	*-32.87*	
33 01 30 71-0099	LF	78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	327.41	
		For Up To 75, Add	*68.35*	
		For >75 To 150, Add	*32.74*	
		For >500 To 1,000, Deduct	*-7.70*	
		For >1,000 To 2,000, Deduct	*-15.10*	
		For >2,000 To 5,000, Deduct	*-23.09*	
		For >5,000, Deduct	*-35.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0100	LF	84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	352.57	
		For Up To 75, Add	*73.60*	
		For >75 To 150, Add	*35.26*	
		For >500 To 1,000, Deduct	*-8.29*	
		For >1,000 To 2,000, Deduct	*-16.26*	
		For >2,000 To 5,000, Deduct	*-24.86*	
		For >5,000, Deduct	*-38.35*	
33 01 30 71-0101	LF	90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	377.77	
		For Up To 75, Add	*78.86*	
		For >75 To 150, Add	*37.78*	
		For >500 To 1,000, Deduct	*-8.88*	
		For >1,000 To 2,000, Deduct	*-17.43*	
		For >2,000 To 5,000, Deduct	*-26.64*	
		For >5,000, Deduct	*-41.09*	
33 01 30 71-0102	LF	96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	402.95	
		For Up To 75, Add	*84.12*	
		For >75 To 150, Add	*40.30*	
		For >500 To 1,000, Deduct	*-9.47*	
		For >1,000 To 2,000, Deduct	*-18.59*	
		For >2,000 To 5,000, Deduct	*-28.41*	
		For >5,000, Deduct	*-43.82*	
33 01 30 71-0103	LF	102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	428.14	
		For Up To 75, Add	*89.38*	
		For >75 To 150, Add	*42.81*	
		For >500 To 1,000, Deduct	*-10.06*	
		For >1,000 To 2,000, Deduct	*-19.75*	
		For >2,000 To 5,000, Deduct	*-30.19*	
		For >5,000, Deduct	*-46.56*	
33 01 30 71-0104	LF	108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	453.32	
		For Up To 75, Add	*94.64*	
		For >75 To 150, Add	*45.33*	
		For >500 To 1,000, Deduct	*-10.65*	
		For >1,000 To 2,000, Deduct	*-20.91*	
		For >2,000 To 5,000, Deduct	*-31.96*	
		For >5,000, Deduct	*-49.30*	
33 01 30 71-0105	LF	114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	478.52	
		For Up To 75, Add	*99.90*	
		For >75 To 150, Add	*47.85*	
		For >500 To 1,000, Deduct	*-11.25*	
		For >1,000 To 2,000, Deduct	*-22.08*	
		For >2,000 To 5,000, Deduct	*-33.74*	
		For >5,000, Deduct	*-52.04*	
33 01 30 71-0106	LF	120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	503.70	
		For Up To 75, Add	*105.15*	
		For >75 To 150, Add	*50.37*	
		For >500 To 1,000, Deduct	*-11.84*	
		For >1,000 To 2,000, Deduct	*-23.24*	
		For >2,000 To 5,000, Deduct	*-35.52*	
		For >5,000, Deduct	*-54.78*	
33 01 30 71-0107	SF	Structure Lining, Spray Applied With 300 mil Structural Polyurethane	16.03	

33 01 30 71-0108 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane *(33 01 30 71-0020)*

Note: Two part structural polyurethane.

33 01 30 71-0109	LF	36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	195.50	
		For Up To 75, Add	*40.57*	
		For >75 To 150, Add	*19.55*	
		For >500 To 1,000, Deduct	*-4.50*	
		For >1,000 To 2,000, Deduct	*-8.85*	
		For >2,000 To 5,000, Deduct	*-13.50*	
		For >5,000, Deduct	*-21.02*	
33 01 30 71-0110	LF	42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	228.08	
		For Up To 75, Add	*47.33*	
		For >75 To 150, Add	*22.81*	
		For >500 To 1,000, Deduct	*-5.25*	
		For >1,000 To 2,000, Deduct	*-10.32*	
		For >2,000 To 5,000, Deduct	*-15.74*	
		For >5,000, Deduct	*-24.52*	
33 01 30 71-0111	LF	48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	260.65	
		For Up To 75, Add	*54.09*	
		For >75 To 150, Add	*26.07*	
		For >500 To 1,000, Deduct	*-6.00*	
		For >1,000 To 2,000, Deduct	*-11.80*	
		For >2,000 To 5,000, Deduct	*-17.99*	
		For >5,000, Deduct	*-28.03*	
33 01 30 71-0112	LF	54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	293.24	
		For Up To 75, Add	*60.85*	
		For >75 To 150, Add	*29.32*	
		For >500 To 1,000, Deduct	*-6.75*	
		For >1,000 To 2,000, Deduct	*-13.27*	
		For >2,000 To 5,000, Deduct	*-20.24*	
		For >5,000, Deduct	*-31.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0113	LF	60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	325.82	
		For Up To 75, Add	*67.62*	
		For >75 To 150, Add	*32.58*	
		For >500 To 1,000, Deduct	*-7.50*	
		For >1,000 To 2,000, Deduct	*-14.75*	
		For >2,000 To 5,000, Deduct	*-22.49*	
		For >5,000, Deduct	*-35.03*	
33 01 30 71-0114	LF	66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	358.40	
		For Up To 75, Add	*74.38*	
		For >75 To 150, Add	*35.84*	
		For >500 To 1,000, Deduct	*-8.25*	
		For >1,000 To 2,000, Deduct	*-16.22*	
		For >2,000 To 5,000, Deduct	*-24.74*	
		For >5,000, Deduct	*-38.54*	
33 01 30 71-0115	LF	72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	390.98	
		For Up To 75, Add	*81.14*	
		For >75 To 150, Add	*39.10*	
		For >500 To 1,000, Deduct	*-9.00*	
		For >1,000 To 2,000, Deduct	*-17.70*	
		For >2,000 To 5,000, Deduct	*-26.99*	
		For >5,000, Deduct	*-42.04*	
33 01 30 71-0116	LF	78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	423.56	
		For Up To 75, Add	*87.90*	
		For >75 To 150, Add	*42.36*	
		For >500 To 1,000, Deduct	*-9.75*	
		For >1,000 To 2,000, Deduct	*-19.17*	
		For >2,000 To 5,000, Deduct	*-29.24*	
		For >5,000, Deduct	*-45.54*	
33 01 30 71-0117	LF	84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	456.14	
		For Up To 75, Add	*94.66*	
		For >75 To 150, Add	*45.61*	
		For >500 To 1,000, Deduct	*-10.50*	
		For >1,000 To 2,000, Deduct	*-20.65*	
		For >2,000 To 5,000, Deduct	*-31.49*	
		For >5,000, Deduct	*-49.05*	
33 01 30 71-0118	LF	90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	488.73	
		For Up To 75, Add	*101.42*	
		For >75 To 150, Add	*48.87*	
		For >500 To 1,000, Deduct	*-11.25*	
		For >1,000 To 2,000, Deduct	*-22.12*	
		For >2,000 To 5,000, Deduct	*-33.74*	
		For >5,000, Deduct	*-52.55*	
33 01 30 71-0119	LF	96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	521.31	
		For Up To 75, Add	*108.18*	
		For >75 To 150, Add	*52.13*	
		For >500 To 1,000, Deduct	*-12.00*	
		For >1,000 To 2,000, Deduct	*-23.60*	
		For >2,000 To 5,000, Deduct	*-35.99*	
		For >5,000, Deduct	*-56.05*	
33 01 30 71-0120	LF	102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	553.90	
		For Up To 75, Add	*114.95*	
		For >75 To 150, Add	*55.39*	
		For >500 To 1,000, Deduct	*-12.75*	
		For >1,000 To 2,000, Deduct	*-25.07*	
		For >2,000 To 5,000, Deduct	*-38.24*	
		For >5,000, Deduct	*-59.56*	
33 01 30 71-0121	LF	108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	586.48	
		For Up To 75, Add	*121.71*	
		For >75 To 150, Add	*58.65*	
		For >500 To 1,000, Deduct	*-13.49*	
		For >1,000 To 2,000, Deduct	*-26.55*	
		For >2,000 To 5,000, Deduct	*-40.48*	
		For >5,000, Deduct	*-63.06*	
33 01 30 71-0122	LF	114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	619.06	
		For Up To 75, Add	*128.47*	
		For >75 To 150, Add	*61.91*	
		For >500 To 1,000, Deduct	*-14.24*	
		For >1,000 To 2,000, Deduct	*-28.02*	
		For >2,000 To 5,000, Deduct	*-42.73*	
		For >5,000, Deduct	*-66.56*	
33 01 30 71-0123	LF	120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	651.64	
		For Up To 75, Add	*135.23*	
		For >75 To 150, Add	*65.16*	
		For >500 To 1,000, Deduct	*-14.99*	
		For >1,000 To 2,000, Deduct	*-29.50*	
		For >2,000 To 5,000, Deduct	*-44.98*	
		For >5,000, Deduct	*-70.07*	
33 01 30 71-0124	SF	Structure Lining, Spray Applied With 400 mil Structural Polyurethane	20.74	

33 01 30 71-0125 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane *(33 01 30 71-0020)*
Note: Two part structural polyurethane.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0126	LF	36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	240.27	
		For Up To 75, Add	*49.69*	
		For >75 To 150, Add	*24.03*	
		For >500 To 1,000, Deduct	*-5.46*	
		For >1,000 To 2,000, Deduct	*-10.75*	
		For >2,000 To 5,000, Deduct	*-16.38*	
		For >5,000, Deduct	*-25.66*	
33 01 30 71-0127	LF	42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	280.32	
		For Up To 75, Add	*57.97*	
		For >75 To 150, Add	*28.03*	
		For >500 To 1,000, Deduct	*-6.37*	
		For >1,000 To 2,000, Deduct	*-12.55*	
		For >2,000 To 5,000, Deduct	*-19.11*	
		For >5,000, Deduct	*-29.94*	
33 01 30 71-0128	LF	48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	320.36	
		For Up To 75, Add	*66.25*	
		For >75 To 150, Add	*32.04*	
		For >500 To 1,000, Deduct	*-7.28*	
		For >1,000 To 2,000, Deduct	*-14.34*	
		For >2,000 To 5,000, Deduct	*-21.84*	
		For >5,000, Deduct	*-34.21*	
33 01 30 71-0129	LF	54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	360.42	
		For Up To 75, Add	*74.54*	
		For >75 To 150, Add	*36.04*	
		For >500 To 1,000, Deduct	*-8.19*	
		For >1,000 To 2,000, Deduct	*-16.13*	
		For >2,000 To 5,000, Deduct	*-24.57*	
		For >5,000, Deduct	*-38.49*	
33 01 30 71-0130	LF	60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	400.47	
		For Up To 75, Add	*82.82*	
		For >75 To 150, Add	*40.05*	
		For >500 To 1,000, Deduct	*-9.10*	
		For >1,000 To 2,000, Deduct	*-17.93*	
		For >2,000 To 5,000, Deduct	*-27.30*	
		For >5,000, Deduct	*-42.77*	
33 01 30 71-0131	LF	66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	440.51	
		For Up To 75, Add	*91.10*	
		For >75 To 150, Add	*44.05*	
		For >500 To 1,000, Deduct	*-10.01*	
		For >1,000 To 2,000, Deduct	*-19.72*	
		For >2,000 To 5,000, Deduct	*-30.03*	
		For >5,000, Deduct	*-47.05*	
33 01 30 71-0132	LF	72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	480.56	
		For Up To 75, Add	*99.38*	
		For >75 To 150, Add	*48.06*	
		For >500 To 1,000, Deduct	*-10.92*	
		For >1,000 To 2,000, Deduct	*-21.51*	
		For >2,000 To 5,000, Deduct	*-32.76*	
		For >5,000, Deduct	*-51.32*	
33 01 30 71-0133	LF	78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	520.60	
		For Up To 75, Add	*107.66*	
		For >75 To 150, Add	*52.06*	
		For >500 To 1,000, Deduct	*-11.83*	
		For >1,000 To 2,000, Deduct	*-23.30*	
		For >2,000 To 5,000, Deduct	*-35.48*	
		For >5,000, Deduct	*-55.60*	
33 01 30 71-0134	LF	84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	560.65	
		For Up To 75, Add	*115.94*	
		For >75 To 150, Add	*56.07*	
		For >500 To 1,000, Deduct	*-12.74*	
		For >1,000 To 2,000, Deduct	*-25.10*	
		For >2,000 To 5,000, Deduct	*-38.21*	
		For >5,000, Deduct	*-59.88*	
33 01 30 71-0135	LF	90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	600.70	
		For Up To 75, Add	*124.23*	
		For >75 To 150, Add	*60.07*	
		For >500 To 1,000, Deduct	*-13.65*	
		For >1,000 To 2,000, Deduct	*-26.89*	
		For >2,000 To 5,000, Deduct	*-40.94*	
		For >5,000, Deduct	*-64.16*	
33 01 30 71-0136	LF	96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	640.75	
		For Up To 75, Add	*132.51*	
		For >75 To 150, Add	*64.08*	
		For >500 To 1,000, Deduct	*-14.56*	
		For >1,000 To 2,000, Deduct	*-28.68*	
		For >2,000 To 5,000, Deduct	*-43.67*	
		For >5,000, Deduct	*-68.43*	
33 01 30 71-0137	LF	102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	680.78	
		For Up To 75, Add	*140.79*	
		For >75 To 150, Add	*68.08*	
		For >500 To 1,000, Deduct	*-15.47*	
		For >1,000 To 2,000, Deduct	*-30.47*	
		For >2,000 To 5,000, Deduct	*-46.40*	
		For >5,000, Deduct	*-72.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0138	LF	108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	720.83	
		For Up To 75, Add	*149.07*	
		For >75 To 150, Add	*72.08*	
		For >500 To 1,000, Deduct	*-16.38*	
		For >1,000 To 2,000, Deduct	*-32.26*	
		For >2,000 To 5,000, Deduct	*-49.13*	
		For >5,000, Deduct	*-76.99*	
33 01 30 71-0139	LF	114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	760.87	
		For Up To 75, Add	*157.35*	
		For >75 To 150, Add	*76.09*	
		For >500 To 1,000, Deduct	*-17.29*	
		For >1,000 To 2,000, Deduct	*-34.06*	
		For >2,000 To 5,000, Deduct	*-51.86*	
		For >5,000, Deduct	*-81.26*	
33 01 30 71-0140	LF	120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	800.92	
		For Up To 75, Add	*165.63*	
		For >75 To 150, Add	*80.09*	
		For >500 To 1,000, Deduct	*-18.20*	
		For >1,000 To 2,000, Deduct	*-35.85*	
		For >2,000 To 5,000, Deduct	*-54.59*	
		For >5,000, Deduct	*-85.54*	
33 01 30 71-0141	SF	Structure Lining, Spray Applied With 500 mil Structural Polyurethane	25.50	

33 01 30 71-0142 Polyvinyl Chloride (PVC) Liner Pipe *(33 01 30 71-0001)*

Note: Sanitary and storm sewer trenchless slip-lining.

33 01 30 71-0143	LF	12" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	33.37	
33 01 30 71-0144	LF	15" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	50.10	
33 01 30 71-0145	LF	18" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	67.49	
33 01 30 71-0146	LF	21" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	83.74	
33 01 30 71-0147	LF	24" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	109.72	
33 01 30 71-0148	LF	27" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	131.67	
33 01 30 71-0149	LF	30" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	150.74	
33 01 30 71-0150	LF	36" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	215.28	

33 01 30 71-0151 25% Asphalt Paving In Pipe, Cold Applied, ASTM A849 *(33 01 30 71-0001)*

Note: Excludes costs for CCTV inspection, sewer cleaning, bypass pumping.

33 01 30 71-0152	LF	12" Diameter Pipe, 25% Asphalt Paved	7.98	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*1.85*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*1.48*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*0.74*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-0.54*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-0.91*	
33 01 30 71-0153	LF	15" Diameter Pipe, 25% Asphalt Paved	10.32	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*2.36*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*1.89*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*0.94*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-0.68*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-1.16*	
33 01 30 71-0154	LF	18" Diameter Pipe, 25% Asphalt Paved	12.39	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*2.83*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*2.26*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*1.13*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-0.82*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-1.39*	
33 01 30 71-0155	LF	21" Diameter Pipe, 25% Asphalt Paved	14.46	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*3.30*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*2.64*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*1.32*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-0.96*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-1.62*	
33 01 30 71-0156	LF	24" Diameter Pipe, 25% Asphalt Paved	16.53	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*3.77*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*3.02*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*1.51*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-1.10*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-1.85*	
33 01 30 71-0157	LF	30" Diameter Pipe, 25% Asphalt Paved	20.66	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*4.72*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*3.77*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*1.89*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-1.37*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-2.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0158	LF	36" Diameter Pipe, 25% Asphalt Paved	24.79	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*5.66*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*4.53*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*2.26*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-1.64*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-2.78*	
33 01 30 71-0159	LF	42" Diameter Pipe, 25% Asphalt Paved	28.93	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*6.60*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*5.28*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*2.64*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-1.92*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-3.24*	
33 01 30 71-0160	LF	48" Diameter Pipe, 25% Asphalt Paved	33.05	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*7.55*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*6.04*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*3.02*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-2.19*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-3.70*	
33 01 30 71-0161	LF	54" Diameter Pipe, 25% Asphalt Paved	37.18	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*8.49*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*6.79*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*3.40*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-2.47*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-4.16*	
33 01 30 71-0162	LF	60" Diameter Pipe, 25% Asphalt Paved	41.32	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*9.43*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*7.55*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*3.77*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-2.74*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-4.63*	
33 01 30 71-0163	LF	66" Diameter Pipe, 25% Asphalt Paved	45.45	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*10.38*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*8.30*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*4.15*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-3.01*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-5.09*	
33 01 30 71-0164	LF	72" Diameter Pipe, 25% Asphalt Paved	49.59	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*11.32*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*9.06*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*4.53*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-3.29*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-5.55*	
33 01 30 71-0165	LF	78" Diameter Pipe, 25% Asphalt Paved	53.71	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*12.26*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*9.81*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*4.90*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-3.56*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-6.01*	
33 01 30 71-0166	LF	84" Diameter Pipe, 25% Asphalt Paved	57.84	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*13.20*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*10.56*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*5.28*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-3.84*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-6.48*	
33 01 30 71-0167	LF	90" Diameter Pipe, 25% Asphalt Paved	61.98	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*14.15*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*11.32*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*5.66*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-4.11*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-6.94*	
33 01 30 71-0168	LF	96" Diameter Pipe, 25% Asphalt Paved	66.11	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*15.09*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*12.07*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*6.04*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-4.38*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-7.40*	
33 01 30 71-0169	LF	102" Diameter Pipe, 25% Asphalt Paved	70.25	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*16.04*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*12.83*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*6.41*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-4.66*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-7.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0170	LF	108" Diameter Pipe, 25% Asphalt Paved	74.38	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*16.98*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*13.58*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*6.79*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-4.93*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-8.33*	
33 01 30 71-0171	LF	114" Diameter Pipe, 25% Asphalt Paved	78.50	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*17.92*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*14.34*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*7.17*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-5.21*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-8.79*	
33 01 30 71-0172	LF	120" Diameter Pipe, 25% Asphalt Paved	82.64	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*18.87*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*15.09*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*7.55*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-5.48*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-9.25*	
33 01 30 71-0173	LF	126" Diameter Pipe, 25% Asphalt Paved	86.78	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*19.81*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*15.85*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*7.92*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-5.75*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-9.72*	
33 01 30 71-0174	LF	132" Diameter Pipe, 25% Asphalt Paved	90.90	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*20.75*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*16.60*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*8.30*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-6.03*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-10.18*	
33 01 30 71-0175	LF	138" Diameter Pipe, 25% Asphalt Paved	95.04	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*21.70*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*17.36*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*8.68*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-6.30*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-10.64*	
33 01 30 71-0176	LF	144" Diameter Pipe, 25% Asphalt Paved	99.17	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	*22.64*	
		For >100 To 250 LF Total Relining (All Sizes), Add	*18.11*	
		For >250 To 500 LF Total Relining (All Sizes), Add	*9.06*	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	*-6.58*	
		For >5,000 LF Total Relining (All Sizes), Deduct	*-11.10*	

33 01 30 72 Cured-in-Place Pipe Lining *(33 01 30)*

33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines *(33 01 30 72)*

Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Set-Up And Reinsertion For Cured In-Place Pipe (CIPP) Lining *(33 01 30 72-0001)*

33 01 30 72-0003	EA	Initial Set-up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,806.89
33 01 30 72-0004	EA	Initial Set-up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,011.47
33 01 30 72-0005	EA	Initial Set-up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,517.21
33 01 30 72-0006	EA	Initial Set-up And Final Equipment Removal For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,022.95
33 01 30 72-0007	EA	Move And Set-up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	903.44
33 01 30 72-0008	EA	Move And Set-up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,505.74
33 01 30 72-0009	EA	Move And Set-up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,882.17
33 01 30 72-0010	EA	Move And Set-up At Different Access/Location For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,409.17
33 01 30 72-0011	EA	Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,505.74
		Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0012	EA	Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,613.77
		Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0013	EA	Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,022.95
		Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0014	EA	Mixing Truck And Refrigeration For Relining >48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	9,034.42
		Note: Need to mix wet material in bag prior to installation.	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0015		Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation *(33 01 30 72-0001)*		
		Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.		
33 01 30 72-0016		4.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*		
33 01 30 72-0017	LF	4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	26.79	
		For Vinylester Resin, Add	*7.69*	
		For Epoxy Resin, Add	*0.91*	
		For Up To >10, Add	*52.92*	
		For >10 To 25, Add	*42.27*	
		For >25 To 50, Add	*25.91*	
		For >50 To 100, Add	*12.96*	
		For >500 To 1,000, Deduct	*-1.73*	
		For >1,000 To 2,000, Deduct	*-2.80*	
		For >2,000 To 5,000, Deduct	*-5.27*	
		For >5,000, Deduct	*-8.52*	
33 01 30 72-0018	LF	4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	32.82	
		For Vinylester Resin, Add	*11.91*	
		For Epoxy Resin, Add	*1.40*	
		For Up To >10, Add	*55.94*	
		For >10 To 25, Add	*43.78*	
		For >25 To 50, Add	*27.12*	
		For >50 To 100, Add	*13.56*	
		For >500 To 1,000, Deduct	*-2.04*	
		For >1,000 To 2,000, Deduct	*-3.25*	
		For >2,000 To 5,000, Deduct	*-5.99*	
		For >5,000, Deduct	*-9.73*	
33 01 30 72-0019	LF	4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	38.84	
		For Vinylester Resin, Add	*16.12*	
		For Epoxy Resin, Add	*1.90*	
		For Up To >10, Add	*58.95*	
		For >10 To 25, Add	*45.28*	
		For >25 To 50, Add	*28.32*	
		For >50 To 100, Add	*14.16*	
		For >500 To 1,000, Deduct	*-2.34*	
		For >1,000 To 2,000, Deduct	*-3.70*	
		For >2,000 To 5,000, Deduct	*-6.72*	
		For >5,000, Deduct	*-10.93*	
33 01 30 72-0020	LF	4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	52.40	
		For Vinylester Resin, Add	*24.56*	
		For Epoxy Resin, Add	*2.89*	
		For Up To >10, Add	*69.50*	
		For >10 To 25, Add	*52.07*	
		For >25 To 50, Add	*33.00*	
		For >50 To 100, Add	*16.50*	
		For >500 To 1,000, Deduct	*-3.05*	
		For >1,000 To 2,000, Deduct	*-4.80*	
		For >2,000 To 5,000, Deduct	*-8.54*	
		For >5,000, Deduct	*-13.94*	
33 01 30 72-0021	LF	4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	65.95	
		For Vinylester Resin, Add	*32.99*	
		For Epoxy Resin, Add	*3.89*	
		For Up To >10, Add	*80.03*	
		For >10 To 25, Add	*58.83*	
		For >25 To 50, Add	*37.66*	
		For >50 To 100, Add	*18.83*	
		For >500 To 1,000, Deduct	*-3.77*	
		For >1,000 To 2,000, Deduct	*-5.89*	
		For >2,000 To 5,000, Deduct	*-10.36*	
		For >5,000, Deduct	*-16.95*	
33 01 30 72-0022		6mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*		
33 01 30 72-0023	LF	6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	38.01	
		For Vinylester Resin, Add	*15.54*	
		For Epoxy Resin, Add	*1.83*	
		For Up To >10, Add	*58.53*	
		For >10 To 25, Add	*45.08*	
		For >25 To 50, Add	*28.16*	
		For >50 To 100, Add	*14.08*	
		For >500 To 1,000, Deduct	*-2.30*	
		For >1,000 To 2,000, Deduct	*-3.64*	
		For >2,000 To 5,000, Deduct	*-6.62*	
		For >5,000, Deduct	*-10.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0024	LF	6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	46.04	
		For Vinylester Resin, Add	*21.16*	
		For Epoxy Resin, Add	*2.49*	
		For Up To >10, Add	*62.55*	
		For >10 To 25, Add	*47.08*	
		For >25 To 50, Add	*29.76*	
		For >50 To 100, Add	*14.88*	
		For >500 To 1,000, Deduct	*-2.70*	
		For >1,000 To 2,000, Deduct	*-4.24*	
		For >2,000 To 5,000, Deduct	*-7.58*	
		For >5,000, Deduct	*-12.37*	
33 01 30 72-0025	LF	6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	63.62	
		For Vinylester Resin, Add	*32.41*	
		For Epoxy Resin, Add	*3.82*	
		For Up To >10, Add	*75.11*	
		For >10 To 25, Add	*54.88*	
		For >25 To 50, Add	*35.24*	
		For >50 To 100, Add	*17.62*	
		For >500 To 1,000, Deduct	*-3.61*	
		For >1,000 To 2,000, Deduct	*-5.64*	
		For >2,000 To 5,000, Deduct	*-9.89*	
		For >5,000, Deduct	*-16.19*	
33 01 30 72-0026	LF	6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	81.18	
		For Vinylester Resin, Add	*43.65*	
		For Epoxy Resin, Add	*5.14*	
		For Up To >10, Add	*87.64*	
		For >10 To 25, Add	*62.64*	
		For >25 To 50, Add	*40.70*	
		For >50 To 100, Add	*20.35*	
		For >500 To 1,000, Deduct	*-4.53*	
		For >1,000 To 2,000, Deduct	*-7.03*	
		For >2,000 To 5,000, Deduct	*-12.19*	
		For >5,000, Deduct	*-20.00*	
33 01 30 72-0027	LF	6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	98.91	
		For Vinylester Resin, Add	*54.90*	
		For Epoxy Resin, Add	*6.47*	
		For Up To >10, Add	*100.66*	
		For >10 To 25, Add	*70.81*	
		For >25 To 50, Add	*46.41*	
		For >50 To 100, Add	*23.20*	
		For >500 To 1,000, Deduct	*-5.46*	
		For >1,000 To 2,000, Deduct	*-8.44*	
		For >2,000 To 5,000, Deduct	*-14.53*	
		For >5,000, Deduct	*-23.88*	
33 01 30 72-0028	LF	6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	117.07	
		For Vinylester Resin, Add	*66.14*	
		For Epoxy Resin, Add	*7.80*	
		For Up To >10, Add	*114.99*	
		For >10 To 25, Add	*80.07*	
		For >25 To 50, Add	*52.77*	
		For >50 To 100, Add	*26.38*	
		For >500 To 1,000, Deduct	*-6.42*	
		For >1,000 To 2,000, Deduct	*-9.91*	
		For >2,000 To 5,000, Deduct	*-16.98*	
		For >5,000, Deduct	*-27.93*	
33 01 30 72-0029		7.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*		
33 01 30 72-0030	LF	7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	53.01	
		For Vinylester Resin, Add	*26.04*	
		For Epoxy Resin, Add	*3.07*	
		For Up To >10, Add	*66.03*	
		For >10 To 25, Add	*48.83*	
		For >25 To 50, Add	*31.16*	
		For >50 To 100, Add	*15.58*	
		For >500 To 1,000, Deduct	*-3.05*	
		For >1,000 To 2,000, Deduct	*-4.77*	
		For >2,000 To 5,000, Deduct	*-8.42*	
		For >5,000, Deduct	*-13.76*	
33 01 30 72-0031	LF	7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	74.60	
		For Vinylester Resin, Add	*40.10*	
		For Epoxy Resin, Add	*4.73*	
		For Up To >10, Add	*80.60*	
		For >10 To 25, Add	*57.62*	
		For >25 To 50, Add	*37.44*	
		For >50 To 100, Add	*18.72*	
		For >500 To 1,000, Deduct	*-4.16*	
		For >1,000 To 2,000, Deduct	*-6.46*	
		For >2,000 To 5,000, Deduct	*-11.20*	
		For >5,000, Deduct	*-18.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0032	LF	7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	96.18	
		For Vinylester Resin, Add	*54.15*	
		For Epoxy Resin, Add	*6.38*	
		For Up To >10, Add	*95.14*	
		For >10 To 25, Add	*66.39*	
		For >25 To 50, Add	*43.70*	
		For >50 To 100, Add	*21.85*	
		For >500 To 1,000, Deduct	*-5.28*	
		For >1,000 To 2,000, Deduct	*-8.15*	
		For >2,000 To 5,000, Deduct	*-13.99*	
		For >5,000, Deduct	*-23.00*	
33 01 30 72-0033	LF	7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	117.92	
		For Vinylester Resin, Add	*68.21*	
		For Epoxy Resin, Add	*8.04*	
		For Up To >10, Add	*110.16*	
		For >10 To 25, Add	*75.56*	
		For >25 To 50, Add	*50.21*	
		For >50 To 100, Add	*25.10*	
		For >500 To 1,000, Deduct	*-6.41*	
		For >1,000 To 2,000, Deduct	*-9.87*	
		For >2,000 To 5,000, Deduct	*-16.81*	
		For >5,000, Deduct	*-27.68*	
33 01 30 72-0034	LF	7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	140.10	
		For Vinylester Resin, Add	*82.26*	
		For Epoxy Resin, Add	*9.70*	
		For Up To >10, Add	*126.50*	
		For >10 To 25, Add	*85.83*	
		For >25 To 50, Add	*57.37*	
		For >50 To 100, Add	*28.69*	
		For >500 To 1,000, Deduct	*-7.57*	
		For >1,000 To 2,000, Deduct	*-11.64*	
		For >2,000 To 5,000, Deduct	*-19.75*	
		For >5,000, Deduct	*-32.54*	
33 01 30 72-0035	LF	7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	173.24	
		For Vinylester Resin, Add	*103.35*	
		For Epoxy Resin, Add	*12.18*	
		For Up To >10, Add	*150.62*	
		For >10 To 25, Add	*100.91*	
		For >25 To 50, Add	*67.93*	
		For >50 To 100, Add	*33.96*	
		For >500 To 1,000, Deduct	*-9.30*	
		For >1,000 To 2,000, Deduct	*-14.27*	
		For >2,000 To 5,000, Deduct	*-24.12*	
		For >5,000, Deduct	*-39.77*	
33 01 30 72-0036	LF	7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	206.67	
		For Vinylester Resin, Add	*124.43*	
		For Epoxy Resin, Add	*14.67*	
		For Up To >10, Add	*175.61*	
		For >10 To 25, Add	*116.72*	
		For >25 To 50, Add	*78.92*	
		For >50 To 100, Add	*39.46*	
		For >500 To 1,000, Deduct	*-11.06*	
		For >1,000 To 2,000, Deduct	*-16.95*	
		For >2,000 To 5,000, Deduct	*-28.56*	
		For >5,000, Deduct	*-47.12*	

33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0038	LF	9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	85.34	
		For Vinylester Resin, Add	*47.61*	
		For Epoxy Resin, Add	*5.61*	
		For Up To >10, Add	*85.97*	
		For >10 To 25, Add	*60.31*	
		For >25 To 50, Add	*39.58*	
		For >50 To 100, Add	*19.79*	
		For >500 To 1,000, Deduct	*-4.70*	
		For >1,000 To 2,000, Deduct	*-7.27*	
		For >2,000 To 5,000, Deduct	*-12.49*	
		For >5,000, Deduct	*-20.53*	
33 01 30 72-0039	LF	9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	110.94	
		For Vinylester Resin, Add	*64.48*	
		For Epoxy Resin, Add	*7.60*	
		For Up To >10, Add	*102.52*	
		For >10 To 25, Add	*70.08*	
		For >25 To 50, Add	*46.65*	
		For >50 To 100, Add	*23.33*	
		For >500 To 1,000, Deduct	*-6.02*	
		For >1,000 To 2,000, Deduct	*-9.26*	
		For >2,000 To 5,000, Deduct	*-15.76*	
		For >5,000, Deduct	*-25.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0040	LF	9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	136.70	
		For Vinylester Resin, Add	*81.35*	
		For Epoxy Resin, Add	*9.59*	
		For Up To >10, Add	*119.55*	
		For >10 To 25, Add	*80.26*	
		For >25 To 50, Add	*53.96*	
		For >50 To 100, Add	*26.98*	
		For >500 To 1,000, Deduct	*-7.35*	
		For >1,000 To 2,000, Deduct	*-11.28*	
		For >2,000 To 5,000, Deduct	*-19.07*	
		For >5,000, Deduct	*-31.44*	
33 01 30 72-0041	LF	9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	162.89	
		For Vinylester Resin, Add	*98.22*	
		For Epoxy Resin, Add	*11.58*	
		For Up To >10, Add	*137.90*	
		For >10 To 25, Add	*91.53*	
		For >25 To 50, Add	*61.93*	
		For >50 To 100, Add	*30.97*	
		For >500 To 1,000, Deduct	*-8.71*	
		For >1,000 To 2,000, Deduct	*-13.35*	
		For >2,000 To 5,000, Deduct	*-22.48*	
		For >5,000, Deduct	*-37.09*	
33 01 30 72-0042	LF	9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	202.06	
		For Vinylester Resin, Add	*123.52*	
		For Epoxy Resin, Add	*14.56*	
		For Up To >10, Add	*165.03*	
		For >10 To 25, Add	*108.12*	
		For >25 To 50, Add	*73.69*	
		For >50 To 100, Add	*36.85*	
		For >500 To 1,000, Deduct	*-10.74*	
		For >1,000 To 2,000, Deduct	*-16.43*	
		For >2,000 To 5,000, Deduct	*-27.58*	
		For >5,000, Deduct	*-45.53*	
33 01 30 72-0043	LF	9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	241.51	
		For Vinylester Resin, Add	*148.82*	
		For Epoxy Resin, Add	*17.54*	
		For Up To >10, Add	*193.03*	
		For >10 To 25, Add	*125.43*	
		For >25 To 50, Add	*85.89*	
		For >50 To 100, Add	*42.94*	
		For >500 To 1,000, Deduct	*-12.80*	
		For >1,000 To 2,000, Deduct	*-19.56*	
		For >2,000 To 5,000, Deduct	*-32.74*	
		For >5,000, Deduct	*-54.08*	
33 01 30 72-0044	LF	9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	280.07	
		For Vinylester Resin, Add	*174.13*	
		For Epoxy Resin, Add	*20.52*	
		For Up To >10, Add	*218.34*	
		For >10 To 25, Add	*140.49*	
		For >25 To 50, Add	*96.73*	
		For >50 To 100, Add	*48.37*	
		For >500 To 1,000, Deduct	*-14.79*	
		For >1,000 To 2,000, Deduct	*-22.57*	
		For >2,000 To 5,000, Deduct	*-37.68*	
		For >5,000, Deduct	*-62.28*	
33 01 30 72-0045	LF	9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	319.08	
		For Vinylester Resin, Add	*199.43*	
		For Epoxy Resin, Add	*23.50*	
		For Up To >10, Add	*244.99*	
		For >10 To 25, Add	*156.68*	
		For >25 To 50, Add	*108.25*	
		For >50 To 100, Add	*54.13*	
		For >500 To 1,000, Deduct	*-16.81*	
		For >1,000 To 2,000, Deduct	*-25.64*	
		For >2,000 To 5,000, Deduct	*-42.73*	
		For >5,000, Deduct	*-70.65*	

33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0047	LF	10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	230.64	
		For Vinylester Resin, Add	*143.53*	
		For Epoxy Resin, Add	*16.92*	
		For Up To >10, Add	*179.32*	
		For >10 To 25, Add	*115.26*	
		For >25 To 50, Add	*79.41*	
		For >50 To 100, Add	*39.70*	
		For >500 To 1,000, Deduct	*-12.17*	
		For >1,000 To 2,000, Deduct	*-18.58*	
		For >2,000 To 5,000, Deduct	*-31.00*	
		For >5,000, Deduct	*-51.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0048	LF	10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	276.11	
		For Vinylester Resin, Add	*173.04*	
		For Epoxy Resin, Add	*20.39*	
		For Up To >10, Add	*210.33*	
		For >10 To 25, Add	*134.08*	
		For >25 To 50, Add	*92.81*	
		For >50 To 100, Add	*46.40*	
		For >500 To 1,000, Deduct	*-14.53*	
		For >1,000 To 2,000, Deduct	*-22.15*	
		For >2,000 To 5,000, Deduct	*-36.89*	
		For >5,000, Deduct	*-61.00*	
33 01 30 72-0049	LF	10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	320.70	
		For Vinylester Resin, Add	*202.57*	
		For Epoxy Resin, Add	*23.87*	
		For Up To >10, Add	*238.65*	
		For >10 To 25, Add	*150.65*	
		For >25 To 50, Add	*104.86*	
		For >50 To 100, Add	*52.43*	
		For >500 To 1,000, Deduct	*-16.82*	
		For >1,000 To 2,000, Deduct	*-25.62*	
		For >2,000 To 5,000, Deduct	*-42.56*	
		For >5,000, Deduct	*-70.40*	
33 01 30 72-0050	LF	10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	365.73	
		For Vinylester Resin, Add	*232.09*	
		For Epoxy Resin, Add	*27.35*	
		For Up To >10, Add	*268.32*	
		For >10 To 25, Add	*168.34*	
		For >25 To 50, Add	*117.58*	
		For >50 To 100, Add	*58.79*	
		For >500 To 1,000, Deduct	*-19.14*	
		For >1,000 To 2,000, Deduct	*-29.14*	
		For >2,000 To 5,000, Deduct	*-48.33*	
		For >5,000, Deduct	*-79.98*	
33 01 30 72-0051	LF	10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	411.35	
		For Vinylester Resin, Add	*261.60*	
		For Epoxy Resin, Add	*30.83*	
		For Up To >10, Add	*299.78*	
		For >10 To 25, Add	*187.53*	
		For >25 To 50, Add	*131.20*	
		For >50 To 100, Add	*65.60*	
		For >500 To 1,000, Deduct	*-21.51*	
		For >1,000 To 2,000, Deduct	*-32.73*	
		For >2,000 To 5,000, Deduct	*-54.26*	
		For >5,000, Deduct	*-89.80*	
33 01 30 72-0052	LF	10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	457.75	
		For Vinylester Resin, Add	*291.12*	
		For Epoxy Resin, Add	*34.31*	
		For Up To >10, Add	*333.53*	
		For >10 To 25, Add	*208.62*	
		For >25 To 50, Add	*145.97*	
		For >50 To 100, Add	*72.98*	
		For >500 To 1,000, Deduct	*-23.93*	
		For >1,000 To 2,000, Deduct	*-36.42*	
		For >2,000 To 5,000, Deduct	*-60.37*	
		For >5,000, Deduct	*-99.92*	
33 01 30 72-0053	LF	10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	547.36	
		For Vinylester Resin, Add	*350.16*	
		For Epoxy Resin, Add	*41.27*	
		For Up To >10, Add	*391.51*	
		For >10 To 25, Add	*242.88*	
		For >25 To 50, Add	*170.74*	
		For >50 To 100, Add	*85.37*	
		For >500 To 1,000, Deduct	*-28.55*	
		For >1,000 To 2,000, Deduct	*-43.41*	
		For >2,000 To 5,000, Deduct	*-71.81*	
		For >5,000, Deduct	*-118.90*	

33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0055	LF	12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	258.98	
		For Vinylester Resin, Add	*163.37*	
		For Epoxy Resin, Add	*19.25*	
		For Up To >10, Add	*193.49*	
		For >10 To 25, Add	*122.35*	
		For >25 To 50, Add	*85.08*	
		For >50 To 100, Add	*42.54*	
		For >500 To 1,000, Deduct	*-13.59*	
		For >1,000 To 2,000, Deduct	*-20.70*	
		For >2,000 To 5,000, Deduct	*-34.41*	
		For >5,000, Deduct	*-56.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0056	LF	12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	310.49	
		For Vinylester Resin, Add	*197.11*	
		For Epoxy Resin, Add	*23.23*	
		For Up To >10, Add	*227.52*	
		For >10 To 25, Add	*142.67*	
		For >25 To 50, Add	*99.68*	
		For >50 To 100, Add	*49.84*	
		For >500 To 1,000, Deduct	*-16.25*	
		For >1,000 To 2,000, Deduct	*-24.73*	
		For >2,000 To 5,000, Deduct	*-41.02*	
		For >5,000, Deduct	*-67.88*	
33 01 30 72-0057	LF	12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	361.09	
		For Vinylester Resin, Add	*230.84*	
		For Epoxy Resin, Add	*27.21*	
		For Up To >10, Add	*258.85*	
		For >10 To 25, Add	*160.74*	
		For >25 To 50, Add	*112.93*	
		For >50 To 100, Add	*56.47*	
		For >500 To 1,000, Deduct	*-18.84*	
		For >1,000 To 2,000, Deduct	*-28.65*	
		For >2,000 To 5,000, Deduct	*-47.40*	
		For >5,000, Deduct	*-78.48*	
33 01 30 72-0058	LF	12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	412.14	
		For Vinylester Resin, Add	*264.57*	
		For Epoxy Resin, Add	*31.18*	
		For Up To >10, Add	*291.52*	
		For >10 To 25, Add	*179.94*	
		For >25 To 50, Add	*126.86*	
		For >50 To 100, Add	*63.43*	
		For >500 To 1,000, Deduct	*-21.46*	
		For >1,000 To 2,000, Deduct	*-32.62*	
		For >2,000 To 5,000, Deduct	*-53.90*	
		For >5,000, Deduct	*-89.26*	
33 01 30 72-0059	LF	12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	463.80	
		For Vinylester Resin, Add	*298.31*	
		For Epoxy Resin, Add	*35.16*	
		For Up To >10, Add	*326.00*	
		For >10 To 25, Add	*200.64*	
		For >25 To 50, Add	*141.69*	
		For >50 To 100, Add	*70.85*	
		For >500 To 1,000, Deduct	*-24.13*	
		For >1,000 To 2,000, Deduct	*-36.67*	
		For >2,000 To 5,000, Deduct	*-60.55*	
		For >5,000, Deduct	*-100.29*	
33 01 30 72-0060	LF	12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	516.21	
		For Vinylester Resin, Add	*332.05*	
		For Epoxy Resin, Add	*39.13*	
		For Up To >10, Add	*362.76*	
		For >10 To 25, Add	*223.24*	
		For >25 To 50, Add	*157.66*	
		For >50 To 100, Add	*78.83*	
		For >500 To 1,000, Deduct	*-26.86*	
		For >1,000 To 2,000, Deduct	*-40.81*	
		For >2,000 To 5,000, Deduct	*-67.39*	
		For >5,000, Deduct	*-111.61*	
33 01 30 72-0061	LF	12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	617.87	
		For Vinylester Resin, Add	*399.52*	
		For Epoxy Resin, Add	*47.09*	
		For Up To >10, Add	*426.76*	
		For >10 To 25, Add	*260.51*	
		For >25 To 50, Add	*184.84*	
		For >50 To 100, Add	*92.42*	
		For >500 To 1,000, Deduct	*-32.07*	
		For >1,000 To 2,000, Deduct	*-48.70*	
		For >2,000 To 5,000, Deduct	*-80.27*	
		For >5,000, Deduct	*-133.00*	
33 01 30 72-0062	LF	12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	720.88	
		For Vinylester Resin, Add	*466.99*	
		For Epoxy Resin, Add	*55.04*	
		For Up To >10, Add	*494.82*	
		For >10 To 25, Add	*301.16*	
		For >25 To 50, Add	*214.05*	
		For >50 To 100, Add	*107.03*	
		For >500 To 1,000, Deduct	*-37.39*	
		For >1,000 To 2,000, Deduct	*-56.75*	
		For >2,000 To 5,000, Deduct	*-93.49*	
		For >5,000, Deduct	*-154.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0063	LF	12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	826.30	
		For Vinylester Resin, Add	*534.46*	
		For Epoxy Resin, Add	*62.99*	
		For Up To >10, Add	*570.13*	
		For >10 To 25, Add	*347.85*	
		For >25 To 50, Add	*246.89*	
		For >50 To 100, Add	*123.44*	
		For >500 To 1,000, Deduct	*-42.88*	
		For >1,000 To 2,000, Deduct	*-65.11*	
		For >2,000 To 5,000, Deduct	*-107.32*	
		For >5,000, Deduct	*-177.82*	

33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0065	LF	13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	287.08	
		For Vinylester Resin, Add	*183.04*	
		For Epoxy Resin, Add	*21.57*	
		For Up To >10, Add	*207.54*	
		For >10 To 25, Add	*129.37*	
		For >25 To 50, Add	*90.70*	
		For >50 To 100, Add	*45.35*	
		For >500 To 1,000, Deduct	*-14.99*	
		For >1,000 To 2,000, Deduct	*-22.81*	
		For >2,000 To 5,000, Deduct	*-37.78*	
		For >5,000, Deduct	*-62.54*	
33 01 30 72-0066	LF	13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	344.62	
		For Vinylester Resin, Add	*221.00*	
		For Epoxy Resin, Add	*26.05*	
		For Up To >10, Add	*244.59*	
		For >10 To 25, Add	*151.20*	
		For >25 To 50, Add	*106.51*	
		For >50 To 100, Add	*53.25*	
		For >500 To 1,000, Deduct	*-17.95*	
		For >1,000 To 2,000, Deduct	*-27.29*	
		For >2,000 To 5,000, Deduct	*-45.11*	
		For >5,000, Deduct	*-74.71*	
33 01 30 72-0067	LF	13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	401.25	
		For Vinylester Resin, Add	*258.95*	
		For Epoxy Resin, Add	*30.52*	
		For Up To >10, Add	*278.93*	
		For >10 To 25, Add	*170.78*	
		For >25 To 50, Add	*120.97*	
		For >50 To 100, Add	*60.48*	
		For >500 To 1,000, Deduct	*-20.85*	
		For >1,000 To 2,000, Deduct	*-31.66*	
		For >2,000 To 5,000, Deduct	*-52.22*	
		For >5,000, Deduct	*-86.51*	
33 01 30 72-0068	LF	13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	458.32	
		For Vinylester Resin, Add	*296.90*	
		For Epoxy Resin, Add	*34.99*	
		For Up To >10, Add	*314.61*	
		For >10 To 25, Add	*191.49*	
		For >25 To 50, Add	*136.10*	
		For >50 To 100, Add	*68.05*	
		For >500 To 1,000, Deduct	*-23.77*	
		For >1,000 To 2,000, Deduct	*-36.08*	
		For >2,000 To 5,000, Deduct	*-59.44*	
		For >5,000, Deduct	*-98.50*	
33 01 30 72-0069	LF	13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	516.00	
		For Vinylester Resin, Add	*334.85*	
		For Epoxy Resin, Add	*39.46*	
		For Up To >10, Add	*352.10*	
		For >10 To 25, Add	*213.69*	
		For >25 To 50, Add	*152.13*	
		For >50 To 100, Add	*76.07*	
		For >500 To 1,000, Deduct	*-26.74*	
		For >1,000 To 2,000, Deduct	*-40.58*	
		For >2,000 To 5,000, Deduct	*-66.81*	
		For >5,000, Deduct	*-110.73*	
33 01 30 72-0070	LF	13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	574.44	
		For Vinylester Resin, Add	*372.81*	
		For Epoxy Resin, Add	*43.94*	
		For Up To >10, Add	*391.87*	
		For >10 To 25, Add	*237.80*	
		For >25 To 50, Add	*169.31*	
		For >50 To 100, Add	*84.65*	
		For >500 To 1,000, Deduct	*-29.77*	
		For >1,000 To 2,000, Deduct	*-45.18*	
		For >2,000 To 5,000, Deduct	*-74.37*	
		For >5,000, Deduct	*-123.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0071	LF	13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	688.14	
		For Vinylester Resin, Add	*448.71*	
		For Epoxy Resin, Add	*52.88*	
		For Up To >10, Add	*461.90*	
		For >10 To 25, Add	*278.08*	
		For >25 To 50, Add	*198.90*	
		For >50 To 100, Add	*99.45*	
		For >500 To 1,000, Deduct	*-35.59*	
		For >1,000 To 2,000, Deduct	*-53.97*	
		For >2,000 To 5,000, Deduct	*-88.70*	
		For >5,000, Deduct	*-147.05*	
33 01 30 72-0072	LF	13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	803.20	
		For Vinylester Resin, Add	*524.62*	
		For Epoxy Resin, Add	*61.83*	
		For Up To >10, Add	*535.98*	
		For >10 To 25, Add	*321.74*	
		For >25 To 50, Add	*230.52*	
		For >50 To 100, Add	*115.26*	
		For >500 To 1,000, Deduct	*-41.50*	
		For >1,000 To 2,000, Deduct	*-62.93*	
		For >2,000 To 5,000, Deduct	*-103.37*	
		For >5,000, Deduct	*-171.39*	
33 01 30 72-0073	LF	13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	920.67	
		For Vinylester Resin, Add	*600.52*	
		For Epoxy Resin, Add	*70.78*	
		For Up To >10, Add	*617.31*	
		For >10 To 25, Add	*371.45*	
		For >25 To 50, Add	*265.76*	
		For >50 To 100, Add	*132.88*	
		For >500 To 1,000, Deduct	*-47.60*	
		For >1,000 To 2,000, Deduct	*-72.19*	
		For >2,000 To 5,000, Deduct	*-118.64*	
		For >5,000, Deduct	*-196.69*	

33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0075	LF	15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	314.95	
		For Vinylester Resin, Add	*202.55*	
		For Epoxy Resin, Add	*23.87*	
		For Up To >10, Add	*221.48*	
		For >10 To 25, Add	*136.34*	
		For >25 To 50, Add	*96.27*	
		For >50 To 100, Add	*48.14*	
		For >500 To 1,000, Deduct	*-16.39*	
		For >1,000 To 2,000, Deduct	*-24.90*	
		For >2,000 To 5,000, Deduct	*-41.12*	
		For >5,000, Deduct	*-68.11*	
33 01 30 72-0076	LF	15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	378.51	
		For Vinylester Resin, Add	*244.72*	
		For Epoxy Resin, Add	*28.84*	
		For Up To >10, Add	*261.53*	
		For >10 To 25, Add	*159.68*	
		For >25 To 50, Add	*113.29*	
		For >50 To 100, Add	*56.64*	
		For >500 To 1,000, Deduct	*-19.65*	
		For >1,000 To 2,000, Deduct	*-29.83*	
		For >2,000 To 5,000, Deduct	*-49.18*	
		For >5,000, Deduct	*-81.48*	
33 01 30 72-0077	LF	15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	441.16	
		For Vinylester Resin, Add	*286.89*	
		For Epoxy Resin, Add	*33.81*	
		For Up To >10, Add	*298.88*	
		For >10 To 25, Add	*180.76*	
		For >25 To 50, Add	*128.95*	
		For >50 To 100, Add	*64.47*	
		For >500 To 1,000, Deduct	*-22.84*	
		For >1,000 To 2,000, Deduct	*-34.65*	
		For >2,000 To 5,000, Deduct	*-57.01*	
		For >5,000, Deduct	*-94.50*	
33 01 30 72-0078	LF	15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	504.26	
		For Vinylester Resin, Add	*329.06*	
		For Epoxy Resin, Add	*38.78*	
		For Up To >10, Add	*337.58*	
		For >10 To 25, Add	*202.97*	
		For >25 To 50, Add	*145.29*	
		For >50 To 100, Add	*72.64*	
		For >500 To 1,000, Deduct	*-26.07*	
		For >1,000 To 2,000, Deduct	*-39.53*	
		For >2,000 To 5,000, Deduct	*-64.95*	
		For >5,000, Deduct	*-107.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0079	LF	15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	567.96	
		For Vinylester Resin, Add	*371.22*	
		For Epoxy Resin, Add	*43.75*	
		For Up To >10, Add	*378.08*	
		For >10 To 25, Add	*226.68*	
		For >25 To 50, Add	*162.52*	
		For >50 To 100, Add	*81.26*	
		For >500 To 1,000, Deduct	*-29.34*	
		For >1,000 To 2,000, Deduct	*-44.48*	
		For >2,000 To 5,000, Deduct	*-73.05*	
		For >5,000, Deduct	*-121.12*	
33 01 30 72-0080	LF	15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	632.43	
		For Vinylester Resin, Add	*413.40*	
		For Epoxy Resin, Add	*48.72*	
		For Up To >10, Add	*420.87*	
		For >10 To 25, Add	*252.29*	
		For >25 To 50, Add	*180.90*	
		For >50 To 100, Add	*90.45*	
		For >500 To 1,000, Deduct	*-32.67*	
		For >1,000 To 2,000, Deduct	*-49.53*	
		For >2,000 To 5,000, Deduct	*-81.33*	
		For >5,000, Deduct	*-134.86*	
33 01 30 72-0081	LF	15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	758.18	
		For Vinylester Resin, Add	*497.74*	
		For Epoxy Resin, Add	*58.66*	
		For Up To >10, Add	*496.92*	
		For >10 To 25, Add	*295.59*	
		For >25 To 50, Add	*212.91*	
		For >50 To 100, Add	*106.45*	
		For >500 To 1,000, Deduct	*-39.09*	
		For >1,000 To 2,000, Deduct	*-59.22*	
		For >2,000 To 5,000, Deduct	*-97.11*	
		For >5,000, Deduct	*-161.06*	
33 01 30 72-0082	LF	15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	885.29	
		For Vinylester Resin, Add	*582.08*	
		For Epoxy Resin, Add	*68.60*	
		For Up To >10, Add	*577.02*	
		For >10 To 25, Add	*342.26*	
		For >25 To 50, Add	*246.93*	
		For >50 To 100, Add	*123.47*	
		For >500 To 1,000, Deduct	*-45.61*	
		For >1,000 To 2,000, Deduct	*-69.08*	
		For >2,000 To 5,000, Deduct	*-113.22*	
		For >5,000, Deduct	*-187.81*	
33 01 30 72-0083	LF	15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,014.81	
		For Vinylester Resin, Add	*666.41*	
		For Epoxy Resin, Add	*78.54*	
		For Up To >10, Add	*664.38*	
		For >10 To 25, Add	*394.98*	
		For >25 To 50, Add	*284.59*	
		For >50 To 100, Add	*142.29*	
		For >500 To 1,000, Deduct	*-52.31*	
		For >1,000 To 2,000, Deduct	*-79.25*	
		For >2,000 To 5,000, Deduct	*-129.94*	
		For >5,000, Deduct	*-215.52*	

33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0085	LF	16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	412.16	
		For Vinylester Resin, Add	*268.28*	
		For Epoxy Resin, Add	*31.62*	
		For Up To >10, Add	*278.36*	
		For >10 To 25, Add	*168.09*	
		For >25 To 50, Add	*120.02*	
		For >50 To 100, Add	*60.01*	
		For >500 To 1,000, Deduct	*-21.33*	
		For >1,000 To 2,000, Deduct	*-32.36*	
		For >2,000 To 5,000, Deduct	*-53.22*	
		For >5,000, Deduct	*-88.21*	
33 01 30 72-0086	LF	16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	480.84	
		For Vinylester Resin, Add	*314.66*	
		For Epoxy Resin, Add	*37.09*	
		For Up To >10, Add	*318.72*	
		For >10 To 25, Add	*190.68*	
		For >25 To 50, Add	*136.88*	
		For >50 To 100, Add	*68.44*	
		For >500 To 1,000, Deduct	*-24.83*	
		For >1,000 To 2,000, Deduct	*-37.63*	
		For >2,000 To 5,000, Deduct	*-61.77*	
		For >5,000, Deduct	*-102.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0087	LF	16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	549.96	
		For Vinylester Resin, Add	*361.05*	
		For Epoxy Resin, Add	*42.55*	
		For Up To >10, Add	*360.43*	
		For >10 To 25, Add	*214.40*	
		For >25 To 50, Add	*154.43*	
		For >50 To 100, Add	*77.21*	
		For >500 To 1,000, Deduct	*-28.35*	
		For >1,000 To 2,000, Deduct	*-42.96*	
		For >2,000 To 5,000, Deduct	*-70.44*	
		For >5,000, Deduct	*-116.83*	
33 01 30 72-0088	LF	16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	619.69	
		For Vinylester Resin, Add	*407.44*	
		For Epoxy Resin, Add	*48.02*	
		For Up To >10, Add	*403.95*	
		For >10 To 25, Add	*239.61*	
		For >25 To 50, Add	*172.87*	
		For >50 To 100, Add	*86.44*	
		For >500 To 1,000, Deduct	*-31.93*	
		For >1,000 To 2,000, Deduct	*-48.36*	
		For >2,000 To 5,000, Deduct	*-79.26*	
		For >5,000, Deduct	*-131.47*	
33 01 30 72-0089	LF	16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	690.18	
		For Vinylester Resin, Add	*453.82*	
		For Epoxy Resin, Add	*53.49*	
		For Up To >10, Add	*449.74*	
		For >10 To 25, Add	*266.73*	
		For >25 To 50, Add	*192.45*	
		For >50 To 100, Add	*96.23*	
		For >500 To 1,000, Deduct	*-35.56*	
		For >1,000 To 2,000, Deduct	*-53.86*	
		For >2,000 To 5,000, Deduct	*-88.26*	
		For >5,000, Deduct	*-146.41*	
33 01 30 72-0090	LF	16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	827.99	
		For Vinylester Resin, Add	*546.60*	
		For Epoxy Resin, Add	*64.42*	
		For Up To >10, Add	*531.82*	
		For >10 To 25, Add	*313.04*	
		For >25 To 50, Add	*226.87*	
		For >50 To 100, Add	*113.43*	
		For >500 To 1,000, Deduct	*-42.58*	
		For >1,000 To 2,000, Deduct	*-64.46*	
		For >2,000 To 5,000, Deduct	*-105.49*	
		For >5,000, Deduct	*-175.02*	
33 01 30 72-0091	LF	16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	967.13	
		For Vinylester Resin, Add	*639.37*	
		For Epoxy Resin, Add	*75.35*	
		For Up To >10, Add	*617.94*	
		For >10 To 25, Add	*362.72*	
		For >25 To 50, Add	*263.30*	
		For >50 To 100, Add	*131.65*	
		For >500 To 1,000, Deduct	*-49.70*	
		For >1,000 To 2,000, Deduct	*-75.22*	
		For >2,000 To 5,000, Deduct	*-123.04*	
		For >5,000, Deduct	*-204.18*	
33 01 30 72-0092	LF	16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,108.71	
		For Vinylester Resin, Add	*732.14*	
		For Epoxy Resin, Add	*86.29*	
		For Up To >10, Add	*711.33*	
		For >10 To 25, Add	*418.46*	
		For >25 To 50, Add	*303.37*	
		For >50 To 100, Add	*151.68*	
		For >500 To 1,000, Deduct	*-57.01*	
		For >1,000 To 2,000, Deduct	*-86.29*	
		For >2,000 To 5,000, Deduct	*-141.21*	
		For >5,000, Deduct	*-234.30*	
33 01 30 72-0093	LF	16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,249.23	
		For Vinylester Resin, Add	*824.92*	
		For Epoxy Resin, Add	*97.22*	
		For Up To >10, Add	*801.54*	
		For >10 To 25, Add	*471.54*	
		For >25 To 50, Add	*341.85*	
		For >50 To 100, Add	*170.92*	
		For >500 To 1,000, Deduct	*-64.23*	
		For >1,000 To 2,000, Deduct	*-97.23*	
		For >2,000 To 5,000, Deduct	*-159.11*	
		For >5,000, Deduct	*-264.00*	

33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0095	LF	18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	446.34	
		For Vinylester Resin, Add	*291.67*	
		For Epoxy Resin, Add	*34.38*	
		For Up To >10, Add	*297.35*	
		For >10 To 25, Add	*178.34*	
		For >25 To 50, Add	*127.84*	
		For >50 To 100, Add	*63.92*	
		For >500 To 1,000, Deduct	*-23.06*	
		For >1,000 To 2,000, Deduct	*-34.96*	
		For >2,000 To 5,000, Deduct	*-57.42*	
		For >5,000, Deduct	*-95.20*	
33 01 30 72-0096	LF	18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	521.19	
		For Vinylester Resin, Add	*342.27*	
		For Epoxy Resin, Add	*40.34*	
		For Up To >10, Add	*341.17*	
		For >10 To 25, Add	*202.82*	
		For >25 To 50, Add	*146.14*	
		For >50 To 100, Add	*73.07*	
		For >500 To 1,000, Deduct	*-26.87*	
		For >1,000 To 2,000, Deduct	*-40.70*	
		For >2,000 To 5,000, Deduct	*-66.73*	
		For >5,000, Deduct	*-110.68*	
33 01 30 72-0097	LF	18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	596.33	
		For Vinylester Resin, Add	*392.88*	
		For Epoxy Resin, Add	*46.30*	
		For Up To >10, Add	*385.87*	
		For >10 To 25, Add	*228.01*	
		For >25 To 50, Add	*164.87*	
		For >50 To 100, Add	*82.44*	
		For >500 To 1,000, Deduct	*-30.69*	
		For >1,000 To 2,000, Deduct	*-46.48*	
		For >2,000 To 5,000, Deduct	*-76.12*	
		For >5,000, Deduct	*-126.28*	
33 01 30 72-0098	LF	18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	672.25	
		For Vinylester Resin, Add	*443.49*	
		For Epoxy Resin, Add	*52.27*	
		For Up To >10, Add	*432.88*	
		For >10 To 25, Add	*255.14*	
		For >25 To 50, Add	*184.76*	
		For >50 To 100, Add	*92.38*	
		For >500 To 1,000, Deduct	*-34.58*	
		For >1,000 To 2,000, Deduct	*-52.35*	
		For >2,000 To 5,000, Deduct	*-85.70*	
		For >5,000, Deduct	*-142.19*	
33 01 30 72-0099	LF	18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	748.75	
		For Vinylester Resin, Add	*494.08*	
		For Epoxy Resin, Add	*58.23*	
		For Up To >10, Add	*481.68*	
		For >10 To 25, Add	*283.76*	
		For >25 To 50, Add	*205.55*	
		For >50 To 100, Add	*102.77*	
		For >500 To 1,000, Deduct	*-38.51*	
		For >1,000 To 2,000, Deduct	*-58.30*	
		For >2,000 To 5,000, Deduct	*-95.43*	
		For >5,000, Deduct	*-158.33*	
33 01 30 72-0100	LF	18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	899.81	
		For Vinylester Resin, Add	*595.29*	
		For Epoxy Resin, Add	*70.16*	
		For Up To >10, Add	*573.38*	
		For >10 To 25, Add	*336.08*	
		For >25 To 50, Add	*244.17*	
		For >50 To 100, Add	*122.08*	
		For >500 To 1,000, Deduct	*-46.23*	
		For >1,000 To 2,000, Deduct	*-69.96*	
		For >2,000 To 5,000, Deduct	*-114.40*	
		For >5,000, Deduct	*-189.84*	
33 01 30 72-0101	LF	18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,051.46	
		For Vinylester Resin, Add	*696.50*	
		For Epoxy Resin, Add	*82.09*	
		For Up To >10, Add	*666.88*	
		For >10 To 25, Add	*389.90*	
		For >25 To 50, Add	*283.69*	
		For >50 To 100, Add	*141.85*	
		For >500 To 1,000, Deduct	*-53.98*	
		For >1,000 To 2,000, Deduct	*-81.68*	
		For >2,000 To 5,000, Deduct	*-133.52*	
		For >5,000, Deduct	*-221.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0102	LF	18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,205.53	
		For Vinylester Resin, Add	*797.71*	
		For Epoxy Resin, Add	*94.02*	
		For Up To >10, Add	*767.64*	
		For >10 To 25, Add	*449.77*	
		For >25 To 50, Add	*326.84*	
		For >50 To 100, Add	*163.42*	
		For >500 To 1,000, Deduct	*-61.93*	
		For >1,000 To 2,000, Deduct	*-93.71*	
		For >2,000 To 5,000, Deduct	*-153.24*	
		For >5,000, Deduct	*-254.30*	
33 01 30 72-0103	LF	18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,358.55	
		For Vinylester Resin, Add	*898.92*	
		For Epoxy Resin, Add	*105.94*	
		For Up To >10, Add	*865.23*	
		For >10 To 25, Add	*506.99*	
		For >25 To 50, Add	*368.40*	
		For >50 To 100, Add	*184.20*	
		For >500 To 1,000, Deduct	*-69.79*	
		For >1,000 To 2,000, Deduct	*-105.61*	
		For >2,000 To 5,000, Deduct	*-172.70*	
		For >5,000, Deduct	*-286.59*	
33 01 30 72-0104	LF	18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,511.41	
		For Vinylester Resin, Add	*1,000.12*	
		For Epoxy Resin, Add	*117.87*	
		For Up To >10, Add	*962.38*	
		For >10 To 25, Add	*563.86*	
		For >25 To 50, Add	*409.75*	
		For >50 To 100, Add	*204.88*	
		For >500 To 1,000, Deduct	*-77.64*	
		For >1,000 To 2,000, Deduct	*-117.49*	
		For >2,000 To 5,000, Deduct	*-192.12*	
		For >5,000, Deduct	*-318.82*	
33 01 30 72-0105	LF	18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,664.88	
		For Vinylester Resin, Add	*1,101.33*	
		For Epoxy Resin, Add	*129.80*	
		For Up To >10, Add	*1,061.32*	
		For >10 To 25, Add	*622.21*	
		For >25 To 50, Add	*451.99*	
		For >50 To 100, Add	*226.00*	
		For >500 To 1,000, Deduct	*-85.53*	
		For >1,000 To 2,000, Deduct	*-129.44*	
		For >2,000 To 5,000, Deduct	*-211.69*	
		For >5,000, Deduct	*-351.29*	
33 01 30 72-0106	LF	18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,817.89	
		For Vinylester Resin, Add	*1,202.54*	
		For Epoxy Resin, Add	*141.73*	
		For Up To >10, Add	*1,158.90*	
		For >10 To 25, Add	*679.43*	
		For >25 To 50, Add	*493.55*	
		For >50 To 100, Add	*246.78*	
		For >500 To 1,000, Deduct	*-93.39*	
		For >1,000 To 2,000, Deduct	*-141.34*	
		For >2,000 To 5,000, Deduct	*-231.14*	
		For >5,000, Deduct	*-383.57*	

33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0108	LF	19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	480.72	
		For Vinylester Resin, Add	*314.90*	
		For Epoxy Resin, Add	*37.11*	
		For Up To >10, Add	*317.54*	
		For >10 To 25, Add	*189.64*	
		For >25 To 50, Add	*136.28*	
		For >50 To 100, Add	*68.14*	
		For >500 To 1,000, Deduct	*-24.81*	
		For >1,000 To 2,000, Deduct	*-37.60*	
		For >2,000 To 5,000, Deduct	*-61.70*	
		For >5,000, Deduct	*-102.32*	
33 01 30 72-0109	LF	19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	561.60	
		For Vinylester Resin, Add	*369.72*	
		For Epoxy Resin, Add	*43.57*	
		For Up To >10, Add	*364.38*	
		For >10 To 25, Add	*215.62*	
		For >25 To 50, Add	*155.78*	
		For >50 To 100, Add	*77.89*	
		For >500 To 1,000, Deduct	*-28.92*	
		For >1,000 To 2,000, Deduct	*-43.79*	
		For >2,000 To 5,000, Deduct	*-71.74*	
		For >5,000, Deduct	*-119.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0110	LF	19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	642.92	
		For Vinylester Resin, Add	*424.54*	
		For Epoxy Resin, Add	*50.03*	
		For Up To >10, Add	*412.56*	
		For >10 To 25, Add	*242.72*	
		For >25 To 50, Add	*175.96*	
		For >50 To 100, Add	*87.98*	
		For >500 To 1,000, Deduct	*-33.06*	
		For >1,000 To 2,000, Deduct	*-50.04*	
		For >2,000 To 5,000, Deduct	*-81.89*	
		For >5,000, Deduct	*-135.87*	
33 01 30 72-0111	LF	19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	724.55	
		For Vinylester Resin, Add	*479.36*	
		For Epoxy Resin, Add	*56.50*	
		For Up To >10, Add	*461.65*	
		For >10 To 25, Add	*270.58*	
		For >25 To 50, Add	*196.59*	
		For >50 To 100, Add	*98.29*	
		For >500 To 1,000, Deduct	*-37.22*	
		For >1,000 To 2,000, Deduct	*-56.33*	
		For >2,000 To 5,000, Deduct	*-92.11*	
		For >5,000, Deduct	*-152.86*	
33 01 30 72-0112	LF	19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	807.38	
		For Vinylester Resin, Add	*534.18*	
		For Epoxy Resin, Add	*62.96*	
		For Up To >10, Add	*514.37*	
		For >10 To 25, Add	*301.45*	
		For >25 To 50, Add	*219.03*	
		For >50 To 100, Add	*109.51*	
		For >500 To 1,000, Deduct	*-41.48*	
		For >1,000 To 2,000, Deduct	*-62.77*	
		For >2,000 To 5,000, Deduct	*-102.64*	
		For >5,000, Deduct	*-170.33*	
33 01 30 72-0113	LF	19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	971.84	
		For Vinylester Resin, Add	*643.82*	
		For Epoxy Resin, Add	*75.88*	
		For Up To >10, Add	*616.17*	
		For >10 To 25, Add	*360.19*	
		For >25 To 50, Add	*262.10*	
		For >50 To 100, Add	*131.05*	
		For >500 To 1,000, Deduct	*-49.89*	
		For >1,000 To 2,000, Deduct	*-75.49*	
		For >2,000 To 5,000, Deduct	*-123.39*	
		For >5,000, Deduct	*-204.79*	
33 01 30 72-0114	LF	19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,136.75	
		For Vinylester Resin, Add	*753.46*	
		For Epoxy Resin, Add	*88.80*	
		For Up To >10, Add	*719.33*	
		For >10 To 25, Add	*420.04*	
		For >25 To 50, Add	*305.84*	
		For >50 To 100, Add	*152.92*	
		For >500 To 1,000, Deduct	*-58.35*	
		For >1,000 To 2,000, Deduct	*-88.28*	
		For >2,000 To 5,000, Deduct	*-144.26*	
		For >5,000, Deduct	*-239.43*	
33 01 30 72-0115	LF	19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,302.72	
		For Vinylester Resin, Add	*863.11*	
		For Epoxy Resin, Add	*101.72*	
		For Up To >10, Add	*825.64*	
		For >10 To 25, Add	*482.53*	
		For >25 To 50, Add	*351.17*	
		For >50 To 100, Add	*175.58*	
		For >500 To 1,000, Deduct	*-66.88*	
		For >1,000 To 2,000, Deduct	*-101.19*	
		For >2,000 To 5,000, Deduct	*-165.39*	
		For >5,000, Deduct	*-274.49*	
33 01 30 72-0116	LF	19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,468.23	
		For Vinylester Resin, Add	*972.74*	
		For Epoxy Resin, Add	*114.64*	
		For Up To >10, Add	*930.62*	
		For >10 To 25, Add	*543.91*	
		For >25 To 50, Add	*395.83*	
		For >50 To 100, Add	*197.91*	
		For >500 To 1,000, Deduct	*-75.38*	
		For >1,000 To 2,000, Deduct	*-114.05*	
		For >2,000 To 5,000, Deduct	*-186.41*	
		For >5,000, Deduct	*-309.37*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0117	LF	19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,633.75	
		For Vinylester Resin, Add	*1,082.38*	
		For Epoxy Resin, Add	*127.57*	
		For Up To >10, Add	*1,035.60*	
		For >10 To 25, Add	*605.29*	
		For >25 To 50, Add	*440.49*	
		For >50 To 100, Add	*220.24*	
		For >500 To 1,000, Deduct	*-83.87*	
		For >1,000 To 2,000, Deduct	*-126.91*	
		For >2,000 To 5,000, Deduct	*-207.42*	
		For >5,000, Deduct	*-344.25*	
33 01 30 72-0118	LF	19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,801.08	
		For Vinylester Resin, Add	*1,192.03*	
		For Epoxy Resin, Add	*140.49*	
		For Up To >10, Add	*1,145.99*	
		For >10 To 25, Add	*671.18*	
		For >25 To 50, Add	*487.85*	
		For >50 To 100, Add	*243.93*	
		For >500 To 1,000, Deduct	*-92.51*	
		For >1,000 To 2,000, Deduct	*-139.99*	
		For >2,000 To 5,000, Deduct	*-228.89*	
		For >5,000, Deduct	*-379.85*	
33 01 30 72-0119	LF	19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,966.72	
		For Vinylester Resin, Add	*1,301.66*	
		For Epoxy Resin, Add	*153.41*	
		For Up To >10, Add	*1,251.36*	
		For >10 To 25, Add	*732.88*	
		For >25 To 50, Add	*532.70*	
		For >50 To 100, Add	*266.35*	
		For >500 To 1,000, Deduct	*-101.02*	
		For >1,000 To 2,000, Deduct	*-152.86*	
		For >2,000 To 5,000, Deduct	*-249.94*	
		For >5,000, Deduct	*-414.78*	

33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0121	LF	21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	514.71	
		For Vinylester Resin, Add	*337.95*	
		For Epoxy Resin, Add	*39.83*	
		For Up To >10, Add	*337.16*	
		For >10 To 25, Add	*200.50*	
		For >25 To 50, Add	*144.44*	
		For >50 To 100, Add	*72.22*	
		For >500 To 1,000, Deduct	*-26.53*	
		For >1,000 To 2,000, Deduct	*-40.20*	
		For >2,000 To 5,000, Deduct	*-65.91*	
		For >5,000, Deduct	*-109.33*	
33 01 30 72-0122	LF	21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	601.76	
		For Vinylester Resin, Add	*396.99*	
		For Epoxy Resin, Add	*46.79*	
		For Up To >10, Add	*387.46*	
		For >10 To 25, Add	*228.36*	
		For >25 To 50, Add	*165.37*	
		For >50 To 100, Add	*82.69*	
		For >500 To 1,000, Deduct	*-30.95*	
		For >1,000 To 2,000, Deduct	*-46.86*	
		For >2,000 To 5,000, Deduct	*-76.71*	
		For >5,000, Deduct	*-127.28*	
33 01 30 72-0123	LF	21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	689.28	
		For Vinylester Resin, Add	*456.04*	
		For Epoxy Resin, Add	*53.75*	
		For Up To >10, Add	*439.14*	
		For >10 To 25, Add	*257.37*	
		For >25 To 50, Add	*187.00*	
		For >50 To 100, Add	*93.50*	
		For >500 To 1,000, Deduct	*-35.41*	
		For >1,000 To 2,000, Deduct	*-53.59*	
		For >2,000 To 5,000, Deduct	*-87.63*	
		For >5,000, Deduct	*-145.42*	
33 01 30 72-0124	LF	21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	776.62	
		For Vinylester Resin, Add	*515.07*	
		For Epoxy Resin, Add	*60.70*	
		For Up To >10, Add	*490.34*	
		For >10 To 25, Add	*285.98*	
		For >25 To 50, Add	*208.38*	
		For >50 To 100, Add	*104.19*	
		For >500 To 1,000, Deduct	*-39.85*	
		For >1,000 To 2,000, Deduct	*-60.29*	
		For >2,000 To 5,000, Deduct	*-98.50*	
		For >5,000, Deduct	*-163.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0125	LF	21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	865.64	
		For Vinylester Resin, Add	*574.11*	
		For Epoxy Resin, Add	*67.66*	
		For Up To >10, Add	*546.52*	
		For >10 To 25, Add	*318.74*	
		For >25 To 50, Add	*232.25*	
		For >50 To 100, Add	*116.13*	
		For >500 To 1,000, Deduct	*-44.42*	
		For >1,000 To 2,000, Deduct	*-67.20*	
		For >2,000 To 5,000, Deduct	*-109.79*	
		For >5,000, Deduct	*-182.22*	
33 01 30 72-0126	LF	21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,043.64	
		For Vinylester Resin, Add	*692.18*	
		For Epoxy Resin, Add	*81.58*	
		For Up To >10, Add	*658.85*	
		For >10 To 25, Add	*384.23*	
		For >25 To 50, Add	*279.98*	
		For >50 To 100, Add	*139.99*	
		For >500 To 1,000, Deduct	*-53.55*	
		For >1,000 To 2,000, Deduct	*-81.01*	
		For >2,000 To 5,000, Deduct	*-132.36*	
		For >5,000, Deduct	*-219.69*	
33 01 30 72-0127	LF	21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,221.65	
		For Vinylester Resin, Add	*810.26*	
		For Epoxy Resin, Add	*95.49*	
		For Up To >10, Add	*771.18*	
		For >10 To 25, Add	*449.73*	
		For >25 To 50, Add	*327.71*	
		For >50 To 100, Add	*163.86*	
		For >500 To 1,000, Deduct	*-62.69*	
		For >1,000 To 2,000, Deduct	*-94.83*	
		For >2,000 To 5,000, Deduct	*-154.94*	
		For >5,000, Deduct	*-257.16*	
33 01 30 72-0128	LF	21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,399.67	
		For Vinylester Resin, Add	*928.33*	
		For Epoxy Resin, Add	*109.41*	
		For Up To >10, Add	*883.54*	
		For >10 To 25, Add	*515.25*	
		For >25 To 50, Add	*375.46*	
		For >50 To 100, Add	*187.73*	
		For >500 To 1,000, Deduct	*-71.82*	
		For >1,000 To 2,000, Deduct	*-108.65*	
		For >2,000 To 5,000, Deduct	*-177.51*	
		For >5,000, Deduct	*-294.63*	
33 01 30 72-0129	LF	21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,577.68	
		For Vinylester Resin, Add	*1,046.41*	
		For Epoxy Resin, Add	*123.33*	
		For Up To >10, Add	*995.87*	
		For >10 To 25, Add	*580.74*	
		For >25 To 50, Add	*423.19*	
		For >50 To 100, Add	*211.59*	
		For >500 To 1,000, Deduct	*-80.95*	
		For >1,000 To 2,000, Deduct	*-122.47*	
		For >2,000 To 5,000, Deduct	*-200.09*	
		For >5,000, Deduct	*-332.10*	
33 01 30 72-0130	LF	21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,755.70	
		For Vinylester Resin, Add	*1,164.49*	
		For Epoxy Resin, Add	*137.24*	
		For Up To >10, Add	*1,108.23*	
		For >10 To 25, Add	*646.26*	
		For >25 To 50, Add	*470.94*	
		For >50 To 100, Add	*235.47*	
		For >500 To 1,000, Deduct	*-90.09*	
		For >1,000 To 2,000, Deduct	*-136.29*	
		For >2,000 To 5,000, Deduct	*-222.66*	
		For >5,000, Deduct	*-369.57*	
33 01 30 72-0131	LF	21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,937.03	
		For Vinylester Resin, Add	*1,282.56*	
		For Epoxy Resin, Add	*151.16*	
		For Up To >10, Add	*1,230.52*	
		For >10 To 25, Add	*720.06*	
		For >25 To 50, Add	*523.65*	
		For >50 To 100, Add	*261.82*	
		For >500 To 1,000, Deduct	*-99.47*	
		For >1,000 To 2,000, Deduct	*-150.52*	
		For >2,000 To 5,000, Deduct	*-246.07*	
		For >5,000, Deduct	*-408.37*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0132	LF	21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,115.35	
		For Vinylester Resin, Add	*1,400.64*	
		For Epoxy Resin, Add	*165.08*	
		For Up To >10, Add	*1,343.78*	
		For >10 To 25, Add	*786.33*	
		For >25 To 50, Add	*571.84*	
		For >50 To 100, Add	*285.92*	
		For >500 To 1,000, Deduct	*-108.63*	
		For >1,000 To 2,000, Deduct	*-164.37*	
		For >2,000 To 5,000, Deduct	*-268.72*	
		For >5,000, Deduct	*-445.96*	

33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0134	LF	22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	548.32	
		For Vinylester Resin, Add	*360.85*	
		For Epoxy Resin, Add	*42.53*	
		For Up To >10, Add	*356.21*	
		For >10 To 25, Add	*210.93*	
		For >25 To 50, Add	*152.33*	
		For >50 To 100, Add	*76.17*	
		For >500 To 1,000, Deduct	*-28.24*	
		For >1,000 To 2,000, Deduct	*-42.77*	
		For >2,000 To 5,000, Deduct	*-70.07*	
		For >5,000, Deduct	*-116.23*	
33 01 30 72-0135	LF	22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	641.40	
		For Vinylester Resin, Add	*424.10*	
		For Epoxy Resin, Add	*49.98*	
		For Up To >10, Add	*409.55*	
		For >10 To 25, Add	*240.32*	
		For >25 To 50, Add	*174.48*	
		For >50 To 100, Add	*87.24*	
		For >500 To 1,000, Deduct	*-32.96*	
		For >1,000 To 2,000, Deduct	*-49.88*	
		For >2,000 To 5,000, Deduct	*-81.59*	
		For >5,000, Deduct	*-135.39*	
33 01 30 72-0136	LF	22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	735.38	
		For Vinylester Resin, Add	*487.36*	
		For Epoxy Resin, Add	*57.44*	
		For Up To >10, Add	*465.57*	
		For >10 To 25, Add	*271.93*	
		For >25 To 50, Add	*197.97*	
		For >50 To 100, Add	*98.99*	
		For >500 To 1,000, Deduct	*-37.75*	
		For >1,000 To 2,000, Deduct	*-57.11*	
		For >2,000 To 5,000, Deduct	*-93.34*	
		For >5,000, Deduct	*-154.91*	
33 01 30 72-0137	LF	22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	829.80	
		For Vinylester Resin, Add	*550.61*	
		For Epoxy Resin, Add	*64.89*	
		For Up To >10, Add	*522.93*	
		For >10 To 25, Add	*304.67*	
		For >25 To 50, Add	*222.13*	
		For >50 To 100, Add	*111.07*	
		For >500 To 1,000, Deduct	*-42.57*	
		For >1,000 To 2,000, Deduct	*-64.40*	
		For >2,000 To 5,000, Deduct	*-105.19*	
		For >5,000, Deduct	*-174.60*	
33 01 30 72-0138	LF	22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	925.13	
		For Vinylester Resin, Add	*613.87*	
		For Epoxy Resin, Add	*72.35*	
		For Up To >10, Add	*583.02*	
		For >10 To 25, Add	*339.69*	
		For >25 To 50, Add	*247.66*	
		For >50 To 100, Add	*123.83*	
		For >500 To 1,000, Deduct	*-47.46*	
		For >1,000 To 2,000, Deduct	*-71.79*	
		For >2,000 To 5,000, Deduct	*-117.28*	
		For >5,000, Deduct	*-194.66*	
33 01 30 72-0139	LF	22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,115.80	
		For Vinylester Resin, Add	*740.38*	
		For Epoxy Resin, Add	*87.26*	
		For Up To >10, Add	*703.20*	
		For >10 To 25, Add	*409.72*	
		For >25 To 50, Add	*298.72*	
		For >50 To 100, Add	*149.36*	
		For >500 To 1,000, Deduct	*-57.24*	
		For >1,000 To 2,000, Deduct	*-86.59*	
		For >2,000 To 5,000, Deduct	*-141.45*	
		For >5,000, Deduct	*-234.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0140	LF	22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,306.47	
		For Vinylester Resin, Add	*866.89*	
		For Epoxy Resin, Add	*102.17*	
		For Up To >10, Add	*823.39*	
		For >10 To 25, Add	*479.75*	
		For >25 To 50, Add	*349.77*	
		For >50 To 100, Add	*174.89*	
		For >500 To 1,000, Deduct	*-67.03*	
		For >1,000 To 2,000, Deduct	*-101.39*	
		For >2,000 To 5,000, Deduct	*-165.62*	
		For >5,000, Deduct	*-274.91*	
33 01 30 72-0141	LF	22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,497.14	
		For Vinylester Resin, Add	*993.40*	
		For Epoxy Resin, Add	*117.08*	
		For Up To >10, Add	*943.57*	
		For >10 To 25, Add	*549.79*	
		For >25 To 50, Add	*400.83*	
		For >50 To 100, Add	*200.41*	
		For >500 To 1,000, Deduct	*-76.81*	
		For >1,000 To 2,000, Deduct	*-116.19*	
		For >2,000 To 5,000, Deduct	*-189.80*	
		For >5,000, Deduct	*-315.03*	
33 01 30 72-0142	LF	22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,687.81	
		For Vinylester Resin, Add	*1,119.91*	
		For Epoxy Resin, Add	*131.99*	
		For Up To >10, Add	*1,063.76*	
		For >10 To 25, Add	*619.82*	
		For >25 To 50, Add	*451.88*	
		For >50 To 100, Add	*225.94*	
		For >500 To 1,000, Deduct	*-86.59*	
		For >1,000 To 2,000, Deduct	*-130.98*	
		For >2,000 To 5,000, Deduct	*-213.97*	
		For >5,000, Deduct	*-355.15*	
33 01 30 72-0143	LF	22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,878.46	
		For Vinylester Resin, Add	*1,246.41*	
		For Epoxy Resin, Add	*146.90*	
		For Up To >10, Add	*1,183.91*	
		For >10 To 25, Add	*689.82*	
		For >25 To 50, Add	*502.92*	
		For >50 To 100, Add	*251.46*	
		For >500 To 1,000, Deduct	*-96.37*	
		For >1,000 To 2,000, Deduct	*-145.78*	
		For >2,000 To 5,000, Deduct	*-238.14*	
		For >5,000, Deduct	*-395.27*	
33 01 30 72-0144	LF	22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,072.59	
		For Vinylester Resin, Add	*1,372.92*	
		For Epoxy Resin, Add	*161.81*	
		For Up To >10, Add	*1,314.47*	
		For >10 To 25, Add	*768.51*	
		For >25 To 50, Add	*559.17*	
		For >50 To 100, Add	*279.58*	
		For >500 To 1,000, Deduct	*-106.41*	
		For >1,000 To 2,000, Deduct	*-161.01*	
		For >2,000 To 5,000, Deduct	*-263.18*	
		For >5,000, Deduct	*-436.77*	
33 01 30 72-0145	LF	22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,263.56	
		For Vinylester Resin, Add	*1,499.44*	
		For Epoxy Resin, Add	*176.72*	
		For Up To >10, Add	*1,435.56*	
		For >10 To 25, Add	*839.29*	
		For >25 To 50, Add	*610.68*	
		For >50 To 100, Add	*305.34*	
		For >500 To 1,000, Deduct	*-116.22*	
		For >1,000 To 2,000, Deduct	*-175.84*	
		For >2,000 To 5,000, Deduct	*-287.42*	
		For >5,000, Deduct	*-477.01*	

33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0147	LF	24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	581.55	
		For Vinylester Resin, Add	*383.58*	
		For Epoxy Resin, Add	*45.21*	
		For Up To >10, Add	*374.73*	
		For >10 To 25, Add	*220.94*	
		For >25 To 50, Add	*159.96*	
		For >50 To 100, Add	*79.98*	
		For >500 To 1,000, Deduct	*-29.92*	
		For >1,000 To 2,000, Deduct	*-45.30*	
		For >2,000 To 5,000, Deduct	*-74.15*	
		For >5,000, Deduct	*-123.03*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0148	LF	24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	680.65	
		For Vinylester Resin, Add	*451.05*	
		For Epoxy Resin, Add	*53.16*	
		For Up To >10, Add	*431.05*	
		For >10 To 25, Add	*251.82*	
		For >25 To 50, Add	*183.31*	
		For >50 To 100, Add	*91.65*	
		For >500 To 1,000, Deduct	*-34.94*	
		For >1,000 To 2,000, Deduct	*-52.86*	
		For >2,000 To 5,000, Deduct	*-86.40*	
		For >5,000, Deduct	*-143.39*	
33 01 30 72-0149	LF	24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	781.11	
		For Vinylester Resin, Add	*518.53*	
		For Epoxy Resin, Add	*61.11*	
		For Up To >10, Add	*491.46*	
		For >10 To 25, Add	*286.09*	
		For >25 To 50, Add	*208.69*	
		For >50 To 100, Add	*104.35*	
		For >500 To 1,000, Deduct	*-40.06*	
		For >1,000 To 2,000, Deduct	*-60.60*	
		For >2,000 To 5,000, Deduct	*-98.98*	
		For >5,000, Deduct	*-164.29*	
33 01 30 72-0150	LF	24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	882.75	
		For Vinylester Resin, Add	*585.99*	
		For Epoxy Resin, Add	*69.06*	
		For Up To >10, Add	*555.43*	
		For >10 To 25, Add	*323.33*	
		For >25 To 50, Add	*235.86*	
		For >50 To 100, Add	*117.93*	
		For >500 To 1,000, Deduct	*-45.28*	
		For >1,000 To 2,000, Deduct	*-68.49*	
		For >2,000 To 5,000, Deduct	*-111.86*	
		For >5,000, Deduct	*-185.67*	
33 01 30 72-0151	LF	24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	984.41	
		For Vinylester Resin, Add	*653.46*	
		For Epoxy Resin, Add	*77.02*	
		For Up To >10, Add	*619.43*	
		For >10 To 25, Add	*360.61*	
		For >25 To 50, Add	*263.04*	
		For >50 To 100, Add	*131.52*	
		For >500 To 1,000, Deduct	*-50.49*	
		For >1,000 To 2,000, Deduct	*-76.38*	
		For >2,000 To 5,000, Deduct	*-124.74*	
		For >5,000, Deduct	*-207.06*	
33 01 30 72-0152	LF	24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,187.73	
		For Vinylester Resin, Add	*788.41*	
		For Epoxy Resin, Add	*92.92*	
		For Up To >10, Add	*747.44*	
		For >10 To 25, Add	*435.15*	
		For >25 To 50, Add	*317.41*	
		For >50 To 100, Add	*158.70*	
		For >500 To 1,000, Deduct	*-60.92*	
		For >1,000 To 2,000, Deduct	*-92.15*	
		For >2,000 To 5,000, Deduct	*-150.51*	
		For >5,000, Deduct	*-249.83*	
33 01 30 72-0153	LF	24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,437.90	
		For Vinylester Resin, Add	*956.26*	
		For Epoxy Resin, Add	*112.70*	
		For Up To >10, Add	*898.50*	
		For >10 To 25, Add	*521.07*	
		For >25 To 50, Add	*380.95*	
		For >50 To 100, Add	*190.47*	
		For >500 To 1,000, Deduct	*-73.69*	
		For >1,000 To 2,000, Deduct	*-111.43*	
		For >2,000 To 5,000, Deduct	*-181.88*	
		For >5,000, Deduct	*-301.94*	
33 01 30 72-0154	LF	24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,594.22	
		For Vinylester Resin, Add	*1,058.30*	
		For Epoxy Resin, Add	*124.73*	
		For Up To >10, Add	*1,003.04*	
		For >10 To 25, Add	*583.89*	
		For >25 To 50, Add	*425.93*	
		For >50 To 100, Add	*212.96*	
		For >500 To 1,000, Deduct	*-81.77*	
		For >1,000 To 2,000, Deduct	*-123.69*	
		For >2,000 To 5,000, Deduct	*-202.01*	
		For >5,000, Deduct	*-335.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0155	LF	24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,797.53	
		For Vinylester Resin, Add	*1,193.24*	
		For Epoxy Resin, Add	*140.63*	
		For Up To >10, Add	*1,131.02*	
		For >10 To 25, Add	*658.41*	
		For >25 To 50, Add	*480.28*	
		For >50 To 100, Add	*240.14*	
		For >500 To 1,000, Deduct	*-92.20*	
		For >1,000 To 2,000, Deduct	*-139.46*	
		For >2,000 To 5,000, Deduct	*-227.78*	
		For >5,000, Deduct	*-378.09*	
33 01 30 72-0156	LF	24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,000.84	
		For Vinylester Resin, Add	*1,328.18*	
		For Epoxy Resin, Add	*156.54*	
		For Up To >10, Add	*1,259.02*	
		For >10 To 25, Add	*732.95*	
		For >25 To 50, Add	*534.64*	
		For >50 To 100, Add	*267.32*	
		For >500 To 1,000, Deduct	*-102.63*	
		For >1,000 To 2,000, Deduct	*-155.24*	
		For >2,000 To 5,000, Deduct	*-253.55*	
		For >5,000, Deduct	*-420.86*	
33 01 30 72-0157	LF	24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,207.78	
		For Vinylester Resin, Add	*1,463.13*	
		For Epoxy Resin, Add	*172.44*	
		For Up To >10, Add	*1,397.89*	
		For >10 To 25, Add	*816.55*	
		For >25 To 50, Add	*594.44*	
		For >50 To 100, Add	*297.22*	
		For >500 To 1,000, Deduct	*-113.33*	
		For >1,000 To 2,000, Deduct	*-171.46*	
		For >2,000 To 5,000, Deduct	*-280.22*	
		For >5,000, Deduct	*-465.08*	
33 01 30 72-0158	LF	24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,411.40	
		For Vinylester Resin, Add	*1,598.07*	
		For Epoxy Resin, Add	*188.34*	
		For Up To >10, Add	*1,526.80*	
		For >10 To 25, Add	*891.84*	
		For >25 To 50, Add	*649.25*	
		For >50 To 100, Add	*324.63*	
		For >500 To 1,000, Deduct	*-123.78*	
		For >1,000 To 2,000, Deduct	*-187.28*	
		For >2,000 To 5,000, Deduct	*-306.07*	
		For >5,000, Deduct	*-507.97*	
33 01 30 72-0159	LF	24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,615.02	
		For Vinylester Resin, Add	*1,733.01*	
		For Epoxy Resin, Add	*204.25*	
		For Up To >10, Add	*1,655.74*	
		For >10 To 25, Add	*967.16*	
		For >25 To 50, Add	*704.08*	
		For >50 To 100, Add	*352.04*	
		For >500 To 1,000, Deduct	*-134.23*	
		For >1,000 To 2,000, Deduct	*-203.09*	
		For >2,000 To 5,000, Deduct	*-331.91*	
		For >5,000, Deduct	*-550.86*	
33 01 30 72-0160	LF	24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,818.63	
		For Vinylester Resin, Add	*1,867.96*	
		For Epoxy Resin, Add	*220.15*	
		For Up To >10, Add	*1,784.62*	
		For >10 To 25, Add	*1,042.43*	
		For >25 To 50, Add	*758.88*	
		For >50 To 100, Add	*379.44*	
		For >500 To 1,000, Deduct	*-144.68*	
		For >1,000 To 2,000, Deduct	*-218.90*	
		For >2,000 To 5,000, Deduct	*-357.75*	
		For >5,000, Deduct	*-593.75*	

33 01 30 72-0161 25.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0162	LF	25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	720.10	
		For Vinylester Resin, Add	*477.83*	
		For Epoxy Resin, Add	*56.32*	
		For Up To >10, Add	*453.78*	
		For >10 To 25, Add	*264.38*	
		For >25 To 50, Add	*192.76*	
		For >50 To 100, Add	*96.38*	
		For >500 To 1,000, Deduct	*-36.94*	
		For >1,000 To 2,000, Deduct	*-55.88*	
		For >2,000 To 5,000, Deduct	*-91.29*	
		For >5,000, Deduct	*-151.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0163	LF	25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	827.48	
		For Vinylester Resin, Add	*549.51*	
		For Epoxy Resin, Add	*64.76*	
		For Up To >10, Add	*519.89*	
		For >10 To 25, Add	*302.41*	
		For >25 To 50, Add	*220.69*	
		For >50 To 100, Add	*110.35*	
		For >500 To 1,000, Deduct	*-42.44*	
		For >1,000 To 2,000, Deduct	*-64.18*	
		For >2,000 To 5,000, Deduct	*-104.82*	
		For >5,000, Deduct	*-173.99*	
33 01 30 72-0164	LF	25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	935.48	
		For Vinylester Resin, Add	*621.21*	
		For Epoxy Resin, Add	*73.21*	
		For Up To >10, Add	*587.84*	
		For >10 To 25, Add	*341.96*	
		For >25 To 50, Add	*249.55*	
		For >50 To 100, Add	*124.77*	
		For >500 To 1,000, Deduct	*-47.98*	
		For >1,000 To 2,000, Deduct	*-72.56*	
		For >2,000 To 5,000, Deduct	*-118.50*	
		For >5,000, Deduct	*-196.70*	
33 01 30 72-0165	LF	25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,043.30	
		For Vinylester Resin, Add	*692.90*	
		For Epoxy Resin, Add	*81.66*	
		For Up To >10, Add	*655.28*	
		For >10 To 25, Add	*381.09*	
		For >25 To 50, Add	*278.15*	
		For >50 To 100, Add	*139.07*	
		For >500 To 1,000, Deduct	*-53.50*	
		For >1,000 To 2,000, Deduct	*-80.92*	
		For >2,000 To 5,000, Deduct	*-132.14*	
		For >5,000, Deduct	*-219.35*	
33 01 30 72-0166	LF	25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,259.27	
		For Vinylester Resin, Add	*836.27*	
		For Epoxy Resin, Add	*98.56*	
		For Up To >10, Add	*791.14*	
		For >10 To 25, Add	*460.17*	
		For >25 To 50, Add	*335.83*	
		For >50 To 100, Add	*167.92*	
		For >500 To 1,000, Deduct	*-64.58*	
		For >1,000 To 2,000, Deduct	*-97.68*	
		For >2,000 To 5,000, Deduct	*-159.51*	
		For >5,000, Deduct	*-264.77*	
33 01 30 72-0167	LF	25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,475.08	
		For Vinylester Resin, Add	*979.65*	
		For Epoxy Resin, Add	*115.46*	
		For Up To >10, Add	*926.49*	
		For >10 To 25, Add	*538.83*	
		For >25 To 50, Add	*393.27*	
		For >50 To 100, Add	*196.64*	
		For >500 To 1,000, Deduct	*-75.64*	
		For >1,000 To 2,000, Deduct	*-114.41*	
		For >2,000 To 5,000, Deduct	*-186.84*	
		For >5,000, Deduct	*-310.13*	
33 01 30 72-0168	LF	25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,691.06	
		For Vinylester Resin, Add	*1,123.03*	
		For Epoxy Resin, Add	*132.36*	
		For Up To >10, Add	*1,062.36*	
		For >10 To 25, Add	*617.91*	
		For >25 To 50, Add	*450.96*	
		For >50 To 100, Add	*225.48*	
		For >500 To 1,000, Deduct	*-86.72*	
		For >1,000 To 2,000, Deduct	*-131.17*	
		For >2,000 To 5,000, Deduct	*-214.20*	
		For >5,000, Deduct	*-355.56*	
33 01 30 72-0169	LF	25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,906.88	
		For Vinylester Resin, Add	*1,266.41*	
		For Epoxy Resin, Add	*149.25*	
		For Up To >10, Add	*1,197.77*	
		For >10 To 25, Add	*696.61*	
		For >25 To 50, Add	*508.43*	
		For >50 To 100, Add	*254.21*	
		For >500 To 1,000, Deduct	*-97.79*	
		For >1,000 To 2,000, Deduct	*-147.90*	
		For >2,000 To 5,000, Deduct	*-241.53*	
		For >5,000, Deduct	*-400.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0170	LF	25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,122.85	
		For Vinylester Resin, Add	*1,409.79*	
		For Epoxy Resin, Add	*166.15*	
		For Up To >10, Add	*1,333.60*	
		For >10 To 25, Add	*775.67*	
		For >25 To 50, Add	*566.10*	
		For >50 To 100, Add	*283.05*	
		For >500 To 1,000, Deduct	*-108.86*	
		For >1,000 To 2,000, Deduct	*-164.66*	
		For >2,000 To 5,000, Deduct	*-268.90*	
		For >5,000, Deduct	*-446.34*	
33 01 30 72-0171	LF	25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,343.62	
		For Vinylester Resin, Add	*1,553.16*	
		For Epoxy Resin, Add	*183.05*	
		For Up To >10, Add	*1,483.86*	
		For >10 To 25, Add	*866.75*	
		For >25 To 50, Add	*630.99*	
		For >50 To 100, Add	*315.50*	
		For >500 To 1,000, Deduct	*-120.30*	
		For >1,000 To 2,000, Deduct	*-182.01*	
		For >2,000 To 5,000, Deduct	*-297.46*	
		For >5,000, Deduct	*-493.69*	
33 01 30 72-0172	LF	25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,560.05	
		For Vinylester Resin, Add	*1,696.54*	
		For Epoxy Resin, Add	*199.95*	
		For Up To >10, Add	*1,621.08*	
		For >10 To 25, Add	*946.96*	
		For >25 To 50, Add	*689.36*	
		For >50 To 100, Add	*344.68*	
		For >500 To 1,000, Deduct	*-131.41*	
		For >1,000 To 2,000, Deduct	*-198.82*	
		For >2,000 To 5,000, Deduct	*-324.94*	
		For >5,000, Deduct	*-539.29*	
33 01 30 72-0173	LF	25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,776.31	
		For Vinylester Resin, Add	*1,839.92*	
		For Epoxy Resin, Add	*216.85*	
		For Up To >10, Add	*1,757.81*	
		For >10 To 25, Add	*1,026.76*	
		For >25 To 50, Add	*747.48*	
		For >50 To 100, Add	*373.74*	
		For >500 To 1,000, Deduct	*-142.51*	
		For >1,000 To 2,000, Deduct	*-215.62*	
		For >2,000 To 5,000, Deduct	*-352.38*	
		For >5,000, Deduct	*-584.83*	
33 01 30 72-0174	LF	25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,992.72	
		For Vinylester Resin, Add	*1,983.29*	
		For Epoxy Resin, Add	*233.74*	
		For Up To >10, Add	*1,894.99*	
		For >10 To 25, Add	*1,106.94*	
		For >25 To 50, Add	*805.83*	
		For >50 To 100, Add	*402.91*	
		For >500 To 1,000, Deduct	*-153.62*	
		For >1,000 To 2,000, Deduct	*-232.43*	
		For >2,000 To 5,000, Deduct	*-379.85*	
		For >5,000, Deduct	*-630.43*	

33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0176	LF	27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	759.18	
		For Vinylester Resin, Add	*504.44*	
		For Epoxy Resin, Add	*59.45*	
		For Up To >10, Add	*475.97*	
		For >10 To 25, Add	*276.53*	
		For >25 To 50, Add	*201.95*	
		For >50 To 100, Add	*100.98*	
		For >500 To 1,000, Deduct	*-38.92*	
		For >1,000 To 2,000, Deduct	*-58.87*	
		For >2,000 To 5,000, Deduct	*-96.11*	
		For >5,000, Deduct	*-159.55*	
33 01 30 72-0177	LF	27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	873.49	
		For Vinylester Resin, Add	*580.35*	
		For Epoxy Resin, Add	*68.40*	
		For Up To >10, Add	*547.80*	
		For >10 To 25, Add	*318.32*	
		For >25 To 50, Add	*232.44*	
		For >50 To 100, Add	*116.22*	
		For >500 To 1,000, Deduct	*-44.79*	
		For >1,000 To 2,000, Deduct	*-67.73*	
		For >2,000 To 5,000, Deduct	*-110.59*	
		For >5,000, Deduct	*-183.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0178	LF	27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	987.80	
		For Vinylester Resin, Add	*656.26*	
		For Epoxy Resin, Add	*77.34*	
		For Up To >10, Add	*619.63*	
		For >10 To 25, Add	*360.10*	
		For >25 To 50, Add	*262.94*	
		For >50 To 100, Add	*131.47*	
		For >500 To 1,000, Deduct	*-50.65*	
		For >1,000 To 2,000, Deduct	*-76.60*	
		For >2,000 To 5,000, Deduct	*-125.07*	
		For >5,000, Deduct	*-207.62*	
33 01 30 72-0179	LF	27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,101.96	
		For Vinylester Resin, Add	*732.17*	
		For Epoxy Resin, Add	*86.29*	
		For Up To >10, Add	*691.01*	
		For >10 To 25, Add	*401.51*	
		For >25 To 50, Add	*293.21*	
		For >50 To 100, Add	*146.60*	
		For >500 To 1,000, Deduct	*-56.50*	
		For >1,000 To 2,000, Deduct	*-85.45*	
		For >2,000 To 5,000, Deduct	*-139.52*	
		For >5,000, Deduct	*-231.59*	
33 01 30 72-0180	LF	27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,330.43	
		For Vinylester Resin, Add	*883.97*	
		For Epoxy Resin, Add	*104.18*	
		For Up To >10, Add	*834.24*	
		For >10 To 25, Add	*484.73*	
		For >25 To 50, Add	*353.98*	
		For >50 To 100, Add	*176.99*	
		For >500 To 1,000, Deduct	*-68.21*	
		For >1,000 To 2,000, Deduct	*-103.16*	
		For >2,000 To 5,000, Deduct	*-168.44*	
		For >5,000, Deduct	*-279.61*	
33 01 30 72-0181	LF	27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,559.05	
		For Vinylester Resin, Add	*1,035.78*	
		For Epoxy Resin, Add	*122.07*	
		For Up To >10, Add	*977.93*	
		For >10 To 25, Add	*568.32*	
		For >25 To 50, Add	*414.98*	
		For >50 To 100, Add	*207.49*	
		For >500 To 1,000, Deduct	*-79.94*	
		For >1,000 To 2,000, Deduct	*-120.90*	
		For >2,000 To 5,000, Deduct	*-197.40*	
		For >5,000, Deduct	*-327.68*	
33 01 30 72-0182	LF	27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,787.51	
		For Vinylester Resin, Add	*1,187.60*	
		For Epoxy Resin, Add	*139.97*	
		For Up To >10, Add	*1,121.11*	
		For >10 To 25, Add	*651.49*	
		For >25 To 50, Add	*475.72*	
		For >50 To 100, Add	*237.86*	
		For >500 To 1,000, Deduct	*-91.65*	
		For >1,000 To 2,000, Deduct	*-138.61*	
		For >2,000 To 5,000, Deduct	*-226.32*	
		For >5,000, Deduct	*-375.69*	
33 01 30 72-0183	LF	27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,015.98	
		For Vinylester Resin, Add	*1,339.41*	
		For Epoxy Resin, Add	*157.86*	
		For Up To >10, Add	*1,264.34*	
		For >10 To 25, Add	*734.71*	
		For >25 To 50, Add	*536.50*	
		For >50 To 100, Add	*268.25*	
		For >500 To 1,000, Deduct	*-103.36*	
		For >1,000 To 2,000, Deduct	*-156.33*	
		For >2,000 To 5,000, Deduct	*-255.25*	
		For >5,000, Deduct	*-423.70*	
33 01 30 72-0184	LF	27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,244.44	
		For Vinylester Resin, Add	*1,491.22*	
		For Epoxy Resin, Add	*175.75*	
		For Up To >10, Add	*1,407.55*	
		For >10 To 25, Add	*817.90*	
		For >25 To 50, Add	*597.26*	
		For >50 To 100, Add	*298.63*	
		For >500 To 1,000, Deduct	*-115.08*	
		For >1,000 To 2,000, Deduct	*-174.04*	
		For >2,000 To 5,000, Deduct	*-284.17*	
		For >5,000, Deduct	*-471.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0185	LF	27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,479.24	
		For Vinylester Resin, Add	*1,643.03*	
		For Epoxy Resin, Add	*193.64*	
		For Up To >10, Add	*1,569.75*	
		For >10 To 25, Add	*916.92*	
		For >25 To 50, Add	*667.51*	
		For >50 To 100, Add	*333.76*	
		For >500 To 1,000, Deduct	*-127.26*	
		For >1,000 To 2,000, Deduct	*-192.55*	
		For >2,000 To 5,000, Deduct	*-314.68*	
		For >5,000, Deduct	*-522.26*	
33 01 30 72-0186	LF	27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,708.31	
		For Vinylester Resin, Add	*1,794.84*	
		For Epoxy Resin, Add	*211.53*	
		For Up To >10, Add	*1,714.78*	
		For >10 To 25, Add	*1,001.64*	
		For >25 To 50, Add	*729.19*	
		For >50 To 100, Add	*364.59*	
		For >500 To 1,000, Deduct	*-139.02*	
		For >1,000 To 2,000, Deduct	*-210.34*	
		For >2,000 To 5,000, Deduct	*-343.75*	
		For >5,000, Deduct	*-570.51*	
33 01 30 72-0187	LF	27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,937.37	
		For Vinylester Resin, Add	*1,946.65*	
		For Epoxy Resin, Add	*229.43*	
		For Up To >10, Add	*1,859.79*	
		For >10 To 25, Add	*1,086.33*	
		For >25 To 50, Add	*790.85*	
		For >50 To 100, Add	*395.42*	
		For >500 To 1,000, Deduct	*-150.78*	
		For >1,000 To 2,000, Deduct	*-228.12*	
		For >2,000 To 5,000, Deduct	*-372.82*	
		For >5,000, Deduct	*-618.76*	
33 01 30 72-0188	LF	27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,166.44	
		For Vinylester Resin, Add	*2,098.46*	
		For Epoxy Resin, Add	*247.32*	
		For Up To >10, Add	*2,004.82*	
		For >10 To 25, Add	*1,171.05*	
		For >25 To 50, Add	*852.52*	
		For >50 To 100, Add	*426.26*	
		For >500 To 1,000, Deduct	*-162.54*	
		For >1,000 To 2,000, Deduct	*-245.92*	
		For >2,000 To 5,000, Deduct	*-401.90*	
		For >5,000, Deduct	*-667.02*	

33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0190	LF	28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	918.95	
		For Vinylester Resin, Add	*611.02*	
		For Epoxy Resin, Add	*72.01*	
		For Up To >10, Add	*574.65*	
		For >10 To 25, Add	*333.40*	
		For >25 To 50, Add	*243.68*	
		For >50 To 100, Add	*121.84*	
		For >500 To 1,000, Deduct	*-47.10*	
		For >1,000 To 2,000, Deduct	*-71.22*	
		For >2,000 To 5,000, Deduct	*-116.26*	
		For >5,000, Deduct	*-193.00*	
33 01 30 72-0191	LF	28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,039.59	
		For Vinylester Resin, Add	*691.14*	
		For Epoxy Resin, Add	*81.46*	
		For Up To >10, Add	*650.42*	
		For >10 To 25, Add	*377.46*	
		For >25 To 50, Add	*275.84*	
		For >50 To 100, Add	*137.92*	
		For >500 To 1,000, Deduct	*-53.29*	
		For >1,000 To 2,000, Deduct	*-80.58*	
		For >2,000 To 5,000, Deduct	*-131.54*	
		For >5,000, Deduct	*-218.37*	
33 01 30 72-0192	LF	28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,160.07	
		For Vinylester Resin, Add	*771.26*	
		For Epoxy Resin, Add	*90.90*	
		For Up To >10, Add	*725.71*	
		For >10 To 25, Add	*421.13*	
		For >25 To 50, Add	*307.77*	
		For >50 To 100, Add	*153.88*	
		For >500 To 1,000, Deduct	*-59.46*	
		For >1,000 To 2,000, Deduct	*-89.92*	
		For >2,000 To 5,000, Deduct	*-146.78*	
		For >5,000, Deduct	*-243.67*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0193	LF	28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,468.70	
		For Vinylester Resin, Add	*978.87*	
		For Epoxy Resin, Add	*115.37*	
		For Up To >10, Add	*910.15*	
		For >10 To 25, Add	*525.40*	
		For >25 To 50, Add	*385.16*	
		For >50 To 100, Add	*192.58*	
		For >500 To 1,000, Deduct	*-75.19*	
		For >1,000 To 2,000, Deduct	*-113.67*	
		For >2,000 To 5,000, Deduct	*-185.39*	
		For >5,000, Deduct	*-307.80*	
33 01 30 72-0194	LF	28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,642.15	
		For Vinylester Resin, Add	*1,091.75*	
		For Epoxy Resin, Add	*128.67*	
		For Up To >10, Add	*1,027.35*	
		For >10 To 25, Add	*596.19*	
		For >25 To 50, Add	*435.69*	
		For >50 To 100, Add	*217.85*	
		For >500 To 1,000, Deduct	*-84.17*	
		For >1,000 To 2,000, Deduct	*-127.29*	
		For >2,000 To 5,000, Deduct	*-207.78*	
		For >5,000, Deduct	*-344.93*	
33 01 30 72-0195	LF	28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,883.13	
		For Vinylester Resin, Add	*1,252.00*	
		For Epoxy Resin, Add	*147.56*	
		For Up To >10, Add	*1,177.97*	
		For >10 To 25, Add	*683.54*	
		For >25 To 50, Add	*499.55*	
		For >50 To 100, Add	*249.78*	
		For >500 To 1,000, Deduct	*-96.52*	
		For >1,000 To 2,000, Deduct	*-145.96*	
		For >2,000 To 5,000, Deduct	*-238.27*	
		For >5,000, Deduct	*-395.54*	
33 01 30 72-0196	LF	28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,124.10	
		For Vinylester Resin, Add	*1,412.24*	
		For Epoxy Resin, Add	*166.44*	
		For Up To >10, Add	*1,328.58*	
		For >10 To 25, Add	*770.90*	
		For >25 To 50, Add	*563.41*	
		For >50 To 100, Add	*281.71*	
		For >500 To 1,000, Deduct	*-108.87*	
		For >1,000 To 2,000, Deduct	*-164.64*	
		For >2,000 To 5,000, Deduct	*-268.75*	
		For >5,000, Deduct	*-446.14*	
33 01 30 72-0197	LF	28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,365.06	
		For Vinylester Resin, Add	*1,572.49*	
		For Epoxy Resin, Add	*185.33*	
		For Up To >10, Add	*1,479.16*	
		For >10 To 25, Add	*858.23*	
		For >25 To 50, Add	*627.26*	
		For >50 To 100, Add	*313.63*	
		For >500 To 1,000, Deduct	*-121.22*	
		For >1,000 To 2,000, Deduct	*-183.31*	
		For >2,000 To 5,000, Deduct	*-299.23*	
		For >5,000, Deduct	*-496.74*	
33 01 30 72-0198	LF	28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,612.65	
		For Vinylester Resin, Add	*1,732.73*	
		For Epoxy Resin, Add	*204.21*	
		For Up To >10, Add	*1,649.63*	
		For >10 To 25, Add	*962.13*	
		For >25 To 50, Add	*701.05*	
		For >50 To 100, Add	*350.52*	
		For >500 To 1,000, Deduct	*-134.07*	
		For >1,000 To 2,000, Deduct	*-202.81*	
		For >2,000 To 5,000, Deduct	*-331.37*	
		For >5,000, Deduct	*-549.99*	
33 01 30 72-0199	LF	28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,854.23	
		For Vinylester Resin, Add	*1,892.98*	
		For Epoxy Resin, Add	*223.10*	
		For Up To >10, Add	*1,802.07*	
		For >10 To 25, Add	*1,051.01*	
		For >25 To 50, Add	*765.82*	
		For >50 To 100, Add	*382.91*	
		For >500 To 1,000, Deduct	*-146.46*	
		For >1,000 To 2,000, Deduct	*-221.57*	
		For >2,000 To 5,000, Deduct	*-362.01*	
		For >5,000, Deduct	*-600.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0200	LF	28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,095.94	
		For Vinylester Resin, Add	*2,053.22*	
		For Epoxy Resin, Add	*241.99*	
		For Up To >10, Add	*1,954.90*	
		For >10 To 25, Add	*1,140.22*	
		For >25 To 50, Add	*830.79*	
		For >50 To 100, Add	*415.39*	
		For >500 To 1,000, Deduct	*-158.87*	
		For >1,000 To 2,000, Deduct	*-240.33*	
		For >2,000 To 5,000, Deduct	*-392.67*	
		For >5,000, Deduct	*-651.74*	
33 01 30 72-0201	LF	28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,337.52	
		For Vinylester Resin, Add	*2,213.47*	
		For Epoxy Resin, Add	*260.87*	
		For Up To >10, Add	*2,107.31*	
		For >10 To 25, Add	*1,229.08*	
		For >25 To 50, Add	*895.55*	
		For >50 To 100, Add	*447.78*	
		For >500 To 1,000, Deduct	*-171.26*	
		For >1,000 To 2,000, Deduct	*-259.09*	
		For >2,000 To 5,000, Deduct	*-423.31*	
		For >5,000, Deduct	*-702.59*	

33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0203	LF	30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	964.18	
		For Vinylester Resin, Add	*641.52*	
		For Epoxy Resin, Add	*75.61*	
		For Up To >10, Add	*601.42*	
		For >10 To 25, Add	*348.44*	
		For >25 To 50, Add	*254.89*	
		For >50 To 100, Add	*127.44*	
		For >500 To 1,000, Deduct	*-49.40*	
		For >1,000 To 2,000, Deduct	*-74.70*	
		For >2,000 To 5,000, Deduct	*-121.91*	
		For >5,000, Deduct	*-202.38*	
33 01 30 72-0204	LF	30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,091.00	
		For Vinylester Resin, Add	*725.86*	
		For Epoxy Resin, Add	*85.55*	
		For Up To >10, Add	*680.65*	
		For >10 To 25, Add	*394.39*	
		For >25 To 50, Add	*288.48*	
		For >50 To 100, Add	*144.24*	
		For >500 To 1,000, Deduct	*-55.90*	
		For >1,000 To 2,000, Deduct	*-84.53*	
		For >2,000 To 5,000, Deduct	*-137.95*	
		For >5,000, Deduct	*-229.01*	
33 01 30 72-0205	LF	30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,217.79	
		For Vinylester Resin, Add	*810.19*	
		For Epoxy Resin, Add	*95.49*	
		For Up To >10, Add	*759.85*	
		For >10 To 25, Add	*440.30*	
		For >25 To 50, Add	*322.05*	
		For >50 To 100, Add	*161.03*	
		For >500 To 1,000, Deduct	*-62.40*	
		For >1,000 To 2,000, Deduct	*-94.35*	
		For >2,000 To 5,000, Deduct	*-153.98*	
		For >5,000, Deduct	*-255.63*	
33 01 30 72-0206	LF	30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,471.26	
		For Vinylester Resin, Add	*978.87*	
		For Epoxy Resin, Add	*115.37*	
		For Up To >10, Add	*917.83*	
		For >10 To 25, Add	*531.80*	
		For >25 To 50, Add	*389.00*	
		For >50 To 100, Add	*194.50*	
		For >500 To 1,000, Deduct	*-75.39*	
		For >1,000 To 2,000, Deduct	*-113.99*	
		For >2,000 To 5,000, Deduct	*-186.03*	
		For >5,000, Deduct	*-308.83*	
33 01 30 72-0207	LF	30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,724.87	
		For Vinylester Resin, Add	*1,147.55*	
		For Epoxy Resin, Add	*135.25*	
		For Up To >10, Add	*1,076.24*	
		For >10 To 25, Add	*623.64*	
		For >25 To 50, Add	*456.15*	
		For >50 To 100, Add	*228.08*	
		For >500 To 1,000, Deduct	*-88.38*	
		For >1,000 To 2,000, Deduct	*-133.64*	
		For >2,000 To 5,000, Deduct	*-218.10*	
		For >5,000, Deduct	*-362.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0208	LF	30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,978.35	
		For Vinylester Resin, Add	*1,316.23*	
		For Epoxy Resin, Add	*155.13*	
		For Up To >10, Add	*1,234.23*	
		For >10 To 25, Add	*715.13*	
		For >25 To 50, Add	*523.10*	
		For >50 To 100, Add	*261.55*	
		For >500 To 1,000, Deduct	*-101.37*	
		For >1,000 To 2,000, Deduct	*-153.28*	
		For >2,000 To 5,000, Deduct	*-250.14*	
		For >5,000, Deduct	*-415.27*	
33 01 30 72-0209	LF	30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,231.97	
		For Vinylester Resin, Add	*1,484.91*	
		For Epoxy Resin, Add	*175.01*	
		For Up To >10, Add	*1,392.66*	
		For >10 To 25, Add	*807.00*	
		For >25 To 50, Add	*590.27*	
		For >50 To 100, Add	*295.13*	
		For >500 To 1,000, Deduct	*-114.37*	
		For >1,000 To 2,000, Deduct	*-172.93*	
		For >2,000 To 5,000, Deduct	*-282.22*	
		For >5,000, Deduct	*-468.53*	
33 01 30 72-0210	LF	30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,485.44	
		For Vinylester Resin, Add	*1,653.59*	
		For Epoxy Resin, Add	*194.89*	
		For Up To >10, Add	*1,550.65*	
		For >10 To 25, Add	*898.49*	
		For >25 To 50, Add	*657.21*	
		For >50 To 100, Add	*328.60*	
		For >500 To 1,000, Deduct	*-127.35*	
		For >1,000 To 2,000, Deduct	*-192.57*	
		For >2,000 To 5,000, Deduct	*-314.26*	
		For >5,000, Deduct	*-521.72*	
33 01 30 72-0211	LF	30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,745.84	
		For Vinylester Resin, Add	*1,822.27*	
		For Epoxy Resin, Add	*214.77*	
		For Up To >10, Add	*1,729.42*	
		For >10 To 25, Add	*1,007.31*	
		For >25 To 50, Add	*734.55*	
		For >50 To 100, Add	*367.27*	
		For >500 To 1,000, Deduct	*-140.86*	
		For >1,000 To 2,000, Deduct	*-213.07*	
		For >2,000 To 5,000, Deduct	*-348.04*	
		For >5,000, Deduct	*-577.69*	
33 01 30 72-0212	LF	30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,999.90	
		For Vinylester Resin, Add	*1,990.95*	
		For Epoxy Resin, Add	*234.65*	
		For Up To >10, Add	*1,889.18*	
		For >10 To 25, Add	*1,100.28*	
		For >25 To 50, Add	*802.38*	
		For >50 To 100, Add	*401.19*	
		For >500 To 1,000, Deduct	*-153.89*	
		For >1,000 To 2,000, Deduct	*-232.78*	
		For >2,000 To 5,000, Deduct	*-380.23*	
		For >5,000, Deduct	*-631.12*	
33 01 30 72-0213	LF	30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,254.12	
		For Vinylester Resin, Add	*2,159.63*	
		For Epoxy Resin, Add	*254.53*	
		For Up To >10, Add	*2,049.41*	
		For >10 To 25, Add	*1,193.65*	
		For >25 To 50, Add	*870.45*	
		For >50 To 100, Add	*435.22*	
		For >500 To 1,000, Deduct	*-166.93*	
		For >1,000 To 2,000, Deduct	*-252.51*	
		For >2,000 To 5,000, Deduct	*-412.46*	
		For >5,000, Deduct	*-684.61*	
33 01 30 72-0214	LF	30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,508.34	
		For Vinylester Resin, Add	*2,328.31*	
		For Epoxy Resin, Add	*274.41*	
		For Up To >10, Add	*2,209.65*	
		For >10 To 25, Add	*1,287.01*	
		For >25 To 50, Add	*938.52*	
		For >50 To 100, Add	*469.26*	
		For >500 To 1,000, Deduct	*-179.97*	
		For >1,000 To 2,000, Deduct	*-272.24*	
		For >2,000 To 5,000, Deduct	*-444.69*	
		For >5,000, Deduct	*-738.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0215	LF	30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,762.42	
		For Vinylester Resin, Add	*2,496.98*	
		For Epoxy Resin, Add	*294.29*	
		For Up To >10, Add	*2,369.46*	
		For >10 To 25, Add	*1,380.03*	
		For >25 To 50, Add	*1,006.37*	
		For >50 To 100, Add	*503.19*	
		For >500 To 1,000, Deduct	*-193.00*	
		For >1,000 To 2,000, Deduct	*-291.95*	
		For >2,000 To 5,000, Deduct	*-476.88*	
		For >5,000, Deduct	*-791.54*	
33 01 30 72-0216	LF	30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,016.64	
		For Vinylester Resin, Add	*2,665.66*	
		For Epoxy Resin, Add	*314.17*	
		For Up To >10, Add	*2,529.70*	
		For >10 To 25, Add	*1,473.40*	
		For >25 To 50, Add	*1,074.44*	
		For >50 To 100, Add	*537.22*	
		For >500 To 1,000, Deduct	*-206.05*	
		For >1,000 To 2,000, Deduct	*-311.68*	
		For >2,000 To 5,000, Deduct	*-509.11*	
		For >5,000, Deduct	*-845.04*	

33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0218	LF	31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,009.17	
		For Vinylester Resin, Add	*671.85*	
		For Epoxy Resin, Add	*79.18*	
		For Up To >10, Add	*628.06*	
		For >10 To 25, Add	*363.42*	
		For >25 To 50, Add	*266.04*	
		For >50 To 100, Add	*133.02*	
		For >500 To 1,000, Deduct	*-51.69*	
		For >1,000 To 2,000, Deduct	*-78.16*	
		For >2,000 To 5,000, Deduct	*-127.52*	
		For >5,000, Deduct	*-211.71*	
33 01 30 72-0219	LF	31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,142.15	
		For Vinylester Resin, Add	*760.40*	
		For Epoxy Resin, Add	*89.62*	
		For Up To >10, Add	*710.73*	
		For >10 To 25, Add	*411.22*	
		For >25 To 50, Add	*301.05*	
		For >50 To 100, Add	*150.52*	
		For >500 To 1,000, Deduct	*-58.50*	
		For >1,000 To 2,000, Deduct	*-88.45*	
		For >2,000 To 5,000, Deduct	*-144.32*	
		For >5,000, Deduct	*-239.60*	
33 01 30 72-0220	LF	31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,275.12	
		For Vinylester Resin, Add	*848.95*	
		For Epoxy Resin, Add	*100.06*	
		For Up To >10, Add	*793.39*	
		For >10 To 25, Add	*459.02*	
		For >25 To 50, Add	*336.05*	
		For >50 To 100, Add	*168.03*	
		For >500 To 1,000, Deduct	*-65.31*	
		For >1,000 To 2,000, Deduct	*-98.75*	
		For >2,000 To 5,000, Deduct	*-161.12*	
		For >5,000, Deduct	*-267.49*	
33 01 30 72-0221	LF	31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,541.25	
		For Vinylester Resin, Add	*1,026.07*	
		For Epoxy Resin, Add	*120.93*	
		For Up To >10, Add	*959.23*	
		For >10 To 25, Add	*555.05*	
		For >25 To 50, Add	*406.32*	
		For >50 To 100, Add	*203.16*	
		For >500 To 1,000, Deduct	*-78.95*	
		For >1,000 To 2,000, Deduct	*-119.37*	
		For >2,000 To 5,000, Deduct	*-194.76*	
		For >5,000, Deduct	*-323.34*	
33 01 30 72-0222	LF	31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,807.22	
		For Vinylester Resin, Add	*1,203.19*	
		For Epoxy Resin, Add	*141.80*	
		For Up To >10, Add	*1,124.56*	
		For >10 To 25, Add	*650.66*	
		For >25 To 50, Add	*476.34*	
		For >50 To 100, Add	*238.17*	
		For >500 To 1,000, Deduct	*-92.57*	
		For >1,000 To 2,000, Deduct	*-139.96*	
		For >2,000 To 5,000, Deduct	*-228.36*	
		For >5,000, Deduct	*-379.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0223	LF	31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,073.35	
		For Vinylester Resin, Add	*1,380.30*	
		For Epoxy Resin, Add	*162.68*	
		For Up To >10, Add	*1,290.40*	
		For >10 To 25, Add	*746.69*	
		For >25 To 50, Add	*546.61*	
		For >50 To 100, Add	*273.30*	
		For >500 To 1,000, Deduct	*-106.20*	
		For >1,000 To 2,000, Deduct	*-160.58*	
		For >2,000 To 5,000, Deduct	*-262.00*	
		For >5,000, Deduct	*-434.97*	
33 01 30 72-0224	LF	31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,339.31	
		For Vinylester Resin, Add	*1,557.41*	
		For Epoxy Resin, Add	*183.55*	
		For Up To >10, Add	*1,455.76*	
		For >10 To 25, Add	*842.32*	
		For >25 To 50, Add	*616.63*	
		For >50 To 100, Add	*308.32*	
		For >500 To 1,000, Deduct	*-119.83*	
		For >1,000 To 2,000, Deduct	*-181.17*	
		For >2,000 To 5,000, Deduct	*-295.59*	
		For >5,000, Deduct	*-490.75*	
33 01 30 72-0225	LF	31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,605.27	
		For Vinylester Resin, Add	*1,734.52*	
		For Epoxy Resin, Add	*204.43*	
		For Up To >10, Add	*1,621.09*	
		For >10 To 25, Add	*937.92*	
		For >25 To 50, Add	*686.65*	
		For >50 To 100, Add	*343.32*	
		For >500 To 1,000, Deduct	*-133.45*	
		For >1,000 To 2,000, Deduct	*-201.76*	
		For >2,000 To 5,000, Deduct	*-329.19*	
		For >5,000, Deduct	*-546.53*	
33 01 30 72-0226	LF	31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,878.47	
		For Vinylester Resin, Add	*1,911.64*	
		For Epoxy Resin, Add	*225.30*	
		For Up To >10, Add	*1,808.14*	
		For >10 To 25, Add	*1,051.63*	
		For >25 To 50, Add	*767.52*	
		For >50 To 100, Add	*383.76*	
		For >500 To 1,000, Deduct	*-147.61*	
		For >1,000 To 2,000, Deduct	*-223.26*	
		For >2,000 To 5,000, Deduct	*-364.60*	
		For >5,000, Deduct	*-605.21*	
33 01 30 72-0227	LF	31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,165.73	
		For Vinylester Resin, Add	*2,103.02*	
		For Epoxy Resin, Add	*247.86*	
		For Up To >10, Add	*1,986.42*	
		For >10 To 25, Add	*1,154.63*	
		For >25 To 50, Add	*842.99*	
		For >50 To 100, Add	*421.50*	
		For >500 To 1,000, Deduct	*-162.32*	
		For >1,000 To 2,000, Deduct	*-245.50*	
		For >2,000 To 5,000, Deduct	*-400.87*	
		For >5,000, Deduct	*-665.43*	
33 01 30 72-0228	LF	31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,411.77	
		For Vinylester Resin, Add	*2,265.87*	
		For Epoxy Resin, Add	*267.05*	
		For Up To >10, Add	*2,142.94*	
		For >10 To 25, Add	*1,246.29*	
		For >25 To 50, Add	*909.62*	
		For >50 To 100, Add	*454.81*	
		For >500 To 1,000, Deduct	*-174.96*	
		For >1,000 To 2,000, Deduct	*-264.62*	
		For >2,000 To 5,000, Deduct	*-432.14*	
		For >5,000, Deduct	*-717.32*	
33 01 30 72-0229	LF	31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,678.48	
		For Vinylester Resin, Add	*2,442.98*	
		For Epoxy Resin, Add	*287.92*	
		For Up To >10, Add	*2,310.52*	
		For >10 To 25, Add	*1,343.77*	
		For >25 To 50, Add	*980.76*	
		For >50 To 100, Add	*490.38*	
		For >500 To 1,000, Deduct	*-188.64*	
		For >1,000 To 2,000, Deduct	*-285.31*	
		For >2,000 To 5,000, Deduct	*-465.92*	
		For >5,000, Deduct	*-773.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0230	LF	31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,945.06	
		For Vinylester Resin, Add	*2,620.09*	
		For Epoxy Resin, Add	*308.80*	
		For Up To >10, Add	*2,477.71*	
		For >10 To 25, Add	*1,440.92*	
		For >25 To 50, Add	*1,051.70*	
		For >50 To 100, Add	*525.85*	
		For >500 To 1,000, Deduct	*-202.30*	
		For >1,000 To 2,000, Deduct	*-305.98*	
		For >2,000 To 5,000, Deduct	*-499.68*	
		For >5,000, Deduct	*-829.43*	
33 01 30 72-0231	LF	31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,211.77	
		For Vinylester Resin, Add	*2,797.20*	
		For Epoxy Resin, Add	*329.67*	
		For Up To >10, Add	*2,645.31*	
		For >10 To 25, Add	*1,538.43*	
		For >25 To 50, Add	*1,122.86*	
		For >50 To 100, Add	*561.43*	
		For >500 To 1,000, Deduct	*-215.98*	
		For >1,000 To 2,000, Deduct	*-326.67*	
		For >2,000 To 5,000, Deduct	*-533.46*	
		For >5,000, Deduct	*-885.51*	

33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0233	LF	33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,053.77	
		For Vinylester Resin, Add	*702.02*	
		For Epoxy Resin, Add	*82.74*	
		For Up To >10, Add	*654.11*	
		For >10 To 25, Add	*377.95*	
		For >25 To 50, Add	*276.91*	
		For >50 To 100, Add	*138.46*	
		For >500 To 1,000, Deduct	*-53.96*	
		For >1,000 To 2,000, Deduct	*-81.58*	
		For >2,000 To 5,000, Deduct	*-133.07*	
		For >5,000, Deduct	*-220.93*	
33 01 30 72-0234	LF	33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,193.07	
		For Vinylester Resin, Add	*794.78*	
		For Epoxy Resin, Add	*93.67*	
		For Up To >10, Add	*740.71*	
		For >10 To 25, Add	*428.03*	
		For >25 To 50, Add	*313.59*	
		For >50 To 100, Add	*156.79*	
		For >500 To 1,000, Deduct	*-61.10*	
		For >1,000 To 2,000, Deduct	*-92.36*	
		For >2,000 To 5,000, Deduct	*-150.67*	
		For >5,000, Deduct	*-250.15*	
33 01 30 72-0235	LF	33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,332.24	
		For Vinylester Resin, Add	*887.56*	
		For Epoxy Resin, Add	*104.61*	
		For Up To >10, Add	*826.87*	
		For >10 To 25, Add	*477.74*	
		For >25 To 50, Add	*350.04*	
		For >50 To 100, Add	*175.02*	
		For >500 To 1,000, Deduct	*-68.22*	
		For >1,000 To 2,000, Deduct	*-103.13*	
		For >2,000 To 5,000, Deduct	*-168.23*	
		For >5,000, Deduct	*-279.31*	
33 01 30 72-0236	LF	33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,610.86	
		For Vinylester Resin, Add	*1,073.11*	
		For Epoxy Resin, Add	*126.47*	
		For Up To >10, Add	*1,000.06*	
		For >10 To 25, Add	*577.88*	
		For >25 To 50, Add	*423.38*	
		For >50 To 100, Add	*211.69*	
		For >500 To 1,000, Deduct	*-82.49*	
		For >1,000 To 2,000, Deduct	*-124.71*	
		For >2,000 To 5,000, Deduct	*-203.42*	
		For >5,000, Deduct	*-337.74*	
33 01 30 72-0237	LF	33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,889.32	
		For Vinylester Resin, Add	*1,258.65*	
		For Epoxy Resin, Add	*148.34*	
		For Up To >10, Add	*1,172.79*	
		For >10 To 25, Add	*677.64*	
		For >25 To 50, Add	*496.49*	
		For >50 To 100, Add	*248.24*	
		For >500 To 1,000, Deduct	*-96.75*	
		For >1,000 To 2,000, Deduct	*-146.26*	
		For >2,000 To 5,000, Deduct	*-238.58*	
		For >5,000, Deduct	*-396.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0238	LF	33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,167.95	
		For Vinylester Resin, Add	*1,444.21*	
		For Epoxy Resin, Add	*170.21*	
		For Up To >10, Add	*1,345.98*	
		For >10 To 25, Add	*777.79*	
		For >25 To 50, Add	*569.83*	
		For >50 To 100, Add	*284.92*	
		For >500 To 1,000, Deduct	*-111.02*	
		For >1,000 To 2,000, Deduct	*-167.84*	
		For >2,000 To 5,000, Deduct	*-273.78*	
		For >5,000, Deduct	*-454.55*	
33 01 30 72-0239	LF	33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,446.41	
		For Vinylester Resin, Add	*1,629.75*	
		For Epoxy Resin, Add	*192.08*	
		For Up To >10, Add	*1,518.71*	
		For >10 To 25, Add	*877.55*	
		For >25 To 50, Add	*642.94*	
		For >50 To 100, Add	*321.47*	
		For >500 To 1,000, Deduct	*-125.28*	
		For >1,000 To 2,000, Deduct	*-189.39*	
		For >2,000 To 5,000, Deduct	*-308.94*	
		For >5,000, Deduct	*-512.92*	
33 01 30 72-0240	LF	33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,724.88	
		For Vinylester Resin, Add	*1,815.30*	
		For Epoxy Resin, Add	*213.95*	
		For Up To >10, Add	*1,691.44*	
		For >10 To 25, Add	*977.32*	
		For >25 To 50, Add	*716.06*	
		For >50 To 100, Add	*358.03*	
		For >500 To 1,000, Deduct	*-139.53*	
		For >1,000 To 2,000, Deduct	*-210.95*	
		For >2,000 To 5,000, Deduct	*-344.09*	
		For >5,000, Deduct	*-571.30*	
33 01 30 72-0241	LF	33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,010.72	
		For Vinylester Resin, Add	*2,000.84*	
		For Epoxy Resin, Add	*235.81*	
		For Up To >10, Add	*1,886.31*	
		For >10 To 25, Add	*1,095.54*	
		For >25 To 50, Add	*800.24*	
		For >50 To 100, Add	*400.12*	
		For >500 To 1,000, Deduct	*-154.35*	
		For >1,000 To 2,000, Deduct	*-233.42*	
		For >2,000 To 5,000, Deduct	*-381.10*	
		For >5,000, Deduct	*-632.62*	
33 01 30 72-0242	LF	33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,290.41	
		For Vinylester Resin, Add	*2,186.39*	
		For Epoxy Resin, Add	*257.68*	
		For Up To >10, Add	*2,062.68*	
		For >10 To 25, Add	*1,198.33*	
		For >25 To 50, Add	*875.17*	
		For >50 To 100, Add	*437.58*	
		For >500 To 1,000, Deduct	*-168.70*	
		For >1,000 To 2,000, Deduct	*-255.13*	
		For >2,000 To 5,000, Deduct	*-416.56*	
		For >5,000, Deduct	*-691.48*	
33 01 30 72-0243	LF	33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,569.02	
		For Vinylester Resin, Add	*2,371.94*	
		For Epoxy Resin, Add	*279.55*	
		For Up To >10, Add	*2,235.86*	
		For >10 To 25, Add	*1,298.47*	
		For >25 To 50, Add	*948.51*	
		For >50 To 100, Add	*474.25*	
		For >500 To 1,000, Deduct	*-182.96*	
		For >1,000 To 2,000, Deduct	*-276.70*	
		For >2,000 To 5,000, Deduct	*-451.75*	
		For >5,000, Deduct	*-749.91*	
33 01 30 72-0244	LF	33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,848.24	
		For Vinylester Resin, Add	*2,557.49*	
		For Epoxy Resin, Add	*301.42*	
		For Up To >10, Add	*2,410.85*	
		For >10 To 25, Add	*1,400.11*	
		For >25 To 50, Add	*1,022.75*	
		For >50 To 100, Add	*511.37*	
		For >500 To 1,000, Deduct	*-197.28*	
		For >1,000 To 2,000, Deduct	*-298.35*	
		For >2,000 To 5,000, Deduct	*-487.10*	
		For >5,000, Deduct	*-808.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0245	LF	33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,127.46	
		For Vinylester Resin, Add	*2,743.03*	
		For Epoxy Resin, Add	*323.29*	
		For Up To >10, Add	*2,585.86*	
		For >10 To 25, Add	*1,501.78*	
		For >25 To 50, Add	*1,097.00*	
		For >50 To 100, Add	*548.50*	
		For >500 To 1,000, Deduct	*-211.59*	
		For >1,000 To 2,000, Deduct	*-320.00*	
		For >2,000 To 5,000, Deduct	*-522.45*	
		For >5,000, Deduct	*-867.26*	
33 01 30 72-0246	LF	33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,406.68	
		For Vinylester Resin, Add	*2,928.58*	
		For Epoxy Resin, Add	*345.15*	
		For Up To >10, Add	*2,760.84*	
		For >10 To 25, Add	*1,603.42*	
		For >25 To 50, Add	*1,171.24*	
		For >50 To 100, Add	*585.62*	
		For >500 To 1,000, Deduct	*-225.91*	
		For >1,000 To 2,000, Deduct	*-341.65*	
		For >2,000 To 5,000, Deduct	*-557.79*	
		For >5,000, Deduct	*-925.94*	

33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0248	LF	34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,243.31	
		For Vinylester Resin, Add	*829.00*	
		For Epoxy Resin, Add	*97.70*	
		For Up To >10, Add	*769.21*	
		For >10 To 25, Add	*443.62*	
		For >25 To 50, Add	*325.39*	
		For >50 To 100, Add	*162.69*	
		For >500 To 1,000, Deduct	*-63.64*	
		For >1,000 To 2,000, Deduct	*-96.20*	
		For >2,000 To 5,000, Deduct	*-156.87*	
		For >5,000, Deduct	*-260.47*	
33 01 30 72-0249	LF	34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,388.79	
		For Vinylester Resin, Add	*925.99*	
		For Epoxy Resin, Add	*109.13*	
		For Up To >10, Add	*859.27*	
		For >10 To 25, Add	*495.59*	
		For >25 To 50, Add	*363.49*	
		For >50 To 100, Add	*181.75*	
		For >500 To 1,000, Deduct	*-71.09*	
		For >1,000 To 2,000, Deduct	*-107.46*	
		For >2,000 To 5,000, Deduct	*-175.23*	
		For >5,000, Deduct	*-290.95*	
33 01 30 72-0250	LF	34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,679.78	
		For Vinylester Resin, Add	*1,119.98*	
		For Epoxy Resin, Add	*132.00*	
		For Up To >10, Add	*1,039.42*	
		For >10 To 25, Add	*599.52*	
		For >25 To 50, Add	*439.71*	
		For >50 To 100, Add	*219.85*	
		For >500 To 1,000, Deduct	*-85.98*	
		For >1,000 To 2,000, Deduct	*-129.97*	
		For >2,000 To 5,000, Deduct	*-211.95*	
		For >5,000, Deduct	*-351.92*	
33 01 30 72-0251	LF	34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,970.59	
		For Vinylester Resin, Add	*1,313.96*	
		For Epoxy Resin, Add	*154.86*	
		For Up To >10, Add	*1,219.07*	
		For >10 To 25, Add	*703.05*	
		For >25 To 50, Add	*515.68*	
		For >50 To 100, Add	*257.84*	
		For >500 To 1,000, Deduct	*-100.87*	
		For >1,000 To 2,000, Deduct	*-152.47*	
		For >2,000 To 5,000, Deduct	*-248.63*	
		For >5,000, Deduct	*-412.82*	
33 01 30 72-0252	LF	34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,261.55	
		For Vinylester Resin, Add	*1,507.93*	
		For Epoxy Resin, Add	*177.72*	
		For Up To >10, Add	*1,399.18*	
		For >10 To 25, Add	*806.95*	
		For >25 To 50, Add	*591.88*	
		For >50 To 100, Add	*295.94*	
		For >500 To 1,000, Deduct	*-115.76*	
		For >1,000 To 2,000, Deduct	*-174.98*	
		For >2,000 To 5,000, Deduct	*-285.34*	
		For >5,000, Deduct	*-473.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0253	LF	34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,552.37	
		For Vinylester Resin, Add	*1,701.92*	
		For Epoxy Resin, Add	*200.58*	
		For Up To >10, Add	*1,578.84*	
		For >10 To 25, Add	*910.48*	
		For >25 To 50, Add	*667.85*	
		For >50 To 100, Add	*333.93*	
		For >500 To 1,000, Deduct	*-130.65*	
		For >1,000 To 2,000, Deduct	*-197.48*	
		For >2,000 To 5,000, Deduct	*-322.02*	
		For >5,000, Deduct	*-534.69*	
33 01 30 72-0254	LF	34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,843.35	
		For Vinylester Resin, Add	*1,895.90*	
		For Epoxy Resin, Add	*223.45*	
		For Up To >10, Add	*1,758.98*	
		For >10 To 25, Add	*1,014.41*	
		For >25 To 50, Add	*744.07*	
		For >50 To 100, Add	*372.03*	
		For >500 To 1,000, Deduct	*-145.54*	
		For >1,000 To 2,000, Deduct	*-220.00*	
		For >2,000 To 5,000, Deduct	*-358.74*	
		For >5,000, Deduct	*-595.65*	
33 01 30 72-0255	LF	34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,141.68	
		For Vinylester Resin, Add	*2,089.88*	
		For Epoxy Resin, Add	*246.31*	
		For Up To >10, Add	*1,961.19*	
		For >10 To 25, Add	*1,136.74*	
		For >25 To 50, Add	*831.32*	
		For >50 To 100, Add	*415.66*	
		For >500 To 1,000, Deduct	*-160.99*	
		For >1,000 To 2,000, Deduct	*-243.43*	
		For >2,000 To 5,000, Deduct	*-397.30*	
		For >5,000, Deduct	*-659.56*	
33 01 30 72-0256	LF	34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,433.55	
		For Vinylester Resin, Add	*2,283.86*	
		For Epoxy Resin, Add	*269.17*	
		For Up To >10, Add	*2,144.03*	
		For >10 To 25, Add	*1,242.91*	
		For >25 To 50, Add	*908.88*	
		For >50 To 100, Add	*454.44*	
		For >500 To 1,000, Deduct	*-175.95*	
		For >1,000 To 2,000, Deduct	*-266.06*	
		For >2,000 To 5,000, Deduct	*-434.24*	
		For >5,000, Deduct	*-720.89*	
33 01 30 72-0257	LF	34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,722.41	
		For Vinylester Resin, Add	*2,477.84*	
		For Epoxy Resin, Add	*292.03*	
		For Up To >10, Add	*2,317.81*	
		For >10 To 25, Add	*1,341.54*	
		For >25 To 50, Add	*981.91*	
		For >50 To 100, Add	*490.96*	
		For >500 To 1,000, Deduct	*-190.69*	
		For >1,000 To 2,000, Deduct	*-288.31*	
		For >2,000 To 5,000, Deduct	*-470.43*	
		For >5,000, Deduct	*-781.01*	
33 01 30 72-0258	LF	34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,016.55	
		For Vinylester Resin, Add	*2,671.82*	
		For Epoxy Resin, Add	*314.89*	
		For Up To >10, Add	*2,507.43*	
		For >10 To 25, Add	*1,453.37*	
		For >25 To 50, Add	*1,062.87*	
		For >50 To 100, Add	*531.43*	
		For >500 To 1,000, Deduct	*-205.82*	
		For >1,000 To 2,000, Deduct	*-311.22*	
		For >2,000 To 5,000, Deduct	*-507.94*	
		For >5,000, Deduct	*-843.24*	
33 01 30 72-0259	LF	34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,308.13	
		For Vinylester Resin, Add	*2,865.81*	
		For Epoxy Resin, Add	*337.76*	
		For Up To >10, Add	*2,689.37*	
		For >10 To 25, Add	*1,558.80*	
		For >25 To 50, Add	*1,139.98*	
		For >50 To 100, Add	*569.99*	
		For >500 To 1,000, Deduct	*-220.76*	
		For >1,000 To 2,000, Deduct	*-333.82*	
		For >2,000 To 5,000, Deduct	*-544.81*	
		For >5,000, Deduct	*-904.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0260	LF	34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,599.69	
		For Vinylester Resin, Add	*3,059.78*	
		For Epoxy Resin, Add	*360.62*	
		For Up To >10, Add	*2,871.27*	
		For >10 To 25, Add	*1,664.21*	
		For >25 To 50, Add	*1,217.08*	
		For >50 To 100, Add	*608.54*	
		For >500 To 1,000, Deduct	*-235.70*	
		For >1,000 To 2,000, Deduct	*-356.41*	
		For >2,000 To 5,000, Deduct	*-581.68*	
		For >5,000, Deduct	*-965.65*	

33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0262	LF	36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,293.31	
		For Vinylester Resin, Add	*863.05*	
		For Epoxy Resin, Add	*101.72*	
		For Up To >10, Add	*797.61*	
		For >10 To 25, Add	*459.18*	
		For >25 To 50, Add	*337.16*	
		For >50 To 100, Add	*168.58*	
		For >500 To 1,000, Deduct	*-66.18*	
		For >1,000 To 2,000, Deduct	*-100.02*	
		For >2,000 To 5,000, Deduct	*-163.05*	
		For >5,000, Deduct	*-270.74*	
33 01 30 72-0263	LF	36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,444.96	
		For Vinylester Resin, Add	*964.26*	
		For Epoxy Resin, Add	*113.64*	
		For Up To >10, Add	*891.11*	
		For >10 To 25, Add	*513.00*	
		For >25 To 50, Add	*376.68*	
		For >50 To 100, Add	*188.34*	
		For >500 To 1,000, Deduct	*-73.93*	
		For >1,000 To 2,000, Deduct	*-111.74*	
		For >2,000 To 5,000, Deduct	*-182.16*	
		For >5,000, Deduct	*-302.48*	
33 01 30 72-0264	LF	36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,748.29	
		For Vinylester Resin, Add	*1,166.68*	
		For Epoxy Resin, Add	*137.50*	
		For Up To >10, Add	*1,078.17*	
		For >10 To 25, Add	*620.70*	
		For >25 To 50, Add	*455.75*	
		For >50 To 100, Add	*227.88*	
		For >500 To 1,000, Deduct	*-89.45*	
		For >1,000 To 2,000, Deduct	*-135.20*	
		For >2,000 To 5,000, Deduct	*-220.40*	
		For >5,000, Deduct	*-365.98*	
33 01 30 72-0265	LF	36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,051.61	
		For Vinylester Resin, Add	*1,369.10*	
		For Epoxy Resin, Add	*161.36*	
		For Up To >10, Add	*1,265.21*	
		For >10 To 25, Add	*728.36*	
		For >25 To 50, Add	*534.81*	
		For >50 To 100, Add	*267.41*	
		For >500 To 1,000, Deduct	*-104.97*	
		For >1,000 To 2,000, Deduct	*-158.66*	
		For >2,000 To 5,000, Deduct	*-258.64*	
		For >5,000, Deduct	*-429.47*	
33 01 30 72-0266	LF	36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,354.78	
		For Vinylester Resin, Add	*1,571.51*	
		For Epoxy Resin, Add	*185.21*	
		For Up To >10, Add	*1,451.82*	
		For >10 To 25, Add	*835.68*	
		For >25 To 50, Add	*613.66*	
		For >50 To 100, Add	*306.83*	
		For >500 To 1,000, Deduct	*-120.48*	
		For >1,000 To 2,000, Deduct	*-182.10*	
		For >2,000 To 5,000, Deduct	*-296.84*	
		For >5,000, Deduct	*-492.91*	
33 01 30 72-0267	LF	36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,658.10	
		For Vinylester Resin, Add	*1,773.93*	
		For Epoxy Resin, Add	*209.07*	
		For Up To >10, Add	*1,638.85*	
		For >10 To 25, Add	*943.35*	
		For >25 To 50, Add	*692.72*	
		For >50 To 100, Add	*346.36*	
		For >500 To 1,000, Deduct	*-136.00*	
		For >1,000 To 2,000, Deduct	*-205.55*	
		For >2,000 To 5,000, Deduct	*-335.08*	
		For >5,000, Deduct	*-556.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0268	LF	36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,961.41	
		For Vinylester Resin, Add	*1,976.34*	
		For Epoxy Resin, Add	*232.93*	
		For Up To >10, Add	*1,825.88*	
		For >10 To 25, Add	*1,051.01*	
		For >25 To 50, Add	*771.77*	
		For >50 To 100, Add	*385.89*	
		For >500 To 1,000, Deduct	*-151.52*	
		For >1,000 To 2,000, Deduct	*-229.01*	
		For >2,000 To 5,000, Deduct	*-373.32*	
		For >5,000, Deduct	*-619.90*	
33 01 30 72-0269	LF	36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,272.41	
		For Vinylester Resin, Add	*2,178.75*	
		For Epoxy Resin, Add	*256.78*	
		For Up To >10, Add	*2,035.98*	
		For >10 To 25, Add	*1,177.90*	
		For >25 To 50, Add	*862.37*	
		For >50 To 100, Add	*431.18*	
		For >500 To 1,000, Deduct	*-167.62*	
		For >1,000 To 2,000, Deduct	*-253.43*	
		For >2,000 To 5,000, Deduct	*-413.48*	
		For >5,000, Deduct	*-686.46*	
33 01 30 72-0270	LF	36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,576.49	
		For Vinylester Resin, Add	*2,381.17*	
		For Epoxy Resin, Add	*280.64*	
		For Up To >10, Add	*2,225.30*	
		For >10 To 25, Add	*1,287.47*	
		For >25 To 50, Add	*942.56*	
		For >50 To 100, Add	*471.28*	
		For >500 To 1,000, Deduct	*-183.20*	
		For >1,000 To 2,000, Deduct	*-276.98*	
		For >2,000 To 5,000, Deduct	*-451.91*	
		For >5,000, Deduct	*-750.26*	
33 01 30 72-0271	LF	36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,875.44	
		For Vinylester Resin, Add	*2,583.58*	
		For Epoxy Resin, Add	*304.49*	
		For Up To >10, Add	*2,399.25*	
		For >10 To 25, Add	*1,384.23*	
		For >25 To 50, Add	*1,015.08*	
		For >50 To 100, Add	*507.54*	
		For >500 To 1,000, Deduct	*-198.39*	
		For >1,000 To 2,000, Deduct	*-299.89*	
		For >2,000 To 5,000, Deduct	*-489.05*	
		For >5,000, Deduct	*-812.01*	
33 01 30 72-0272	LF	36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,184.47	
		For Vinylester Resin, Add	*2,785.99*	
		For Epoxy Resin, Add	*328.35*	
		For Up To >10, Add	*2,603.44*	
		For >10 To 25, Add	*1,506.20*	
		For >25 To 50, Add	*1,102.72*	
		For >50 To 100, Add	*551.36*	
		For >500 To 1,000, Deduct	*-214.34*	
		For >1,000 To 2,000, Deduct	*-324.06*	
		For >2,000 To 5,000, Deduct	*-528.72*	
		For >5,000, Deduct	*-877.79*	
33 01 30 72-0273	LF	36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,488.54	
		For Vinylester Resin, Add	*2,988.41*	
		For Epoxy Resin, Add	*352.21*	
		For Up To >10, Add	*2,792.72*	
		For >10 To 25, Add	*1,615.74*	
		For >25 To 50, Add	*1,182.90*	
		For >50 To 100, Add	*591.45*	
		For >500 To 1,000, Deduct	*-229.91*	
		For >1,000 To 2,000, Deduct	*-347.61*	
		For >2,000 To 5,000, Deduct	*-567.14*	
		For >5,000, Deduct	*-941.58*	
33 01 30 72-0274	LF	36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,792.62	
		For Vinylester Resin, Add	*3,190.82*	
		For Epoxy Resin, Add	*376.06*	
		For Up To >10, Add	*2,982.06*	
		For >10 To 25, Add	*1,725.33*	
		For >25 To 50, Add	*1,263.11*	
		For >50 To 100, Add	*631.56*	
		For >500 To 1,000, Deduct	*-245.49*	
		For >1,000 To 2,000, Deduct	*-371.16*	
		For >2,000 To 5,000, Deduct	*-605.57*	
		For >5,000, Deduct	*-1,005.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0275	LF	36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,096.54	
		For Vinylester Resin, Add	*3,393.24*	
		For Epoxy Resin, Add	*399.92*	
		For Up To >10, Add	*3,170.90*	
		For >10 To 25, Add	*1,834.50*	
		For >25 To 50, Add	*1,343.07*	
		For >50 To 100, Add	*671.54*	
		For >500 To 1,000, Deduct	*-261.05*	
		For >1,000 To 2,000, Deduct	*-394.69*	
		For >2,000 To 5,000, Deduct	*-643.96*	
		For >5,000, Deduct	*-1,069.12*	
33 01 30 72-0276	LF	36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,400.60	
		For Vinylester Resin, Add	*3,595.66*	
		For Epoxy Resin, Add	*423.77*	
		For Up To >10, Add	*3,360.18*	
		For >10 To 25, Add	*1,944.04*	
		For >25 To 50, Add	*1,423.26*	
		For >50 To 100, Add	*711.63*	
		For >500 To 1,000, Deduct	*-276.63*	
		For >1,000 To 2,000, Deduct	*-418.24*	
		For >2,000 To 5,000, Deduct	*-682.39*	
		For >5,000, Deduct	*-1,132.91*	

33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0278	LF	37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,500.76	
		For Vinylester Resin, Add	*1,002.37*	
		For Epoxy Resin, Add	*118.14*	
		For Up To >10, Add	*922.41*	
		For >10 To 25, Add	*530.01*	
		For >25 To 50, Add	*389.61*	
		For >50 To 100, Add	*194.80*	
		For >500 To 1,000, Deduct	*-76.76*	
		For >1,000 To 2,000, Deduct	*-116.00*	
		For >2,000 To 5,000, Deduct	*-189.04*	
		For >5,000, Deduct	*-313.91*	
33 01 30 72-0279	LF	37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,816.42	
		For Vinylester Resin, Add	*1,213.21*	
		For Epoxy Resin, Add	*142.99*	
		For Up To >10, Add	*1,116.36*	
		For >10 To 25, Add	*641.44*	
		For >25 To 50, Add	*471.52*	
		For >50 To 100, Add	*235.76*	
		For >500 To 1,000, Deduct	*-92.90*	
		For >1,000 To 2,000, Deduct	*-140.39*	
		For >2,000 To 5,000, Deduct	*-228.79*	
		For >5,000, Deduct	*-379.94*	
33 01 30 72-0280	LF	37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,132.10	
		For Vinylester Resin, Add	*1,424.06*	
		For Epoxy Resin, Add	*167.84*	
		For Up To >10, Add	*1,310.38*	
		For >10 To 25, Add	*752.92*	
		For >25 To 50, Add	*553.47*	
		For >50 To 100, Add	*276.73*	
		For >500 To 1,000, Deduct	*-109.05*	
		For >1,000 To 2,000, Deduct	*-164.79*	
		For >2,000 To 5,000, Deduct	*-268.56*	
		For >5,000, Deduct	*-445.97*	
33 01 30 72-0281	LF	37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,447.77	
		For Vinylester Resin, Add	*1,634.91*	
		For Epoxy Resin, Add	*192.69*	
		For Up To >10, Add	*1,504.34*	
		For >10 To 25, Add	*864.35*	
		For >25 To 50, Add	*635.39*	
		For >50 To 100, Add	*317.69*	
		For >500 To 1,000, Deduct	*-125.19*	
		For >1,000 To 2,000, Deduct	*-189.19*	
		For >2,000 To 5,000, Deduct	*-308.32*	
		For >5,000, Deduct	*-511.99*	
33 01 30 72-0282	LF	37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,763.43	
		For Vinylester Resin, Add	*1,845.76*	
		For Epoxy Resin, Add	*217.54*	
		For Up To >10, Add	*1,698.29*	
		For >10 To 25, Add	*975.78*	
		For >25 To 50, Add	*717.31*	
		For >50 To 100, Add	*358.65*	
		For >500 To 1,000, Deduct	*-141.34*	
		For >1,000 To 2,000, Deduct	*-213.59*	
		For >2,000 To 5,000, Deduct	*-348.07*	
		For >5,000, Deduct	*-578.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0283	LF	37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,079.10	
		For Vinylester Resin, Add	*2,056.61*	
		For Epoxy Resin, Add	*242.39*	
		For Up To >10, Add	*1,892.25*	
		For >10 To 25, Add	*1,087.21*	
		For >25 To 50, Add	*799.22*	
		For >50 To 100, Add	*399.61*	
		For >500 To 1,000, Deduct	*-157.48*	
		For >1,000 To 2,000, Deduct	*-237.99*	
		For >2,000 To 5,000, Deduct	*-387.83*	
		For >5,000, Deduct	*-644.04*	
33 01 30 72-0284	LF	37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,402.59	
		For Vinylester Resin, Add	*2,267.45*	
		For Epoxy Resin, Add	*267.24*	
		For Up To >10, Add	*2,109.72*	
		For >10 To 25, Add	*1,218.23*	
		For >25 To 50, Add	*892.90*	
		For >50 To 100, Add	*446.45*	
		For >500 To 1,000, Deduct	*-174.21*	
		For >1,000 To 2,000, Deduct	*-263.36*	
		For >2,000 To 5,000, Deduct	*-429.55*	
		For >5,000, Deduct	*-713.19*	
33 01 30 72-0285	LF	37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,719.01	
		For Vinylester Resin, Add	*2,478.30*	
		For Epoxy Resin, Add	*292.09*	
		For Up To >10, Add	*2,305.96*	
		For >10 To 25, Add	*1,331.56*	
		For >25 To 50, Add	*975.96*	
		For >50 To 100, Add	*487.98*	
		For >500 To 1,000, Deduct	*-190.42*	
		For >1,000 To 2,000, Deduct	*-287.85*	
		For >2,000 To 5,000, Deduct	*-469.50*	
		For >5,000, Deduct	*-779.52*	
33 01 30 72-0286	LF	37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,032.88	
		For Vinylester Resin, Add	*2,689.16*	
		For Epoxy Resin, Add	*316.94*	
		For Up To >10, Add	*2,494.52*	
		For >10 To 25, Add	*1,438.49*	
		For >25 To 50, Add	*1,055.18*	
		For >50 To 100, Add	*527.59*	
		For >500 To 1,000, Deduct	*-206.42*	
		For >1,000 To 2,000, Deduct	*-312.03*	
		For >2,000 To 5,000, Deduct	*-508.81*	
		For >5,000, Deduct	*-844.82*	
33 01 30 72-0287	LF	37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,351.86	
		For Vinylester Resin, Add	*2,900.00*	
		For Epoxy Resin, Add	*341.79*	
		For Up To >10, Add	*2,698.43*	
		For >10 To 25, Add	*1,558.22*	
		For >25 To 50, Add	*1,142.07*	
		For >50 To 100, Add	*571.04*	
		For >500 To 1,000, Deduct	*-222.82*	
		For >1,000 To 2,000, Deduct	*-336.84*	
		For >2,000 To 5,000, Deduct	*-549.39*	
		For >5,000, Deduct	*-912.17*	
33 01 30 72-0288	LF	37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,668.28	
		For Vinylester Resin, Add	*3,110.86*	
		For Epoxy Resin, Add	*366.64*	
		For Up To >10, Add	*2,894.64*	
		For >10 To 25, Add	*1,671.52*	
		For >25 To 50, Add	*1,225.12*	
		For >50 To 100, Add	*612.56*	
		For >500 To 1,000, Deduct	*-239.02*	
		For >1,000 To 2,000, Deduct	*-361.33*	
		For >2,000 To 5,000, Deduct	*-589.34*	
		For >5,000, Deduct	*-978.50*	
33 01 30 72-0289	LF	37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,984.55	
		For Vinylester Resin, Add	*3,321.70*	
		For Epoxy Resin, Add	*391.49*	
		For Up To >10, Add	*3,090.43*	
		For >10 To 25, Add	*1,784.47*	
		For >25 To 50, Add	*1,307.95*	
		For >50 To 100, Add	*653.97*	
		For >500 To 1,000, Deduct	*-255.21*	
		For >1,000 To 2,000, Deduct	*-385.80*	
		For >2,000 To 5,000, Deduct	*-629.25*	
		For >5,000, Deduct	*-1,044.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0290	LF	37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,300.97	
		For Vinylester Resin, Add	*3,532.55*	
		For Epoxy Resin, Add	*416.34*	
		For Up To >10, Add	*3,286.66*	
		For >10 To 25, Add	*1,897.80*	
		For >25 To 50, Add	*1,391.01*	
		For >50 To 100, Add	*695.50*	
		For >500 To 1,000, Deduct	*-271.41*	
		For >1,000 To 2,000, Deduct	*-410.30*	
		For >2,000 To 5,000, Deduct	*-669.20*	
		For >5,000, Deduct	*-1,111.09*	
33 01 30 72-0291	LF	37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,617.39	
		For Vinylester Resin, Add	*3,743.40*	
		For Epoxy Resin, Add	*441.19*	
		For Up To >10, Add	*3,482.90*	
		For >10 To 25, Add	*2,011.13*	
		For >25 To 50, Add	*1,474.06*	
		For >50 To 100, Add	*737.03*	
		For >500 To 1,000, Deduct	*-287.61*	
		For >1,000 To 2,000, Deduct	*-434.79*	
		For >2,000 To 5,000, Deduct	*-709.15*	
		For >5,000, Deduct	*-1,177.41*	

33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0293	LF	39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	1,884.33	
		For Vinylester Resin, Add	*1,259.58*	
		For Epoxy Resin, Add	*148.45*	
		For Up To >10, Add	*1,154.49*	
		For >10 To 25, Add	*662.18*	
		For >25 To 50, Add	*487.28*	
		For >50 To 100, Add	*243.64*	
		For >500 To 1,000, Deduct	*-96.34*	
		For >1,000 To 2,000, Deduct	*-145.57*	
		For >2,000 To 5,000, Deduct	*-237.16*	
		For >5,000, Deduct	*-393.85*	
33 01 30 72-0294	LF	39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,212.34	
		For Vinylester Resin, Add	*1,478.86*	
		For Epoxy Resin, Add	*174.29*	
		For Up To >10, Add	*1,355.37*	
		For >10 To 25, Add	*777.37*	
		For >25 To 50, Add	*572.05*	
		For >50 To 100, Add	*286.03*	
		For >500 To 1,000, Deduct	*-113.11*	
		For >1,000 To 2,000, Deduct	*-170.91*	
		For >2,000 To 5,000, Deduct	*-278.44*	
		For >5,000, Deduct	*-462.40*	
33 01 30 72-0295	LF	39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,540.37	
		For Vinylester Resin, Add	*1,698.15*	
		For Epoxy Resin, Add	*200.14*	
		For Up To >10, Add	*1,556.29*	
		For >10 To 25, Add	*892.58*	
		For >25 To 50, Add	*656.85*	
		For >50 To 100, Add	*328.42*	
		For >500 To 1,000, Deduct	*-129.88*	
		For >1,000 To 2,000, Deduct	*-196.25*	
		For >2,000 To 5,000, Deduct	*-319.72*	
		For >5,000, Deduct	*-530.96*	
33 01 30 72-0296	LF	39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,868.37	
		For Vinylester Resin, Add	*1,917.43*	
		For Epoxy Resin, Add	*225.98*	
		For Up To >10, Add	*1,757.16*	
		For >10 To 25, Add	*1,007.77*	
		For >25 To 50, Add	*741.62*	
		For >50 To 100, Add	*370.81*	
		For >500 To 1,000, Deduct	*-146.65*	
		For >1,000 To 2,000, Deduct	*-221.59*	
		For >2,000 To 5,000, Deduct	*-361.00*	
		For >5,000, Deduct	*-599.51*	
33 01 30 72-0297	LF	39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,196.55	
		For Vinylester Resin, Add	*2,136.72*	
		For Epoxy Resin, Add	*251.83*	
		For Up To >10, Add	*1,958.53*	
		For >10 To 25, Add	*1,123.36*	
		For >25 To 50, Add	*826.64*	
		For >50 To 100, Add	*413.32*	
		For >500 To 1,000, Deduct	*-163.43*	
		For >1,000 To 2,000, Deduct	*-246.95*	
		For >2,000 To 5,000, Deduct	*-402.32*	
		For >5,000, Deduct	*-668.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0298	LF	39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,532.40	
		For Vinylester Resin, Add	*2,356.00*	
		For Epoxy Resin, Add	*277.67*	
		For Up To >10, Add	*2,182.93*	
		For >10 To 25, Add	*1,258.15*	
		For >25 To 50, Add	*923.18*	
		For >50 To 100, Add	*461.59*	
		For >500 To 1,000, Deduct	*-180.79*	
		For >1,000 To 2,000, Deduct	*-273.26*	
		For >2,000 To 5,000, Deduct	*-445.56*	
		For >5,000, Deduct	*-739.82*	
33 01 30 72-0299	LF	39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,861.16	
		For Vinylester Resin, Add	*2,575.28*	
		For Epoxy Resin, Add	*303.52*	
		For Up To >10, Add	*2,386.06*	
		For >10 To 25, Add	*1,375.22*	
		For >25 To 50, Add	*1,009.08*	
		For >50 To 100, Add	*504.54*	
		For >500 To 1,000, Deduct	*-197.61*	
		For >1,000 To 2,000, Deduct	*-298.70*	
		For >2,000 To 5,000, Deduct	*-487.02*	
		For >5,000, Deduct	*-808.67*	
33 01 30 72-0300	LF	39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,189.93	
		For Vinylester Resin, Add	*2,794.56*	
		For Epoxy Resin, Add	*329.36*	
		For Up To >10, Add	*2,589.22*	
		For >10 To 25, Add	*1,492.31*	
		For >25 To 50, Add	*1,095.00*	
		For >50 To 100, Add	*547.50*	
		For >500 To 1,000, Deduct	*-214.44*	
		For >1,000 To 2,000, Deduct	*-324.13*	
		For >2,000 To 5,000, Deduct	*-528.49*	
		For >5,000, Deduct	*-877.53*	
33 01 30 72-0301	LF	39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,518.85	
		For Vinylester Resin, Add	*3,013.84*	
		For Epoxy Resin, Add	*355.20*	
		For Up To >10, Add	*2,792.83*	
		For >10 To 25, Add	*1,609.77*	
		For >25 To 50, Add	*1,181.14*	
		For >50 To 100, Add	*590.57*	
		For >500 To 1,000, Deduct	*-231.28*	
		For >1,000 To 2,000, Deduct	*-349.58*	
		For >2,000 To 5,000, Deduct	*-570.00*	
		For >5,000, Deduct	*-946.44*	
33 01 30 72-0302	LF	39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,847.63	
		For Vinylester Resin, Add	*3,233.13*	
		For Epoxy Resin, Add	*381.05*	
		For Up To >10, Add	*2,995.99*	
		For >10 To 25, Add	*1,726.87*	
		For >25 To 50, Add	*1,267.06*	
		For >50 To 100, Add	*633.53*	
		For >500 To 1,000, Deduct	*-248.10*	
		For >1,000 To 2,000, Deduct	*-375.02*	
		For >2,000 To 5,000, Deduct	*-611.47*	
		For >5,000, Deduct	*-1,015.30*	
33 01 30 72-0303	LF	39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,176.40	
		For Vinylester Resin, Add	*3,452.41*	
		For Epoxy Resin, Add	*406.89*	
		For Up To >10, Add	*3,199.15*	
		For >10 To 25, Add	*1,843.96*	
		For >25 To 50, Add	*1,352.97*	
		For >50 To 100, Add	*676.49*	
		For >500 To 1,000, Deduct	*-264.93*	
		For >1,000 To 2,000, Deduct	*-400.45*	
		For >2,000 To 5,000, Deduct	*-652.94*	
		For >5,000, Deduct	*-1,084.16*	
33 01 30 72-0304	LF	39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,505.17	
		For Vinylester Resin, Add	*3,671.70*	
		For Epoxy Resin, Add	*432.74*	
		For Up To >10, Add	*3,402.31*	
		For >10 To 25, Add	*1,961.05*	
		For >25 To 50, Add	*1,438.89*	
		For >50 To 100, Add	*719.45*	
		For >500 To 1,000, Deduct	*-281.76*	
		For >1,000 To 2,000, Deduct	*-425.88*	
		For >2,000 To 5,000, Deduct	*-694.41*	
		For >5,000, Deduct	*-1,153.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0305	LF	39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,833.93	
		For Vinylester Resin, Add	*3,890.98*	
		For Epoxy Resin, Add	*458.58*	
		For Up To >10, Add	*3,605.44*	
		For >10 To 25, Add	*2,078.11*	
		For >25 To 50, Add	*1,524.79*	
		For >50 To 100, Add	*762.40*	
		For >500 To 1,000, Deduct	*-298.58*	
		For >1,000 To 2,000, Deduct	*-451.31*	
		For >2,000 To 5,000, Deduct	*-735.87*	
		For >5,000, Deduct	*-1,221.86*	
33 01 30 72-0306	LF	39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,162.71	
		For Vinylester Resin, Add	*4,110.26*	
		For Epoxy Resin, Add	*484.42*	
		For Up To >10, Add	*3,808.63*	
		For >10 To 25, Add	*2,195.23*	
		For >25 To 50, Add	*1,610.73*	
		For >50 To 100, Add	*805.36*	
		For >500 To 1,000, Deduct	*-315.41*	
		For >1,000 To 2,000, Deduct	*-476.75*	
		For >2,000 To 5,000, Deduct	*-777.34*	
		For >5,000, Deduct	*-1,290.72*	
33 01 30 72-0307	LF	39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,491.48	
		For Vinylester Resin, Add	*4,329.54*	
		For Epoxy Resin, Add	*510.27*	
		For Up To >10, Add	*4,011.79*	
		For >10 To 25, Add	*2,312.32*	
		For >25 To 50, Add	*1,696.64*	
		For >50 To 100, Add	*848.32*	
		For >500 To 1,000, Deduct	*-332.23*	
		For >1,000 To 2,000, Deduct	*-502.18*	
		For >2,000 To 5,000, Deduct	*-818.81*	
		For >5,000, Deduct	*-1,359.58*	

33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0309	LF	40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,292.21	
		For Vinylester Resin, Add	*1,533.50*	
		For Epoxy Resin, Add	*180.73*	
		For Up To >10, Add	*1,399.83*	
		For >10 To 25, Add	*801.41*	
		For >25 To 50, Add	*590.38*	
		For >50 To 100, Add	*295.19*	
		For >500 To 1,000, Deduct	*-117.15*	
		For >1,000 To 2,000, Deduct	*-176.99*	
		For >2,000 To 5,000, Deduct	*-288.26*	
		For >5,000, Deduct	*-478.74*	
33 01 30 72-0310	LF	40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,632.58	
		For Vinylester Resin, Add	*1,761.22*	
		For Epoxy Resin, Add	*207.57*	
		For Up To >10, Add	*1,607.67*	
		For >10 To 25, Add	*920.38*	
		For >25 To 50, Add	*678.03*	
		For >50 To 100, Add	*339.02*	
		For >500 To 1,000, Deduct	*-134.54*	
		For >1,000 To 2,000, Deduct	*-203.27*	
		For >2,000 To 5,000, Deduct	*-331.06*	
		For >5,000, Deduct	*-549.83*	
33 01 30 72-0311	LF	40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,972.94	
		For Vinylester Resin, Add	*1,988.94*	
		For Epoxy Resin, Add	*234.41*	
		For Up To >10, Add	*1,815.47*	
		For >10 To 25, Add	*1,039.34*	
		For >25 To 50, Add	*765.67*	
		For >50 To 100, Add	*382.83*	
		For >500 To 1,000, Deduct	*-151.94*	
		For >1,000 To 2,000, Deduct	*-229.55*	
		For >2,000 To 5,000, Deduct	*-373.86*	
		For >5,000, Deduct	*-620.91*	
33 01 30 72-0312	LF	40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,313.31	
		For Vinylester Resin, Add	*2,216.66*	
		For Epoxy Resin, Add	*261.25*	
		For Up To >10, Add	*2,023.31*	
		For >10 To 25, Add	*1,158.31*	
		For >25 To 50, Add	*853.32*	
		For >50 To 100, Add	*426.66*	
		For >500 To 1,000, Deduct	*-169.33*	
		For >1,000 To 2,000, Deduct	*-255.83*	
		For >2,000 To 5,000, Deduct	*-416.66*	
		For >5,000, Deduct	*-691.99*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0313	LF	40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,661.81	
		For Vinylester Resin, Add	*2,444.37*	
		For Epoxy Resin, Add	*288.09*	
		For Up To >10, Add	*2,255.53*	
		For >10 To 25, Add	*1,297.62*	
		For >25 To 50, Add	*953.17*	
		For >50 To 100, Add	*476.58*	
		For >500 To 1,000, Deduct	*-187.34*	
		For >1,000 To 2,000, Deduct	*-283.13*	
		For >2,000 To 5,000, Deduct	*-461.50*	
		For >5,000, Deduct	*-766.33*	
33 01 30 72-0314	LF	40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,002.93	
		For Vinylester Resin, Add	*2,672.09*	
		For Epoxy Resin, Add	*314.92*	
		For Up To >10, Add	*2,465.62*	
		For >10 To 25, Add	*1,418.47*	
		For >25 To 50, Add	*1,041.94*	
		For >50 To 100, Add	*520.97*	
		For >500 To 1,000, Deduct	*-204.79*	
		For >1,000 To 2,000, Deduct	*-309.50*	
		For >2,000 To 5,000, Deduct	*-504.49*	
		For >5,000, Deduct	*-837.72*	
33 01 30 72-0315	LF	40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,344.05	
		For Vinylester Resin, Add	*2,899.81*	
		For Epoxy Resin, Add	*341.76*	
		For Up To >10, Add	*2,675.70*	
		For >10 To 25, Add	*1,539.32*	
		For >25 To 50, Add	*1,130.72*	
		For >50 To 100, Add	*565.36*	
		For >500 To 1,000, Deduct	*-222.24*	
		For >1,000 To 2,000, Deduct	*-335.88*	
		For >2,000 To 5,000, Deduct	*-547.48*	
		For >5,000, Deduct	*-909.10*	
33 01 30 72-0316	LF	40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,685.17	
		For Vinylester Resin, Add	*3,127.52*	
		For Epoxy Resin, Add	*368.60*	
		For Up To >10, Add	*2,885.79*	
		For >10 To 25, Add	*1,660.17*	
		For >25 To 50, Add	*1,219.50*	
		For >50 To 100, Add	*609.75*	
		For >500 To 1,000, Deduct	*-239.69*	
		For >1,000 To 2,000, Deduct	*-362.25*	
		For >2,000 To 5,000, Deduct	*-590.47*	
		For >5,000, Deduct	*-980.49*	
33 01 30 72-0317	LF	40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,026.28	
		For Vinylester Resin, Add	*3,355.24*	
		For Epoxy Resin, Add	*395.44*	
		For Up To >10, Add	*3,095.84*	
		For >10 To 25, Add	*1,781.00*	
		For >25 To 50, Add	*1,308.26*	
		For >50 To 100, Add	*654.13*	
		For >500 To 1,000, Deduct	*-257.14*	
		For >1,000 To 2,000, Deduct	*-388.63*	
		For >2,000 To 5,000, Deduct	*-633.45*	
		For >5,000, Deduct	*-1,051.87*	
33 01 30 72-0318	LF	40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,367.40	
		For Vinylester Resin, Add	*3,582.96*	
		For Epoxy Resin, Add	*422.28*	
		For Up To >10, Add	*3,305.93*	
		For >10 To 25, Add	*1,901.85*	
		For >25 To 50, Add	*1,397.04*	
		For >50 To 100, Add	*698.52*	
		For >500 To 1,000, Deduct	*-274.59*	
		For >1,000 To 2,000, Deduct	*-415.00*	
		For >2,000 To 5,000, Deduct	*-676.44*	
		For >5,000, Deduct	*-1,123.26*	
33 01 30 72-0319	LF	40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,708.52	
		For Vinylester Resin, Add	*3,810.67*	
		For Epoxy Resin, Add	*449.12*	
		For Up To >10, Add	*3,516.01*	
		For >10 To 25, Add	*2,022.71*	
		For >25 To 50, Add	*1,485.81*	
		For >50 To 100, Add	*742.91*	
		For >500 To 1,000, Deduct	*-292.04*	
		For >1,000 To 2,000, Deduct	*-441.37*	
		For >2,000 To 5,000, Deduct	*-719.43*	
		For >5,000, Deduct	*-1,194.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0320	LF	40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,049.65	
		For Vinylester Resin, Add	*4,038.39*	
		For Epoxy Resin, Add	*475.95*	
		For Up To >10, Add	*3,726.13*	
		For >10 To 25, Add	*2,143.58*	
		For >25 To 50, Add	*1,574.61*	
		For >50 To 100, Add	*787.30*	
		For >500 To 1,000, Deduct	*-309.50*	
		For >1,000 To 2,000, Deduct	*-467.75*	
		For >2,000 To 5,000, Deduct	*-762.43*	
		For >5,000, Deduct	*-1,266.03*	
33 01 30 72-0321	LF	40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,390.77	
		For Vinylester Resin, Add	*4,266.11*	
		For Epoxy Resin, Add	*502.79*	
		For Up To >10, Add	*3,936.21*	
		For >10 To 25, Add	*2,264.44*	
		For >25 To 50, Add	*1,663.38*	
		For >50 To 100, Add	*831.69*	
		For >500 To 1,000, Deduct	*-326.95*	
		For >1,000 To 2,000, Deduct	*-494.12*	
		For >2,000 To 5,000, Deduct	*-805.42*	
		For >5,000, Deduct	*-1,337.42*	
33 01 30 72-0322	LF	40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,731.89	
		For Vinylester Resin, Add	*4,493.83*	
		For Epoxy Resin, Add	*529.63*	
		For Up To >10, Add	*4,146.30*	
		For >10 To 25, Add	*2,385.29*	
		For >25 To 50, Add	*1,752.16*	
		For >50 To 100, Add	*876.08*	
		For >500 To 1,000, Deduct	*-344.40*	
		For >1,000 To 2,000, Deduct	*-520.50*	
		For >2,000 To 5,000, Deduct	*-848.41*	
		For >5,000, Deduct	*-1,408.81*	

33 01 30 72-0323 42mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0324	LF	42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	2,724.39	
		For Vinylester Resin, Add	*1,824.12*	
		For Epoxy Resin, Add	*214.99*	
		For Up To >10, Add	*1,658.45*	
		For >10 To 25, Add	*947.72*	
		For >25 To 50, Add	*698.93*	
		For >50 To 100, Add	*349.46*	
		For >500 To 1,000, Deduct	*-139.18*	
		For >1,000 To 2,000, Deduct	*-210.25*	
		For >2,000 To 5,000, Deduct	*-342.33*	
		For >5,000, Deduct	*-568.58*	
33 01 30 72-0325	LF	42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,077.12	
		For Vinylester Resin, Add	*2,060.28*	
		For Epoxy Resin, Add	*242.82*	
		For Up To >10, Add	*1,873.21*	
		For >10 To 25, Add	*1,070.47*	
		For >25 To 50, Add	*789.44*	
		For >50 To 100, Add	*394.72*	
		For >500 To 1,000, Deduct	*-157.20*	
		For >1,000 To 2,000, Deduct	*-237.48*	
		For >2,000 To 5,000, Deduct	*-386.66*	
		For >5,000, Deduct	*-642.20*	
33 01 30 72-0326	LF	42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,429.83	
		For Vinylester Resin, Add	*2,296.43*	
		For Epoxy Resin, Add	*270.65*	
		For Up To >10, Add	*2,087.97*	
		For >10 To 25, Add	*1,193.20*	
		For >25 To 50, Add	*879.95*	
		For >50 To 100, Add	*439.98*	
		For >500 To 1,000, Deduct	*-175.22*	
		For >1,000 To 2,000, Deduct	*-264.70*	
		For >2,000 To 5,000, Deduct	*-430.98*	
		For >5,000, Deduct	*-715.81*	
33 01 30 72-0327	LF	42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	3,790.83	
		For Vinylester Resin, Add	*2,532.58*	
		For Epoxy Resin, Add	*298.48*	
		For Up To >10, Add	*2,327.57*	
		For >10 To 25, Add	*1,336.64*	
		For >25 To 50, Add	*982.88*	
		For >50 To 100, Add	*491.44*	
		For >500 To 1,000, Deduct	*-193.86*	
		For >1,000 To 2,000, Deduct	*-292.96*	
		For >2,000 To 5,000, Deduct	*-477.37*	
		For >5,000, Deduct	*-792.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0328	LF	42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,144.30	
		For Vinylester Resin, Add	*2,768.73*	
		For Epoxy Resin, Add	*326.31*	
		For Up To >10, Add	*2,544.58*	
		For >10 To 25, Add	*1,461.26*	
		For >25 To 50, Add	*1,074.52*	
		For >50 To 100, Add	*537.26*	
		For >500 To 1,000, Deduct	*-211.94*	
		For >1,000 To 2,000, Deduct	*-320.27*	
		For >2,000 To 5,000, Deduct	*-521.88*	
		For >5,000, Deduct	*-866.65*	
33 01 30 72-0329	LF	42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,497.77	
		For Vinylester Resin, Add	*3,004.88*	
		For Epoxy Resin, Add	*354.15*	
		For Up To >10, Add	*2,761.59*	
		For >10 To 25, Add	*1,585.87*	
		For >25 To 50, Add	*1,166.16*	
		For >50 To 100, Add	*583.08*	
		For >500 To 1,000, Deduct	*-230.02*	
		For >1,000 To 2,000, Deduct	*-347.59*	
		For >2,000 To 5,000, Deduct	*-566.39*	
		For >5,000, Deduct	*-940.57*	
33 01 30 72-0330	LF	42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	4,851.24	
		For Vinylester Resin, Add	*3,241.04*	
		For Epoxy Resin, Add	*381.98*	
		For Up To >10, Add	*2,978.60*	
		For >10 To 25, Add	*1,710.49*	
		For >25 To 50, Add	*1,257.80*	
		For >50 To 100, Add	*628.90*	
		For >500 To 1,000, Deduct	*-248.09*	
		For >1,000 To 2,000, Deduct	*-374.90*	
		For >2,000 To 5,000, Deduct	*-610.90*	
		For >5,000, Deduct	*-1,014.49*	
33 01 30 72-0331	LF	42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,204.70	
		For Vinylester Resin, Add	*3,477.18*	
		For Epoxy Resin, Add	*409.81*	
		For Up To >10, Add	*3,195.60*	
		For >10 To 25, Add	*1,835.10*	
		For >25 To 50, Add	*1,349.43*	
		For >50 To 100, Add	*674.72*	
		For >500 To 1,000, Deduct	*-266.17*	
		For >1,000 To 2,000, Deduct	*-402.22*	
		For >2,000 To 5,000, Deduct	*-655.41*	
		For >5,000, Deduct	*-1,088.40*	
33 01 30 72-0332	LF	42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,558.18	
		For Vinylester Resin, Add	*3,713.33*	
		For Epoxy Resin, Add	*437.64*	
		For Up To >10, Add	*3,412.64*	
		For >10 To 25, Add	*1,959.74*	
		For >25 To 50, Add	*1,441.08*	
		For >50 To 100, Add	*720.54*	
		For >500 To 1,000, Deduct	*-284.24*	
		For >1,000 To 2,000, Deduct	*-429.53*	
		For >2,000 To 5,000, Deduct	*-699.93*	
		For >5,000, Deduct	*-1,162.32*	
33 01 30 72-0333	LF	42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	5,911.64	
		For Vinylester Resin, Add	*3,949.48*	
		For Epoxy Resin, Add	*465.47*	
		For Up To >10, Add	*3,629.62*	
		For >10 To 25, Add	*2,084.33*	
		For >25 To 50, Add	*1,532.70*	
		For >50 To 100, Add	*766.35*	
		For >500 To 1,000, Deduct	*-302.32*	
		For >1,000 To 2,000, Deduct	*-456.85*	
		For >2,000 To 5,000, Deduct	*-744.43*	
		For >5,000, Deduct	*-1,236.23*	
33 01 30 72-0334	LF	42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,265.12	
		For Vinylester Resin, Add	*4,185.64*	
		For Epoxy Resin, Add	*493.31*	
		For Up To >10, Add	*3,846.66*	
		For >10 To 25, Add	*2,208.97*	
		For >25 To 50, Add	*1,624.36*	
		For >50 To 100, Add	*812.18*	
		For >500 To 1,000, Deduct	*-320.40*	
		For >1,000 To 2,000, Deduct	*-484.17*	
		For >2,000 To 5,000, Deduct	*-788.95*	
		For >5,000, Deduct	*-1,310.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0335	LF	42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,618.59	
		For Vinylester Resin, Add	*4,421.79*	
		For Epoxy Resin, Add	*521.14*	
		For Up To >10, Add	*4,063.67*	
		For >10 To 25, Add	*2,333.59*	
		For >25 To 50, Add	*1,715.99*	
		For >50 To 100, Add	*858.00*	
		For >500 To 1,000, Deduct	*-338.47*	
		For >1,000 To 2,000, Deduct	*-511.48*	
		For >2,000 To 5,000, Deduct	*-833.46*	
		For >5,000, Deduct	*-1,384.07*	
33 01 30 72-0336	LF	42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	6,972.06	
		For Vinylester Resin, Add	*4,657.94*	
		For Epoxy Resin, Add	*548.97*	
		For Up To >10, Add	*4,280.68*	
		For >10 To 25, Add	*2,458.20*	
		For >25 To 50, Add	*1,807.63*	
		For >50 To 100, Add	*903.82*	
		For >500 To 1,000, Deduct	*-356.55*	
		For >1,000 To 2,000, Deduct	*-538.80*	
		For >2,000 To 5,000, Deduct	*-877.97*	
		For >5,000, Deduct	*-1,457.98*	

33 01 30 72-0337 Ultra Violet Cured In Place (CIP) Relining Underground Pipelines *(33 01 30 72)*

Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0338 Ultra Violet Cured In Place Lining Set-up and Insertion *(33 01 30 72-0337)*

33 01 30 72-0339	EA	Initial Set-up And Final Equipment Removal For Ultra Violet Relining Underground Pipelines	6,022.95
33 01 30 72-0340	EA	Move And Re-Set Different Location	2,723.16
33 01 30 72-0341	EA	Short Term Flexural ASTM D-790	1,134.65
33 01 30 72-0342	EA	Short Term Tensile ASTM D-638	1,701.98
33 01 30 72-0343	EA	Thickness ASTM D-3567	283.66
33 01 30 72-0344	EA	Long Term Flexural ASTM D-2990	17,019.75
		Note: A thickness test may be required per location	

33 01 30 72-0345 Lining Pipe With Ultra Violet Cured In Place (CIP) Liner *(33 01 30 72-0337)*

33 01 30 72-0346	LF	2.8 mm Ultra Violet Cured In Place (CIP) Liner For 6" Pipe	43.57	
		For Quantities <100', Add	*22.46*	
		For Quantities >100' To 200', Add	*11.23*	
33 01 30 72-0347	LF	3.5 mm Ultra Violet Cured In Place (CIP) Liner For 6" Pipe	48.65	
		For Quantities <100', Add	*23.68*	
		For Quantities >100' To 200', Add	*11.84*	
33 01 30 72-0348	LF	4.2 mm Ultra Violet Cured In Place (CIP) Liner For 6" Pipe	52.74	
		For Quantities <100', Add	*24.67*	
		For Quantities >100' To 200', Add	*12.33*	
33 01 30 72-0349	LF	4.9 mm Ultra Violet Cured In Place (CIP) Liner For 6" Pipe	56.78	
		For Quantities <100', Add	*25.64*	
		For Quantities >100' To 200', Add	*12.82*	
33 01 30 72-0350	LF	2.8 mm Ultra Violet Cured In Place (CIP) Liner For 8" Pipe	55.44	
		For Quantities <100', Add	*25.96*	
33 01 30 72-0351	LF	3.5 mm Ultra Violet Cured In Place (CIP) Liner For 8" Pipe	61.43	
		For Quantities <100', Add	*27.48*	
33 01 30 72-0352	LF	4.2 mm Ultra Violet Cured In Place (CIP) Liner For 8" Pipe	66.99	
		For Quantities <100', Add	*28.89*	
33 01 30 72-0353	LF	4.9 mm Ultra Violet Cured In Place (CIP) Liner For 8" Pipe	72.75	
		For Quantities <100', Add	*30.35*	
33 01 30 72-0354	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 8" Pipe	78.52	
		For Quantities <100', Add	*31.82*	
33 01 30 72-0355	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 8" Pipe	84.28	
		For Quantities <100', Add	*33.28*	
33 01 30 72-0356	LF	2.8 mm Ultra Violet Cured In Place (CIP) Liner For 10" Pipe	62.59	
		For Quantities <100', Add	*26.46*	
33 01 30 72-0357	LF	3.5 mm Ultra Violet Cured In Place (CIP) Liner For 10" Pipe	69.85	
		For Quantities <100', Add	*28.13*	
33 01 30 72-0358	LF	4.2 mm Ultra Violet Cured In Place (CIP) Liner For 10" Pipe	77.11	
		For Quantities <100', Add	*29.79*	
33 01 30 72-0359	LF	4.9 mm Ultra Violet Cured In Place (CIP) Liner For 10" Pipe	84.37	
		For Quantities <100', Add	*31.46*	
33 01 30 72-0360	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 10" Pipe	91.61	
		For Quantities <100', Add	*33.12*	
33 01 30 72-0361	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 10" Pipe	98.87	
		For Quantities <100', Add	*34.78*	
33 01 30 72-0362	LF	2.8 mm Ultra Violet Cured In Place (CIP) Liner For 12" Pipe	70.89	
		For Quantities <100', Add	*27.46*	
33 01 30 72-0363	LF	3.5 mm Ultra Violet Cured In Place (CIP) Liner For 12" Pipe	79.52	
		For Quantities <100', Add	*29.31*	
33 01 30 72-0364	LF	4.2 mm Ultra Violet Cured In Place (CIP) Liner For 12" Pipe	88.27	
		For Quantities <100', Add	*31.18*	
33 01 30 72-0365	LF	4.9 mm Ultra Violet Cured In Place (CIP) Liner For 12" Pipe	97.08	
		For Quantities <100', Add	*33.07*	
33 01 30 72-0366	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 12" Pipe	105.86	
		For Quantities <100', Add	*34.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0367	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 12" Pipe	114.64	
		For Quantities <100', Add	*36.84*	
33 01 30 72-0368	LF	7.0 mm Ultra Violet Cured In Place (CIP) Liner For 12" Pipe	123.43	
		For Quantities <100', Add	*38.73*	
33 01 30 72-0369	LF	7.7 mm Ultra Violet Cured In Place (CIP) Liner For 12" Pipe	132.23	
		For Quantities <100', Add	*40.61*	
33 01 30 72-0370	LF	2.8 mm Ultra Violet Cured In Place (CIP) Liner For 15" Pipe	87.46	
		For Quantities <100', Add	*32.38*	
33 01 30 72-0371	LF	3.5 mm Ultra Violet Cured In Place (CIP) Liner For 15" Pipe	95.13	
		For Quantities <100', Add	*34.16*	
33 01 30 72-0372	LF	4.2 mm Ultra Violet Cured In Place (CIP) Liner For 15" Pipe	106.13	
		For Quantities <100', Add	*36.72*	
33 01 30 72-0373	LF	4.9 mm Ultra Violet Cured In Place (CIP) Liner For 15" Pipe	117.16	
		For Quantities <100', Add	*39.28*	
33 01 30 72-0374	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 15" Pipe	128.17	
		For Quantities <100', Add	*41.83*	
33 01 30 72-0375	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 15" Pipe	139.18	
		For Quantities <100', Add	*44.39*	
33 01 30 72-0376	LF	7.0 mm Ultra Violet Cured In Place (CIP) Liner For 15" Pipe	150.20	
		For Quantities <100', Add	*46.94*	
33 01 30 72-0377	LF	7.7 mm Ultra Violet Cured In Place (CIP) Liner For 15" Pipe	161.21	
		For Quantities <100', Add	*49.50*	
33 01 30 72-0378	LF	4.2 mm Ultra Violet Cured In Place (CIP) Liner For 18" Pipe	137.04	
		For Quantities <100', Add	*38.21*	
33 01 30 72-0379	LF	4.9 mm Ultra Violet Cured In Place (CIP) Liner For 18" Pipe	150.38	
		For Quantities <100', Add	*40.39*	
33 01 30 72-0380	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 18" Pipe	163.75	
		For Quantities <100', Add	*42.57*	
33 01 30 72-0381	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 18" Pipe	177.07	
		For Quantities <100', Add	*44.75*	
33 01 30 72-0382	LF	7.0 mm Ultra Violet Cured In Place (CIP) Liner For 18" Pipe	190.41	
		For Quantities <100', Add	*46.92*	
33 01 30 72-0383	LF	7.7 mm Ultra Violet Cured In Place (CIP) Liner For 18" Pipe	203.75	
		For Quantities <100', Add	*49.10*	
33 01 30 72-0384	LF	8.4 mm Ultra Violet Cured In Place (CIP) Liner For 18" Pipe	217.08	
		For Quantities <100', Add	*51.28*	
33 01 30 72-0385	LF	9.1 mm Ultra Violet Cured In Place (CIP) Liner For 18" Pipe	230.42	
		For Quantities <100', Add	*53.46*	
33 01 30 72-0386	LF	4.9 mm Ultra Violet Cured In Place (CIP) Liner For 21" Pipe	173.10	
		For Quantities <100', Add	*42.01*	
33 01 30 72-0387	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 21" Pipe	188.74	
		For Quantities <100', Add	*43.92*	
33 01 30 72-0388	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 21" Pipe	204.38	
		For Quantities <100', Add	*45.82*	
33 01 30 72-0389	LF	7.0 mm Ultra Violet Cured In Place (CIP) Liner For 21" Pipe	220.03	
		For Quantities <100', Add	*47.73*	
33 01 30 72-0390	LF	7.7 mm Ultra Violet Cured In Place (CIP) Liner For 21" Pipe	235.67	
		For Quantities <100', Add	*49.63*	
33 01 30 72-0391	LF	8.4 mm Ultra Violet Cured In Place (CIP) Liner For 21" Pipe	251.30	
		For Quantities <100', Add	*51.54*	
33 01 30 72-0392	LF	9.1 mm Ultra Violet Cured In Place (CIP) Liner For 21" Pipe	266.92	
		For Quantities <100', Add	*53.44*	
33 01 30 72-0393	LF	9.8 mm Ultra Violet Cured In Place (CIP) Liner For 21" Pipe	282.60	
		For Quantities <100', Add	*55.35*	
33 01 30 72-0394	LF	10.5 mm Ultra Violet Cured In Place (CIP) Liner For 21" Pipe	298.23	
		For Quantities <100', Add	*57.25*	
33 01 30 72-0395	LF	4.9 mm Ultra Violet Cured In Place (CIP) Liner For 24" Pipe	193.28	
		For Quantities <100', Add	*44.52*	
33 01 30 72-0396	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 24" Pipe	211.23	
		For Quantities <100', Add	*46.71*	
33 01 30 72-0397	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 24" Pipe	229.18	
		For Quantities <100', Add	*48.90*	
33 01 30 72-0398	LF	7.0 mm Ultra Violet Cured In Place (CIP) Liner For 24" Pipe	247.11	
		For Quantities <100', Add	*51.09*	
33 01 30 72-0399	LF	7.7 mm Ultra Violet Cured In Place (CIP) Liner For 24" Pipe	264.51	
		For Quantities <100', Add	*53.22*	
33 01 30 72-0400	LF	8.4 mm Ultra Violet Cured In Place (CIP) Liner For 24" Pipe	283.01	
		For Quantities <100', Add	*55.48*	
33 01 30 72-0401	LF	9.1 mm Ultra Violet Cured In Place (CIP) Liner For 24" Pipe	300.91	
		For Quantities <100', Add	*57.66*	
33 01 30 72-0402	LF	9.8 mm Ultra Violet Cured In Place (CIP) Liner For 24" Pipe	318.86	
		For Quantities <100', Add	*59.85*	
33 01 30 72-0403	LF	10.5 mm Ultra Violet Cured In Place (CIP) Liner For 24" Pipe	336.81	
		For Quantities <100', Add	*62.04*	
33 01 30 72-0404	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	249.06	
		For Quantities <100', Add	*55.33*	
33 01 30 72-0405	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	270.48	
		For Quantities <100', Add	*57.86*	
33 01 30 72-0406	LF	7.0 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	291.93	
		For Quantities <100', Add	*60.39*	
33 01 30 72-0407	LF	7.7 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	313.37	
		For Quantities <100', Add	*62.92*	
33 01 30 72-0408	LF	8.4 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	334.82	
		For Quantities <100', Add	*65.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0409	LF	9.1 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	356.24	
		For Quantities <100', Add	*67.97*	
33 01 30 72-0410	LF	9.8 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	377.66	
		For Quantities <100', Add	*70.50*	
33 01 30 72-0411	LF	10.5 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	399.13	
		For Quantities <100', Add	*73.03*	
33 01 30 72-0412	LF	11.2 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	420.55	
		For Quantities <100', Add	*75.55*	
33 01 30 72-0413	LF	11.9 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	441.98	
		For Quantities <100', Add	*78.08*	
33 01 30 72-0414	LF	12.6 mm Ultra Violet Cured In Place (CIP) Liner For 27" Pipe	463.42	
		For Quantities <100', Add	*80.61*	
33 01 30 72-0415	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	267.81	
		For Quantities <100', Add	*55.88*	
33 01 30 72-0416	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	291.36	
		For Quantities <100', Add	*58.49*	
33 01 30 72-0417	LF	7.0 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	314.94	
		For Quantities <100', Add	*61.10*	
33 01 30 72-0418	LF	7.7 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	338.54	
		For Quantities <100', Add	*63.72*	
33 01 30 72-0419	LF	8.4 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	362.12	
		For Quantities <100', Add	*66.33*	
33 01 30 72-0420	LF	9.1 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	385.72	
		For Quantities <100', Add	*68.95*	
33 01 30 72-0421	LF	9.8 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	409.28	
		For Quantities <100', Add	*71.56*	
33 01 30 72-0422	LF	10.5 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	432.85	
		For Quantities <100', Add	*74.18*	
33 01 30 72-0423	LF	11.2 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	456.43	
		For Quantities <100', Add	*76.79*	
33 01 30 72-0424	LF	11.9 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	467.48	
		For Quantities <100', Add	*78.02*	
33 01 30 72-0425	LF	12.6 mm Ultra Violet Cured In Place (CIP) Liner For 30" Pipe	503.59	
		For Quantities <100', Add	*82.02*	
33 01 30 72-0426	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	289.03	
		For Quantities <100', Add	*56.49*	
33 01 30 72-0427	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	314.78	
		For Quantities <100', Add	*59.17*	
33 01 30 72-0428	LF	7.0 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	340.49	
		For Quantities <100', Add	*61.85*	
33 01 30 72-0429	LF	7.7 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	366.23	
		For Quantities <100', Add	*64.53*	
33 01 30 72-0430	LF	8.4 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	391.98	
		For Quantities <100', Add	*67.22*	
33 01 30 72-0431	LF	9.1 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	417.72	
		For Quantities <100', Add	*69.90*	
33 01 30 72-0432	LF	9.8 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	443.47	
		For Quantities <100', Add	*72.58*	
33 01 30 72-0433	LF	10.5 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	469.21	
		For Quantities <100', Add	*75.26*	
33 01 30 72-0434	LF	11.2 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	494.96	
		For Quantities <100', Add	*77.95*	
33 01 30 72-0435	LF	11.9 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	506.97	
		For Quantities <100', Add	*79.20*	
33 01 30 72-0436	LF	12.6 mm Ultra Violet Cured In Place (CIP) Liner For 33" Pipe	546.45	
		For Quantities <100', Add	*83.31*	
33 01 30 72-0437	LF	5.6 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	329.27	
		For Quantities <100', Add	*74.55*	
33 01 30 72-0438	LF	6.3 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	357.73	
		For Quantities <100', Add	*77.59*	
33 01 30 72-0439	LF	7.0 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	386.17	
		For Quantities <100', Add	*80.62*	
33 01 30 72-0440	LF	7.7 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	414.62	
		For Quantities <100', Add	*83.65*	
33 01 30 72-0441	LF	8.4 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	443.06	
		For Quantities <100', Add	*86.68*	
33 01 30 72-0442	LF	9.1 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	471.51	
		For Quantities <100', Add	*89.72*	
33 01 30 72-0443	LF	9.8 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	499.93	
		For Quantities <100', Add	*92.75*	
33 01 30 72-0444	LF	10.5 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	528.38	
		For Quantities <100', Add	*95.78*	
33 01 30 72-0445	LF	11.2 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	556.82	
		For Quantities <100', Add	*98.81*	
33 01 30 72-0446	LF	11.9 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	585.27	
		For Quantities <100', Add	*101.84*	
33 01 30 72-0447	LF	12.6 mm Ultra Violet Cured In Place (CIP) Liner For 36" Pipe	613.71	
		For Quantities <100', Add	*104.87*	
33 01 30 72-0448	LF	8.4 mm Ultra Violet Cured In Place (CIP) Liner For 42" Pipe	524.77	
		For Quantities <100', Add	*98.08*	
33 01 30 72-0449	LF	9.1 mm Ultra Violet Cured In Place (CIP) Liner For 42" Pipe	558.27	
		For Quantities <100', Add	*101.80*	
33 01 30 72-0450	LF	9.8 mm Ultra Violet Cured In Place (CIP) Liner For 42" Pipe	591.72	
		For Quantities <100', Add	*105.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0451	LF	10.5 mm Ultra Violet Cured In Place (CIP) Liner For 42" Pipe	625.17	
		For Quantities <100', Add	*109.22*	
33 01 30 72-0452	LF	11.2 mm Ultra Violet Cured In Place (CIP) Liner For 42" Pipe	658.61	
		For Quantities <100', Add	*112.92*	
33 01 30 72-0453	LF	11.9 mm Ultra Violet Cured In Place (CIP) Liner For 42" Pipe	692.06	
		For Quantities <100', Add	*116.63*	
33 01 30 72-0454	LF	12.6 mm Ultra Violet Cured In Place (CIP) Liner For 42" Pipe	725.56	
		For Quantities <100', Add	*120.35*	
33 01 30 72-0455	LF	8.4 mm Ultra Violet Cured In Place (CIP) Liner For 48" Pipe	584.84	
		For Quantities <100', Add	*99.83*	
33 01 30 72-0456	LF	9.1 mm Ultra Violet Cured In Place (CIP) Liner For 48" Pipe	623.12	
		For Quantities <100', Add	*103.73*	
33 01 30 72-0457	LF	9.8 mm Ultra Violet Cured In Place (CIP) Liner For 48" Pipe	661.43	
		For Quantities <100', Add	*107.63*	
33 01 30 72-0458	LF	10.5 mm Ultra Violet Cured In Place (CIP) Liner For 48" Pipe	699.69	
		For Quantities <100', Add	*111.52*	
33 01 30 72-0459	LF	11.2 mm Ultra Violet Cured In Place (CIP) Liner For 48" Pipe	738.00	
		For Quantities <100', Add	*115.42*	
33 01 30 72-0460	LF	11.9 mm Ultra Violet Cured In Place (CIP) Liner For 48" Pipe	776.26	
		For Quantities <100', Add	*119.32*	
33 01 30 72-0461	LF	12.6 mm Ultra Violet Cured In Place (CIP) Liner For 48" Pipe	814.54	
		For Quantities <100', Add	*123.21*	

33 01 30 74 Cured-in-Place Lateral Lining *(33 01 30)*

33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement *(33 01 30 74)*

33 01 30 74-0002 Lateral Reinstatement/Reconnection *(33 01 30 74-0001)*

33 01 30 74-0003	EA	Cut Liner For Laterals, Up To 4" (Robotic)	620.33	
33 01 30 74-0004	EA	Cut Liner For Laterals, 6" (Robotic)	670.63	
33 01 30 74-0005	EA	Cut Liner For Laterals, 8" (Robotic)	712.54	
33 01 30 74-0006	EA	Cut Liner For Laterals, 10" (Robotic)	754.46	
33 01 30 74-0007	EA	Cut Liner For Laterals, 12" (Robotic)	796.37	

33 01 30 74-0008 Grout Lateral Service *(33 01 30 74-0001)*

33 01 30 74-0009 Grout Lateral Service - Bladder *(33 01 30 74-0008)*

33 01 30 74-0010	EA	Grout Up To 4" Lateral Service - Bladder	659.65	
33 01 30 74-0011	EA	Grout 6" Lateral Service - Bladder	756.42	
33 01 30 74-0012	EA	Grout 8" Lateral Service - Bladder	853.17	

33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application *(33 01 30 74-0008)*

33 01 30 74-0014	EA	Grout 3" To 6" Lateral Service - Robotic Trowel Application	717.57	
33 01 30 74-0015	EA	Grout 8" To 12" Lateral Service - Robotic Trowel Application	775.49	

33 01 30 74-0016 Lateral T-Liner *(33 01 30 74-0001)*

Note: As manufactured by LMK.

33 01 30 74-0017	EA	Up To 4" Lateral T-Liner	871.31	
33 01 30 74-0018	EA	6" Lateral T-Liner	975.37	
33 01 30 74-0019	EA	8" Lateral T-Liner	1,132.66	

33 01 30 74-0020 Lining Lateral Pipe *(33 01 30 74-0001)*

33 01 30 74-0021 Lining Lateral Pipe *(33 01 30 74-0020)*

33 01 30 74-0022	LF	6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	45.92	
		For 7.5mm, Add	*5.27*	
		For 9 mm, Add	*10.42*	
33 01 30 74-0023	LF	6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	55.08	
		For 7.5mm, Add	*7.17*	
		For 9 mm, Add	*14.18*	
33 01 30 74-0024	LF	6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP) Trenchless Rehabiliation	72.27	
		For 7.5mm, Add	*10.98*	
		For 9 mm, Add	*21.72*	

33 01 30 74-0025 Lining Manhole Drop *(33 01 30 74-0020)*

33 01 30 74-0026	EA	Manhole Drop Section Lining	940.83	

33 01 30 79 Fold-and-Form Pipe Lining *(33 01 30)*

33 01 30 79-0001 Form and Fold Relining Underground Pipelines *(33 01 30 79)*

Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 79-0002 Set-Up And Reinsertion For Fold-And-Form Relining Underground Pipelines *(33 01 30 79-0001)*

33 01 30 79-0003	EA	Initial Set-up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines	6,022.95	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0004	EA	Move And Set-up At Different Access/Location For Fold-And-Form Relining Underground Pipelines	2,409.17	
33 01 30 79-0005		Form And Fold Polyethylene (PE) Pipeliner *(33 01 30 79-0001)*		
33 01 30 79-0006	LF	4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	40.36	
		For DR 26 Pipe Liner, Add	*6.86*	
		For Up To 75, Add	*24.86*	
		For >75 To 150, Add	*12.43*	
		For >500 To 1,000, Deduct	*-0.97*	
		For >1,000 To 2,000, Deduct	*-1.94*	
		For >2,000, Deduct	*-3.87*	
33 01 30 79-0007	LF	6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	51.19	
		For DR 26 Pipe Liner, Add	*9.32*	
		For DR 35 Pipe Liner, Deduct	*-4.66*	
		For Up To 75, Add	*28.31*	
		For >75 To 150, Add	*14.15*	
		For >500 To 1,000, Deduct	*-1.04*	
		For >1,000 To 2,000, Deduct	*-2.09*	
		For >2,000, Deduct	*-4.17*	
33 01 30 79-0008	LF	8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	53.04	
		For DR 26 Pipe Liner, Add	*9.50*	
		For DR 35 Pipe Liner, Deduct	*-4.75*	
		For Up To 75, Add	*30.19*	
		For >75 To 150, Add	*15.09*	
		For >500 To 1,000, Deduct	*-1.13*	
		For >1,000 To 2,000, Deduct	*-2.26*	
		For >2,000, Deduct	*-4.52*	
33 01 30 79-0009	LF	10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	73.41	
		For DR 26 Pipe Liner, Add	*14.25*	
		For DR 35 Pipe Liner, Deduct	*-7.12*	
		For DR 41 Pipe Liner, Deduct	*-14.25*	
		For Up To 75, Add	*36.04*	
		For >75 To 150, Add	*18.02*	
		For >500 To 1,000, Deduct	*-1.23*	
		For >1,000 To 2,000, Deduct	*-2.46*	
		For >2,000, Deduct	*-4.93*	
33 01 30 79-0010	LF	12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	101.46	
		For DR 26 Pipe Liner, Add	*20.85*	
		For DR 35 Pipe Liner, Deduct	*-10.42*	
		For DR 41 Pipe Liner, Deduct	*-20.85*	
		For Up To 75, Add	*43.78*	
		For >75 To 150, Add	*21.89*	
		For >500 To 1,000, Deduct	*-1.36*	
		For >1,000 To 2,000, Deduct	*-2.71*	
		For >2,000, Deduct	*-5.42*	
33 01 30 79-0011	LF	15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	137.94	
		For DR 35 Pipe Liner, Deduct	*-14.68*	
		For DR 41 Pipe Liner, Deduct	*-29.35*	
		For Up To 75, Add	*54.28*	
		For >75 To 150, Add	*27.14*	
		For >500 To 1,000, Deduct	*-1.54*	
		For >1,000 To 2,000, Deduct	*-3.08*	
		For >2,000, Deduct	*-6.16*	
33 01 30 79-0012	LF	18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	193.40	
		For DR 41 Pipe Liner, Deduct	*-17.02*	
		For DR 50 Pipe Liner, Deduct	*-34.05*	
		For Up To 75, Add	*68.79*	
		For >75 To 150, Add	*34.39*	
		For >500 To 1,000, Deduct	*-1.74*	
		For >1,000 To 2,000, Deduct	*-3.47*	
		For >2,000, Deduct	*-6.95*	
33 01 30 79-0013	LF	21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	218.47	
		For DR 50 Pipe Liner, Deduct	*-29.01*	
		For DR 55 Pipe Liner, Deduct	*-48.34*	
		For Up To 75, Add	*76.32*	
		For >75 To 150, Add	*38.16*	
		For >500 To 1,000, Deduct	*-1.88*	
		For >1,000 To 2,000, Deduct	*-3.77*	
		For >2,000, Deduct	*-7.53*	
33 01 30 79-0014	LF	24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	265.64	
		For DR 60 Pipe Liner, Deduct	*-35.74*	
		For Up To 75, Add	*88.71*	
		For >75 To 150, Add	*44.35*	
		For >500 To 1,000, Deduct	*-2.05*	
		For >1,000 To 2,000, Deduct	*-4.11*	
		For >2,000, Deduct	*-8.21*	
33 01 30 79-0015		Form And Fold Polyvinyl Chloride (PVC) Pipeliner *(33 01 30 79-0001)*		
33 01 30 79-0016	LF	4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	42.95	
		For Up To 75, Add	*25.37*	
		For >75 To 150, Add	*12.69*	
		For >500 To 1,000, Deduct	*-0.97*	
		For >1,000 To 2,000, Deduct	*-1.94*	
		For >2,000, Deduct	*-3.87*	
		For DR 26 Pipe Liner, Add	*7.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0017	LF	6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	51.19	
		For Up To 75, Add	*28.31*	
		For >75 To 150, Add	*14.15*	
		For >500 To 1,000, Deduct	*-1.04*	
		For >1,000 To 2,000, Deduct	*-2.09*	
		For >2,000, Deduct	*-4.17*	
		For DR 26 Pipe Liner, Add	*9.32*	
		For DR 35 Pipe Liner, Deduct	*-4.66*	
33 01 30 79-0018	LF	8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	56.50	
		For Up To 75, Add	*30.88*	
		For >75 To 150, Add	*15.44*	
		For >500 To 1,000, Deduct	*-1.13*	
		For >1,000 To 2,000, Deduct	*-2.26*	
		For >2,000, Deduct	*-4.52*	
		For DR 26 Pipe Liner, Add	*10.36*	
		For DR 35 Pipe Liner, Deduct	*-5.18*	
33 01 30 79-0019	LF	10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	78.59	
		For Up To 75, Add	*37.08*	
		For >75 To 150, Add	*18.54*	
		For >500 To 1,000, Deduct	*-1.23*	
		For >1,000 To 2,000, Deduct	*-2.46*	
		For >2,000, Deduct	*-4.93*	
		For DR 26 Pipe Liner, Add	*15.54*	
		For DR 35 Pipe Liner, Deduct	*-7.77*	
		For DR 41 Pipe Liner, Deduct	*-15.54*	
33 01 30 79-0020	LF	12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	109.23	
		For Up To 75, Add	*45.34*	
		For >75 To 150, Add	*22.67*	
		For >500 To 1,000, Deduct	*-1.36*	
		For >1,000 To 2,000, Deduct	*-2.71*	
		For >2,000, Deduct	*-5.42*	
		For DR 26 Pipe Liner, Add	*22.79*	
		For DR 35 Pipe Liner, Deduct	*-11.40*	
		For DR 41 Pipe Liner, Deduct	*-22.79*	
33 01 30 79-0021	LF	15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	148.99	
		For Up To 75, Add	*56.49*	
		For >75 To 150, Add	*28.24*	
		For >500 To 1,000, Deduct	*-1.54*	
		For >1,000 To 2,000, Deduct	*-3.08*	
		For >2,000, Deduct	*-6.16*	
		For DR 35 Pipe Liner, Deduct	*-16.06*	
		For DR 41 Pipe Liner, Deduct	*-32.12*	
33 01 30 79-0022	LF	18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35	209.63	
		For Up To 75, Add	*72.03*	
		For >75 To 150, Add	*36.02*	
		For >500 To 1,000, Deduct	*-1.74*	
		For >1,000 To 2,000, Deduct	*-3.47*	
		For >2,000, Deduct	*-6.95*	
		For DR 41 Pipe Liner, Deduct	*-18.65*	
		For DR 50 Pipe Liner, Deduct	*-37.29*	
33 01 30 79-0023	LF	21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47	236.43	
		For Up To 75, Add	*79.92*	
		For >75 To 150, Add	*39.96*	
		For >500 To 1,000, Deduct	*-1.88*	
		For >1,000 To 2,000, Deduct	*-3.77*	
		For >2,000, Deduct	*-7.53*	
		For DR 50 Pipe Liner, Deduct	*-31.70*	
		For DR 55 Pipe Liner, Deduct	*-52.83*	
33 01 30 79-0024	LF	24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55	288.43	
		For Up To 75, Add	*93.27*	
		For >75 To 150, Add	*46.63*	
		For >500 To 1,000, Deduct	*-2.05*	
		For >1,000 To 2,000, Deduct	*-4.11*	
		For >2,000, Deduct	*-8.21*	
		For DR 60 Pipe Liner, Deduct	*-39.16*	

33 01 30 81 Manhole Rehabilitation *(33 01 30)*

33 01 30 81-0001 Restoration And Rehabilitation Of Manholes *(33 01 30 81)*

Note: Work is in confined spaces.

33 01 30 81-0002 Set-up For Inspection And Ventilation System *(33 01 30 81-0001)*

33 01 30 81-0003	EA	Inspect Manhole	211.89
33 01 30 81-0004	EA	36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System Note: For internal inspection and repair of water mains.	15,812.46
33 01 30 81-0005	EA	>60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System Note: For internal inspection and repair of water mains	22,404.31

33 01 30 81-0006 Manhole Seals *(33 01 30 81-0001)*

33 01 30 81-0007 Internal Manhole Chimney Seals *(33 01 30 81-0006)*

Note: Cretex.

33 01 30 81-0008	EA	20" Internal Manhole Chimney Seal	619.02
33 01 30 81-0009	EA	22" Internal Manhole Chimney Seal	652.49
33 01 30 81-0010	EA	24" Internal Manhole Chimney Seal	669.21

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0011	EA	26" Internal Manhole Chimney Seal	769.60	
33 01 30 81-0012	EA	28" Internal Manhole Chimney Seal	869.97	
33 01 30 81-0013	EA	30" Internal Manhole Chimney Seal	970.36	
33 01 30 81-0014	EA	36" Internal Manhole Chimney Seal	1,171.13	
33 01 30 81-0015		External Manhole Encapsulation *(33 01 30 81-0006)*		
		Note: Wrapidseal.		
33 01 30 81-0016	EA	24" External Manhole Encapsulation	903.44	
33 01 30 81-0017	EA	30" External Manhole Encapsulation	953.63	
33 01 30 81-0018	EA	36" External Manhole Encapsulation	1,020.55	
33 01 30 81-0019	EA	42" External Manhole Encapsulation	1,104.20	
33 01 30 81-0020	EA	48" External Manhole Encapsulation	1,221.32	
33 01 30 81-0021	EA	54" External Manhole Encapsulation	1,355.15	
33 01 30 81-0022	EA	60" External Manhole Encapsulation	1,522.46	
33 01 30 81-0023		Manhole Crack Repair *(33 01 30 81-0001)*		
		Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024	LF	Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	61.55	
33 01 30 81-0025	LF	>1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	82.89	
33 01 30 81-0026	LF	Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	58.11	
33 01 30 81-0027	LF	>1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair	78.81	
33 01 30 81-0028		Manhole Patching *(33 01 30 81-0001)*		
		Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029	SF	Up To 1/4" Thick, Cementitious Grout, Manhole Patching	19.94	
33 01 30 81-0030	SF	Up To 1/4" Thick, Epoxy Grout, Manhole Patching	44.08	
33 01 30 81-0031		Manhole Joint Restoration *(33 01 30 81-0001)*		
		Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0032	EA	3' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,574.54	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*249.73*	
33 01 30 81-0033	EA	3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,005.44	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*278.85*	
33 01 30 81-0034	EA	4' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,432.72	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*307.97*	
33 01 30 81-0035	EA	5' Diameter Joint Restoration, Grout Fill Per Each Manhole	4,074.30	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*322.53*	
33 01 30 81-0036	EA	6' Diameter Joint Restoration, Grout Fill Per Each Manhole	4,714.07	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*337.09*	
33 01 30 81-0037		Step Installation In Existing Manholes *(33 01 30 81-0001)*		
		Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0038	EA	Drill And Grout 8" x 9" Cast Iron Manhole Steps	149.32	24.49
33 01 30 81-0039	EA	Drill And Grout Galvanized Steel Manhole Step	126.03	24.49
33 01 30 81-0040	EA	Bolt On Galvanized Steel Manhole Step	142.12	24.49
33 01 30 81-0041	EA	Drill And Grout Aluminum Manhole Step	176.71	24.49
33 01 30 81-0042	EA	Drill And Insert Polypropylene Manhole Step	75.63	19.59
33 01 30 81-0043		Manhole Penetration Sealing *(33 01 30 81-0001)*		
		Note: At new pipe connection to manhole.		
33 01 30 81-0044	EA	6" To 12" Opening, Seal New Pipe Connection To Existing Manhole	463.10	
33 01 30 81-0045	EA	>12" To 22" Opening, Seal New Pipe Connection To Existing Manhole	718.48	
33 01 30 81-0046	EA	>22" To 36" Opening, Seal New Pipe Connection To Existing Manhole	989.76	
33 01 30 81-0047		Invert Restoration *(33 01 30 81-0001)*		
		Note: Includes removal of existing defective material and installation of new material.		
33 01 30 81-0048		Concrete Invert Restoration *(33 01 30 81-0047)*		
33 01 30 81-0049	EA	2' Diameter, Concrete Invert Restoration	406.49	
33 01 30 81-0050	EA	3' Diameter, Concrete Invert Restoration	459.46	
33 01 30 81-0051	EA	4' Diameter, Concrete Invert Restoration	512.44	
33 01 30 81-0052	EA	5' Diameter, Concrete Invert Restoration	565.41	
33 01 30 81-0053	EA	6' Diameter, Concrete Invert Restoration	724.33	
33 01 30 81-0054	SF	Square Or Rectangular, Concrete Invert Restoration	40.75	
33 01 30 81-0055		Brick Invert Restoration *(33 01 30 81-0047)*		
33 01 30 81-0056	EA	2' Diameter, Brick Invert Restoration	688.30	
33 01 30 81-0057	EA	3' Diameter, Brick Invert Restoration	741.27	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0058	EA	4' Diameter, Brick Invert Restoration	794.24	
33 01 30 81-0059	EA	5' Diameter, Brick Invert Restoration	847.22	
33 01 30 81-0060	EA	6' Diameter, Brick Invert Restoration	900.19	
33 01 30 81-0061	SF	Square Or Rectangular, Brick Invert Restoration	57.62	

33 01 30 81-0062 Repair In-Kind Of Drainage Structures *(33 01 30 81)*

Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.

33 01 30 81-0063	VLF	2' Diameter, Repair In-Kind Drainage Structure	875.25
33 01 30 81-0064	VLF	3' Diameter, Repair In-Kind Drainage Structure	1,312.89
33 01 30 81-0065	VLF	4' Diameter, Repair In-Kind Drainage Structure	1,750.64
33 01 30 81-0066	VLF	5' Diameter, Repair In-Kind Drainage Structure	2,188.15
33 01 30 81-0067	VLF	6' Diameter, Repair In-Kind Drainage Structure	2,625.78
33 01 30 81-0068	VLF	2' x 2', Repair In-Kind Drainage Structure	1,114.98
33 01 30 81-0069	VLF	2' x 3', Repair In-Kind Drainage Structure	1,393.73
33 01 30 81-0070	VLF	2' x 4', Repair In-Kind Drainage Structure	1,672.47
33 01 30 81-0071	VLF	3' x 4', Repair In-Kind Drainage Structure	1,951.22
33 01 30 81-0072	VLF	4' x 4', Repair In-Kind Drainage Structure	2,229.97
33 01 30 81-0073	VLF	4' x 5', Repair In-Kind Drainage Structure	2,508.71
33 01 30 81-0074	VLF	4' x 6', Repair In-Kind Drainage Structure	2,787.46
33 01 30 81-0075	VLF	4' x 8', Repair In-Kind Drainage Structure	3,344.95
33 01 30 81-0076	VLF	>32 GSF, Repair In-Kind Drainage Structure	3,902.44

33 01 30 82 Epoxy Lining for Concrete Manholes *(33 01 30)*

33 01 30 82-0001 Epoxy Manhole Restoration, Interior *(33 01 30 82)*

33 01 30 82-0002	VLF	60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	392.48
		For 80 Mil Material, Add	*46.19*
		For 100 Mil Material, Add	*92.39*
		For 125 Mil Material, Add	*143.99*
		For 150 Mil Material, Add	*195.59*
		For 200 Mil Material, Add	*282.41*
		For 2 To 5 Manholes, Deduct	*-27.81*
		For 6 To 10 Manholes, Deduct	*-45.82*
		For >10 Manholes, Deduct	*-91.63*
33 01 30 82-0003	VLF	60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	476.17
		For 80 Mil Material, Add	*55.28*
		For 100 Mil Material, Add	*110.56*
		For 125 Mil Material, Add	*172.16*
		For 150 Mil Material, Add	*233.75*
		For 200 Mil Material, Add	*336.92*
		For 2 To 5 Manholes, Deduct	*-33.82*
		For 6 To 10 Manholes, Deduct	*-55.73*
		For >10 Manholes, Deduct	*-111.47*
33 01 30 82-0004	VLF	60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	523.32
		For 80 Mil Material, Add	*61.59*
		For 100 Mil Material, Add	*123.18*
		For 125 Mil Material, Add	*191.98*
		For 150 Mil Material, Add	*260.78*
		For 200 Mil Material, Add	*376.54*
		For 2 To 5 Manholes, Deduct	*-37.09*
		For 6 To 10 Manholes, Deduct	*-61.09*
		For >10 Manholes, Deduct	*-122.18*
33 01 30 82-0005	VLF	60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	654.22
		For 80 Mil Material, Add	*77.02*
		For 100 Mil Material, Add	*154.03*
		For 125 Mil Material, Add	*240.06*
		For 150 Mil Material, Add	*326.09*
		For 200 Mil Material, Add	*470.85*
		For 2 To 5 Manholes, Deduct	*-46.36*
		For 6 To 10 Manholes, Deduct	*-76.37*
		For >10 Manholes, Deduct	*-152.74*
33 01 30 82-0006	VLF	60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	785.05
		For 80 Mil Material, Add	*92.41*
		For 100 Mil Material, Add	*184.83*
		For 125 Mil Material, Add	*288.06*
		For 150 Mil Material, Add	*391.29*
		For 200 Mil Material, Add	*564.99*
		For 2 To 5 Manholes, Deduct	*-55.63*
		For 6 To 10 Manholes, Deduct	*-91.64*
		For >10 Manholes, Deduct	*-183.28*

33 01 30 83 Lining for Concrete Manholes *(33 01 30)*

33 01 30 83-0001 Manhole Lining *(33 01 30 83)*

Note: Includes power washing and cleaning of manhole interiors.

33 01 30 83-0002 Cementitious Manhole Restoration, Interior *(33 01 30 83-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0003	VLF	1/2" Cementitious Restoration On 3' Diameter Manhole Interior	165.30	
		For Each Additional 1/2" Thick Material, Add	*38.11*	
		For 2 To 5 Manholes, Deduct	*-11.72*	
		For 6 To 10 Manholes, Deduct	*-19.31*	
		For >10 Manholes, Deduct	*-38.63*	
33 01 30 83-0004	VLF	1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	191.63	
		For Each Additional 1/2" Thick Material, Add	*44.33*	
		For 2 To 5 Manholes, Deduct	*-13.59*	
		For 6 To 10 Manholes, Deduct	*-22.38*	
		For >10 Manholes, Deduct	*-44.76*	
33 01 30 83-0005	VLF	1/2" Cementitious Restoration On 4' Diameter Manhole Interior	217.97	
		For Each Additional 1/2" Thick Material, Add	*50.57*	
		For 2 To 5 Manholes, Deduct	*-15.45*	
		For 6 To 10 Manholes, Deduct	*-25.45*	
		For >10 Manholes, Deduct	*-50.90*	
33 01 30 83-0006	VLF	1/2" Cementitious Restoration On 5' Diameter Manhole Interior	256.30	
		For Each Additional 1/2" Thick Material, Add	*61.77*	
		For 2 To 5 Manholes, Deduct	*-18.09*	
		For 6 To 10 Manholes, Deduct	*-29.78*	
		For >10 Manholes, Deduct	*-59.56*	
33 01 30 83-0007	VLF	1/2" Cementitious Restoration On 6' Diameter Manhole Interior	279.64	
		For Each Additional 1/2" Thick Material, Add	*71.12*	
		For 2 To 5 Manholes, Deduct	*-19.62*	
		For 6 To 10 Manholes, Deduct	*-32.26*	
		For >10 Manholes, Deduct	*-64.52*	

33 01 30 83-0008 Polyurethane Manhole Restoration, Interior *(33 01 30 83-0001)*

33 01 30 83-0009	VLF	60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	350.26	
		For 80 Mil Material, Add	*32.12*	
		For 100 Mil Material, Add	*64.24*	
		For 125 Mil Material, Add	*98.25*	
		For 150 Mil Material, Add	*132.26*	
		For 200 Mil Material, Add	*183.89*	
		For 2 To 5 Manholes, Deduct	*-25.70*	
		For 6 To 10 Manholes, Deduct	*-42.65*	
		For >10 Manholes, Deduct	*-85.30*	
33 01 30 83-0010	VLF	60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	426.84	
		For 80 Mil Material, Add	*38.84*	
		For 100 Mil Material, Add	*77.68*	
		For 125 Mil Material, Add	*118.72*	
		For 150 Mil Material, Add	*159.76*	
		For 200 Mil Material, Add	*221.81*	
		For 2 To 5 Manholes, Deduct	*-31.35*	
		For 6 To 10 Manholes, Deduct	*-52.03*	
		For >10 Manholes, Deduct	*-104.07*	
33 01 30 83-0011	VLF	60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	467.03	
		For 80 Mil Material, Add	*42.83*	
		For 100 Mil Material, Add	*85.66*	
		For 125 Mil Material, Add	*131.00*	
		For 150 Mil Material, Add	*176.35*	
		For 200 Mil Material, Add	*245.20*	
		For 2 To 5 Manholes, Deduct	*-34.27*	
		For 6 To 10 Manholes, Deduct	*-56.87*	
		For >10 Manholes, Deduct	*-113.74*	
33 01 30 83-0012	VLF	60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	583.78	
		For 80 Mil Material, Add	*53.54*	
		For 100 Mil Material, Add	*107.07*	
		For 125 Mil Material, Add	*163.75*	
		For 150 Mil Material, Add	*220.43*	
		For 200 Mil Material, Add	*306.50*	
		For 2 To 5 Manholes, Deduct	*-42.84*	
		For 6 To 10 Manholes, Deduct	*-71.09*	
		For >10 Manholes, Deduct	*-142.17*	
33 01 30 83-0013	VLF	60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	700.54	
		For 80 Mil Material, Add	*64.24*	
		For 100 Mil Material, Add	*128.49*	
		For 125 Mil Material, Add	*196.50*	
		For 150 Mil Material, Add	*264.52*	
		For 200 Mil Material, Add	*367.80*	
		For 2 To 5 Manholes, Deduct	*-51.41*	
		For 6 To 10 Manholes, Deduct	*-85.30*	
		For >10 Manholes, Deduct	*-170.61*	

33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior *(33 01 30 83-0001)*

33 01 30 83-0015	VLF	3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	609.94	
		For 2 To 5 Manholes, Deduct	*-35.58*	
		For 6 To 10 Manholes, Deduct	*-55.91*	
		For >10 Manholes, Deduct	*-111.82*	
33 01 30 83-0016	VLF	3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	746.94	
		For 2 To 5 Manholes, Deduct	*-43.56*	
		For 6 To 10 Manholes, Deduct	*-68.44*	
		For >10 Manholes, Deduct	*-136.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0017	VLF	4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	879.38	
		For 2 To 5 Manholes, Deduct	*-50.75*	
		For 6 To 10 Manholes, Deduct	*-79.51*	
		For >10 Manholes, Deduct	*-159.01*	
33 01 30 83-0018	VLF	5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	1,102.75	
		For 2 To 5 Manholes, Deduct	*-63.61*	
		For 6 To 10 Manholes, Deduct	*-99.65*	
		For >10 Manholes, Deduct	*-199.29*	
33 01 30 83-0019	VLF	6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	1,326.14	
		For 2 To 5 Manholes, Deduct	*-76.47*	
		For 6 To 10 Manholes, Deduct	*-119.79*	
		For >10 Manholes, Deduct	*-239.58*	

33 01 30 86 Manhole Rim Adjustment *(33 01 30)*

33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers *(33 01 30 86)*

Note: Excludes asphalt See CSI section 02 41 13 13-0038 for breakup and removal of pavement, 02 41 19 13-0057 for sawcutting pavement if required, 32 12 16 13-0022 for hand placed hot mix asphalt.

33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers *(33 01 30 86-0001)*

33 01 30 86-0003	EA	Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	594.29	
		For Lowering Manhole Rim, Add	*99.12*	
		Note: Includes digging under manhole rim		
33 01 30 86-0004	EA	>2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	663.39	
		For Lowering Manhole Rim, Add	*105.39*	
		Note: Includes digging under manhole rim		
33 01 30 86-0005	EA	>3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	726.99	
		For Lowering Manhole Rim, Add	*112.05*	
		Note: Includes digging under manhole rim		
33 01 30 86-0006	EA	>4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	798.46	
		For Lowering Manhole Rim, Add	*119.10*	
		Note: Includes digging under manhole rim		
33 01 30 86-0007	EA	>5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	858.95	
		For Lowering Manhole Rim, Add	*126.94*	
		Note: Includes digging under manhole rim		

33 01 30 86-0008 Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser *(33 01 30 86-0001)*

33 01 30 86-0009	EA	Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	699.91	
		For Lowering Manhole Rim, Add	*104.21*	
		Note: Includes digging under manhole rim		
33 01 30 86-0010	EA	>2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	760.17	
		For Lowering Manhole Rim, Add	*110.87*	
		Note: Includes digging under manhole rim		
33 01 30 86-0011	EA	>3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	834.98	
		For Lowering Manhole Rim, Add	*117.93*	
		Note: Includes digging under manhole rim		
33 01 30 86-0012	EA	>4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	908.83	
		For Lowering Manhole Rim, Add	*125.76*	
		Note: Includes digging under manhole rim		
33 01 30 86-0013	EA	>5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	979.34	
		For Lowering Manhole Rim, Add	*133.60*	
		Note: Includes digging under manhole rim		

33 01 30 86-0014 Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers *(33 01 30 86-0001)*

33 01 30 86-0015	EA	Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers	812.49	
		For Lowering Manhole Rim, Add	*129.68*	
		Note: Includes digging under manhole rim		
33 01 30 86-0016	EA	>4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers	857.70	
		For Lowering Manhole Rim, Add	*135.95*	
		Note: Includes digging under manhole rim		
33 01 30 86-0017	EA	>5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers	907.66	
		For Lowering Manhole Rim, Add	*143.78*	
		Note: Includes digging under manhole rim		

33 01 30 86-0018 >6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers *(33 01 30 86-0001)*

33 01 30 86-0019	EA	>6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	982.66	
33 01 30 86-0020	EA	7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,065.78	
33 01 30 86-0021	EA	7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,150.08	
33 01 30 86-0022	EA	8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,220.07	
33 01 30 86-0023	EA	9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,322.48	
33 01 30 86-0024	EA	10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,416.07	
33 01 30 86-0025	EA	11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,509.88	
33 01 30 86-0026	EA	12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,606.06	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 86-0027		>12" Rise, Solid Manhole Risers *(33 01 30 86)*		
33 01 30 86-0028		Precast Concrete Manhole Riser *(33 01 30 86-0027)*		
33 01 30 86-0029	VLF	Up To 26" Diameter Precast Concrete Manhole Riser	114.65	
33 01 30 86-0030	VLF	>26" To 36" Diameter Precast Concrete Manhole Riser	137.27	
33 01 30 86-0031	VLF	>36" To 48" Diameter Precast Concrete Manhole Riser	205.40	
33 01 30 86-0032	VLF	>48" To 60" Diameter Precast Concrete Manhole Riser	419.99	
33 01 30 86-0033	VLF	>60" To 72" Diameter Precast Concrete Manhole Riser	615.01	

33 01 30 89 By-Pass Piping and Pumping of Water and Sewer Utilities *(33 01 30)*

33 01 30 89-0001		Set-Up For By-Pass Pumping Unit *(33 01 30 89)* Note: Excludes pump and hose rental. See CSI section 01 22 23 00-1359 for pump rental, 01 22 23 00-1402 for suction hose, 01 22 23 00-1421 for discharge hose.		
33 01 30 89-0002	EA	Set-up For By-Pass Pumping Unit	2,204.13	
33 01 30 89-0003	EA	Move And Set-up At Different Access/Location For By-Pass Pumping Unit	1,102.06	
33 01 30 89-0004		By-Pass Pumping *(33 01 30 89)* Note: Excludes pump rental. See CSI section 01 22 23 00-1359 for pump rental.		
33 01 30 89-0005	DAY	Maintain And Operate By-Pass Pumping Unit	551.03	
33 01 30 89-0006	WK	Maintain And Operate By-Pass Pumping Unit	2,755.15	
33 01 30 89-0007	MO	Maintain And Operate By-Pass Pumping Unit	11,571.65	
33 01 30 89-0008		Temporary Bypass And Service Lines *(33 01 30 89)* Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009		Temporary Water Service Lines *(33 01 30 89-0008)* Note: Laid on ground, includes fittings, connection to building water service, and chlorination prior to each use. Remove after use.		
33 01 30 89-0010	LF	1/2" Temporary Service Hose With Fittings Note: Includes removal after use.	3.24	
33 01 30 89-0011	LF	3/4" Temporary Service Hose With Fittings Note: Includes removal after use.	4.10	
33 01 30 89-0012	LF	1" Temporary Service Hose With Fittings Note: Includes removal after use.	4.76	
33 01 30 89-0013	LF	1-1/2" Temporary Service Hose With Fittings Note: Includes removal after use.	5.68	
33 01 30 89-0014	LF	2" Temporary Service Hose With Fittings Note: Includes removal after use.	6.97	
33 01 30 89-0015	EA	Temporary Service Valve Assembly At Fire Hydrant Note: Includes removal after use.	358.94	
33 01 30 89-0016		Temporary Bypass Water Main Lines *(33 01 30 89-0008)* Note: Laid on ground, includes fittings, connections to mains and chlorination prior to each use. Remove after use.		
33 01 30 89-0017	LF	2" Temporary Bypass Water Main Pipe With Fittings Note: Includes removal after use.	7.44	
		For >500 To 1,000, Deduct	*-0.50*	
		For >1,000 To 5,000, Deduct	*-1.00*	
		For >5,000, Deduct	*-1.66*	
33 01 30 89-0018	LF	4" Temporary Bypass Water Main Pipe With Fittings Note: Includes removal after use.	12.09	
		For >500 To 1,000, Deduct	*-0.64*	
		For >1,000 To 5,000, Deduct	*-1.28*	
		For >5,000, Deduct	*-2.14*	
33 01 30 89-0019	LF	6" Temporary Bypass Water Main Pipe With Fittings Note: Includes removal after use.	17.26	
		For >500 To 1,000, Deduct	*-0.75*	
		For >1,000 To 5,000, Deduct	*-1.50*	
		For >5,000, Deduct	*-2.49*	
33 01 30 89-0020	LF	8" Temporary Bypass Water Main Pipe With Fittings Note: Includes removal after use.	21.83	
		For >500 To 1,000, Deduct	*-0.90*	
		For >1,000 To 5,000, Deduct	*-1.80*	
		For >5,000, Deduct	*-2.99*	
33 01 30 89-0021		Piping Protection For Temporary Water Line *(33 01 30 89-0008)*		
33 01 30 89-0022	LF	Cold Mix For Temporary Pipe Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.	3.55	
33 01 30 89-0023		Drill Meter Cover For Temporary Water Line *(33 01 30 89-0008)*		
33 01 30 89-0024	EA	Drill Meter Cover For Temporary Bypass Pipe	18.82	
33 01 30 89-0025		Temporary By-Pass Plug *(33 01 30 89)*		
33 01 30 89-0026	EA	8" To 16" Temporary By-Pass Plug	876.79	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0027	EA	12" To 24" Temporary By-Pass Plug	1,374.27	
33 01 30 89-0028	EA	15" To 30" Temporary By-Pass Plug	2,252.85	
33 01 30 89-0029	EA	20" To 40" Temporary By-Pass Plug	2,765.71	
33 01 30 89-0030	EA	24" To 28" Temporary By-Pass Plug	3,713.20	

33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems *(33 01)*

33 01 34 13 Septic Tank Solids Removal *(33 01 34)*

33 01 34 13-0001 Pump Out Septic Tanks *(33 01 34 13)*

33 01 34 13-0002	GAL	Pump Out Septic Tank And Dispose	0.79	

33 01 40 Operation and Maintenance of Stormwater Utilities *(33 01)*

33 01 40 00-0001 Solid Wall High-Density Polyethylene (HDPE) Culvert Slip-Lining System *(33 01 40)*

Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0024 for culvert cleaning, 33 01 40 00-0046 for flowable fill grout.

33 01 40 00-0002	LF	6.625" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	55.68	
		For Profile Wall (Corrugated), Deduct	*-9.97*	
33 01 40 00-0003	LF	8.625" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	85.37	
		For Profile Wall (Corrugated), Deduct	*-15.62*	
33 01 40 00-0004	LF	10.75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	77.74	
		For Profile Wall (Corrugated), Deduct	*-13.85*	
33 01 40 00-0005	LF	12.75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	103.92	
		For Profile Wall (Corrugated), Deduct	*-18.72*	
33 01 40 00-0006	LF	14" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	117.57	
		For Profile Wall (Corrugated), Deduct	*-20.97*	
33 01 40 00-0007	LF	16" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	144.17	
		For Profile Wall (Corrugated), Deduct	*-26.12*	
33 01 40 00-0008	LF	18" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	181.33	
		For Profile Wall (Corrugated), Deduct	*-32.87*	
33 01 40 00-0009	LF	20" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	224.46	
		For Profile Wall (Corrugated), Deduct	*-41.01*	
33 01 40 00-0010	LF	22" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	259.65	
		For Profile Wall (Corrugated), Deduct	*-47.57*	
33 01 40 00-0011	LF	24" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	298.14	
		For Profile Wall (Corrugated), Deduct	*-54.78*	
33 01 40 00-0012	LF	26" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	341.63	
		For Profile Wall (Corrugated), Deduct	*-63.00*	
33 01 40 00-0013	LF	28" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	386.76	
		For Profile Wall (Corrugated), Deduct	*-71.54*	
33 01 40 00-0014	LF	30" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	450.95	
		For Profile Wall (Corrugated), Deduct	*-83.89*	
33 01 40 00-0015	LF	32" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	518.44	
		For Profile Wall (Corrugated), Deduct	*-96.90*	
33 01 40 00-0016	LF	34" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	574.60	
		For Profile Wall (Corrugated), Deduct	*-107.65*	
33 01 40 00-0017	LF	36" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	630.76	
		For Profile Wall (Corrugated), Deduct	*-118.40*	
33 01 40 00-0018	LF	39.37" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	725.28	
		For Profile Wall (Corrugated), Deduct	*-136.82*	
33 01 40 00-0019	LF	42" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	819.79	
		For Profile Wall (Corrugated), Deduct	*-155.24*	
33 01 40 00-0020	LF	48" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	1,068.46	
		For Profile Wall (Corrugated), Deduct	*-204.48*	
33 01 40 00-0021	LF	54" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	1,313.87	
		For Profile Wall (Corrugated), Deduct	*-253.08*	
33 01 40 00-0022	LF	57" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	1,459.51	
		For Profile Wall (Corrugated), Deduct	*-281.72*	
33 01 40 00-0023	LF	60" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	1,603.75	
		For Profile Wall (Corrugated), Deduct	*-310.09*	
33 01 40 00-0024	LF	63" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	1,750.82	
		For Profile Wall (Corrugated), Deduct	*-339.02*	
33 01 40 00-0025	LF	66" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	1,970.08	
		For Profile Wall (Corrugated), Deduct	*-382.14*	
33 01 40 00-0026	LF	72" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	2,090.28	
		For Profile Wall (Corrugated), Deduct	*-405.21*	
33 01 40 00-0027	LF	78" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	2,219.82	
		For Profile Wall (Corrugated), Deduct	*-429.91*	
33 01 40 00-0028	LF	84" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	2,410.97	
		For Profile Wall (Corrugated), Deduct	*-467.17*	
33 01 40 00-0029	LF	90" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	2,463.57	
		For Profile Wall (Corrugated), Deduct	*-476.72*	
33 01 40 00-0030	LF	96" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5	2,490.40	
		For Profile Wall (Corrugated), Deduct	*-480.88*	
33 01 40 00-0031	LF	16.5 x 23" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	300.76	
		For Profile Wall (Corrugated), Deduct	*-55.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 40 00-0032	LF	17" x 26" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	334.95	
		For Profile Wall (Corrugated), Deduct	*-61.19*	
33 01 40 00-0033	LF	18" x 29" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	370.08	
33 01 40 00-0034	LF	19" x 32" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	428.48	
		For Profile Wall (Corrugated), Deduct	*-78.61*	
33 01 40 00-0035	LF	21" x 33.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	470.34	
		For Profile Wall (Corrugated), Deduct	*-86.33*	
33 01 40 00-0036	LF	22.5 x 36" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	529.44	
		For Profile Wall (Corrugated), Deduct	*-97.51*	
33 01 40 00-0037	LF	26" x 37" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	591.96	
		For Profile Wall (Corrugated), Deduct	*-109.37*	
33 01 40 00-0038	LF	30" x 41" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	712.51	
		For Profile Wall (Corrugated), Deduct	*-132.19*	
33 01 40 00-0039	LF	31" x 46" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	803.92	
33 01 40 00-0040	LF	34" x 48.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	894.24	
		For Profile Wall (Corrugated), Deduct	*-167.25*	
33 01 40 00-0041	LF	39" x 55.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	1,120.26	
		For Profile Wall (Corrugated), Deduct	*-211.80*	
33 01 40 00-0042	LF	43" x 63" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	1,356.29	
		For Profile Wall (Corrugated), Deduct	*-258.37*	
33 01 40 00-0043	LF	48" x 75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	1,758.00	
		For Profile Wall (Corrugated), Deduct	*-338.71*	
33 01 40 00-0044	LF	52" x 72.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	1,767.68	
		For Profile Wall (Corrugated), Deduct	*-338.71*	
33 01 40 00-0045	LF	58" x 67.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	1,767.68	
		For Profile Wall (Corrugated), Deduct	*-338.71*	

33 01 40 00-0046 Pumped Grouting For Slip-Lining Systems *(33 01 40)*

Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.

33 01 40 00-0047	CY	Flowable Fill Grout, For Pipe Relines	641.28	

33 01 60 Operation and Maintenance of Hydronic and Steam Energy Utilities *(33 01)*

33 01 60 00-0001 Remove Steel Pipe Coatings *(33 01 60)*

Note: Excludes sand blasting.

33 01 60 00-0002	SF	Removal Of Coating From Steel Pipe	3.58	
		For Work In Restricted Working Space, Add	*1.07*	
		For PPE And Bagging Removed Coating (Includes Respirator And Disposable Suit), Add	*1.79*	

33 01 70 Operation and Maintenance of Electrical Utilities *(33 01)*

33 01 70 51 Electrical Utility Visual Inspection *(33 01 70)*

33 01 70 51-0001 Video Camera Inspection Of Gas Piping and Electrical Duct *(33 01 70 51)*

33 01 70 51-0002 Set-up For Video Camera *(33 01 70 51-0001)*

33 01 70 51-0003	EA	Up To 12" Diameter, Initial Set-up For Video Inspection, Gas Pipe Or Electrical Duct	311.34	
33 01 70 51-0004	EA	Initial Set-up And Final Equipment Removal For >12" To 48" Diameter, Video Inspection, Gas Pipe	350.27	
33 01 70 51-0005	EA	Move And Set-up For Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct	77.84	
33 01 70 51-0006	EA	Move And Set-up For >12" To 48" Diameter, Video Inspection, Gas Pipe	116.76	

33 01 70 51-0007 Video Camera Inspection Of Gas Pipe Or Electrical Duct *(33 01 70 51-0001)*

33 01 70 51-0008	LF	Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct	1.20	
		For >1,000 To 5,000, Deduct	*-0.06*	
		For >5,000, Deduct	*-0.12*	
33 01 70 51-0009	LF	>12" To 48" Diameter, Video Inspection, Gas Pipe	1.85	
		For >1,000 To 5,000, Deduct	*-0.09*	
		For >5,000, Deduct	*-0.19*	

33 01 70 72 Cured-in-Place Conduit Lining *(33 01 70)*

33 01 70 72-0001 Lining Conduit With Cured In-Place (CIP) Liner *(33 01 70 72)*

Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection and cleaning.

33 01 70 72-0002 2mm Thick Cured In-Place Conduit Lining *(33 01 70 72-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 72-0003	LF	1-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	8.63	
		For Up To >10, Add	*16.37*	
		For >10 To 25, Add	*13.00*	
		For >25 To 50, Add	*7.99*	
		For >50 To 100, Add	*4.00*	
		For >500 To 1,000, Deduct	*-0.55*	
		For >1,000 To 2,000, Deduct	*-0.89*	
		For >2,000 To 5,000, Deduct	*-1.66*	
		For >5,000, Deduct	*-2.69*	
33 01 70 72-0004	LF	2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	10.56	
		For Up To >10, Add	*18.83*	
		For >10 To 25, Add	*14.84*	
		For >25 To 50, Add	*9.16*	
		For >50 To 100, Add	*4.58*	
		For >500 To 1,000, Deduct	*-0.66*	
		For >1,000 To 2,000, Deduct	*-1.06*	
		For >2,000 To 5,000, Deduct	*-1.97*	
		For >5,000, Deduct	*-3.20*	
33 01 70 72-0005	LF	2-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	13.25	
		For Up To >10, Add	*23.55*	
		For >10 To 25, Add	*18.55*	
		For >25 To 50, Add	*11.45*	
		For >50 To 100, Add	*5.73*	
		For >500 To 1,000, Deduct	*-0.83*	
		For >1,000 To 2,000, Deduct	*-1.33*	
		For >2,000 To 5,000, Deduct	*-2.47*	
		For >5,000, Deduct	*-4.00*	
33 01 70 72-0006	LF	3" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	15.65	
		For Up To >10, Add	*27.40*	
		For >10 To 25, Add	*21.53*	
		For >25 To 50, Add	*13.31*	
		For >50 To 100, Add	*6.65*	
		For >500 To 1,000, Deduct	*-0.98*	
		For >1,000 To 2,000, Deduct	*-1.57*	
		For >2,000 To 5,000, Deduct	*-2.90*	
		For >5,000, Deduct	*-4.70*	
33 01 70 72-0007	LF	3-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	17.59	
		For Up To >10, Add	*29.87*	
		For >10 To 25, Add	*23.37*	
		For >25 To 50, Add	*14.48*	
		For >50 To 100, Add	*7.24*	
		For >500 To 1,000, Deduct	*-1.09*	
		For >1,000 To 2,000, Deduct	*-1.74*	
		For >2,000 To 5,000, Deduct	*-3.21*	
		For >5,000, Deduct	*-5.20*	
33 01 70 72-0008	LF	4" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	19.83	
		For Up To >10, Add	*33.24*	
		For >10 To 25, Add	*25.95*	
		For >25 To 50, Add	*16.10*	
		For >50 To 100, Add	*8.05*	
		For >500 To 1,000, Deduct	*-1.22*	
		For >1,000 To 2,000, Deduct	*-1.95*	
		For >2,000 To 5,000, Deduct	*-3.59*	
		For >5,000, Deduct	*-5.83*	
33 01 70 72-0009	LF	5" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	23.42	
		For Up To >10, Add	*37.31*	
		For >10 To 25, Add	*28.90*	
		For >25 To 50, Add	*18.00*	
		For >50 To 100, Add	*9.00*	
		For >500 To 1,000, Deduct	*-1.43*	
		For >1,000 To 2,000, Deduct	*-2.27*	
		For >2,000 To 5,000, Deduct	*-4.14*	
		For >5,000, Deduct	*-6.73*	
33 01 70 72-0010	LF	6" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	26.99	
		For Up To >10, Add	*41.35*	
		For >10 To 25, Add	*31.81*	
		For >25 To 50, Add	*19.88*	
		For >50 To 100, Add	*9.94*	
		For >500 To 1,000, Deduct	*-1.63*	
		For >1,000 To 2,000, Deduct	*-2.58*	
		For >2,000 To 5,000, Deduct	*-4.69*	
		For >5,000, Deduct	*-7.63*	

33 01 70 72-0011 3mm Thick Cured In-Place Conduit Lining *(33 01 70 72-0001)*

33 01 70 72-0012	LF	1-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	10.67	
		For Up To >10, Add	*18.14*	
		For >10 To 25, Add	*14.19*	
		For >25 To 50, Add	*8.79*	
		For >50 To 100, Add	*4.40*	
		For >500 To 1,000, Deduct	*-0.66*	
		For >1,000 To 2,000, Deduct	*-1.06*	
		For >2,000 To 5,000, Deduct	*-1.95*	
		For >5,000, Deduct	*-3.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 72-0013	LF	2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	13.88	
		For Up To >10, Add	*22.74*	
		For >10 To 25, Add	*17.69*	
		For >25 To 50, Add	*10.99*	
		For >50 To 100, Add	*5.50*	
		For >500 To 1,000, Deduct	*-0.85*	
		For >1,000 To 2,000, Deduct	*-1.36*	
		For >2,000 To 5,000, Deduct	*-2.49*	
		For >5,000, Deduct	*-4.04*	
33 01 70 72-0014	LF	2-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	17.09	
		For Up To >10, Add	*27.35*	
		For >10 To 25, Add	*21.19*	
		For >25 To 50, Add	*13.19*	
		For >50 To 100, Add	*6.60*	
		For >500 To 1,000, Deduct	*-1.04*	
		For >1,000 To 2,000, Deduct	*-1.66*	
		For >2,000 To 5,000, Deduct	*-3.03*	
		For >5,000, Deduct	*-4.92*	
33 01 70 72-0015	LF	3" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	20.00	
		For Up To >10, Add	*31.08*	
		For >10 To 25, Add	*23.97*	
		For >25 To 50, Add	*14.96*	
		For >50 To 100, Add	*7.48*	
		For >500 To 1,000, Deduct	*-1.21*	
		For >1,000 To 2,000, Deduct	*-1.92*	
		For >2,000 To 5,000, Deduct	*-3.50*	
		For >5,000, Deduct	*-5.69*	
33 01 70 72-0016	LF	3-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	22.77	
		For Up To >10, Add	*34.36*	
		For >10 To 25, Add	*26.37*	
		For >25 To 50, Add	*16.50*	
		For >50 To 100, Add	*8.25*	
		For >500 To 1,000, Deduct	*-1.37*	
		For >1,000 To 2,000, Deduct	*-2.17*	
		For >2,000 To 5,000, Deduct	*-3.93*	
		For >5,000, Deduct	*-6.39*	
33 01 70 72-0017	LF	4" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	25.67	
		For Up To >10, Add	*38.04*	
		For >10 To 25, Add	*29.10*	
		For >25 To 50, Add	*18.24*	
		For >50 To 100, Add	*9.12*	
		For >500 To 1,000, Deduct	*-1.54*	
		For >1,000 To 2,000, Deduct	*-2.43*	
		For >2,000 To 5,000, Deduct	*-4.39*	
		For >5,000, Deduct	*-7.15*	
33 01 70 72-0018	LF	5" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	31.36	
		For Up To >10, Add	*45.06*	
		For >10 To 25, Add	*34.28*	
		For >25 To 50, Add	*21.55*	
		For >50 To 100, Add	*10.77*	
		For >500 To 1,000, Deduct	*-1.86*	
		For >1,000 To 2,000, Deduct	*-2.94*	
		For >2,000 To 5,000, Deduct	*-5.29*	
		For >5,000, Deduct	*-8.62*	
33 01 70 72-0019	LF	6" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	36.57	
		For Up To >10, Add	*50.66*	
		For >10 To 25, Add	*38.28*	
		For >25 To 50, Add	*24.15*	
		For >50 To 100, Add	*12.07*	
		For >500 To 1,000, Deduct	*-2.15*	
		For >1,000 To 2,000, Deduct	*-3.39*	
		For >2,000 To 5,000, Deduct	*-6.07*	
		For >5,000, Deduct	*-9.90*	

33 05 Common Work Results for Utilities *(33)*

33 05 05 Buried Piping Installation *(33 05)*

33 05 05 43 Mandrel Testing *(33 05 05)*

33 05 05 43-0001 Pipe Line Deflection Testing (Mandrel) On Existing Pipe *(33 05 05 43)*

33 05 05 43-0002	EA	Initial Set-up And Final Equipment Removal For Deflection Testing (Mandrel)	717.87	
33 05 05 43-0003	EA	Move And Set-up At Different Access/Location For Deflection Testing (Mandrel)	358.94	
33 05 05 43-0004	LF	Up To 4" Diameter Pipe Line Deflection Testing (Mandrel)	1.12	
		For >100 To 200, Deduct	*-0.06*	
		For >200 To 400, Deduct	*-0.11*	
		For >400, Deduct	*-0.18*	
33 05 05 43-0005	LF	6" Diameter Pipe Line Deflection Testing (Mandrel)	1.67	
		For >100 To 200, Deduct	*-0.08*	
		For >200 To 400, Deduct	*-0.14*	
		For >400, Deduct	*-0.23*	
33 05 05 43-0006	LF	8" Diameter Pipe Line Deflection Testing (Mandrel)	1.99	
		For >100 To 200, Deduct	*-0.09*	
		For >200 To 400, Deduct	*-0.17*	
		For >400, Deduct	*-0.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 05 43-0007	LF	10" Diameter Pipe Line Deflection Testing (Mandrel)	2.33	
		For >100 To 200, Deduct	*-0.10*	
		For >200 To 400, Deduct	*-0.19*	
		For >400, Deduct	*-0.30*	
33 05 05 43-0008	LF	12" Diameter Pipe Line Deflection Testing (Mandrel)	2.61	
		For >100 To 200, Deduct	*-0.11*	
		For >200 To 400, Deduct	*-0.21*	
		For >400, Deduct	*-0.33*	
33 05 05 43-0009	LF	>12" To 15" Diameter Pipe Line Deflection Testing (Mandrel)	2.74	
		For >100 To 200, Deduct	*-0.12*	
		For >200 To 400, Deduct	*-0.23*	
		For >400, Deduct	*-0.36*	
33 05 05 43-0010	LF	>15" To 24" Diameter Pipe Line Deflection Testing (Mandrel)	2.90	
		For >100 To 200, Deduct	*-0.13*	
		For >200 To 400, Deduct	*-0.25*	
		For >400, Deduct	*-0.39*	
33 05 05 43-0011	LF	>24" To 30" Diameter Pipe Line Deflection Testing (Mandrel)	3.20	
		For >100 To 200, Deduct	*-0.16*	
		For >200 To 400, Deduct	*-0.29*	
		For >400, Deduct	*-0.46*	
33 05 05 43-0012	LF	>30" To 42" Diameter Pipe Line Deflection Testing (Mandrel)	3.80	
		For >100 To 200, Deduct	*-0.20*	
		For >200 To 400, Deduct	*-0.38*	
		For >400, Deduct	*-0.59*	
33 05 05 43-0013	LF	>42" To 48" Diameter Pipe Line Deflection Testing (Mandrel)	5.10	
		For >100 To 200, Deduct	*-0.30*	
		For >200 To 400, Deduct	*-0.56*	
		For >400, Deduct	*-0.88*	
33 05 05 43-0014	LF	>48" To 60" Diameter Pipe Line Deflection Testing (Mandrel)	6.50	
		For >100 To 200, Deduct	*-0.40*	
		For >200 To 400, Deduct	*-0.75*	
		For >400, Deduct	*-1.19*	

33 05 07 Trenchless Installation of Utility Piping *(33 05)*

33 05 07 13 Utility Directional Drilling *(33 05 07)*

33 05 07 13-0001 Horizontal Augering *(33 05 07 13)*

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0002	LF	Up To 2" Diameter Horizontal Hand Augering	28.40
33 05 07 13-0003	LF	3" Diameter Horizontal Hand Augering	34.28
33 05 07 13-0004	LF	4" Diameter Horizontal Hand Augering	47.01
33 05 07 13-0005	LF	6" Diameter Horizontal Hand Augering	60.72
33 05 07 13-0006	LF	8" Diameter Horizontal Augering	111.26
33 05 07 13-0007	LF	10" Diameter Horizontal Augering	162.32
33 05 07 13-0008	LF	12" Diameter Horizontal Augering	195.05
33 05 07 13-0009	LF	16" Diameter Horizontal Augering	233.01
33 05 07 13-0010	LF	20" Diameter Horizontal Augering	403.18
33 05 07 13-0011	LF	24" Diameter Horizontal Augering	504.70
33 05 07 13-0012	LF	30" Diameter Horizontal Augering	622.52
33 05 07 13-0013	LF	36" Diameter Horizontal Augering	711.24
33 05 07 13-0014	LF	42" Diameter Horizontal Augering	916.47
33 05 07 13-0015	LF	48" Diameter Horizontal Augering	987.52
33 05 07 13-0016	LF	54" Diameter Horizontal Augering	1,073.97
33 05 07 13-0017	LF	60" Diameter Horizontal Augering	1,125.94
33 05 07 13-0018	EA	Minimum Set-up Charge For 8" To 20" Horizontal Augering Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,665.31
33 05 07 13-0019	EA	Minimum Set-up Charge For >20" To 36" Horizontal Augering Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,236.13
33 05 07 13-0020	EA	Minimum Set-up Charge For >36" Horizontal Augering Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	8,316.30

33 05 07 13-0021 Horizontal Directional Boring *(33 05 07 13)*

Note: Excludes receiving pits or dewatering or cost of casing pipe. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0022	LF	Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	15.45
		For Horizontal Boring Through Rock, Add	*10.82*
33 05 07 13-0023	LF	2" Diameter Directional Boring For Horizontal Pipe, Underground	23.17
		For Horizontal Boring Through Rock, Add	*16.22*
33 05 07 13-0024	LF	2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	32.18
		For Horizontal Boring Through Rock, Add	*22.53*
33 05 07 13-0025	LF	3" Diameter Directional Boring For Horizontal Pipe, Underground	39.91
		For Horizontal Boring Through Rock, Add	*27.94*
33 05 07 13-0026	LF	4" Diameter Directional Boring For Horizontal Pipe, Underground	47.62
		For Horizontal Boring Through Rock, Add	*33.33*
33 05 07 13-0027	LF	5" Diameter Directional Boring For Horizontal Pipe, Underground	55.35
		For Horizontal Boring Through Rock, Add	*38.75*
33 05 07 13-0028	LF	6" Diameter Directional Boring For Horizontal Pipe, Underground	64.36
		For Horizontal Boring Through Rock, Add	*45.05*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 13-0029	LF	8" Diameter Directional Boring For Horizontal Pipe, Underground	78.54	
		For Horizontal Boring Through Rock, Add	*54.98*	
33 05 07 13-0030	LF	10" Diameter Directional Boring For Horizontal Pipe, Underground	85.09	
		For Horizontal Boring Through Rock, Add	*59.56*	
33 05 07 13-0031	LF	12" Diameter Directional Boring For Horizontal Pipe, Underground	91.64	
		For Horizontal Boring Through Rock, Add	*64.15*	
33 05 07 13-0032	LF	18" Diameter Directional Boring For Horizontal Pipe, Underground	189.81	
		For Horizontal Boring Through Rock, Add	*132.87*	
33 05 07 13-0033	LF	24" Diameter Directional Boring For Horizontal Pipe, Underground	298.17	
		For Horizontal Boring Through Rock, Add	*208.72*	
33 05 07 13-0034	LF	30" Diameter Directional Boring For Horizontal Pipe, Underground	454.53	
		For Horizontal Boring Through Rock, Add	*318.17*	
33 05 07 13-0035	LF	36" Diameter Directional Boring For Horizontal Pipe, Underground	727.24	
		For Horizontal Boring Through Rock, Add	*509.07*	
33 05 07 13-0036	EA	Minimum Set-up Charge For Up To 6" Horizontal Directional Boring Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	2,831.84	
33 05 07 13-0037	EA	Minimum Set-up Charge For >6" To 18" Horizontal Directional Boring Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,665.31	
33 05 07 13-0038	EA	Minimum Set-up Charge For >18" To 36" Horizontal Directional Boring Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,236.13	

33 05 07 23 Utility Boring and Jacking *(33 05 07)*

33 05 07 23-0001 Horizontal Jacking *(33 05 07 23)*

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits.

33 05 07 23-0002	LF	Up To 2" Diameter Horizontal Jacking	73.36	
		For Horizontal Jacking Through Rock, Add	*35.18*	
33 05 07 23-0003	LF	3" Diameter Horizontal Jacking	87.96	
		For Horizontal Jacking Through Rock, Add	*42.45*	
33 05 07 23-0004	LF	4" Diameter Horizontal Jacking	118.88	
		For Horizontal Jacking Through Rock, Add	*58.21*	
33 05 07 23-0005	LF	6" Diameter Horizontal Jacking	153.64	
		For Horizontal Jacking Through Rock, Add	*75.19*	
33 05 07 23-0006	LF	8" Diameter Horizontal Jacking	208.19	
		For Horizontal Jacking Through Rock, Add	*103.08*	
33 05 07 23-0007	LF	10" Diameter Horizontal Jacking	305.20	
		For Horizontal Jacking Through Rock, Add	*150.39*	
33 05 07 23-0008	LF	12" Diameter Horizontal Jacking	367.42	
		For Horizontal Jacking Through Rock, Add	*180.71*	
33 05 07 23-0009	LF	16" Diameter Horizontal Jacking	438.68	
		For Horizontal Jacking Through Rock, Add	*215.88*	
33 05 07 23-0010	LF	20" Diameter Horizontal Jacking	684.55	
		For Horizontal Jacking Through Rock, Add	*374.75*	
33 05 07 23-0011	LF	24" Diameter Horizontal Jacking	1,126.15	
		For Horizontal Jacking Through Rock, Add	*420.57*	
33 05 07 23-0012	LF	30" Diameter Horizontal Jacking	1,309.23	
		For Horizontal Jacking Through Rock, Add	*519.31*	
33 05 07 23-0013	LF	36" Diameter Horizontal Jacking	1,478.67	
		For Horizontal Jacking Through Rock, Add	*593.79*	
33 05 07 23-0014	LF	42" Diameter Horizontal Jacking	1,588.46	
		For Horizontal Jacking Through Rock, Add	*641.22*	
33 05 07 23-0015	LF	48" Diameter Horizontal Jacking	1,722.47	
		For Horizontal Jacking Through Rock, Add	*690.90*	
33 05 07 23-0016	LF	54" Diameter Horizontal Jacking	1,840.97	
		For Horizontal Jacking Through Rock, Add	*751.93*	
33 05 07 23-0017	EA	Minimum Set-up Charge For Up To 6" Horizontal Jacking Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	2,831.84	
33 05 07 23-0018	EA	Minimum Set-up Charge For >6" To 20" Horizontal Jacking Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,665.31	
33 05 07 23-0019	EA	Minimum Set-up Charge For >20" To 36" Horizontal Jacking Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,236.13	
33 05 07 23-0020	EA	Minimum Set-up Charge For >36" Horizontal Jacking Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	8,316.30	

33 05 07 24 Casing Piping for Utility Jacking *(33 05 07)*

33 05 07 24-0001 Casing Pipe *(33 05 07 24)*

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002 Steel Pipe *(33 05 07 24-0001)*

33 05 07 24-0003	LF	1-1/2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	21.66	
33 05 07 24-0004	LF	2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	22.93	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 24-0005	LF	2-1/2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	24.78	
33 05 07 24-0006	LF	3" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	26.67	
33 05 07 24-0007	LF	4" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	33.81	
33 05 07 24-0008	LF	5" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	38.27	
33 05 07 24-0009	LF	6" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	42.73	
33 05 07 24-0010		Polyethylene Pipe *(33 05 07 24-0001)* Note: Includes detectable tracer wire.		
33 05 07 24-0011	LF	3/4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	6.26	
33 05 07 24-0012	LF	1" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	6.88	
33 05 07 24-0013	LF	1-1/4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	7.47	
33 05 07 24-0014	LF	1-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	7.99	
33 05 07 24-0015	LF	2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	8.55	
33 05 07 24-0016	LF	2-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	9.13	
33 05 07 24-0017	LF	3" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	9.74	
33 05 07 24-0018	LF	4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	11.76	
33 05 07 24-0019	LF	5" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	13.01	
33 05 07 24-0020	LF	6" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	14.26	
33 05 07 24-0021	LF	8" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	18.50	
33 05 07 24-0022	LF	10" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	25.10	

33 05 09 Piping Specials for Utilities *(33 05)*

33 05 09 13 Couplings for Utility Piping *(33 05 09)*
See CSI section 33 42 11 00-0060 for couplings.

33 05 09 23 Adapters for Utility Piping *(33 05 09)*
See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.

33 05 09 33 Thrust Restraint for Utility Piping *(33 05 09)*
See CSI section 33 14 13 13-0568 for mechanical restraints, 33 14 13 13-0603 for flanged restraints, 33 14 13 13-1188 for slip-on restraints, 33 14 13 13-1204 for slip-on restraint harnesses.

33 05 16 Cast-Iron Utility Pipe *(33 05)*
See CSI section 22 13 16 00-0019 for cast iron utility piping.

33 05 17 Copper Utility Pipe and Tubing *(33 05)*
See CSI section 33 14 13 39-0000 for copper utility piping.

33 05 19 Ductile-Iron Utility Pipe *(33 05)*
See CSI section 33 14 13 13-0000 for ductile iron utility piping.

33 05 24 Steel Utility Pipe *(33 05)*

33 05 24 23 Steel Pipe for Water Service *(33 05 24)*
See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.

33 05 27 Corrugated Metal Utility Pipe *(33 05)*

33 05 27 13 Corrugated Metal Culvert Pipe *(33 05 27)*
See CSI section 33 42 11 00-0533 for corrugated metal culvert pipe.

33 05 27 23 Corrugated Metal Slotted Pipe *(33 05 27)*
See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.

33 05 27 33 Corrugated Metal Culvert Arch Pipe *(33 05 27)*
See CSI section 33 42 11 00-0877 for corrugated metal culvert arch pipe.

33 05 31 Thermoplastic Utility Pipe *(33 05)*

33 05 31 11 Polyvinyl Chloride Gravity Sewer Pipe *(33 05 31)*
See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.

33 05 31 13 Polyvinyl Chloride Pressure Pipe *(33 05 31)*
See CSI section 33 14 13 23-0001 for polyvinyl chloride pressure pipe.

33 05 31 16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) *(33 05 31)*

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

See CSI section 33 14 13 23-0285 for AWWA C900 and 905 polyvinyl chloride pressure pipe.

33 05 33 Polyethylene Utility Pipe *(33 05)*

33 05 33 13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe *(33 05 33)*

See CSI section 33 42 11 00-0274 for corrugated-wall smooth interior HDPE gravity pipe.

33 05 33 23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) *(33 05 33)*

See CSI section 33 14 13 23-0540 for AWWA C906 high-density polyethylene pipe.

33 05 33 33 Corrugated, Perforated HDPE Drainage Pipe *(33 05 33)*

See CSI section 33 42 11 00-0296 for corrugated perforated HDPE drainage pipe.

33 05 33 36 Corrugated, Non-Perforated HDPE Drainage Pipe *(33 05 33)*

See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.

33 05 33 53 HDPE Gas Utility Pipe *(33 05 33)*

See CSI section 33 52 16 26-0001 for high-density polyethylene gas utility pipe.

33 05 33 56 Medium-Density Polyethylene Gas Utility Pipe *(33 05 33)*

See CSI section 33 52 16 23-0000 for Medium-Density Polyethylene Gas Utility Pipe.

33 05 33 63 HDPE Communication Duct *(33 05 33)*

33 05 33 63-0001 ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine *(33 05 33 63)*

Note: Excludes boring.

33 05 33 63-0002	LF	1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	4.08		
		For Up To 250, Add	*0.13*		
		For >250 To 500, Add	*0.09*		
33 05 33 63-0003	LF	1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	4.56		
		For Up To 250, Add	*0.16*		
		For >250 To 500, Add	*0.11*		
33 05 33 63-0004	LF	1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	4.96		
		For Up To 250, Add	*0.18*		
		For >250 To 500, Add	*0.12*		
33 05 33 63-0005	LF	2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	5.45		
		For Up To 250, Add	*0.21*		
		For >250 To 500, Add	*0.14*		
33 05 33 63-0006	LF	3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	7.34		
		For Up To 250, Add	*0.45*		
		For >250 To 500, Add	*0.30*		
33 05 33 63-0007	LF	4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	9.27		
		For Up To 250, Add	*0.69*		
		For >250 To 500, Add	*0.46*		
33 05 33 63-0008	LF	1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	4.17		
		For Up To 250, Add	*0.14*		
		For >250 To 500, Add	*0.10*		
33 05 33 63-0009	LF	1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	4.73		
		For Up To 250, Add	*0.18*		
		For >250 To 500, Add	*0.12*		
33 05 33 63-0010	LF	1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	5.10		
		For Up To 250, Add	*0.20*		
		For >250 To 500, Add	*0.13*		
33 05 33 63-0011	LF	2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	5.79		
		For Up To 250, Add	*0.27*		
		For >250 To 500, Add	*0.18*		
33 05 33 63-0012	LF	3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	8.10		
		For Up To 250, Add	*0.56*		
		For >250 To 500, Add	*0.38*		
33 05 33 63-0013	LF	4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	10.23		
		For Up To 250, Add	*0.83*		
		For >250 To 500, Add	*0.55*		

33 05 39 Concrete Pipe *(33 05)*

33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) *(33 05 39)*

See CSI section 33 42 11 00-0094 for prestressed concrete pressure pipe.

33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts *(33 05 39)*

See CSI section 33 42 11 00-0001 for reinforced concrete pipe.

33 05 39 46 Reinforced Concrete Elliptical Pipe for Sewers and Culverts *(33 05 39)*

See CSI section 33 42 11 00-0019 for reinforced concrete elliptical pipe.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 05 41 Vitrified Clay Utility Pipe *(33 05)*

See CSI section 33 42 11 00-0400 for vitrified clay piping.

33 05 61 Concrete Manholes *(33 05)*

33 05 61 00-0001 Manholes *(33 05 61)*

33 05 61 00-0002 Precast Concrete Manholes *(33 05 61 00-0001)*

Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover.
See CSI section 33 05 84 00-0002 for top slabs.

33 05 61 00-0003 3' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0004	EA	4' Deep, 3' Diameter, Precast Concrete Manhole	1,822.60	326.48
		For Bitumastic Coating, Add	*84.11*	
		For Epoxy Coating, Add	*160.72*	
33 05 61 00-0005	EA	6' Deep, 3' Diameter, Precast Concrete Manhole	2,483.80	468.94
		For Bitumastic Coating, Add	*126.16*	
		For Epoxy Coating, Add	*241.09*	
33 05 61 00-0006	EA	8' Deep, 3' Diameter, Precast Concrete Manhole	3,346.83	712.32
		For Bitumastic Coating, Add	*168.22*	
		For Epoxy Coating, Add	*321.45*	
33 05 61 00-0007	VLF	Riser For 3' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	354.34	83.10
		For Bitumastic Coating, Add	*21.03*	
		For Epoxy Coating, Add	*40.18*	
33 05 61 00-0008	VLF	Drop Collar For 3' Diameter, Precast Concrete Manhole	381.93	83.10
33 05 61 00-0009	EA	Drop Base For 3' Diameter, Precast Concrete Manhole	611.61	83.10
33 05 61 00-0010	EA	Extended Base Slab For 3' Diameter, Precast Concrete Manhole	488.27	83.10
33 05 61 00-0011	EA	Precast Channel For 3' Diameter, Precast Concrete Manhole	698.34	83.10

33 05 61 00-0012 4' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0013	EA	4' Deep, 4' Diameter, Precast Concrete Manhole	2,525.66	373.97
		For Bitumastic Coating, Add	*84.11*	
		For Epoxy Coating, Add	*160.72*	
33 05 61 00-0014	EA	6' Deep, 4' Diameter, Precast Concrete Manhole	3,372.02	510.49
		For Bitumastic Coating, Add	*126.16*	
		For Epoxy Coating, Add	*241.09*	
33 05 61 00-0015	EA	8' Deep, 4' Diameter, Precast Concrete Manhole	4,456.80	771.68
		For Bitumastic Coating, Add	*168.22*	
		For Epoxy Coating, Add	*321.45*	
33 05 61 00-0016	VLF	Riser For 4' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	478.08	97.95
		For Bitumastic Coating, Add	*21.03*	
		For Epoxy Coating, Add	*40.18*	
33 05 61 00-0017	VLF	Drop Collar For 4' Diameter, Precast Concrete Manhole	519.91	97.95
33 05 61 00-0018	EA	Drop Base For 4' Diameter, Precast Concrete Manhole	868.00	97.95
33 05 61 00-0019	EA	Extended Base Slab For 4' Diameter, Precast Concrete Manhole	681.08	97.95
33 05 61 00-0020	EA	Precast Channel For 4' Diameter, Precast Concrete Manhole	999.49	97.95

33 05 61 00-0021 5' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0022	EA	4' Deep, 5' Diameter, Precast Concrete Manhole	4,726.24	415.52
		For Bitumastic Coating, Add	*108.37*	
		For Epoxy Coating, Add	*259.10*	
33 05 61 00-0023	EA	6' Deep, 5' Diameter, Precast Concrete Manhole	6,295.23	569.86
		For Bitumastic Coating, Add	*162.55*	
		For Epoxy Coating, Add	*388.65*	
33 05 61 00-0024	EA	8' Deep, 5' Diameter, Precast Concrete Manhole	8,128.49	854.78
		For Bitumastic Coating, Add	*216.74*	
		For Epoxy Coating, Add	*518.21*	
33 05 61 00-0025	VLF	Riser For 5' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	845.72	106.85
		For Bitumastic Coating, Add	*27.09*	
		For Epoxy Coating, Add	*64.78*	

33 05 61 00-0026 6' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0027	EA	4' Deep, 6' Diameter, Precast Concrete Manhole	6,335.73	463.01
		For Bitumastic Coating, Add	*124.07*	
		For Epoxy Coating, Add	*303.34*	
33 05 61 00-0028	EA	6' Deep, 6' Diameter, Precast Concrete Manhole	8,253.89	629.22
		For Bitumastic Coating, Add	*186.10*	
		For Epoxy Coating, Add	*455.01*	
33 05 61 00-0029	EA	8' Deep, 6' Diameter, Precast Concrete Manhole	10,467.91	949.76
		For Bitumastic Coating, Add	*248.13*	
		For Epoxy Coating, Add	*606.68*	
33 05 61 00-0030	VLF	Riser For 6' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	1,026.63	118.72
		For Bitumastic Coating, Add	*31.02*	
		For Epoxy Coating, Add	*75.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 05 61 00-0031 7' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0032	EA	4' Deep, 7' Diameter, Precast Concrete Manhole	9,975.53	510.49
		For Bitumastic Coating, Add	*263.83*	
		For Epoxy Coating, Add	*530.07*	
33 05 61 00-0033	EA	6' Deep, 7' Diameter, Precast Concrete Manhole	12,901.97	696.29
		For Bitumastic Coating, Add	*395.74*	
		For Epoxy Coating, Add	*795.10*	
33 05 61 00-0034	EA	8' Deep, 7' Diameter, Precast Concrete Manhole	16,153.69	1,044.73
		For Bitumastic Coating, Add	*527.66*	
		For Epoxy Coating, Add	*1,060.14*	
33 05 61 00-0035	VLF	Riser For 7' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	1,538.61	130.59
		For Bitumastic Coating, Add	*65.96*	
		For Epoxy Coating, Add	*132.52*	

33 05 61 00-0036 8' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0037	EA	4' Deep, 8' Diameter, Precast Concrete Manhole	14,427.72	587.66
		For Bitumastic Coating, Add	*311.90*	
		For Epoxy Coating, Add	*646.11*	
33 05 61 00-0038	EA	6' Deep, 8' Diameter, Precast Concrete Manhole	18,709.91	801.36
		For Bitumastic Coating, Add	*467.86*	
		For Epoxy Coating, Add	*969.16*	
33 05 61 00-0039	EA	8' Deep, 8' Diameter, Precast Concrete Manhole	23,366.06	1,202.04
		For Bitumastic Coating, Add	*623.81*	
		For Epoxy Coating, Add	*1,292.21*	
33 05 61 00-0040	VLF	Riser For 8' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	2,224.20	148.40
		For Bitumastic Coating, Add	*77.98*	
		For Epoxy Coating, Add	*161.53*	

33 05 61 00-0041 10' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0042	EA	4' Deep, 10' Diameter, Precast Concrete Manhole	22,314.88	675.51
		For Bitumastic Coating, Add	*551.47*	
		For Epoxy Coating, Add	*1,092.96*	
33 05 61 00-0043	EA	6' Deep, 10' Diameter, Precast Concrete Manhole	28,212.00	921.27
		For Bitumastic Coating, Add	*827.21*	
		For Epoxy Coating, Add	*1,639.44*	
33 05 61 00-0044	EA	8' Deep, 10' Diameter, Precast Concrete Manhole	34,537.71	1,381.90
		For Bitumastic Coating, Add	*1,102.95*	
		For Epoxy Coating, Add	*2,185.92*	
33 05 61 00-0045	VLF	Riser For 10' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	3,043.24	170.96
		For Bitumastic Coating, Add	*137.87*	
		For Epoxy Coating, Add	*273.24*	

33 05 61 00-0046 12' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0047	EA	4' Deep, 12' Diameter, Precast Concrete Manhole	31,699.86	776.43
		For Bitumastic Coating, Add	*661.27*	
		For Epoxy Coating, Add	*1,322.63*	
33 05 61 00-0048	EA	6' Deep, 12' Diameter, Precast Concrete Manhole	40,023.16	1,060.17
		For Bitumastic Coating, Add	*991.90*	
		For Epoxy Coating, Add	*1,983.94*	
33 05 61 00-0049	EA	8' Deep, 12' Diameter, Precast Concrete Manhole	48,840.34	1,589.66
		For Bitumastic Coating, Add	*1,322.54*	
		For Epoxy Coating, Add	*2,645.26*	
33 05 61 00-0050	VLF	Riser For 12' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	4,271.47	195.89
		For Bitumastic Coating, Add	*165.32*	
		For Epoxy Coating, Add	*330.66*	

33 05 63 Concrete Vaults and Chambers *(33 05)*

33 05 63 00-0001 Underground Utility Vaults And Structures *(33 05 63)*

See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0012 for frames and covers.

33 05 63 00-0002 Precast Concrete Underground Utility Vault *(33 05 63 00-0001)*

Note: Sizes given are for inside dimensions.

33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault *(33 05 63 00-0002)*

33 05 63 00-0004	EA	4' x 4' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	3,858.59
33 05 63 00-0005	EA	4' x 6' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	5,029.70
33 05 63 00-0006	EA	5' x 10' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,297.81
33 05 63 00-0007	EA	5' x 12' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,581.19
33 05 63 00-0008	EA	6' x 6' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,427.69

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0009	EA	6' x 8' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,824.48	
33 05 63 00-0010	EA	6' x 10' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,222.49	
33 05 63 00-0011	EA	6' x 12' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	13,324.70	
33 05 63 00-0012	EA	6' x 14' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	13,324.70	
33 05 63 00-0013	EA	6' x 16' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	16,777.92	
33 05 63 00-0014	EA	8' x 8' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,449.40	
33 05 63 00-0015	EA	8' x 10' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	11,073.13	
33 05 63 00-0016	EA	8' x 12' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	15,828.09	
33 05 63 00-0017	EA	8' x 14' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	17,814.43	
33 05 63 00-0018		**7' High Precast Concrete Underground Utility Vault** *(33 05 63 00-0002)*		
33 05 63 00-0019	EA	4' x 4' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	4,076.19	
33 05 63 00-0020	EA	4' x 6' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	5,292.78	
33 05 63 00-0021	EA	4' x 8' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,783.54	
33 05 63 00-0022	EA	5' x 10' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,026.27	
33 05 63 00-0023	EA	5' x 12' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	10,407.55	
33 05 63 00-0024	EA	6' x 6' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,727.08	
33 05 63 00-0025	EA	6' x 8' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,505.21	
33 05 63 00-0026	EA	6' x 10' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,595.72	
33 05 63 00-0027	EA	6' x 12' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	14,490.23	
33 05 63 00-0028	EA	6' x 16' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	18,202.58	
33 05 63 00-0029	EA	8' x 8' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	10,226.80	
33 05 63 00-0030	EA	8' x 10' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	11,947.28	
33 05 63 00-0031	EA	8' x 12' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	17,123.85	
33 05 63 00-0032	EA	8' x 14' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	19,237.87	
33 05 63 00-0033	EA	10' x 10' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	17,382.10	
33 05 63 00-0034		**8' High Precast Concrete Underground Utility Vault** *(33 05 63 00-0002)*		
33 05 63 00-0035	EA	4' x 4' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	4,636.00	
33 05 63 00-0036	EA	4' x 6' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,001.75	
33 05 63 00-0037	EA	5' x 10' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,754.72	
33 05 63 00-0038	EA	5' x 12' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	11,232.74	
33 05 63 00-0039	EA	6' x 6' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,593.21	
33 05 63 00-0040	EA	6' x 8' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,184.70	
33 05 63 00-0041	EA	6' x 10' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	10,776.18	
33 05 63 00-0042	EA	6' x 12' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	15,655.72	
33 05 63 00-0043	EA	6' x 16' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	19,627.29	
33 05 63 00-0044	EA	8' x 8' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	11,003.04	
33 05 63 00-0045	EA	8' x 10' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	12,821.40	
33 05 63 00-0046	EA	8' x 12' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	18,418.34	
33 05 63 00-0047	EA	8' x 14' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	20,662.59	
33 05 63 00-0048	EA	10' x 10' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	18,677.49	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0049		10' High Precast Concrete Underground Utility Vault *(33 05 63 00-0002)*		
33 05 63 00-0050	EA	6' x 6' x 10' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,176.01	
33 05 63 00-0051	EA	6' x 8' x 10' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,864.17	
33 05 63 00-0052	EA	10' x 10' x 10' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	19,971.91	
33 05 63 00-0053		12' High Precast Concrete Underground Utility Vault *(33 05 63 00-0002)*		
33 05 63 00-0054	EA	6' x 6' x 12' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,758.76	
33 05 63 00-0055	EA	6' x 8' x 12' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	10,544.87	
33 05 63 00-0056		Meter Pit *(33 05 63 00-0001)*		
33 05 63 00-0057		Precast Concrete Meter Pit *(33 05 63 00-0056)*		
33 05 63 00-0058	EA	4' x 4' x 4' Deep Precast Concrete Meter Pit	3,924.17	
33 05 63 00-0059	EA	4' x 4' x 6' Deep Precast Concrete Meter Pit	5,335.49	
33 05 63 00-0060	EA	4' x 4' x 8' Deep Precast Concrete Meter Pit	6,719.68	
33 05 63 00-0061	EA	4' x 4' x 10' Deep Precast Concrete Meter Pit	8,337.65	
33 05 63 00-0062	EA	4' x 4' x 15' Deep Precast Concrete Meter Pit	11,565.12	
33 05 63 00-0063	EA	6' x 6' x 4' Deep Precast Concrete Meter Pit	5,964.05	
33 05 63 00-0064	EA	6' x 6' x 6' Deep Precast Concrete Meter Pit	8,337.65	
33 05 63 00-0065	EA	6' x 6' x 8' Deep Precast Concrete Meter Pit	10,762.57	
33 05 63 00-0066	EA	6' x 6' x 10' Deep Precast Concrete Meter Pit	13,425.86	
33 05 63 00-0067	EA	6' x 6' x 15' Deep Precast Concrete Meter Pit	19,181.36	
33 05 63 00-0068		Handhole Or Pull Box Enclosures *(33 05 63 00-0001)*		
33 05 63 00-0069		Polymer Concrete Handhole Enclosures *(33 05 63 00-0068)*		
33 05 63 00-0070		Polymer Concrete Handhole Enclosures *(33 05 63 00-0069)* Note: Excludes cover See CSI section 33 05 63 00-0290 for covers.		
33 05 63 00-0071		Flared Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0070)*		
33 05 63 00-0072		Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0071)*		
33 05 63 00-0073	EA	12" x 12", 24" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	337.23	25.89
33 05 63 00-0074	EA	10" x 15", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	294.11	57.50
33 05 63 00-0075	EA	13" x 24", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	448.90	86.26
33 05 63 00-0076	EA	17" x 30", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	520.62	86.26
33 05 63 00-0077	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	496.92	86.26
33 05 63 00-0078	EA	13" x 24", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	600.37	86.26
33 05 63 00-0079	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	584.76	86.26
33 05 63 00-0080	EA	17" x 30", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	794.22	86.26
33 05 63 00-0081	EA	27" Round, 36" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,127.43	115.01
33 05 63 00-0082	EA	27" Round, 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,578.22	115.01
33 05 63 00-0083	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,028.04	158.13
33 05 63 00-0084	EA	24" x 36", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,169.21	158.13
33 05 63 00-0085	EA	24" x 36", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,903.58	158.13
33 05 63 00-0086	EA	39" Round, 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,098.12	172.51
33 05 63 00-0087	EA	39" Round, 24" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,560.53	172.51
33 05 63 00-0088	EA	39" Round, 36" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,938.68	172.51
33 05 63 00-0089	EA	39" Round, 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,833.06	172.51
33 05 63 00-0090	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,607.08	276.96
33 05 63 00-0091	EA	30" x 48", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,303.03	276.96
33 05 63 00-0092		Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0071)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0093	EA	12" x 12", 24" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	430.93	25.89
33 05 63 00-0094	EA	13" x 24", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	560.50	86.26
33 05 63 00-0095	EA	17" x 30", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	675.95	86.26
33 05 63 00-0096	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	624.27	86.26
33 05 63 00-0097	EA	13" x 24", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	712.69	86.26
33 05 63 00-0098	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	735.87	86.26
33 05 63 00-0099	EA	17" x 30", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	946.64	86.26
33 05 63 00-0100	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,265.35	158.13
33 05 63 00-0101	EA	24" x 36", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,406.52	158.13
33 05 63 00-0102	EA	24" x 36", 48" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,140.92	158.13
33 05 63 00-0103	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,884.39	276.96
33 05 63 00-0104	EA	30" x 48", 48" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,585.64	276.96
33 05 63 00-0105		Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0070)*		
33 05 63 00-0106		Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0105)*		
33 05 63 00-0107	EA	5" x 16", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	551.51	25.89
33 05 63 00-0108	EA	10" x 12", 15" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	466.71	25.89
33 05 63 00-0109	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	386.31	86.26
33 05 63 00-0110	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	436.35	86.26
33 05 63 00-0111	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	131.71	25.89
33 05 63 00-0112	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	202.63	25.89
33 05 63 00-0113	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	325.72	25.89
33 05 63 00-0114	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	340.61	25.89
33 05 63 00-0115	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	288.91	57.50
33 05 63 00-0116	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	311.76	57.50
33 05 63 00-0117	EA	8" x 8", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	199.58	25.89
33 05 63 00-0118	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	227.49	25.89
33 05 63 00-0119	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	309.38	57.50
33 05 63 00-0120	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	347.80	57.50
33 05 63 00-0121	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	322.94	57.50
33 05 63 00-0122	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	388.64	86.26
33 05 63 00-0123	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	426.32	86.26
33 05 63 00-0124	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	454.34	86.26
33 05 63 00-0125	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	496.54	86.26
33 05 63 00-0126	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	580.70	86.26
33 05 63 00-0127	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	631.75	86.26
33 05 63 00-0128	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	687.62	86.26
33 05 63 00-0129	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	722.74	86.26
33 05 63 00-0130	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	862.64	115.01
33 05 63 00-0131	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	875.11	158.13
33 05 63 00-0132	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,119.77	158.13
33 05 63 00-0133	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,345.68	158.13
33 05 63 00-0134	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,488.35	158.13
33 05 63 00-0135	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,630.25	158.13
33 05 63 00-0136	EA	36" x 36", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,878.59	276.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0137	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,378.46	276.96
33 05 63 00-0138	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,559.66	276.96
33 05 63 00-0139	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,906.14	276.96
33 05 63 00-0140	EA	30" x 60", 21" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,902.58	276.96
33 05 63 00-0141	EA	30" x 60", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,031.92	276.96
33 05 63 00-0142	EA	30" x 60", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,280.66	276.96
33 05 63 00-0143	EA	36" x 60", 19" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,103.74	296.75
33 05 63 00-0144	EA	36" x 60", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,279.35	296.75
33 05 63 00-0145	EA	36" x 60", 31" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,503.56	296.75
33 05 63 00-0146	EA	36" x 60", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,593.27	296.75
33 05 63 00-0147	EA	48" x 48", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,624.45	296.75
33 05 63 00-0148	EA	48" x 48", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,966.08	296.75
33 05 63 00-0149	EA	36" x 72", 21" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,302.63	296.75
33 05 63 00-0150	EA	36" x 72", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,022.47	296.75
33 05 63 00-0151	EA	48" x 72", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,399.54	316.53
33 05 63 00-0152	EA	48" x 72", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,182.75	316.53
33 05 63 00-0153	EA	48" x 96", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	5,349.96	316.53
33 05 63 00-0154		**Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures** *(33 05 63 00-0105)*		
33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	516.23	86.26
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	590.47	86.26
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	220.68	25.89
33 05 63 00-0158	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	317.61	25.89
33 05 63 00-0159	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	424.75	25.89
33 05 63 00-0160	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	439.67	25.89
33 05 63 00-0161	EA	10" x 15", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	386.46	57.50
33 05 63 00-0162	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	402.37	57.50
33 05 63 00-0163	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	423.63	57.50
33 05 63 00-0164	EA	8" x 8", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	296.60	25.89
33 05 63 00-0165	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	349.96	25.89
33 05 63 00-0166	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	423.11	57.50
33 05 63 00-0167	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	461.53	57.50
33 05 63 00-0168	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	437.87	57.50
33 05 63 00-0169	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	515.52	86.26
33 05 63 00-0170	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	553.66	86.26
33 05 63 00-0171	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	605.75	86.26
33 05 63 00-0172	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	647.68	86.26
33 05 63 00-0173	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	731.59	86.26
33 05 63 00-0174	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	782.87	86.26
33 05 63 00-0175	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	838.49	86.26
33 05 63 00-0176	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	873.86	86.26
33 05 63 00-0177	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,071.39	115.01

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0178	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,112.45	158.13
33 05 63 00-0179	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,356.81	158.13
33 05 63 00-0180	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,582.47	158.13
33 05 63 00-0181	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,724.92	158.13
33 05 63 00-0182	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,867.29	158.13
33 05 63 00-0183	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,653.15	276.96
33 05 63 00-0184	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,834.62	276.96
33 05 63 00-0185	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,180.84	276.96
33 05 63 00-0186		Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0105)*		
33 05 63 00-0187	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	474.75	86.26
33 05 63 00-0188	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	551.04	86.26
33 05 63 00-0189	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	163.97	25.89
33 05 63 00-0190	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	267.81	25.89
33 05 63 00-0191	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	383.31	25.89
33 05 63 00-0192	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	398.50	25.89
33 05 63 00-0193	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	359.18	57.50
33 05 63 00-0194	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	403.40	57.50
33 05 63 00-0195	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	234.75	25.89
33 05 63 00-0196	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	380.91	57.50
33 05 63 00-0197	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	435.99	57.50
33 05 63 00-0198	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	395.22	57.50
33 05 63 00-0199	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	509.67	86.26
33 05 63 00-0200	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	584.98	86.26
33 05 63 00-0201	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	610.02	86.26
33 05 63 00-0202	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	669.65	86.26
33 05 63 00-0203	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	724.51	86.26
33 05 63 00-0204	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	776.30	86.26
33 05 63 00-0205	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	869.04	86.26
33 05 63 00-0206	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	881.97	86.26
33 05 63 00-0207	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,087.56	115.01
33 05 63 00-0208	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,133.41	158.13
33 05 63 00-0209	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,403.29	158.13
33 05 63 00-0210	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,670.19	158.13
33 05 63 00-0211	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,847.47	158.13
33 05 63 00-0212	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,024.75	158.13
33 05 63 00-0213	EA	36" x 36", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,208.89	276.96
33 05 63 00-0214	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,708.77	276.96
33 05 63 00-0215	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,904.11	276.96
33 05 63 00-0216	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,250.35	276.96
33 05 63 00-0217	EA	30" x 60", 21" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,403.08	276.96
33 05 63 00-0218	EA	30" x 60", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,450.90	276.96
33 05 63 00-0219	EA	30" x 60", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,914.86	276.96
33 05 63 00-0220	EA	36" x 60", 19" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,710.88	296.75

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0221	EA	36" x 60", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,801.62	296.75
33 05 63 00-0222	EA	36" x 60", 31" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,059.02	296.75
33 05 63 00-0223	EA	36" x 60", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,253.84	296.75
33 05 63 00-0224	EA	36" x 72", 21" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,993.43	296.75
33 05 63 00-0225	EA	36" x 72", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,690.18	296.75
33 05 63 00-0226	EA	48" x 48", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,210.36	296.75
33 05 63 00-0227	EA	48" x 48", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,522.98	296.75
33 05 63 00-0228	EA	48" x 72", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,259.44	316.53
33 05 63 00-0229	EA	48" x 72", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	5,042.97	316.53
33 05 63 00-0230	EA	48" x 96", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	6,781.73	316.53

33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0105)*

33 05 63 00-0232	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	604.65	86.26
33 05 63 00-0233	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	705.45	86.26
33 05 63 00-0234	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	252.22	25.89
33 05 63 00-0235	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	382.57	25.89
33 05 63 00-0236	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	482.14	25.89
33 05 63 00-0237	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	497.53	25.89
33 05 63 00-0238	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	472.91	57.50
33 05 63 00-0239	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	516.86	57.50
33 05 63 00-0240	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	360.86	25.89
33 05 63 00-0241	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	494.12	57.50
33 05 63 00-0242	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	549.20	57.50
33 05 63 00-0243	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	477.70	57.50
33 05 63 00-0244	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	637.06	86.26
33 05 63 00-0245	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	712.37	86.26
33 05 63 00-0246	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	761.14	86.26
33 05 63 00-0247	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	820.79	86.26
33 05 63 00-0248	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	875.63	86.26
33 05 63 00-0249	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	927.44	86.26
33 05 63 00-0250	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,020.20	86.26
33 05 63 00-0251	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,033.08	86.26
33 05 63 00-0252	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,296.04	115.01
33 05 63 00-0253	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,370.72	158.13
33 05 63 00-0254	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,640.36	158.13
33 05 63 00-0255	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,906.97	158.13
33 05 63 00-0256	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,084.38	158.13
33 05 63 00-0257	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,261.79	158.13
33 05 63 00-0258	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,983.72	276.96
33 05 63 00-0259	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,179.32	276.96
33 05 63 00-0260	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,525.31	276.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0261		**Footed, Straight Sides, Polymer Concrete Handhole Enclosures** *(33 05 63 00-0105)*		
33 05 63 00-0262	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	506.42	86.26
33 05 63 00-0263	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	341.98	57.50
33 05 63 00-0264	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	384.45	57.50
33 05 63 00-0265	EA	13" x 24", 12" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	451.30	86.26
33 05 63 00-0266	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	355.89	57.50
33 05 63 00-0267	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	396.57	57.50
33 05 63 00-0268		**Polymer Concrete Handhole Enclosure Extensions** *(33 05 63 00-0069)*		
		Note: Excludes bases See CSI section 33 05 63 00-0070 for bases.		
33 05 63 00-0269	EA	13" x 24", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	372.22	86.26
33 05 63 00-0270	EA	17" x 30", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	416.48	86.26
33 05 63 00-0271	EA	24" x 24", 6" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	479.55	115.01
33 05 63 00-0272	EA	24" x 24", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	523.00	115.01
33 05 63 00-0273	EA	24" x 36", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	621.70	158.13
33 05 63 00-0274	EA	36" x 36", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,120.67	276.96
33 05 63 00-0275	EA	30" x 48", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,073.16	276.96
33 05 63 00-0276	EA	30" x 48", 11" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,083.53	276.96
33 05 63 00-0277	EA	36" x 60", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,447.31	296.75
33 05 63 00-0278	EA	48" x 72", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	2,268.47	316.53
33 05 63 00-0279	EA	48" x 96", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	2,958.63	316.53
33 05 63 00-0280	EA	13" x 24", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	604.47	86.26
33 05 63 00-0281	EA	17" x 30", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	631.51	86.26
33 05 63 00-0282	EA	24" x 24", 6" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	677.66	115.01
33 05 63 00-0283	EA	24" x 24", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	721.58	115.01
33 05 63 00-0284	EA	24" x 36", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	838.98	158.13
33 05 63 00-0285	EA	30" x 48", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	1,380.23	276.96
33 05 63 00-0286	EA	13" x 24", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	472.28	86.26
33 05 63 00-0287	EA	17" x 30", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	525.62	86.26
33 05 63 00-0288	EA	24" x 36", 4" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	698.22	158.13
33 05 63 00-0289	EA	36" x 60", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	1,396.44	296.75
33 05 63 00-0290		**Polymer Concrete Handhole Enclosure Covers** *(33 05 63 00-0069)*		
33 05 63 00-0291		**Polymer Concrete Handhole Enclosure Covers** *(33 05 63 00-0290)*		
33 05 63 00-0292	EA	5" x 16", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	130.82	11.51
33 05 63 00-0293	EA	10" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	132.53	11.51
33 05 63 00-0294	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	122.78	11.51
33 05 63 00-0295	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	132.86	11.51
33 05 63 00-0296	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	134.15	11.50
33 05 63 00-0297	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	154.00	11.50
33 05 63 00-0298	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	178.55	11.50
33 05 63 00-0299	EA	30" x 59", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,176.70	35.61
33 05 63 00-0300	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,030.32	35.61
33 05 63 00-0301	EA	36" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,540.20	35.61
33 05 63 00-0302	EA	48" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,557.58	35.61
33 05 63 00-0303	EA	36" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,763.89	35.61
33 05 63 00-0304	EA	48" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,921.47	35.61
33 05 63 00-0305	EA	48" x 96", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	3,084.95	35.61
33 05 63 00-0306	EA	10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	111.95	11.50
33 05 63 00-0307	EA	11" x 18", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	160.67	11.50
33 05 63 00-0308	EA	11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	162.94	11.50
33 05 63 00-0309	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	205.16	11.50
33 05 63 00-0310	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	154.63	11.50
33 05 63 00-0311	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	242.82	11.50
33 05 63 00-0312	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	190.51	11.50
33 05 63 00-0313	EA	27" Round, 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	391.62	11.50
33 05 63 00-0314	EA	24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	342.76	17.25
33 05 63 00-0315	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	429.81	17.25

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0316	EA	39" Round, 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	554.09	20.13
33 05 63 00-0317	EA	36" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	780.80	27.70
33 05 63 00-0318	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	811.65	52.75
33 05 63 00-0319	EA	11" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	207.69	11.50
33 05 63 00-0320	EA	13" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	296.40	11.50
33 05 63 00-0321	EA	17" x 30", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	337.35	11.50
33 05 63 00-0322	EA	27" Round, 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	561.35	11.50
33 05 63 00-0323	EA	24" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	462.42	17.25
33 05 63 00-0324	EA	39" Round, 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	782.01	20.13
33 05 63 00-0325	EA	36" x 36", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,027.70	27.70
33 05 63 00-0326	EA	30" x 59", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,386.57	35.61
33 05 63 00-0327	EA	30" x 60", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,233.20	35.61
33 05 63 00-0328	EA	36" x 60", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,720.92	35.61
33 05 63 00-0329	EA	48" x 48", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,239.63	35.61
33 05 63 00-0330	EA	36" x 72", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,145.01	35.61
33 05 63 00-0331	EA	48" x 72", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,253.87	35.61
33 05 63 00-0332	EA	48" x 96", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	5,023.73	35.61
33 05 63 00-0333	EA	11" x 18", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	273.41	11.50
33 05 63 00-0334	EA	11" x 20", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	299.04	11.50
33 05 63 00-0335	EA	13" x 24", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	393.95	11.50
33 05 63 00-0336	EA	17" x 30", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	449.03	11.50
33 05 63 00-0337	EA	27" Round, 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	776.59	11.50
33 05 63 00-0338	EA	24" x 24", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	563.85	17.25
33 05 63 00-0339	EA	24" x 36", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	771.23	17.25
33 05 63 00-0340	EA	39" Round, 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,196.13	20.13
33 05 63 00-0341	EA	36" x 36", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,371.39	27.70
33 05 63 00-0342	EA	30" x 48", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,427.01	52.75
33 05 63 00-0343	EA	30" x 60", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,650.63	35.61
33 05 63 00-0344	EA	36" x 60", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,302.73	35.61
33 05 63 00-0345	EA	48" x 48", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,219.93	35.61
33 05 63 00-0346	EA	36" x 72", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,873.78	35.61
33 05 63 00-0347	EA	48" x 72", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	4,759.69	35.61
33 05 63 00-0348	EA	48" x 96", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	7,344.36	35.61

33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets *(33 05 63 00-0290)*

33 05 63 00-0350	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	150.33	11.51
33 05 63 00-0351	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	158.91	11.51
33 05 63 00-0352	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	161.70	11.50
33 05 63 00-0353	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	162.76	11.50
33 05 63 00-0354	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	187.91	11.50
33 05 63 00-0355	EA	10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	119.86	11.50
33 05 63 00-0356	EA	11" x 18", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	168.78	11.50
33 05 63 00-0357	EA	11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	170.35	11.50
33 05 63 00-0358	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	213.52	11.50
33 05 63 00-0359	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	163.72	11.50
33 05 63 00-0360	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	200.12	11.50
33 05 63 00-0361	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	251.66	11.50
33 05 63 00-0362	EA	24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	348.69	17.25
33 05 63 00-0363	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	438.92	17.25
33 05 63 00-0364	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	821.02	52.75
33 05 63 00-0365	EA	6" x 8", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	99.75	11.51
33 05 63 00-0366	EA	8" x 8", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	156.23	11.51
33 05 63 00-0367	EA	8" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	173.83	11.51
33 05 63 00-0368	EA	12" x 12", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	166.01	11.51
33 05 63 00-0369	EA	10" x 15", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	136.68	11.50
33 05 63 00-0370	EA	11" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	215.78	11.50
33 05 63 00-0371	EA	11" x 20", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	234.06	11.50
33 05 63 00-0372	EA	13" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	305.00	11.50
33 05 63 00-0373	EA	17" x 30", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	346.69	11.50
33 05 63 00-0374	EA	24" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	470.78	17.25
33 05 63 00-0375	EA	24" x 36", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	588.00	17.25
33 05 63 00-0376	EA	30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	1,080.03	52.75

33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts *(33 05 63 00-0290)*

33 05 63 00-0378	EA	6" x 9", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	80.33	11.51
33 05 63 00-0379	EA	7" x 13", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	95.52	11.51
33 05 63 00-0380	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	115.97	11.51
33 05 63 00-0381	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	125.07	11.51
33 05 63 00-0382	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	124.81	11.50
33 05 63 00-0383	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	148.11	11.50
33 05 63 00-0384	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	171.00	11.50
33 05 63 00-0385	EA	24" x 36", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	414.89	17.25
33 05 63 00-0386	EA	30" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	777.56	52.75
33 05 63 00-0387	EA	30" x 59", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,163.91	35.61
33 05 63 00-0388	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,015.87	35.61
33 05 63 00-0389	EA	48" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,516.43	35.61
33 05 63 00-0390	EA	36" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,463.50	35.61

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0391	EA	36" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,750.09	35.61
33 05 63 00-0392	EA	48" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,870.49	35.61
33 05 63 00-0393	EA	48" x 96", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,986.97	35.61
33 05 63 00-0394	EA	10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	107.63	11.50
33 05 63 00-0395	EA	10" x 16", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	105.10	11.50
33 05 63 00-0396	EA	11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	155.21	11.50
33 05 63 00-0397	EA	11" x 21", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	170.55	11.50
33 05 63 00-0398	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	193.04	11.50
33 05 63 00-0399	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts	146.79	11.50
33 05 63 00-0400	EA	18" x 19", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	163.72	11.50
33 05 63 00-0401	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	232.20	11.50
33 05 63 00-0402	EA	24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	335.88	17.25
33 05 63 00-0403	EA	20" x 42", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	419.61	17.25
33 05 63 00-0404	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	414.64	17.25
33 05 63 00-0405	EA	36" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	749.71	27.70
33 05 63 00-0406	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	777.56	31.66

33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers *(33 05 63 00-0290)*

33 05 63 00-0408	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,211.60	35.61
33 05 63 00-0409	EA	36" x 60", 5,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,751.86	35.61
33 05 63 00-0410	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,016.84	52.75
33 05 63 00-0411	EA	30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,346.64	52.75
33 05 63 00-0412	EA	30" x 60", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,438.45	35.61
33 05 63 00-0413	EA	36" x 60", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,958.41	35.61

33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers *(33 05 63 00-0290)*

33 05 63 00-0415	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	470.93	17.25
33 05 63 00-0416	EA	36" x 36", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	878.11	27.70
33 05 63 00-0417	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	918.57	52.75
33 05 63 00-0418	EA	6" x 8", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	76.10	11.51
33 05 63 00-0419	EA	8" x 8", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	125.87	11.51
33 05 63 00-0420	EA	12" x 12", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	138.46	11.51
33 05 63 00-0421	EA	8" x 18", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	146.80	11.51
33 05 63 00-0422	EA	10" x 15", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	128.84	11.50
33 05 63 00-0423	EA	11" x 20", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	226.64	11.50
33 05 63 00-0424	EA	24" x 36", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	630.83	17.25
33 05 63 00-0425	EA	36" x 36", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,166.47	27.70
33 05 63 00-0426	EA	30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,222.83	52.75

33 05 63 00-0427 Precast Concrete Handholes With Steel Cover *(33 05 63 00-0068)*

Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).

33 05 63 00-0428	EA	12" x 12" x 12" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,145.64	284.05
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*18.00*	
33 05 63 00-0429	EA	12" x 24" x 21" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,953.60	426.08
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*119.56*	
33 05 63 00-0430	EA	18" x 30" x 18" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,340.39	568.11
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*212.45*	
33 05 63 00-0431	EA	24" x 24" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,443.15	568.11
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*270.13*	
33 05 63 00-0432	EA	24" x 24" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,849.57	710.13
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*326.72*	
33 05 63 00-0433	EA	30" x 36" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	3,019.98	710.13
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*355.21*	
33 05 63 00-0434	EA	36" x 36" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	3,471.60	852.15
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*416.30*	
33 05 63 00-0435	EA	48" x 48" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	3,977.78	994.19
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*570.70*	
33 05 63 00-0436	EA	48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	3,978.30	852.15
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*605.62*	
33 05 63 00-0437	EA	54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	4,021.89	852.15
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*435.42*	
33 05 63 00-0438	EA	6" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	866.57	284.05
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*15.00*	
33 05 63 00-0439	EA	9" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,029.37	319.56
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*15.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0440	EA	12" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,283.93	355.07
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*15.00*	

33 05 81 Metallic Castings for Utility Structures *(33 05)*

33 05 81 00-0001 Manhole Accessories *(33 05 81)*

33 05 81 00-0002 Steps For Cast-In-Place Manholes *(33 05 81 00-0001)*

See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 81 00-0003	EA	Cast Iron Manhole Step For New Manholes	97.43	
33 05 81 00-0004	EA	Galvanized Steel Manhole Step For New Manholes	74.14	
33 05 81 00-0005	EA	Aluminum Manhole Step For New Manholes	124.82	

33 05 81 00-0006 Inlet shields *(33 05 81 00-0001)*

33 05 81 00-0007	EA	Stainless Steel Inlet Shield (BMP) With 2-1/8" Diameter Holes Note: Includes installing hook in concrete.	586.28	
33 05 81 00-0008	EA	Stainless Steel Inlet Shield (BMP) With 2-1/8" Diameter Holes, Flush Mount With Plate And Hook Note: Includes bolting plate to concrete.	745.60	
33 05 81 00-0009	EA	Stainless Steel Inlet Shield (BMP) With 2-1/8" Diameter Holes, Riser Mount With Plate And Hook Note: Includes bolting plate to concrete.	790.67	
33 05 81 00-0010	EA	Fixed Stainless Steel Inlet Shield (BMP) With 1" Diameter Holes, Flush Mount Note: Includes bolting plate to concrete.	805.69	
33 05 81 00-0011	EA	Fixed Stainless Steel Inlet Shield (BMP) With 1" Diameter Holes, Riser Mount Note: Includes bolting plate to concrete.	835.73	

33 05 81 00-0012 Manhole Covers And Frames *(33 05 81)*

Note: Includes moisture-tight masonry joints and waterproof grouting.

33 05 81 00-0013 Regular Manhole Covers And Frames *(33 05 81 00-0012)*

33 05 81 00-0014	EA	18" Square, Gray Iron, Manhole Cover With Frame	3,759.78	102.10
		For Ductile Iron Castings, Add	*2,415.78*	
33 05 81 00-0015	EA	18" Diameter, Gray Iron, Manhole Cover With Frame	1,983.83	102.10
		For Ductile Iron Castings, Add	*1,172.61*	
33 05 81 00-0016	EA	24" Diameter, Gray Iron, Manhole Cover With Frame	2,293.00	118.72
		For Ductile Iron Castings, Add	*1,355.78*	
33 05 81 00-0017	EA	24" Square, Gray Iron, Manhole Cover With Frame	3,760.99	131.78
		For Ductile Iron Castings, Add	*2,355.68*	
33 05 81 00-0018	EA	26" Diameter, Gray Iron, Manhole Cover With Frame	3,098.81	142.47
		For Ductile Iron Castings, Add	*1,868.80*	
33 05 81 00-0019	EA	30" Diameter, Gray Iron, Manhole Cover With Frame	3,235.25	148.40
		For Ductile Iron Castings, Add	*1,953.05*	

33 05 81 00-0020 Watertight Type Manhole Covers And Frames *(33 05 81 00-0012)*

33 05 81 00-0021	EA	20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,146.41	84.30
		For Ductile Iron Castings, Add	*2,667.63*	
33 05 81 00-0022	EA	22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,186.52	84.30
		For Ductile Iron Castings, Add	*2,676.37*	
33 05 81 00-0023	EA	24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,244.33	98.54
		For Ductile Iron Castings, Add	*2,694.02*	
33 05 81 00-0024	EA	26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	5,096.13	110.41
		For Ductile Iron Castings, Add	*3,266.92*	
33 05 81 00-0025	EA	30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	5,954.70	112.78
		For Ductile Iron Castings, Add	*3,856.66*	
33 05 81 00-0026	EA	32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	6,284.80	115.16
		For Ductile Iron Castings, Add	*4,083.65*	
33 05 81 00-0027	EA	36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	6,579.77	118.72
		For Ductile Iron Castings, Add	*4,285.89*	

33 05 81 00-0028 Aluminum Manhole Covers And Frames *(33 05 81 00-0012)*

33 05 81 00-0029	EA	12" Square Aluminum Manhole Cover With Frame	1,587.71	33.54
33 05 81 00-0030	EA	18" Square Aluminum Manhole Cover With Frame	2,944.12	37.13
33 05 81 00-0031	EA	24" Square Aluminum Manhole Cover With Frame	4,241.48	43.12

33 05 81 00-0032 Removal And Reinstallation Of Manhole Cover And Frame *(33 05 81 00-0012)*

Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.

33 05 81 00-0033	EA	Removal And Reinstallation Of Manhole Cover And Frame	475.99	

33 05 83 Non-Metallic Accessories for Utility Structures *(33 05)*

33 05 83 00-0001 Manhole Accessories *(33 05 83)*

33 05 83 00-0002 Steps For Cast-In-Place Manholes *(33 05 83 00-0001)*

See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 83 00-0003	EA	Polypropylene Manhole Step For New Manholes	57.08	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 83 00-0004		**Rainguard Inflow Protectors** *(33 05 83)*		
33 05 83 00-0005	EA	18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	148.59	24.49
33 05 83 00-0006	EA	22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	173.42	24.49
33 05 83 00-0007	EA	24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	207.30	29.38
33 05 83 00-0008	EA	26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	222.99	29.38
33 05 83 00-0009	EA	30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	277.53	34.28
33 05 83 00-0010	EA	32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	296.80	34.28

33 05 84 Accessories for Utility Structures *(33 05)*

See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 05 84 00-0001 Manhole Accessories *(33 05 84)*

33 05 84 00-0002 Precast Concrete Manhole Tops *(33 05 84 00-0001)*

33 05 84 00-0003 Precast Concrete Manhole Slab Tops *(33 05 84 00-0002)*

33 05 84 00-0004	EA	3' Diameter x 8" Thick Precast Manhole Top Slab	662.58	89.04
33 05 84 00-0005	EA	4' Diameter x 8" Thick Precast Manhole Top Slab	930.36	96.16
33 05 84 00-0006	EA	5' Diameter x 8" Thick Precast Manhole Top Slab	1,262.50	103.29
33 05 84 00-0007	EA	6' Diameter x 8" Thick Precast Manhole Top Slab	1,513.43	110.41
33 05 84 00-0008	EA	7' Diameter x 8" Thick Precast Manhole Top Slab	2,310.87	118.72
33 05 84 00-0009	EA	8' Diameter x 10" Thick Precast Manhole Top Slab	3,089.23	127.62
33 05 84 00-0010	EA	10' Diameter x 12" Thick Precast Manhole Top Slab	5,273.61	136.53
33 05 84 00-0011	EA	12' Diameter x 12" Thick Precast Manhole Top Slab	7,490.06	146.92

33 05 84 00-0012 Precast Concrete Manhole Cone Tops *(33 05 84 00-0002)*

33 05 84 00-0013	EA	3' Diameter x 8" Thick Precast Manhole Top Cone	1,058.04	111.30
33 05 84 00-0014	EA	3'-6" Diameter x 8" Thick Precast Manhole Top Cone	1,177.98	115.75
33 05 84 00-0015	EA	4' Diameter x 8" Thick Precast Manhole Top Cone	1,297.95	120.20
33 05 84 00-0016	EA	5' Diameter x 8" Thick Precast Manhole Top Cone	1,531.88	127.62
33 05 84 00-0017	EA	6' Diameter x 8" Thick Precast Manhole Top Cone	1,771.79	136.53
33 05 84 00-0018	EA	7' Diameter x 8" Thick Precast Manhole Top Cone	2,817.07	145.43
33 05 84 00-0019	EA	8' Diameter x 10" Thick Precast Manhole Top Cone	3,540.97	160.27

33 05 84 00-0020 Precast Concrete Manhole Reducer Slabs *(33 05 84 00-0002)*

33 05 84 00-0021	EA	5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,388.79	103.29
33 05 84 00-0022	EA	6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,790.89	110.41
33 05 84 00-0023	EA	7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	2,368.33	110.41
33 05 84 00-0024	EA	8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	3,755.74	110.41
33 05 84 00-0025	EA	10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	4,835.10	110.41
33 05 84 00-0026	EA	12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	7,008.64	110.41

33 05 84 00-0027 Pipe To Manhole Connector *(33 05 84 00-0001)*

33 05 84 00-0028 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors *(33 05 84 00-0027)*

33 05 84 00-0029	EA	4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	95.70	
33 05 84 00-0030	EA	6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	140.77	
33 05 84 00-0031	EA	8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	158.71	
33 05 84 00-0032	EA	10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	239.84	
33 05 84 00-0033	EA	12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	335.09	
33 05 84 00-0034	EA	15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	443.59	
33 05 84 00-0035	EA	18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	798.41	
33 05 84 00-0036	EA	21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,108.67	
33 05 84 00-0037	EA	24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,748.04	
33 05 84 00-0038	EA	27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	2,058.50	

33 05 84 00-0039 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout *(33 05 84 00-0027)*

Note: Fernco CMA.

33 05 84 00-0040	EA	4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	121.81	
33 05 84 00-0041	EA	6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	169.30	
33 05 84 00-0042	EA	8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	213.98	
33 05 84 00-0043	EA	10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	258.42	
33 05 84 00-0044	EA	12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	299.77	

33 05 84 00-0045 Brick And Grout Pipe To Manhole Connector *(33 05 84 00-0027)*

33 05 84 00-0046	EA	Seal Gap Between Pipe And Structure With Brick And Grout	298.99	

33 05 84 00-0047 Inverts For Manholes *(33 05 84 00-0001)*

33 05 84 00-0048	EA	Single Channel Concrete Invert For Manholes	467.82	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0049	EA	Double Channel Concrete Invert For Manholes	677.78	
33 05 84 00-0050	EA	Triple Channel Concrete Invert For Manholes	911.77	
33 05 84 00-0051	EA	Quad Channel Concrete Invert For Manholes	1,145.69	
33 05 84 00-0052	EA	Single Channel Brick Invert For Manholes	716.77	
33 05 84 00-0053	EA	Double Channel Brick Invert For Manholes	1,072.94	
33 05 84 00-0054	EA	Triple Channel Brick Invert For Manholes	1,435.18	
33 05 84 00-0055	EA	Quad Channel Brick Invert For Manholes	1,793.48	

33 05 84 00-0056 Protective Coating For New Manholes *(33 05 84 00-0001)*

33 05 84 00-0057 Polyurethane Protective Coating For New Manholes *(33 05 84 00-0056)*

33 05 84 00-0058	VLF	60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior	228.68
		For 80 Mil Material, Add	*33.91*
		For 100 Mil Material, Add	*67.82*
		For 125 Mil Material, Add	*107.13*
		For 150 Mil Material, Add	*146.45*
		For 200 Mil Material, Add	*216.89*
		For 2 To 5 Manholes, Deduct	*-15.53*
		For 6 To 10 Manholes, Deduct	*-25.34*
		For >10 Manholes, Deduct	*-50.68*
33 05 84 00-0059	VLF	60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior	275.96
		For 80 Mil Material, Add	*40.27*
		For 100 Mil Material, Add	*80.53*
		For 125 Mil Material, Add	*127.11*
		For 150 Mil Material, Add	*173.69*
		For 200 Mil Material, Add	*256.83*
		For 2 To 5 Manholes, Deduct	*-18.80*
		For 6 To 10 Manholes, Deduct	*-30.71*
		For >10 Manholes, Deduct	*-61.42*
33 05 84 00-0060	VLF	60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior	304.90
		For 80 Mil Material, Add	*45.21*
		For 100 Mil Material, Add	*90.42*
		For 125 Mil Material, Add	*142.84*
		For 150 Mil Material, Add	*195.26*
		For 200 Mil Material, Add	*289.17*
		For 2 To 5 Manholes, Deduct	*-20.71*
		For 6 To 10 Manholes, Deduct	*-33.79*
		For >10 Manholes, Deduct	*-67.58*
33 05 84 00-0061	VLF	60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior	381.20
		For 80 Mil Material, Add	*56.54*
		For 100 Mil Material, Add	*113.08*
		For 125 Mil Material, Add	*178.63*
		For 150 Mil Material, Add	*244.19*
		For 200 Mil Material, Add	*361.65*
		For 2 To 5 Manholes, Deduct	*-25.89*
		For 6 To 10 Manholes, Deduct	*-42.24*
		For >10 Manholes, Deduct	*-84.48*
33 05 84 00-0062	VLF	60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior	442.87
		For 80 Mil Material, Add	*66.75*
		For 100 Mil Material, Add	*133.50*
		For 125 Mil Material, Add	*211.07*
		For 150 Mil Material, Add	*288.63*
		For 200 Mil Material, Add	*428.11*
		For 2 To 5 Manholes, Deduct	*-29.97*
		For 6 To 10 Manholes, Deduct	*-48.87*
		For >10 Manholes, Deduct	*-97.74*
33 05 84 00-0063	VLF	60 Mil Polyurethane Coating Of 7' Diameter Manhole Interior	515.52
		For 80 Mil Material, Add	*77.80*
		For 100 Mil Material, Add	*155.60*
		For 125 Mil Material, Add	*246.03*
		For 150 Mil Material, Add	*336.46*
		For 200 Mil Material, Add	*499.11*
		For 2 To 5 Manholes, Deduct	*-34.88*
		For 6 To 10 Manholes, Deduct	*-56.87*
		For >10 Manholes, Deduct	*-113.73*
33 05 84 00-0064	VLF	60 Mil Polyurethane Coating Of 8' Diameter Manhole Interior	588.04
		For 80 Mil Material, Add	*88.81*
		For 100 Mil Material, Add	*177.62*
		For 125 Mil Material, Add	*280.85*
		For 150 Mil Material, Add	*384.08*
		For 200 Mil Material, Add	*569.80*
		For 2 To 5 Manholes, Deduct	*-39.78*
		For 6 To 10 Manholes, Deduct	*-64.85*
		For >10 Manholes, Deduct	*-129.70*

33 05 84 00-0065 Polyvinyl Chloride (PVC) Liner *(33 05 84 00-0056)*

Note: For new manholes and shop applied.

33 05 84 00-0066	VLF	3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	305.01
33 05 84 00-0067	VLF	3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	373.88
33 05 84 00-0068	VLF	4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	456.26
33 05 84 00-0069	VLF	5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	572.97
33 05 84 00-0070	VLF	6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	689.69
33 05 84 00-0071	SF	Polyvinyl Chloride (PVC) Liner At Structures	46.74

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0072		Concrete Grade Extensions/Grade Rings *(33 05 84 00-0001)*		
33 05 84 00-0073		18" Diameter, Concrete Grade Extensions/Grade Rings *(33 05 84 00-0072)*		
33 05 84 00-0074	EA	4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	100.55	
33 05 84 00-0075	EA	6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	109.97	
33 05 84 00-0076	EA	8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	119.39	
33 05 84 00-0077	EA	10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	128.81	
33 05 84 00-0078		24" Diameter, Concrete Grade Extensions/Grade Rings *(33 05 84 00-0072)*		
33 05 84 00-0079	EA	4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	112.90	
33 05 84 00-0080	EA	6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	123.61	
33 05 84 00-0081	EA	8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	134.32	
33 05 84 00-0082	EA	10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	145.03	
33 05 84 00-0083		30" Diameter, Concrete Grade Extensions/Grade Rings *(33 05 84 00-0072)*		
33 05 84 00-0084	EA	4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	125.00	
33 05 84 00-0085	EA	6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	136.94	
33 05 84 00-0086	EA	8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	148.88	
33 05 84 00-0087	EA	10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	160.82	
33 05 84 00-0088		Bentonite Collar *(33 05 84 00-0001)*		
33 05 84 00-0089		Bentonite Collar At Manhole Connections *(33 05 84 00-0088)*		
33 05 84 00-0090	EA	Up To 12" Pipe, Bentonite Collar At Manhole Connection	163.64	
33 05 84 00-0091	EA	>12" To 21", Bentonite Collar At Manhole Connection	259.21	
33 05 84 00-0092	EA	>21" To 30" Pipe, Bentonite Collar At Manhole Connection	410.48	
33 05 84 00-0093	EA	>30" To 36" Pipe, Bentonite Collar At Manhole Connection	959.17	
33 05 84 00-0094	EA	>36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,498.86	
33 05 84 00-0095	EA	>48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,722.69	
33 05 84 00-0096		Expanded Polypropylene (EPP) Finish Ring *(33 05 84 00-0001)*		
33 05 84 00-0097	EA	34" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	114.35	
33 05 84 00-0098	EA	34" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	116.77	
33 05 84 00-0099	EA	34" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	123.87	
33 05 84 00-0100	EA	34" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	130.97	
33 05 84 00-0101	EA	34" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	138.07	
33 05 84 00-0102	EA	34" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	145.16	
33 05 84 00-0103	EA	34" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	157.87	
33 05 84 00-0104	EA	34" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	127.63	
33 05 84 00-0105	EA	36" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	120.52	
33 05 84 00-0106	EA	36" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	123.11	
33 05 84 00-0107	EA	36" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	130.70	
33 05 84 00-0108	EA	36" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	138.29	
33 05 84 00-0109	EA	36" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	145.88	
33 05 84 00-0110	EA	36" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	153.47	
33 05 84 00-0111	EA	36" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	167.06	
33 05 84 00-0112	EA	36" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	134.72	
33 05 84 00-0113	EA	40" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	134.28	
33 05 84 00-0114	EA	40" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	137.45	
33 05 84 00-0115	EA	40" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	146.92	
33 05 84 00-0116	EA	40" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	156.41	
33 05 84 00-0117	EA	40" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	164.68	
33 05 84 00-0118	EA	40" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	172.94	
33 05 84 00-0119	EA	40" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	186.90	
33 05 84 00-0120	EA	40" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	151.64	
33 05 84 00-0121	EA	46" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	149.44	
33 05 84 00-0122	EA	46" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	153.24	
33 05 84 00-0123	EA	46" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	164.85	
33 05 84 00-0124	EA	46" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	176.45	
33 05 84 00-0125	EA	46" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	185.48	
33 05 84 00-0126	EA	46" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	194.51	
33 05 84 00-0127	EA	46" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	208.91	
33 05 84 00-0128	EA	46" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	170.33	
33 05 84 00-0129		Expanded Polypropylene (EPP) Grade Ring *(33 05 84 00-0001)*		
33 05 84 00-0130	EA	34" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	145.16	
33 05 84 00-0131	EA	34" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	200.78	
33 05 84 00-0132	EA	34" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	251.64	
33 05 84 00-0133	EA	36" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	153.47	
33 05 84 00-0134	EA	36" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	212.94	
33 05 84 00-0135	EA	36" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	267.35	
33 05 84 00-0136	EA	40" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	172.94	
33 05 84 00-0137	EA	40" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	238.39	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0138	EA	40" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	298.74	
33 05 84 00-0139	EA	46" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	194.51	
33 05 84 00-0140	EA	46" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	266.71	
33 05 84 00-0141	EA	46" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	333.76	
33 05 84 00-0142		Waste Water Collection System Taps *(33 05 84)*		
		Note: For tapping existing structures only. Includes grout.		
33 05 84 00-0143		Brick Manhole Taps *(33 05 84 00-0142)*		
33 05 84 00-0144	EA	4" Tap In 6" Brick Manhole	614.01	
33 05 84 00-0145	EA	6" Tap In 6" Brick Manhole	685.84	
33 05 84 00-0146	EA	8" Tap In 6" Brick Manhole	756.39	
33 05 84 00-0147	EA	10" Tap In 6" Brick Manhole	826.79	
33 05 84 00-0148	EA	12" Tap In 6" Brick Manhole	912.46	
33 05 84 00-0149	EA	15" Tap In 6" Brick Manhole	982.72	
33 05 84 00-0150		Precast Concrete Manhole Tap *(33 05 84 00-0142)*		
33 05 84 00-0151	EA	4" Tap In Existing Precast Concrete Manhole	897.12	
33 05 84 00-0152	EA	6" Tap In Existing Precast Concrete Manhole	1,004.86	
33 05 84 00-0153	EA	8" Tap In Existing Precast Concrete Manhole	1,123.87	
33 05 84 00-0154	EA	10" Tap In Existing Precast Concrete Manhole	1,229.48	
33 05 84 00-0155	EA	12" Tap In Existing Precast Concrete Manhole	1,334.87	
33 05 84 00-0156	EA	15" Tap In Existing Precast Concrete Manhole	1,442.82	
33 05 84 00-0157	EA	18" Tap In Existing Precast Concrete Manhole	1,661.44	
33 05 84 00-0158	EA	24" Tap In Existing Precast Concrete Manhole	2,136.24	

33 05 97 Identification and Signage for Utilities *(33 05)*

33 05 97 16 Markers for Utility Identification *(33 05 97)*

33 05 97 16-0001		Reflective Sheeting Delineators *(33 05 97 16)*		
33 05 97 16-0002	EA	Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square	52.01	
33 05 97 16-0003	EA	Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square	55.65	
33 05 97 16-0004	EA	Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square	62.92	
33 05 97 16-0005	EA	Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square	66.56	
33 05 97 16-0006	EA	Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square	70.20	
33 05 97 16-0007	EA	Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square	60.20	
33 05 97 16-0008	EA	Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	52.92	
33 05 97 16-0009	EA	Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	56.56	
33 05 97 16-0010	EA	Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	56.56	
33 05 97 16-0011	EA	Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	60.20	
33 05 97 16-0012	EA	Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	63.83	
33 05 97 16-0013	EA	Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	67.47	
33 05 97 16-0014	EA	Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	100.22	
33 05 97 16-0015	EA	Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	66.56	
33 05 97 16-0016	EA	Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	104.77	
33 05 97 16-0017	EA	Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	100.22	
33 05 97 16-0018	EA	Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	103.86	
33 05 97 16-0019	EA	Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	104.77	
33 05 97 16-0020	EA	Relocate Delineator	65.72	
33 05 97 16-0021		Reference Markers *(33 05 97 16)*		
33 05 97 16-0022	EA	Reference Marker, 4' Mounting Height	113.69	
33 05 97 16-0023	EA	Reference Marker, 7' Mounting Height	143.82	
33 05 97 16-0024	EA	Reference Marker, Band Or Bracket Mounted	135.03	
33 05 97 16-0025	EA	Reference Marker, Furnish Panel Only	129.30	
33 05 97 16-0026	EA	Relocate Reference Marker	65.72	
33 05 97 16-0027		Object Markers *(33 05 97 16)*		
33 05 97 16-0028	EA	Object Marker, Type L-1	100.76	
33 05 97 16-0029	EA	Object Marker, Type L-2	92.81	
33 05 97 16-0030	EA	Object Marker, Type K-1	107.11	
33 05 97 16-0031	EA	Object Marker, Type K-2	99.17	
33 05 97 16-0032	EA	Object Marker, Type Q	67.38	
33 05 97 16-0033		Snowplowing Marker *(33 05 97 16)*		
33 05 97 16-0034	EA	Snowplowing Marker, Single Unit	111.88	
33 05 97 16-0035	EA	Snowplowing Marker, Double Unit	116.90	
33 05 97 16-0036	EA	Supplementary Snowplowing Marker	116.90	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 97 16-0037	EA	Relocate Snowplowing Marker	66.36	

33 05 97 23 Utility Identification Warning Tape *(33 05 97)*

33 05 97 23-0001 Non-Detectable Utility Warning Tape *(33 05 97 23)*
Note: Labor installation is included with pipe and excavation.

33 05 97 23-0002	CLF	3" Non-Detectable Utility Warning Tape	8.61	
33 05 97 23-0003	CLF	6" Non-Detectable Utility Warning Tape	12.15	

33 05 97 23-0004 Detectable Utility Warning Tape *(33 05 97 23)*
Note: Labor installation is included with pipe and excavation.

33 05 97 23-0005	CLF	2" Detectable Utility Warning Tape	8.75	
33 05 97 23-0006	CLF	3" Detectable Utility Warning Tape	11.96	
33 05 97 23-0007	CLF	6" Detectable Utility Warning Tape	19.18	

33 10 Water Utilities *(33)*

33 11 Groundwater Sources *(33 10)*

33 11 13 Potable Water Supply Wells *(33 11)*

33 11 13 00-0001 Drill And Test Water Well *(33 11 13)*

33 11 13 00-0002 Drill Hole *(33 11 13 00-0001)*
Note: Excludes loading and hauling of spoils.

33 11 13 00-0003 Mobilization And Demobilization *(33 11 13 00-0002)*

33 11 13 00-0004	EA	Up To 12" Diameter, Well Drilling Mobilization And Demobilization	1,180.68	
33 11 13 00-0005	EA	>12" To 24" Diameter, Well Drilling Mobilization And Demobilization	1,440.92	
33 11 13 00-0006	EA	>24" To 36" Diameter, Well Drilling Mobilization And Demobilization	2,161.37	

33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. *(33 11 13 00-0002)*
Note: Excludes well casing, gravel or materials.

33 11 13 00-0008	LF	Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	27.92	
		For >100 To 250, Add	*0.70*	
		For >250 To 400, Add	*1.40*	
		For >400 To 600, Add	*2.09*	
		For >600 To 750, Add	*2.79*	
		For >750, Add	*3.49*	
33 11 13 00-0009	LF	8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	33.14	
		For >100 To 250, Add	*0.83*	
		For >250 To 400, Add	*1.66*	
		For >400 To 600, Add	*2.49*	
		For >600 To 750, Add	*3.31*	
		For >750, Add	*4.14*	
33 11 13 00-0010	LF	10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	44.31	
		For >100 To 250, Add	*1.11*	
		For >250 To 400, Add	*2.22*	
		For >400 To 600, Add	*3.32*	
		For >600 To 750, Add	*4.43*	
		For >750, Add	*5.54*	
33 11 13 00-0011	LF	12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	69.35	
		For >100 To 250, Add	*1.73*	
		For >250 To 400, Add	*3.47*	
		For >400 To 600, Add	*5.20*	
		For >600 To 750, Add	*6.94*	
		For >750, Add	*8.67*	
33 11 13 00-0012	LF	14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	99.78	
		For >100 To 250, Add	*2.49*	
		For >250 To 400, Add	*4.99*	
		For >400 To 600, Add	*7.48*	
		For >600 To 750, Add	*9.98*	
		For >750, Add	*12.47*	
33 11 13 00-0013	LF	16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	130.40	
		For >100 To 250, Add	*3.26*	
		For >250 To 400, Add	*6.52*	
		For >400 To 600, Add	*9.78*	
		For >600 To 750, Add	*13.04*	
		For >750, Add	*16.30*	
33 11 13 00-0014	LF	18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	154.90	
		For >100 To 250, Add	*3.87*	
		For >250 To 400, Add	*7.75*	
		For >400 To 600, Add	*11.62*	
		For >600 To 750, Add	*15.49*	
		For >750, Add	*19.36*	
33 11 13 00-0015	LF	20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	180.11	
		For >100 To 250, Add	*4.50*	
		For >250 To 400, Add	*9.01*	
		For >400 To 600, Add	*13.51*	
		For >600 To 750, Add	*18.01*	
		For >750, Add	*22.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0016	LF	22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	211.64	
		For >100 To 250, Add	*5.29*	
		For >250 To 400, Add	*10.58*	
		For >400 To 600, Add	*15.87*	
		For >600 To 750, Add	*21.16*	
		For >750, Add	*26.46*	
33 11 13 00-0017	LF	24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	249.46	
		For >100 To 250, Add	*6.24*	
		For >250 To 400, Add	*12.47*	
		For >400 To 600, Add	*18.71*	
		For >600 To 750, Add	*24.95*	
		For >750, Add	*31.18*	
33 11 13 00-0018	LF	26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	269.63	
		For >100 To 250, Add	*6.74*	
		For >250 To 400, Add	*13.48*	
		For >400 To 600, Add	*20.22*	
		For >600 To 750, Add	*26.96*	
		For >750, Add	*33.70*	
33 11 13 00-0019	LF	28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	296.65	
		For >100 To 250, Add	*7.42*	
		For >250 To 400, Add	*14.83*	
		For >400 To 600, Add	*22.25*	
		For >600 To 750, Add	*29.67*	
		For >750, Add	*37.08*	
33 11 13 00-0020	LF	30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	324.92	
		For >100 To 250, Add	*8.12*	
		For >250 To 400, Add	*16.25*	
		For >400 To 600, Add	*24.37*	
		For >600 To 750, Add	*32.49*	
		For >750, Add	*40.62*	
33 11 13 00-0021	LF	36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	404.18	
		For >100 To 250, Add	*10.10*	
		For >250 To 400, Add	*20.21*	
		For >400 To 600, Add	*30.31*	
		For >600 To 750, Add	*40.42*	
		For >750, Add	*50.52*	

33 11 13 00-0022 Drill Hole In Sedimentary Rock *(33 11 13 00-0002)*

33 11 13 00-0023	LF	6" Water Well Hole Drilled In Sedimentary Rock	56.91	
		For >100 To 250, Add	*1.42*	
		For >250 To 400, Add	*2.85*	
		For >400 To 600, Add	*4.27*	
		For >600 To 750, Add	*5.69*	
		For >750, Add	*7.11*	
33 11 13 00-0024	LF	8" Water Well Hole Drilled In Sedimentary Rock	66.29	
		For >100 To 250, Add	*1.66*	
		For >250 To 400, Add	*3.31*	
		For >400 To 600, Add	*4.97*	
		For >600 To 750, Add	*6.63*	
		For >750, Add	*8.29*	
33 11 13 00-0025	LF	10" Water Well Hole Drilled In Sedimentary Rock	106.13	
		For >100 To 250, Add	*2.65*	
		For >250 To 400, Add	*5.31*	
		For >400 To 600, Add	*7.96*	
		For >600 To 750, Add	*10.61*	
		For >750, Add	*13.27*	
33 11 13 00-0026	LF	12" Water Well Hole Drilled In Sedimentary Rock	138.76	
		For >100 To 250, Add	*3.47*	
		For >250 To 400, Add	*6.94*	
		For >400 To 600, Add	*10.41*	
		For >600 To 750, Add	*13.88*	
		For >750, Add	*17.35*	
33 11 13 00-0027	LF	14" Water Well Hole Drilled In Sedimentary Rock	199.71	
		For >100 To 250, Add	*4.99*	
		For >250 To 400, Add	*9.99*	
		For >400 To 600, Add	*14.98*	
		For >600 To 750, Add	*19.97*	
		For >750, Add	*24.96*	
33 11 13 00-0028	LF	16" Water Well Hole Drilled In Sedimentary Rock	260.66	
		For >100 To 250, Add	*6.52*	
		For >250 To 400, Add	*13.03*	
		For >400 To 600, Add	*19.55*	
		For >600 To 750, Add	*26.07*	
		For >750, Add	*32.58*	
33 11 13 00-0029	LF	18" Water Well Hole Drilled In Sedimentary Rock	309.94	
		For >100 To 250, Add	*7.75*	
		For >250 To 400, Add	*15.50*	
		For >400 To 600, Add	*23.25*	
		For >600 To 750, Add	*30.99*	
		For >750, Add	*38.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0030	LF	20" Water Well Hole Drilled In Sedimentary Rock	359.65	
		For >100 To 250, Add	*8.99*	
		For >250 To 400, Add	*17.98*	
		For >400 To 600, Add	*26.97*	
		For >600 To 750, Add	*35.97*	
		For >750, Add	*44.96*	
33 11 13 00-0031	LF	22" Water Well Hole Drilled In Sedimentary Rock	423.63	
		For >100 To 250, Add	*10.59*	
		For >250 To 400, Add	*21.18*	
		For >400 To 600, Add	*31.77*	
		For >600 To 750, Add	*42.36*	
		For >750, Add	*52.95*	
33 11 13 00-0032	LF	24" Water Well Hole Drilled In Sedimentary Rock	489.33	
		For >100 To 250, Add	*12.23*	
		For >250 To 400, Add	*24.47*	
		For >400 To 600, Add	*36.70*	
		For >600 To 750, Add	*48.93*	
		For >750, Add	*61.17*	
33 11 13 00-0033	LF	26" Water Well Hole Drilled In Sedimentary Rock	539.27	
		For >100 To 250, Add	*13.48*	
		For >250 To 400, Add	*26.96*	
		For >400 To 600, Add	*40.45*	
		For >600 To 750, Add	*53.93*	
		For >750, Add	*67.41*	
33 11 13 00-0034	LF	28" Water Well Hole Drilled In Sedimentary Rock	593.30	
		For >100 To 250, Add	*14.83*	
		For >250 To 400, Add	*29.67*	
		For >400 To 600, Add	*44.50*	
		For >600 To 750, Add	*59.33*	
		For >750, Add	*74.16*	
33 11 13 00-0035	LF	30" Water Well Hole Drilled In Sedimentary Rock	649.86	
		For >100 To 250, Add	*16.25*	
		For >250 To 400, Add	*32.49*	
		For >400 To 600, Add	*48.74*	
		For >600 To 750, Add	*64.99*	
		For >750, Add	*81.23*	
33 11 13 00-0036	LF	36" Water Well Hole Drilled In Sedimentary Rock	808.35	
		For >100 To 250, Add	*20.21*	
		For >250 To 400, Add	*40.42*	
		For >400 To 600, Add	*60.63*	
		For >600 To 750, Add	*80.84*	
		For >750, Add	*101.04*	

33 11 13 00-0037 Drill Hole In Crystalline Rock *(33 11 13 00-0002)*

33 11 13 00-0038	LF	6" Water Well Hole Drilled In Crystalline Rock	117.08	
		For >100 To 250, Add	*2.93*	
		For >250 To 400, Add	*5.85*	
		For >400 To 600, Add	*8.78*	
		For >600 To 750, Add	*11.71*	
		For >750, Add	*14.64*	
33 11 13 00-0039	LF	8" Water Well Hole Drilled In Crystalline Rock	135.08	
		For >100 To 250, Add	*3.38*	
		For >250 To 400, Add	*6.75*	
		For >400 To 600, Add	*10.13*	
		For >600 To 750, Add	*13.51*	
		For >750, Add	*16.89*	
33 11 13 00-0040	LF	10" Water Well Hole Drilled In Crystalline Rock	154.90	
		For >100 To 250, Add	*3.87*	
		For >250 To 400, Add	*7.75*	
		For >400 To 600, Add	*11.62*	
		For >600 To 750, Add	*15.49*	
		For >750, Add	*19.36*	
33 11 13 00-0041	LF	12" Water Well Hole Drilled In Crystalline Rock	196.32	
		For >100 To 250, Add	*4.91*	
		For >250 To 400, Add	*9.82*	
		For >400 To 600, Add	*14.72*	
		For >600 To 750, Add	*19.63*	
		For >750, Add	*24.54*	
33 11 13 00-0042	LF	14" Water Well Hole Drilled In Crystalline Rock	253.97	
		For >100 To 250, Add	*6.35*	
		For >250 To 400, Add	*12.70*	
		For >400 To 600, Add	*19.05*	
		For >600 To 750, Add	*25.40*	
		For >750, Add	*31.75*	
33 11 13 00-0043	LF	16" Water Well Hole Drilled In Crystalline Rock	369.24	
		For >100 To 250, Add	*9.23*	
		For >250 To 400, Add	*18.46*	
		For >400 To 600, Add	*27.69*	
		For >600 To 750, Add	*36.92*	
		For >750, Add	*46.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0044	LF	18" Water Well Hole Drilled In Crystalline Rock	439.48	
		For >100 To 250, Add	*10.99*	
		For >250 To 400, Add	*21.97*	
		For >400 To 600, Add	*32.96*	
		For >600 To 750, Add	*43.95*	
		For >750, Add	*54.94*	
33 11 13 00-0045	LF	20" Water Well Hole Drilled In Crystalline Rock	509.73	
		For >100 To 250, Add	*12.74*	
		For >250 To 400, Add	*25.49*	
		For >400 To 600, Add	*38.23*	
		For >600 To 750, Add	*50.97*	
		For >750, Add	*63.72*	
33 11 13 00-0046	LF	22" Water Well Hole Drilled In Crystalline Rock	599.79	
		For >100 To 250, Add	*14.99*	
		For >250 To 400, Add	*29.99*	
		For >400 To 600, Add	*44.98*	
		For >600 To 750, Add	*59.98*	
		For >750, Add	*74.97*	
33 11 13 00-0047	LF	24" Water Well Hole Drilled In Crystalline Rock	693.44	
		For >100 To 250, Add	*17.34*	
		For >250 To 400, Add	*34.67*	
		For >400 To 600, Add	*52.01*	
		For >600 To 750, Add	*69.34*	
		For >750, Add	*86.68*	

33 11 13 00-0048 Furnish And Install Casing *(33 11 13 00-0001)*

Note: Excludes drilling of hole.

33 11 13 00-0049 Steel Well Casing *(33 11 13 00-0048)*

33 11 13 00-0050	LF	6" Diameter, Steel Well Casing, Flush	47.78	
		For >100 To 250, Deduct	*-1.43*	
		For >250 To 400, Deduct	*-2.63*	
		For >400 To 600, Deduct	*-3.94*	
		For >600 To 750, Deduct	*-5.26*	
		For >750, Deduct	*-6.88*	
33 11 13 00-0051	LF	8" Diameter, Steel Well Casing, Flush	59.40	
		For >100 To 250, Deduct	*-1.78*	
		For >250 To 400, Deduct	*-3.27*	
		For >400 To 600, Deduct	*-4.90*	
		For >600 To 750, Deduct	*-6.54*	
		For >750, Deduct	*-8.56*	
33 11 13 00-0052	LF	10" Diameter, Steel Well Casing, Flush	87.98	
		For >100 To 250, Deduct	*-2.56*	
		For >250 To 400, Deduct	*-4.76*	
		For >400 To 600, Deduct	*-7.14*	
		For >600 To 750, Deduct	*-9.52*	
		For >750, Deduct	*-12.36*	
33 11 13 00-0053	LF	12" Diameter, Steel Well Casing, Flush	147.65	
		For >100 To 250, Deduct	*-4.12*	
		For >250 To 400, Deduct	*-7.81*	
		For >400 To 600, Deduct	*-11.72*	
		For >600 To 750, Deduct	*-15.63*	
		For >750, Deduct	*-20.10*	
33 11 13 00-0054	LF	14" Diameter, Steel Well Casing, Flush	165.57	
		For >100 To 250, Deduct	*-4.74*	
		For >250 To 400, Deduct	*-8.88*	
		For >400 To 600, Deduct	*-13.32*	
		For >600 To 750, Deduct	*-17.76*	
		For >750, Deduct	*-22.97*	
33 11 13 00-0055	LF	16" Diameter, Steel Well Casing, Flush	194.38	
		For >100 To 250, Deduct	*-5.60*	
		For >250 To 400, Deduct	*-10.46*	
		For >400 To 600, Deduct	*-15.69*	
		For >600 To 750, Deduct	*-20.92*	
		For >750, Deduct	*-27.12*	
33 11 13 00-0056	LF	18" Diameter, Steel Well Casing, Flush	221.76	
		For >100 To 250, Deduct	*-6.48*	
		For >250 To 400, Deduct	*-12.02*	
		For >400 To 600, Deduct	*-18.03*	
		For >600 To 750, Deduct	*-24.05*	
		For >750, Deduct	*-31.27*	
33 11 13 00-0057	LF	20" Diameter, Steel Well Casing, Flush	252.79	
		For >100 To 250, Deduct	*-7.47*	
		For >250 To 400, Deduct	*-13.79*	
		For >400 To 600, Deduct	*-20.68*	
		For >600 To 750, Deduct	*-27.58*	
		For >750, Deduct	*-35.97*	
33 11 13 00-0058	LF	24" Diameter, Steel Well Casing, Flush	295.47	
		For >100 To 250, Deduct	*-8.68*	
		For >250 To 400, Deduct	*-16.07*	
		For >400 To 600, Deduct	*-24.10*	
		For >600 To 750, Deduct	*-32.13*	
		For >750, Deduct	*-41.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0059	LB	Steel Well Casing, Furnish And Install	1.55	
		For >100 To 250, Deduct	*-0.06*	
		For >250 To 400, Deduct	*-0.09*	
		For >400 To 600, Deduct	*-0.14*	
		For >600 To 750, Deduct	*-0.19*	
		For >750, Deduct	*-0.26*	

33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded *(33 11 13 00-0048)*

33 11 13 00-0061	LF	6" Diameter, Stainless Steel Well Casing, Flush	73.85	
		For >100 To 250, Deduct	*-2.09*	
		For >250 To 400, Deduct	*-3.93*	
		For >400 To 600, Deduct	*-5.90*	
		For >600 To 750, Deduct	*-7.86*	
		For >750, Deduct	*-10.14*	
33 11 13 00-0062	LF	8" Diameter, Stainless Steel Well Casing, Flush	110.39	
		For >100 To 250, Deduct	*-3.06*	
		For >250 To 400, Deduct	*-5.82*	
		For >400 To 600, Deduct	*-8.73*	
		For >600 To 750, Deduct	*-11.64*	
		For >750, Deduct	*-14.94*	
33 11 13 00-0063	LF	10" Diameter, Stainless Steel Well Casing, Flush	153.92	
		For >100 To 250, Deduct	*-4.23*	
		For >250 To 400, Deduct	*-8.08*	
		For >400 To 600, Deduct	*-12.12*	
		For >600 To 750, Deduct	*-16.16*	
		For >750, Deduct	*-20.70*	
33 11 13 00-0064	LF	12" Diameter, Stainless Steel Well Casing, Flush	179.09	
		For >100 To 250, Deduct	*-4.93*	
		For >250 To 400, Deduct	*-9.41*	
		For >400 To 600, Deduct	*-14.11*	
		For >600 To 750, Deduct	*-18.82*	
		For >750, Deduct	*-24.12*	

33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring *(33 11 13 00-0048)*

33 11 13 00-0066	LF	10" Diameter, Stainless Steel Well Casing, Welded	165.42	
		For >100 To 250, Deduct	*-4.81*	
		For >250 To 400, Deduct	*-8.94*	
		For >400 To 600, Deduct	*-13.41*	
		For >600 To 750, Deduct	*-17.88*	
		For >750, Deduct	*-23.23*	
33 11 13 00-0067	LF	12" Diameter, Stainless Steel Well Casing, Welded	191.55	
		For >100 To 250, Deduct	*-5.56*	
		For >250 To 400, Deduct	*-10.34*	
		For >400 To 600, Deduct	*-15.52*	
		For >600 To 750, Deduct	*-20.69*	
		For >750, Deduct	*-26.86*	
33 11 13 00-0068	LF	14" Diameter, Stainless Steel Well Casing, Welded	229.68	
		For >100 To 250, Deduct	*-6.60*	
		For >250 To 400, Deduct	*-12.35*	
		For >400 To 600, Deduct	*-18.52*	
		For >600 To 750, Deduct	*-24.69*	
		For >750, Deduct	*-31.99*	
33 11 13 00-0069	LF	16" Diameter, Stainless Steel Well Casing, Welded	262.95	
		For >100 To 250, Deduct	*-7.56*	
		For >250 To 400, Deduct	*-14.13*	
		For >400 To 600, Deduct	*-21.20*	
		For >600 To 750, Deduct	*-28.26*	
		For >750, Deduct	*-36.60*	
33 11 13 00-0070	LF	18" Diameter, Stainless Steel Well Casing, Welded	290.72	
		For >100 To 250, Deduct	*-8.39*	
		For >250 To 400, Deduct	*-15.66*	
		For >400 To 600, Deduct	*-23.49*	
		For >600 To 750, Deduct	*-31.32*	
		For >750, Deduct	*-40.62*	
33 11 13 00-0071	LF	20" Diameter, Stainless Steel Well Casing, Welded	379.78	
		For >100 To 250, Deduct	*-10.84*	
		For >250 To 400, Deduct	*-20.33*	
		For >400 To 600, Deduct	*-30.50*	
		For >600 To 750, Deduct	*-40.66*	
		For >750, Deduct	*-52.57*	
33 11 13 00-0072	LF	24" Diameter, Stainless Steel Well Casing, Welded	499.58	
		For >100 To 250, Deduct	*-14.17*	
		For >250 To 400, Deduct	*-26.66*	
		For >400 To 600, Deduct	*-39.98*	
		For >600 To 750, Deduct	*-53.31*	
		For >750, Deduct	*-68.82*	

33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 *(33 11 13 00-0048)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0074	LF	6" Polyvinyl Chloride (PVC) Well Casing	48.61	
		For >100 To 250, Deduct	*-1.41*	
		For >250 To 400, Deduct	*-2.62*	
		For >400 To 600, Deduct	*-3.93*	
		For >600 To 750, Deduct	*-5.24*	
		For >750, Deduct	*-6.80*	
33 11 13 00-0075	LF	8" Polyvinyl Chloride (PVC) Well Casing	77.18	
		For >100 To 250, Deduct	*-2.23*	
		For >250 To 400, Deduct	*-4.16*	
		For >400 To 600, Deduct	*-6.24*	
		For >600 To 750, Deduct	*-8.32*	
		For >750, Deduct	*-10.79*	
33 11 13 00-0076	LF	10" Polyvinyl Chloride (PVC) Well Casing	116.66	
		For >100 To 250, Deduct	*-3.37*	
		For >250 To 400, Deduct	*-6.29*	
		For >400 To 600, Deduct	*-9.43*	
		For >600 To 750, Deduct	*-12.58*	
		For >750, Deduct	*-16.31*	
33 11 13 00-0077	LF	12" Polyvinyl Chloride (PVC) Well Casing	137.67	
		For >100 To 250, Deduct	*-3.99*	
		For >250 To 400, Deduct	*-7.43*	
		For >400 To 600, Deduct	*-11.15*	
		For >600 To 750, Deduct	*-14.87*	
		For >750, Deduct	*-19.30*	

33 11 13 00-0078 Furnish And Install Well Screen Assembly *(33 11 13 00-0001)*

33 11 13 00-0079 Stainless Steel Well Screen *(33 11 13 00-0078)*

33 11 13 00-0080	LF	2" Stainless Steel Well Screen	24.38	1.92
		For >100 To 250, Deduct	*-0.86*	
		For >250 To 400, Deduct	*-1.46*	
		For >400 To 600, Deduct	*-2.20*	
		For >600 To 750, Deduct	*-2.93*	
		For >750, Deduct	*-3.98*	
33 11 13 00-0081	LF	3" Stainless Steel Well Screen	37.69	1.92
		For >100 To 250, Deduct	*-1.21*	
		For >250 To 400, Deduct	*-2.15*	
		For >400 To 600, Deduct	*-3.22*	
		For >600 To 750, Deduct	*-4.30*	
		For >750, Deduct	*-5.72*	
33 11 13 00-0082	LF	4" Stainless Steel Well Screen	47.36	2.88
		For >100 To 250, Deduct	*-1.52*	
		For >250 To 400, Deduct	*-2.70*	
		For >400 To 600, Deduct	*-4.06*	
		For >600 To 750, Deduct	*-5.41*	
		For >750, Deduct	*-7.19*	
33 11 13 00-0083	LF	5" Stainless Steel Well Screen	59.69	2.88
		For >100 To 250, Deduct	*-1.89*	
		For >250 To 400, Deduct	*-3.38*	
		For >400 To 600, Deduct	*-5.08*	
		For >600 To 750, Deduct	*-6.77*	
		For >750, Deduct	*-8.98*	
33 11 13 00-0084	LF	6" Stainless Steel Well Screen	72.00	3.83
		For >100 To 250, Deduct	*-2.33*	
		For >250 To 400, Deduct	*-4.13*	
		For >400 To 600, Deduct	*-6.20*	
		For >600 To 750, Deduct	*-8.26*	
		For >750, Deduct	*-11.02*	
33 11 13 00-0085	LF	8" Stainless Steel Well Screen	93.87	4.80
		For >100 To 250, Deduct	*-3.03*	
		For >250 To 400, Deduct	*-5.37*	
		For >400 To 600, Deduct	*-8.06*	
		For >600 To 750, Deduct	*-10.75*	
		For >750, Deduct	*-14.32*	
33 11 13 00-0086	LF	10" Stainless Steel Well Screen	119.55	7.67
		For >100 To 250, Deduct	*-3.91*	
		For >250 To 400, Deduct	*-6.90*	
		For >400 To 600, Deduct	*-10.34*	
		For >600 To 750, Deduct	*-13.79*	
		For >750, Deduct	*-18.44*	
33 11 13 00-0087	LF	12" Stainless Steel Well Screen	140.23	9.58
		For >100 To 250, Deduct	*-4.58*	
		For >250 To 400, Deduct	*-8.09*	
		For >400 To 600, Deduct	*-12.13*	
		For >600 To 750, Deduct	*-16.17*	
		For >750, Deduct	*-21.61*	
33 11 13 00-0088	LF	14" Stainless Steel Well Screen	154.39	10.55
		For >100 To 250, Deduct	*-5.10*	
		For >250 To 400, Deduct	*-8.96*	
		For >400 To 600, Deduct	*-13.43*	
		For >600 To 750, Deduct	*-17.91*	
		For >750, Deduct	*-23.99*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0089	LF	16" Stainless Steel Well Screen	167.54	12.46
		For >100 To 250, Deduct	*-5.58*	
		For >250 To 400, Deduct	*-9.77*	
		For >400 To 600, Deduct	*-14.65*	
		For >600 To 750, Deduct	*-19.53*	
		For >750, Deduct	*-26.22*	
33 11 13 00-0090	LF	18" Stainless Steel Well Screen	201.44	14.38
		For >100 To 250, Deduct	*-6.75*	
		For >250 To 400, Deduct	*-11.78*	
		For >400 To 600, Deduct	*-17.68*	
		For >600 To 750, Deduct	*-23.57*	
		For >750, Deduct	*-31.68*	
33 11 13 00-0091	LF	20" Stainless Steel Well Screen	254.00	18.21
		For >100 To 250, Deduct	*-8.50*	
		For >250 To 400, Deduct	*-14.85*	
		For >400 To 600, Deduct	*-22.28*	
		For >600 To 750, Deduct	*-29.70*	
		For >750, Deduct	*-39.92*	
33 11 13 00-0092	LF	24" Stainless Steel Well Screen	329.73	23.96
		For >100 To 250, Deduct	*-11.06*	
		For >250 To 400, Deduct	*-19.31*	
		For >400 To 600, Deduct	*-28.96*	
		For >600 To 750, Deduct	*-38.61*	
		For >750, Deduct	*-51.93*	
33 11 13 00-0093	LF	26" Stainless Steel Well Screen	379.76	27.80
		For >100 To 250, Deduct	*-12.69*	
		For >250 To 400, Deduct	*-22.18*	
		For >400 To 600, Deduct	*-33.27*	
		For >600 To 750, Deduct	*-44.37*	
		For >750, Deduct	*-59.61*	

33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 *(33 11 13 00-0078)*

33 11 13 00-0095	LF	1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	15.70	
		For >100 To 250, Deduct	*-0.58*	
		For >250 To 400, Deduct	*-0.97*	
		For >400 To 600, Deduct	*-1.46*	
		For >600 To 750, Deduct	*-1.95*	
		For >750, Deduct	*-2.68*	
		For Schedule 80, Add	*3.26*	
33 11 13 00-0096	LF	1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	17.83	
		For >100 To 250, Deduct	*-0.65*	
		For >250 To 400, Deduct	*-1.09*	
		For >400 To 600, Deduct	*-1.64*	
		For >600 To 750, Deduct	*-2.19*	
		For >750, Deduct	*-2.99*	
		For Schedule 80, Add	*3.91*	
33 11 13 00-0097	LF	2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	25.81	
		For >100 To 250, Deduct	*-1.01*	
		For >250 To 400, Deduct	*-1.65*	
		For >400 To 600, Deduct	*-2.48*	
		For >600 To 750, Deduct	*-3.30*	
		For >750, Deduct	*-4.60*	
		For Schedule 80, Add	*4.56*	
33 11 13 00-0098	LF	3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	36.74	
		For >100 To 250, Deduct	*-1.31*	
		For >250 To 400, Deduct	*-2.23*	
		For >400 To 600, Deduct	*-3.34*	
		For >600 To 750, Deduct	*-4.45*	
		For >750, Deduct	*-6.07*	
		For Schedule 80, Add	*8.47*	
33 11 13 00-0099	LF	4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	46.24	
		For >100 To 250, Deduct	*-1.65*	
		For >250 To 400, Deduct	*-2.80*	
		For >400 To 600, Deduct	*-4.21*	
		For >600 To 750, Deduct	*-5.61*	
		For >750, Deduct	*-7.65*	
		For Schedule 80, Add	*10.62*	
33 11 13 00-0100	LF	5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	57.64	
		For >100 To 250, Deduct	*-2.03*	
		For >250 To 400, Deduct	*-3.47*	
		For >400 To 600, Deduct	*-5.20*	
		For >600 To 750, Deduct	*-6.94*	
		For >750, Deduct	*-9.43*	
		For Schedule 80, Add	*13.68*	
33 11 13 00-0101	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	64.64	
		For >100 To 250, Deduct	*-2.40*	
		For >250 To 400, Deduct	*-4.01*	
		For >400 To 600, Deduct	*-6.02*	
		For >600 To 750, Deduct	*-8.03*	
		For >750, Deduct	*-11.05*	
		For Schedule 80, Add	*13.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0102	LF	8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	92.09	
		For >100 To 250, Deduct	*-3.30*	
		For >250 To 400, Deduct	*-5.60*	
		For >400 To 600, Deduct	*-8.41*	
		For >600 To 750, Deduct	*-11.21*	
		For >750, Deduct	*-15.31*	
		For Schedule 80, Add	*20.85*	

33 11 13 00-0103 Furnish And Install Gravel Pack Material *(33 11 13 00-0001)*

Note: Quantity is based on 3" space between wall and the casing or well screen.

33 11 13 00-0104 Artificial Gravel Pack *(33 11 13 00-0103)*

Note: Excludes casing.

33 11 13 00-0105	LF	Artificial Gravel Pack, 6" Casing, 2" Screen	20.12	
		For >100 To 250, Deduct	*-0.78*	
		For >250 To 400, Deduct	*-1.28*	
		For >400 To 600, Deduct	*-1.92*	
		For >600 To 750, Deduct	*-2.56*	
		For >750, Deduct	*-3.56*	
33 11 13 00-0106	LF	Artificial Gravel Pack, 8" Casing, 2" Screen	29.70	
		For >100 To 250, Deduct	*-1.17*	
		For >250 To 400, Deduct	*-1.92*	
		For >400 To 600, Deduct	*-2.88*	
		For >600 To 750, Deduct	*-3.83*	
		For >750, Deduct	*-5.35*	
33 11 13 00-0107	LF	Artificial Gravel Pack, 10" Casing, 2" Screen	41.38	
		For >100 To 250, Deduct	*-1.68*	
		For >250 To 400, Deduct	*-2.71*	
		For >400 To 600, Deduct	*-4.07*	
		For >600 To 750, Deduct	*-5.43*	
		For >750, Deduct	*-7.62*	
33 11 13 00-0108	LF	Artificial Gravel Pack, 12" Casing, 2" Screen	53.04	
		For >100 To 250, Deduct	*-2.13*	
		For >250 To 400, Deduct	*-3.45*	
		For >400 To 600, Deduct	*-5.18*	
		For >600 To 750, Deduct	*-6.90*	
		For >750, Deduct	*-9.67*	
33 11 13 00-0109	LF	Artificial Gravel Pack, 14" Casing, 2" Screen	65.40	
		For >100 To 250, Deduct	*-2.59*	
		For >250 To 400, Deduct	*-4.23*	
		For >400 To 600, Deduct	*-6.34*	
		For >600 To 750, Deduct	*-8.45*	
		For >750, Deduct	*-11.80*	
33 11 13 00-0110	LF	Artificial Gravel Pack, 16" Casing, 2" Screen	84.65	
		For >100 To 250, Deduct	*-3.29*	
		For >250 To 400, Deduct	*-5.41*	
		For >400 To 600, Deduct	*-8.12*	
		For >600 To 750, Deduct	*-10.82*	
		For >750, Deduct	*-15.06*	
33 11 13 00-0111	LF	Artificial Gravel Pack, 18" Casing, 2" Screen	97.07	
		For >100 To 250, Deduct	*-3.76*	
		For >250 To 400, Deduct	*-6.19*	
		For >400 To 600, Deduct	*-9.28*	
		For >600 To 750, Deduct	*-12.37*	
		For >750, Deduct	*-17.20*	
33 11 13 00-0112	LF	Artificial Gravel Pack, 20" Casing, 2" Screen	115.31	
		For >100 To 250, Deduct	*-4.51*	
		For >250 To 400, Deduct	*-7.39*	
		For >400 To 600, Deduct	*-11.09*	
		For >600 To 750, Deduct	*-14.78*	
		For >750, Deduct	*-20.59*	
33 11 13 00-0113	LF	Artificial Gravel Pack, 24" Casing, 2" Screen	130.45	
		For >100 To 250, Deduct	*-5.13*	
		For >250 To 400, Deduct	*-8.39*	
		For >400 To 600, Deduct	*-12.58*	
		For >600 To 750, Deduct	*-16.78*	
		For >750, Deduct	*-23.40*	
33 11 13 00-0114	LF	Artificial Gravel Pack, 26" Casing, 2" Screen	140.54	
		For >100 To 250, Deduct	*-5.46*	
		For >250 To 400, Deduct	*-8.98*	
		For >400 To 600, Deduct	*-13.46*	
		For >600 To 750, Deduct	*-17.95*	
		For >750, Deduct	*-24.98*	
33 11 13 00-0115	LF	Artificial Gravel Pack, 30" Casing, 2" Screen	167.60	
		For >100 To 250, Deduct	*-6.59*	
		For >250 To 400, Deduct	*-10.78*	
		For >400 To 600, Deduct	*-16.17*	
		For >600 To 750, Deduct	*-21.56*	
		For >750, Deduct	*-30.06*	
33 11 13 00-0116	LF	Artificial Gravel Pack, 36" Casing, 2" Screen	193.94	
		For >100 To 250, Deduct	*-7.77*	
		For >250 To 400, Deduct	*-12.62*	
		For >400 To 600, Deduct	*-18.93*	
		For >600 To 750, Deduct	*-25.24*	
		For >750, Deduct	*-35.35*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0117		Develop Well *(33 11 13 00-0001)*		
		Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118	HR	Develop Well	480.20	
33 11 13 00-0119		Pump Test *(33 11 13 00-0001)*		
		Note: To determine water level and GPM flow rate.		
33 11 13 00-0120	HR	Pump Test Well	426.43	
33 11 13 00-0121		Test Well *(33 11 13 00-0001)*		
33 11 13 00-0122	VLF	2-1/2" Diameter Test Well	116.53	
33 11 13 00-0123		Surface Seal, Concrete Filled *(33 11 13)*		
33 11 13 00-0124	SF	Surface Seal Well, Concrete Filled	36.92	
33 11 13 00-0125		Other Water Well *(33 11 13)*		
33 11 13 00-0126	SF	Patch Hole In Well Casing	103.46	
33 11 13 00-0127	SF	1/2" Pressure Grout Well	2.56	
33 11 13 00-0128	SF	1" Pressure Grout Well	4.15	
33 11 13 00-0129	CF	Sediment Removal In Well Casing For Existing Well	5.99	
33 11 13 00-0130		Sterilization Of Well *(33 11 13)*		
33 11 13 00-0131	EA	Well Sterilization, Chlorine	1,720.59	
33 11 13 00-0132		Submersible Well Pumps *(33 11 13)*		
		Note: Includes pump end, motor and control box.		
33 11 13 00-0133		4" Submersible Well Pumps *(33 11 13 00-0132)*		
33 11 13 00-0134		Powder Coated Case And Cast Iron Ends *(33 11 13 00-0133)*		
33 11 13 00-0135	EA	1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,502.61	537.83
33 11 13 00-0136	EA	3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,710.84	596.12
33 11 13 00-0137	EA	1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,898.99	662.36
33 11 13 00-0138		Stainless Steel Case And Ends *(33 11 13 00-0133)*		
33 11 13 00-0139	EA	1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,675.49	529.89
33 11 13 00-0140	EA	3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,908.61	596.12
33 11 13 00-0141	EA	1 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,138.18	662.36
33 11 13 00-0142	EA	1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,441.16	728.59
33 11 13 00-0143	EA	2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,754.79	794.83
33 11 13 00-0144	EA	3 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,374.97	927.29
33 11 13 00-0145	EA	5 HP Submersible Well Pump, 4" Diameter Stainless Steel	4,216.57	1,059.76
33 11 13 00-0146		6" Submersible Well Pumps *(33 11 13 00-0132)*		
33 11 13 00-0147	EA	5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,179.28	1,324.70
33 11 13 00-0148	EA	7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,800.62	1,457.18
33 11 13 00-0149	EA	10 HP Submersible Well Pump, 6" Diameter Stainless Steel	5,444.48	1,589.65
33 11 13 00-0150	EA	15 HP Submersible Well Pump, 6" Diameter Stainless Steel	6,558.42	1,854.59
33 11 36		**Submersible Centrifugal Well Pumps** *(33 11)*		
33 11 36 00-0001		Submersible Well Pump *(33 11 36)*		
33 11 36 00-0002	EA	25 HP, 650 GPM, 2 Stage, Submersible Well Pump	5,855.18	575.84
33 11 36 00-0003	EA	30 HP, 750 GPM, 2 Stage, Submersible Well Pump	6,143.11	672.58
33 11 36 00-0004	EA	40 HP, 750 GPM, 2 Stage, Submersible Well Pump	6,431.03	768.17
33 11 36 00-0005	EA	50 HP, 750 GPM, 2 Stage, Submersible Well Pump	9,170.52	1,010.87
33 11 36 00-0006	EA	60 HP, 750 GPM, 2 Stage, Submersible Well Pump	10,040.61	1,137.23
33 11 36 00-0007	EA	75 HP, 750 GPM, 2 Stage, Submersible Well Pump	11,248.32	1,263.59
33 11 36 00-0008	EA	100 HP, 750 GPM, 2 Stage, Submersible Well Pump	13,497.97	1,516.30
33 11 36 00-0009	EA	125 HP, 750 GPM, 2 Stage, Submersible Well Pump	15,122.03	1,685.62
33 11 36 00-0010	EA	150 HP, 750 GPM, 2 Stage, Submersible Well Pump	16,559.24	1,895.37
33 11 36 00-0011	EA	175 HP, 750 GPM, 2 Stage, Submersible Well Pump	17,734.72	2,106.40
33 11 36 00-0012	EA	200 HP, 750 GPM, 2 Stage, Submersible Well Pump	18,692.69	2,316.15

33 14 Water Utility Transmission and Distribution *(33 10)*

33 14 11 Water Utility Transmission Piping *(33 14)*

See CSI section 33 14 13 00-0000 for water utility transmission piping.

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 14 13 Public Water Utility Distribution Piping *(33 14)*

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 14 13 13 Ductile Iron Public Water Utility Distribution Piping *(33 14 13)*

33 14 13 13-0001 Ductile Iron Piping *(33 14 13 13)*

33 14 13 13-0002 Mechanical Joint Ductile Iron Piping *(33 14 13 13-0001)*

Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0521 for bolts and gaskets.

33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe *(33 14 13 13-0002)*

Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.

33 14 13 13-0004	LF	3", Class 51, Mechanical Joint Ductile Iron Pipe	99.53	14.40
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*54.43*	
		For Cement Mortar Lining (CML), Add	*7.78*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*41.99*	
		For Fusion Bonded Epoxy Lining (206N), Add	*14.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.83*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-4.98*	
		For Class 52, Add	*23.49*	
		For Class 53, Add	*42.48*	
		For Class 54, Add	*60.68*	
		For Class 55, Add	*69.66*	
		For Class 56, Add	*78.49*	
33 14 13 13-0005	LF	4", Class 50, Mechanical Joint Ductile Iron Pipe	108.63	15.32
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*59.79*	
		For Cement Mortar Lining (CML), Add	*8.54*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*46.13*	
		For Fusion Bonded Epoxy Lining (206N), Add	*15.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.41*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-5.43*	
		For Class 51, Add	*11.93*	
		For Class 52, Add	*25.79*	
		For Class 53, Add	*46.65*	
		For Class 54, Add	*66.63*	
		For Class 55, Add	*76.49*	
		For Class 56, Add	*86.18*	
33 14 13 13-0006	LF	6", Class 50, Mechanical Joint Ductile Iron Pipe	117.04	16.08
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*64.91*	
		For Cement Mortar Lining (CML), Add	*9.27*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*50.07*	
		For Fusion Bonded Epoxy Lining (206N), Add	*16.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.95*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-5.85*	
		For Class 51, Add	*12.94*	
		For Class 52, Add	*27.97*	
		For Class 53, Add	*50.61*	
		For Class 54, Add	*72.28*	
		For Class 55, Add	*82.98*	
		For Class 56, Add	*93.49*	
33 14 13 13-0007	LF	8", Class 50, Mechanical Joint Ductile Iron Pipe	143.93	16.71
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*83.03*	
		For Cement Mortar Lining (CML), Add	*11.86*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*64.05*	
		For Fusion Bonded Epoxy Lining (206N), Add	*21.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.90*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-7.20*	
		For Class 51, Add	*16.48*	
		For Class 52, Add	*35.63*	
		For Class 53, Add	*64.51*	
		For Class 54, Add	*92.17*	
		For Class 55, Add	*105.78*	
		For Class 56, Add	*119.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0008	LF	10", Class 50, Mechanical Joint Ductile Iron Pipe	190.21	23.69
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*92.59*	
		For Cement Mortar Lining (CML), Add	*15.43*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*77.16*	
		For Fusion Bonded Epoxy Lining (206N), Add	*27.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.57*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-9.51*	
		For Class 51, Add	*21.48*	
		For Class 52, Add	*46.43*	
		For Class 53, Add	*84.04*	
		For Class 54, Add	*120.06*	
		For Class 55, Add	*137.81*	
		For Class 56, Add	*155.23*	
33 14 13 13-0009	LF	12", Class 50, Mechanical Joint Ductile Iron Pipe	236.97	26.32
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*98.54*	
		For Cement Mortar Lining (CML), Add	*19.71*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*78.83*	
		For Fusion Bonded Epoxy Lining (206N), Add	*35.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.78*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-11.85*	
		For Class 51, Add	*27.36*	
		For Class 52, Add	*59.16*	
		For Class 53, Add	*107.11*	
		For Class 54, Add	*153.04*	
		For Class 55, Add	*175.63*	
		For Class 56, Add	*197.81*	
33 14 13 13-0010	LF	14", Class 50, Mechanical Joint Ductile Iron Pipe	289.27	29.56
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*107.54*	
		For Cement Mortar Lining (CML), Add	*24.44*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*83.10*	
		For Fusion Bonded Epoxy Lining (206N), Add	*43.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.33*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-14.46*	
		For Class 51, Add	*33.87*	
		For Class 52, Add	*73.24*	
		For Class 53, Add	*132.66*	
		For Class 54, Add	*189.55*	
		For Class 55, Add	*217.51*	
		For Class 56, Add	*244.95*	
33 14 13 13-0011	LF	16", Class 50, Mechanical Joint Ductile Iron Pipe	325.28	33.86
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*112.34*	
		For Cement Mortar Lining (CML), Add	*27.40*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*84.94*	
		For Fusion Bonded Epoxy Lining (206N), Add	*49.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*20.55*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-16.26*	
		For Class 51, Add	*37.99*	
		For Class 52, Add	*82.14*	
		For Class 53, Add	*148.76*	
		For Class 54, Add	*212.56*	
		For Class 55, Add	*243.91*	
		For Class 56, Add	*274.70*	
33 14 13 13-0012	LF	18", Class 50, Mechanical Joint Ductile Iron Pipe	411.21	39.49
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*144.07*	
		For Cement Mortar Lining (CML), Add	*35.14*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*108.93*	
		For Fusion Bonded Epoxy Lining (206N), Add	*63.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*26.35*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-20.56*	
		For Class 51, Add	*48.64*	
		For Class 52, Add	*105.19*	
		For Class 53, Add	*190.55*	
		For Class 54, Add	*272.30*	
		For Class 55, Add	*312.43*	
		For Class 56, Add	*351.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0013	LF	20", Class 50, Mechanical Joint Ductile Iron Pipe	458.77	47.38
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*147.05*	
		For Cement Mortar Lining (CML), Add	*38.70*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*108.35*	
		For Fusion Bonded Epoxy Lining (206N), Add	*69.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*29.02*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-22.94*	
		For Class 51, Add	*53.64*	
		For Class 52, Add	*115.99*	
		For Class 53, Add	*210.07*	
		For Class 54, Add	*300.16*	
		For Class 55, Add	*344.44*	
		For Class 56, Add	*387.90*	
33 14 13 13-0014	LF	24", Class 50, Mechanical Joint Ductile Iron Pipe	609.10	59.23
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*161.00*	
		For Cement Mortar Lining (CML), Add	*51.94*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*109.07*	
		For Fusion Bonded Epoxy Lining (206N), Add	*93.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*38.95*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-30.46*	
		For Class 51, Add	*71.91*	
		For Class 52, Add	*155.51*	
		For Class 53, Add	*281.69*	
		For Class 54, Add	*402.52*	
		For Class 55, Add	*461.87*	
		For Class 56, Add	*520.12*	
33 14 13 13-0015	LF	30", Class 50, Mechanical Joint Ductile Iron Pipe	828.09	63.77
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*227.03*	
		For Cement Mortar Lining (CML), Add	*73.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*131.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*54.93*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-41.40*	
		For Class 51, Add	*101.02*	
		For Class 52, Add	*218.52*	
		For Class 53, Add	*396.07*	
		For Class 54, Add	*566.07*	
		For Class 55, Add	*649.37*	
		For Class 56, Add	*731.13*	
33 14 13 13-0016	LF	36", Class 50, Mechanical Joint Ductile Iron Pipe	1,017.51	67.73
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*283.90*	
		For Cement Mortar Lining (CML), Add	*91.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*164.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*68.69*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-50.88*	
		For Class 51, Add	*126.09*	
		For Class 52, Add	*272.80*	
		For Class 53, Add	*494.59*	
		For Class 54, Add	*706.95*	
		For Class 55, Add	*810.89*	
		For Class 56, Add	*912.90*	
33 14 13 13-0017	LF	42", Class 50, Mechanical Joint Ductile Iron Pipe	1,287.41	71.67
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*365.72*	
		For Cement Mortar Lining (CML), Add	*117.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*212.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*88.48*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-64.37*	
		For Class 51, Add	*162.14*	
		For Class 52, Add	*350.83*	
		For Class 53, Add	*636.26*	
		For Class 54, Add	*909.53*	
		For Class 55, Add	*1,043.12*	
		For Class 56, Add	*1,174.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0018	LF	48", Class 50, Mechanical Joint Ductile Iron Pipe	1,617.36	75.74
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*466.14*	
		For Cement Mortar Lining (CML), Add	*150.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*270.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*112.78*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-80.87*	
		For Class 51, Add	*206.37*	
		For Class 52, Add	*446.58*	
		For Class 53, Add	*810.09*	
		For Class 54, Add	*1,158.11*	
		For Class 55, Add	*1,328.10*	
		For Class 56, Add	*1,494.92*	
33 14 13 13-0019		Mechanical Joint Ductile Iron 90 Degree Elbow *(33 14 13 13-0002)*		
33 14 13 13-0020	EA	3" Mechanical Joint Ductile Iron 90 Degree Elbow	202.39	45.45
		For Cement Mortar Lining (CML), Add	*13.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*24.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.01*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021	EA	4" Mechanical Joint Ductile Iron 90 Degree Elbow	227.60	54.31
		For Cement Mortar Lining (CML), Add	*14.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*26.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.90*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022	EA	6" Mechanical Joint Ductile Iron 90 Degree Elbow	359.15	80.27
		For Cement Mortar Lining (CML), Add	*23.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*42.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*17.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0023	EA	8" Mechanical Joint Ductile Iron 90 Degree Elbow	489.92	95.21
		For Cement Mortar Lining (CML), Add	*34.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*62.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*25.92*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024	EA	10" Mechanical Joint Ductile Iron 90 Degree Elbow	708.95	105.06
		For Cement Mortar Lining (CML), Add	*54.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*98.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*41.24*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025	EA	12" Mechanical Joint Ductile Iron 90 Degree Elbow	926.92	123.24
		For Cement Mortar Lining (CML), Add	*74.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*133.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*55.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026	EA	14" Mechanical Joint Ductile Iron 90 Degree Elbow	1,448.41	138.21
		For Cement Mortar Lining (CML), Add	*123.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*223.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*92.93*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0027	EA	16" Mechanical Joint Ductile Iron 90 Degree Elbow	1,922.12	157.94
		For Cement Mortar Lining (CML), Add	*168.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*302.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*126.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028	EA	18" Mechanical Joint Ductile Iron 90 Degree Elbow	2,361.42	221.12
		For Cement Mortar Lining (CML), Add	*202.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*364.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*151.98*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0029	EA	20" Mechanical Joint Ductile Iron 90 Degree Elbow	3,244.38	276.40
		For Cement Mortar Lining (CML), Add	*282.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*508.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*211.92*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0030	EA	24" Mechanical Joint Ductile Iron 90 Degree Elbow	4,775.56	368.05
		For Cement Mortar Lining (CML), Add	*421.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*759.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*316.34*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0031	EA	30" Mechanical Joint Ductile Iron 90 Degree Elbow	7,366.80	394.86
		For Cement Mortar Lining (CML), Add	*676.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,218.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*507.64*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0032	EA	36" Mechanical Joint Ductile Iron 90 Degree Elbow	11,202.88	409.94
		For Cement Mortar Lining (CML), Add	*1,058.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,904.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*793.64*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0033	EA	42" Mechanical Joint Ductile Iron 90 Degree Elbow	18,863.56	473.83
		For Cement Mortar Lining (CML), Add	*1,814.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,266.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,360.92*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0034	EA	48" Mechanical Joint Ductile Iron 90 Degree Elbow	24,959.23	504.10
		For Cement Mortar Lining (CML), Add	*2,419.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,355.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,814.66*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow *(33 14 13 13-0002)*

33 14 13 13-0036	EA	3" Mechanical Joint Ductile Iron 45 Degree Elbow	188.65	45.45
		For Cement Mortar Lining (CML), Add	*11.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*21.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.98*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0037	EA	4" Mechanical Joint Ductile Iron 45 Degree Elbow	202.07	54.31
		For Cement Mortar Lining (CML), Add	*11.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*21.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.98*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0038	EA	6" Mechanical Joint Ductile Iron 45 Degree Elbow	313.98	80.27
		For Cement Mortar Lining (CML), Add	*19.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*34.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0039	EA	8" Mechanical Joint Ductile Iron 45 Degree Elbow	425.12	95.21
		For Cement Mortar Lining (CML), Add	*28.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*50.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*21.06*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0040	EA	10" Mechanical Joint Ductile Iron 45 Degree Elbow	569.53	105.06
		For Cement Mortar Lining (CML), Add	*41.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*73.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.78*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0041	EA	12" Mechanical Joint Ductile Iron 45 Degree Elbow	799.28	123.24
		For Cement Mortar Lining (CML), Add	*61.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*110.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*45.95*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0042	EA	14" Mechanical Joint Ductile Iron 45 Degree Elbow	1,173.51	138.21
		For Cement Mortar Lining (CML), Add	*96.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*173.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*72.31*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043	EA	16" Mechanical Joint Ductile Iron 45 Degree Elbow	1,441.03	157.94
		For Cement Mortar Lining (CML), Add	*120.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*216.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*90.13*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044	EA	18" Mechanical Joint Ductile Iron 45 Degree Elbow	2,059.02	221.12
		For Cement Mortar Lining (CML), Add	*172.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*310.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*129.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045	EA	20" Mechanical Joint Ductile Iron 45 Degree Elbow	2,260.62	276.40
		For Cement Mortar Lining (CML), Add	*184.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*331.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*138.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046	EA	24" Mechanical Joint Ductile Iron 45 Degree Elbow	3,355.88	368.05
		For Cement Mortar Lining (CML), Add	*279.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*503.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*209.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047	EA	30" Mechanical Joint Ductile Iron 45 Degree Elbow	6,282.89	394.86
		For Cement Mortar Lining (CML), Add	*568.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,023.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*426.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0048	EA	36" Mechanical Joint Ductile Iron 45 Degree Elbow	8,932.96	409.94
		For Cement Mortar Lining (CML), Add	*831.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,496.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*623.39*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049	EA	42" Mechanical Joint Ductile Iron 45 Degree Elbow	13,489.18	473.83
		For Cement Mortar Lining (CML), Add	*1,277.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,298.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*957.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0050	EA	48" Mechanical Joint Ductile Iron 45 Degree Elbow	17,499.51	504.10
		For Cement Mortar Lining (CML), Add	*1,673.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,012.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,255.18*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow *(33 14 13 13-0002)*

33 14 13 13-0052	EA	3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	163.12	45.45
		For Cement Mortar Lining (CML), Add	*9.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*16.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*7.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0053	EA	4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	196.18	54.31
		For Cement Mortar Lining (CML), Add	*11.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*20.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.54*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0054	EA	6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	298.27	80.27
		For Cement Mortar Lining (CML), Add	*17.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*31.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*13.25*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0055	EA	8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	419.23	95.21
		For Cement Mortar Lining (CML), Add	*27.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*49.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*20.62*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0056	EA	10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	567.57	105.06
		For Cement Mortar Lining (CML), Add	*40.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*73.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0057	EA	12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	722.70	123.24
		For Cement Mortar Lining (CML), Add	*53.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*96.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*40.20*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0058	EA	14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,185.29	138.21
		For Cement Mortar Lining (CML), Add	*97.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*175.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*73.19*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0059	EA	16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,391.94	157.94
		For Cement Mortar Lining (CML), Add	*115.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*207.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*86.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0060	EA	18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,750.74	221.12
		For Cement Mortar Lining (CML), Add	*141.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*254.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*106.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0061	EA	20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,343.09	276.40
		For Cement Mortar Lining (CML), Add	*192.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*346.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*144.32*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0062	EA	24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,139.88	368.05
		For Cement Mortar Lining (CML), Add	*258.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*464.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*193.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0063	EA	30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	5,361.96	394.86
		For Cement Mortar Lining (CML), Add	*476.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*857.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*357.28*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0064	EA	36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	7,603.60	409.94
		For Cement Mortar Lining (CML), Add	*698.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,256.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*523.69*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0065	EA	42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	11,260.50	473.83
		For Cement Mortar Lining (CML), Add	*1,054.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,897.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*790.69*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0066	EA	48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	14,491.28	504.10
		For Cement Mortar Lining (CML), Add	*1,372.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,470.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,029.56*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow *(33 14 13 13-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0068	EA	3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	163.12	45.45
		For Cement Mortar Lining (CML), Add	*9.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*16.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*7.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0069	EA	4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	190.29	54.31
		For Cement Mortar Lining (CML), Add	*10.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*19.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0070	EA	6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	304.16	80.27
		For Cement Mortar Lining (CML), Add	*18.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*32.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*13.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0071	EA	8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	393.71	95.21
		For Cement Mortar Lining (CML), Add	*24.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*44.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0072	EA	10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	563.64	105.06
		For Cement Mortar Lining (CML), Add	*40.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*72.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.34*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0073	EA	12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	689.32	123.24
		For Cement Mortar Lining (CML), Add	*50.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*90.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*37.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0074	EA	14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,322.74	138.21
		For Cement Mortar Lining (CML), Add	*111.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*200.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*83.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0075	EA	16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,458.71	157.94
		For Cement Mortar Lining (CML), Add	*121.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*219.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*91.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0076	EA	18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,123.82	221.12
		For Cement Mortar Lining (CML), Add	*178.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*321.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*134.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0077	EA	20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,231.16	276.40
		For Cement Mortar Lining (CML), Add	*181.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*326.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*135.93*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0078	EA	24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,974.94	368.05
		For Cement Mortar Lining (CML), Add	*241.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*435.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*181.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0079	EA	30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	5,448.36	394.86
		For Cement Mortar Lining (CML), Add	*485.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*873.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*363.76*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0080	EA	36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	7,250.15	409.94
		For Cement Mortar Lining (CML), Add	*662.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,193.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*497.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0081	EA	42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	10,779.42	473.83
		For Cement Mortar Lining (CML), Add	*1,006.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,811.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*754.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0082	EA	48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	14,397.02	504.10
		For Cement Mortar Lining (CML), Add	*1,363.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,453.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,022.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0083		Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow *(33 14 13 13-0002)*		
33 14 13 13-0084	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	208.29	45.45
		For Cement Mortar Lining (CML), Add	*13.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*25.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0085	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	255.09	54.31
		For Cement Mortar Lining (CML), Add	*17.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*31.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*12.96*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	408.24	80.27
		For Cement Mortar Lining (CML), Add	*28.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*51.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*21.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	554.72	95.21
		For Cement Mortar Lining (CML), Add	*41.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*73.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.78*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	803.20	105.06
		For Cement Mortar Lining (CML), Add	*64.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*115.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,029.02	123.24
		For Cement Mortar Lining (CML), Add	*84.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*151.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*63.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,776.33	138.21
		For Cement Mortar Lining (CML), Add	*156.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*282.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*117.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,721.30	157.94
		For Cement Mortar Lining (CML), Add	*248.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*446.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*186.15*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0092	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,154.71	221.12
		For Cement Mortar Lining (CML), Add	*281.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*507.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*211.48*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0093	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,289.02	276.40
		For Cement Mortar Lining (CML), Add	*387.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*696.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*290.27*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0094	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,207.55	368.05
		For Cement Mortar Lining (CML), Add	*464.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*836.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*348.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0095	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	9,754.54	394.86
		For Cement Mortar Lining (CML), Add	*915.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,648.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*686.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0096	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	17,494.25	409.94
		For Cement Mortar Lining (CML), Add	*1,687.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,037.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,265.49*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow *(33 14 13 13-0002)*

33 14 13 13-0098	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	190.61	45.45
		For Cement Mortar Lining (CML), Add	*12.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*21.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*9.13*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0099	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	207.96	54.31
		For Cement Mortar Lining (CML), Add	*12.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*22.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*9.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0100	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	335.58	80.27
		For Cement Mortar Lining (CML), Add	*21.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*38.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*16.05*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0101	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	487.96	95.21
		For Cement Mortar Lining (CML), Add	*34.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*61.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*25.77*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0102	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	669.68	105.06
		For Cement Mortar Lining (CML), Add	*51.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*91.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*38.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0103	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	913.17	123.24
		For Cement Mortar Lining (CML), Add	*72.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*130.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*54.49*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0104	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,570.15	138.21
		For Cement Mortar Lining (CML), Add	*136.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*244.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*102.06*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0105	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,397.31	157.94
		For Cement Mortar Lining (CML), Add	*215.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*388.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*161.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0106	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,826.79	221.12
		For Cement Mortar Lining (CML), Add	*249.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*448.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*186.89*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0107	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	3,672.45	276.40
		For Cement Mortar Lining (CML), Add	*325.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*585.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*244.03*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0108	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,612.58	368.05
		For Cement Mortar Lining (CML), Add	*405.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*729.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*304.11*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0109	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	8,562.63	394.86
		For Cement Mortar Lining (CML), Add	*796.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,433.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*597.33*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0110	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	15,300.91	409.94
		For Cement Mortar Lining (CML), Add	*1,467.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,642.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,100.99*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0111 Mechanical Joint Ductile Iron Tee *(33 14 13 13-0002)*

33 14 13 13-0112	EA	3" x 3" Mechanical Joint Ductile Iron Tee	331.10	68.19
		For Cement Mortar Lining (CML), Add	*22.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*41.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*17.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0113	EA	4" x 3" Mechanical Joint Ductile Iron Tee	343.25	76.21
		For Cement Mortar Lining (CML), Add	*22.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*41.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*17.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0114	EA	4" x 4" Mechanical Joint Ductile Iron Tee	312.02	80.27
		For Cement Mortar Lining (CML), Add	*19.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*34.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0115	EA	6" x 3" Mechanical Joint Ductile Iron Tee	416.32	101.11
		For Cement Mortar Lining (CML), Add	*26.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*47.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*19.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0116	EA	6" x 4" Mechanical Joint Ductile Iron Tee	479.59	105.29
		For Cement Mortar Lining (CML), Add	*32.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*57.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.01*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0117	EA	6" x 6" Mechanical Joint Ductile Iron Tee	522.14	117.88
		For Cement Mortar Lining (CML), Add	*34.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*61.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*25.77*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0118	EA	8" x 4" Mechanical Joint Ductile Iron Tee	555.99	122.01
		For Cement Mortar Lining (CML), Add	*37.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*66.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*27.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0119	EA	8" x 6" Mechanical Joint Ductile Iron Tee	631.92	134.55
		For Cement Mortar Lining (CML), Add	*42.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*77.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*32.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0120	EA	8" x 8" Mechanical Joint Ductile Iron Tee	732.96	142.95
		For Cement Mortar Lining (CML), Add	*51.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*92.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*38.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0121	EA	10" x 4" Mechanical Joint Ductile Iron Tee	767.27	130.57
		For Cement Mortar Lining (CML), Add	*56.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*102.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*42.71*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0122	EA	10" x 6" Mechanical Joint Ductile Iron Tee	767.54	142.41
		For Cement Mortar Lining (CML), Add	*55.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*99.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*41.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0123	EA	10" x 8" Mechanical Joint Ductile Iron Tee	873.77	150.31
		For Cement Mortar Lining (CML), Add	*64.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*116.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124	EA	10" x 10" Mechanical Joint Ductile Iron Tee	977.62	157.94
		For Cement Mortar Lining (CML), Add	*73.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*132.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*55.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125	EA	12" x 4" Mechanical Joint Ductile Iron Tee	918.83	146.37
		For Cement Mortar Lining (CML), Add	*69.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*125.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*52.28*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126	EA	12" x 6" Mechanical Joint Ductile Iron Tee	1,044.77	158.20
		For Cement Mortar Lining (CML), Add	*80.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*144.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*60.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0127	EA	12" x 8" Mechanical Joint Ductile Iron Tee	1,286.49	166.10
		For Cement Mortar Lining (CML), Add	*103.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*186.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*77.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0128	EA	12" x 10" Mechanical Joint Ductile Iron Tee	1,378.55	173.74
		For Cement Mortar Lining (CML), Add	*111.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*200.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*83.65*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0129	EA	12" x 12" Mechanical Joint Ductile Iron Tee	1,306.08	181.63
		For Cement Mortar Lining (CML), Add	*103.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*185.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*77.32*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0130	EA	14" x 6" Mechanical Joint Ductile Iron Tee	1,394.61	184.34
		For Cement Mortar Lining (CML), Add	*111.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*200.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*83.65*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0131	EA	14" x 8" Mechanical Joint Ductile Iron Tee	1,553.87	192.25
		For Cement Mortar Lining (CML), Add	*126.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*227.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*94.69*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0132	EA	14" x 10" Mechanical Joint Ductile Iron Tee	1,989.56	199.87
		For Cement Mortar Lining (CML), Add	*168.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*303.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*126.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0133	EA	14" x 12" Mechanical Joint Ductile Iron Tee	2,127.19	207.76
		For Cement Mortar Lining (CML), Add	*181.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*326.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*135.93*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0134	EA	14" x 14" Mechanical Joint Ductile Iron Tee	2,050.80	220.88
		For Cement Mortar Lining (CML), Add	*171.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*308.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*128.71*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0135	EA	16" x 6" Mechanical Joint Ductile Iron Tee	1,774.24	221.11
		For Cement Mortar Lining (CML), Add	*143.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*259.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*107.95*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0136	EA	16" x 8" Mechanical Joint Ductile Iron Tee	1,910.03	229.02
		For Cement Mortar Lining (CML), Add	*156.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*281.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*117.23*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0137	EA	16" x 10" Mechanical Joint Ductile Iron Tee	2,227.90	236.64
		For Cement Mortar Lining (CML), Add	*186.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*336.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*140.20*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0138	EA	16" x 12" Mechanical Joint Ductile Iron Tee	2,440.16	244.54
		For Cement Mortar Lining (CML), Add	*206.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*372.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*155.22*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0139	EA	16" x 14" Mechanical Joint Ductile Iron Tee	2,941.05	257.62
		For Cement Mortar Lining (CML), Add	*255.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*459.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*191.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0140	EA	16" x 16" Mechanical Joint Ductile Iron Tee	2,776.46	276.05
		For Cement Mortar Lining (CML), Add	*235.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*424.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*176.87*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0141	EA	18" x 6" Mechanical Joint Ductile Iron Tee	2,466.97	282.99
		For Cement Mortar Lining (CML), Add	*203.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*366.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*152.87*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0142	EA	18" x 8" Mechanical Joint Ductile Iron Tee	2,647.83	290.88
		For Cement Mortar Lining (CML), Add	*220.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*397.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*165.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0143	EA	18" x 10" Mechanical Joint Ductile Iron Tee	2,867.52	298.52
		For Cement Mortar Lining (CML), Add	*241.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*434.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*181.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0144	EA	18" x 12" Mechanical Joint Ductile Iron Tee	3,085.67	306.41
		For Cement Mortar Lining (CML), Add	*262.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*471.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*196.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0145	EA	18" x 14" Mechanical Joint Ductile Iron Tee	3,174.19	319.47
		For Cement Mortar Lining (CML), Add	*269.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*484.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*201.76*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0146	EA	18" x 16" Mechanical Joint Ductile Iron Tee	3,388.58	337.87
		For Cement Mortar Lining (CML), Add	*287.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*517.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*215.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0147	EA	18" x 18" Mechanical Joint Ductile Iron Tee	3,971.53	368.77
		For Cement Mortar Lining (CML), Add	*341.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*614.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*255.96*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0148	EA	20" x 6" Mechanical Joint Ductile Iron Tee	2,908.32	405.79
		For Cement Mortar Lining (CML), Add	*229.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*412.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*172.01*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0149	EA	20" x 8" Mechanical Joint Ductile Iron Tee	2,971.36	413.71
		For Cement Mortar Lining (CML), Add	*234.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*422.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*175.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0150	EA	20" x 10" Mechanical Joint Ductile Iron Tee	3,240.15	421.33
		For Cement Mortar Lining (CML), Add	*260.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*468.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*195.13*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0151	EA	20" x 12" Mechanical Joint Ductile Iron Tee	3,507.38	429.22
		For Cement Mortar Lining (CML), Add	*285.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*514.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*214.28*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0152	EA	20" x 14" Mechanical Joint Ductile Iron Tee	3,548.78	442.29
		For Cement Mortar Lining (CML), Add	*287.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*518.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*215.90*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0153	EA	20" x 16" Mechanical Joint Ductile Iron Tee	3,600.20	460.68
		For Cement Mortar Lining (CML), Add	*290.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*522.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*217.67*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0154	EA	20" x 18" Mechanical Joint Ductile Iron Tee	4,534.62	491.61
		For Cement Mortar Lining (CML), Add	*378.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*682.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*284.23*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0155	EA	20" x 20" Mechanical Joint Ductile Iron Tee	3,983.61	553.05
		For Cement Mortar Lining (CML), Add	*314.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*566.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*235.93*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0156	EA	24" x 6" Mechanical Joint Ductile Iron Tee	3,559.22	528.23
		For Cement Mortar Lining (CML), Add	*275.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*496.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*206.91*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0157	EA	24" x 8" Mechanical Joint Ductile Iron Tee	3,606.53	536.89
		For Cement Mortar Lining (CML), Add	*279.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*502.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*209.57*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0158	EA	24" x 10" Mechanical Joint Ductile Iron Tee	3,979.40	543.77
		For Cement Mortar Lining (CML), Add	*315.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*567.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*236.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0159	EA	24" x 12" Mechanical Joint Ductile Iron Tee	4,079.71	551.67
		For Cement Mortar Lining (CML), Add	*324.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*583.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*243.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0160	EA	24" x 14" Mechanical Joint Ductile Iron Tee	4,598.26	564.73
		For Cement Mortar Lining (CML), Add	*374.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*673.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*280.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0161	EA	24" x 16" Mechanical Joint Ductile Iron Tee	4,969.77	583.11
		For Cement Mortar Lining (CML), Add	*408.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*735.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*306.47*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0162	EA	24" x 18" Mechanical Joint Ductile Iron Tee	5,652.84	614.06
		For Cement Mortar Lining (CML), Add	*472.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*850.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*354.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0163	EA	24" x 20" Mechanical Joint Ductile Iron Tee	6,266.24	675.46
		For Cement Mortar Lining (CML), Add	*524.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*943.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*393.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0164	EA	24" x 24" Mechanical Joint Ductile Iron Tee	5,785.62	736.71
		For Cement Mortar Lining (CML), Add	*466.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*840.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*350.21*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0165	EA	30" x 8" Mechanical Joint Ductile Iron Tee	6,212.50	623.15
		For Cement Mortar Lining (CML), Add	*526.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*948.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*395.13*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0166	EA	30" x 10" Mechanical Joint Ductile Iron Tee	6,548.04	630.77
		For Cement Mortar Lining (CML), Add	*559.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,006.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*419.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0167	EA	30" x 12" Mechanical Joint Ductile Iron Tee	6,884.01	638.67
		For Cement Mortar Lining (CML), Add	*591.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,064.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*443.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0168	EA	30" x 14" Mechanical Joint Ductile Iron Tee	7,363.30	651.75
		For Cement Mortar Lining (CML), Add	*637.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,147.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*478.19*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0169	EA	30" x 16" Mechanical Joint Ductile Iron Tee	7,882.05	867.13
		For Cement Mortar Lining (CML), Add	*686.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,236.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*515.00*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0170	EA	30" x 18" Mechanical Joint Ductile Iron Tee	8,093.86	701.05
		For Cement Mortar Lining (CML), Add	*703.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,265.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*527.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0171	EA	30" x 20" Mechanical Joint Ductile Iron Tee	8,416.64	762.47
		For Cement Mortar Lining (CML), Add	*726.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,307.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*544.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0172	EA	30" x 24" Mechanical Joint Ductile Iron Tee	8,841.24	823.69
		For Cement Mortar Lining (CML), Add	*759.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,366.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*569.49*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0173	EA	30" x 30" Mechanical Joint Ductile Iron Tee	11,102.47	867.13
		For Cement Mortar Lining (CML), Add	*978.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,761.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*734.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0174	EA	30" x 6" Mechanical Joint Ductile Iron Tee	6,498.99	615.24
		For Cement Mortar Lining (CML), Add	*556.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,002.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*417.51*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0175	EA	36" x 8" Mechanical Joint Ductile Iron Tee	7,601.88	691.26
		For Cement Mortar Lining (CML), Add	*655.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,179.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*491.59*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0176	EA	36" x 10" Mechanical Joint Ductile Iron Tee	8,465.64	698.90
		For Cement Mortar Lining (CML), Add	*740.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,333.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*555.50*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0177	EA	36" x 12" Mechanical Joint Ductile Iron Tee	8,933.15	706.80
		For Cement Mortar Lining (CML), Add	*786.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,415.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*589.67*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0178	EA	36" x 14" Mechanical Joint Ductile Iron Tee	9,269.09	719.87
		For Cement Mortar Lining (CML), Add	*817.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,472.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*613.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0179	EA	36" x 16" Mechanical Joint Ductile Iron Tee	9,609.17	738.26
		For Cement Mortar Lining (CML), Add	*849.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,528.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*636.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0180	EA	36" x 18" Mechanical Joint Ductile Iron Tee	10,260.83	769.19
		For Cement Mortar Lining (CML), Add	*909.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,637.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*682.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0181	EA	36" x 20" Mechanical Joint Ductile Iron Tee	10,960.63	830.59
		For Cement Mortar Lining (CML), Add	*970.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,746.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*727.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0182	EA	36" x 24" Mechanical Joint Ductile Iron Tee	12,129.43	891.81
		For Cement Mortar Lining (CML), Add	*1,077.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,940.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*808.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0183	EA	36" x 30" Mechanical Joint Ductile Iron Tee	13,414.75	969.44
		For Cement Mortar Lining (CML), Add	*1,199.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,159.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*899.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0184	EA	36" x 36" Mechanical Joint Ductile Iron Tee	15,675.40	969.44
		For Cement Mortar Lining (CML), Add	*1,420.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,557.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,065.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0185	EA	42" x 12" Mechanical Joint Ductile Iron Tee	17,654.26	744.87
		For Cement Mortar Lining (CML), Add	*1,652.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,974.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,239.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0186	EA	42" x 14" Mechanical Joint Ductile Iron Tee	18,007.88	757.95
		For Cement Mortar Lining (CML), Add	*1,685.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,034.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,264.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0187	EA	42" x 16" Mechanical Joint Ductile Iron Tee	20,020.93	776.33
		For Cement Mortar Lining (CML), Add	*1,884.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,392.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,413.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0188	EA	42" x 18" Mechanical Joint Ductile Iron Tee	18,712.92	807.26
		For Cement Mortar Lining (CML), Add	*1,748.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,148.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,311.73*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0189	EA	42" x 20" Mechanical Joint Ductile Iron Tee	18,805.96	868.68
		For Cement Mortar Lining (CML), Add	*1,748.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,148.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,311.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0190	EA	42" x 24" Mechanical Joint Ductile Iron Tee	19,218.78	929.89
		For Cement Mortar Lining (CML), Add	*1,780.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,205.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,335.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0191	EA	42" x 30" Mechanical Joint Ductile Iron Tee	23,321.85	973.40
		For Cement Mortar Lining (CML), Add	*2,184.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,932.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,638.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0192	EA	42" x 36" Mechanical Joint Ductile Iron Tee	24,290.46	1,007.46
		For Cement Mortar Lining (CML), Add	*2,276.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,097.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,707.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0193	EA	42" x 42" Mechanical Joint Ductile Iron Tee	25,699.73	1,026.51
		For Cement Mortar Lining (CML), Add	*2,414.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,346.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,810.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0194	EA	48" x 12" Mechanical Joint Ductile Iron Tee	20,807.46	805.56
		For Cement Mortar Lining (CML), Add	*1,958.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,525.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,469.02*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0195	EA	48" x 14" Mechanical Joint Ductile Iron Tee	21,180.71	818.63
		For Cement Mortar Lining (CML), Add	*1,994.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,589.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,495.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0196	EA	48" x 16" Mechanical Joint Ductile Iron Tee	21,709.28	837.02
		For Cement Mortar Lining (CML), Add	*2,044.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,679.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,533.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0197	EA	48" x 18" Mechanical Joint Ductile Iron Tee	22,254.90	867.95
		For Cement Mortar Lining (CML), Add	*2,093.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,769.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,570.49*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0198	EA	48" x 20" Mechanical Joint Ductile Iron Tee	22,848.66	929.36
		For Cement Mortar Lining (CML), Add	*2,144.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,859.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,608.04*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0199	EA	48" x 24" Mechanical Joint Ductile Iron Tee	23,008.18	990.57
		For Cement Mortar Lining (CML), Add	*2,150.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,871.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,613.05*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0200	EA	48" x 30" Mechanical Joint Ductile Iron Tee	28,020.41	1,034.07
		For Cement Mortar Lining (CML), Add	*2,645.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,761.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,984.02*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0201	EA	48" x 36" Mechanical Joint Ductile Iron Tee	31,959.94	1,068.14
		For Cement Mortar Lining (CML), Add	*3,034.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,461.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,275.62*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0202	EA	48" x 42" Mechanical Joint Ductile Iron Tee	33,528.25	1,087.18
		For Cement Mortar Lining (CML), Add	*3,188.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,738.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,391.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0203	EA	48" x 48" Mechanical Joint Ductile Iron Tee	34,086.73	1,117.57
		For Cement Mortar Lining (CML), Add	*3,239.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,830.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,429.51*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0204		**Mechanical Joint Ductile Iron Wye (Laterals)** *(33 14 13 13-0002)*		
33 14 13 13-0205	EA	4" x 3" Mechanical Joint Ductile Iron Wye (Lateral)	282.38	76.21
		For Cement Mortar Lining (CML), Add	*16.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*30.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*12.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0206	EA	4" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	433.75	80.22
		For Cement Mortar Lining (CML), Add	*31.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*56.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*23.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0207	EA	6" x 3" Mechanical Joint Ductile Iron Wye (Lateral)	416.32	101.11
		For Cement Mortar Lining (CML), Add	*26.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*47.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*19.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0208	EA	6" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	481.55	105.29
		For Cement Mortar Lining (CML), Add	*32.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*57.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.15*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0209	EA	6" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	649.77	117.81
		For Cement Mortar Lining (CML), Add	*47.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*84.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*35.34*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0210	EA	8" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	834.82	122.01
		For Cement Mortar Lining (CML), Add	*65.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*116.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0211	EA	8" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	747.78	134.55
		For Cement Mortar Lining (CML), Add	*54.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*97.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*40.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0212	EA	8" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	903.79	142.90
		For Cement Mortar Lining (CML), Add	*68.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*123.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*51.54*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0213	EA	10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,291.56	130.57
		For Cement Mortar Lining (CML), Add	*109.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*196.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*82.03*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0214	EA	10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,366.44	142.41
		For Cement Mortar Lining (CML), Add	*115.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*207.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*86.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215	EA	10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,570.85	150.31
		For Cement Mortar Lining (CML), Add	*134.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*241.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*100.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216	EA	10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,768.95	157.94
		For Cement Mortar Lining (CML), Add	*152.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*275.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*114.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217	EA	12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,649.29	146.37
		For Cement Mortar Lining (CML), Add	*142.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*256.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*107.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218	EA	12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,865.55	158.20
		For Cement Mortar Lining (CML), Add	*162.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*292.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*121.94*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219	EA	12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,248.65	166.10
		For Cement Mortar Lining (CML), Add	*199.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*359.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*149.77*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0220	EA	12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,313.23	173.74
		For Cement Mortar Lining (CML), Add	*205.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*369.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*153.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221	EA	12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,095.45	181.62
		For Cement Mortar Lining (CML), Add	*182.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*327.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*136.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222	EA	14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,470.67	184.34
		For Cement Mortar Lining (CML), Add	*219.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*394.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*164.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223	EA	14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,828.25	192.25
		For Cement Mortar Lining (CML), Add	*253.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*456.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*190.27*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0224	EA	14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,693.97	199.87
		For Cement Mortar Lining (CML), Add	*339.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*610.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*254.34*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0225	EA	14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,957.27	207.76
		For Cement Mortar Lining (CML), Add	*364.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*655.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*273.19*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0226	EA	14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,867.13	220.83
		For Cement Mortar Lining (CML), Add	*353.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*635.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*264.94*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0227	EA	16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,538.18	221.11
		For Cement Mortar Lining (CML), Add	*220.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*396.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*165.24*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0228	EA	16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,793.65	229.02
		For Cement Mortar Lining (CML), Add	*244.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*440.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*183.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0229	EA	16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,294.13	236.64
		For Cement Mortar Lining (CML), Add	*293.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*528.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*220.17*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0230	EA	16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,685.09	244.54
		For Cement Mortar Lining (CML), Add	*331.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*596.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*248.59*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0231	EA	16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,612.07	257.62
		For Cement Mortar Lining (CML), Add	*422.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*759.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*316.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0232	EA	16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,447.49	275.99
		For Cement Mortar Lining (CML), Add	*402.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*725.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*302.20*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0233	EA	18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	3,996.61	282.99
		For Cement Mortar Lining (CML), Add	*356.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*642.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*267.59*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0234	EA	18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,303.14	290.88
		For Cement Mortar Lining (CML), Add	*386.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*695.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*289.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0235	EA	18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	4,599.41	298.52
		For Cement Mortar Lining (CML), Add	*414.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*746.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*311.03*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0236	EA	18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,921.63	306.41
		For Cement Mortar Lining (CML), Add	*445.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*802.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*334.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237	EA	18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,976.78	319.47
		For Cement Mortar Lining (CML), Add	*449.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*808.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*336.95*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0238	EA	18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	5,028.19	337.87
		For Cement Mortar Lining (CML), Add	*451.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*812.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*338.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239	EA	18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	4,599.88	368.80
		For Cement Mortar Lining (CML), Add	*404.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*727.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*303.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240	EA	20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	4,742.33	405.79
		For Cement Mortar Lining (CML), Add	*412.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*742.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*309.56*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241	EA	20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,846.60	413.71
		For Cement Mortar Lining (CML), Add	*421.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*759.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*316.48*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242	EA	20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	5,321.57	421.33
		For Cement Mortar Lining (CML), Add	*468.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*842.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*351.24*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243	EA	20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	5,793.01	429.22
		For Cement Mortar Lining (CML), Add	*514.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*925.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*385.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0244	EA	20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	5,852.08	442.29
		For Cement Mortar Lining (CML), Add	*518.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*932.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*388.65*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245	EA	20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	5,921.18	460.68
		For Cement Mortar Lining (CML), Add	*522.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*940.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*391.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246	EA	20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	6,859.52	491.61
		For Cement Mortar Lining (CML), Add	*611.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,100.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*458.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247	EA	20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	6,500.94	553.01
		For Cement Mortar Lining (CML), Add	*566.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,019.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*424.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0248	EA	24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	5,766.30	528.23
		For Cement Mortar Lining (CML), Add	*496.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*893.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*372.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249	EA	24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	5,841.11	536.14
		For Cement Mortar Lining (CML), Add	*502.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*905.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*377.16*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0250	EA	24" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	6,502.62	543.77
		For Cement Mortar Lining (CML), Add	*567.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,022.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*425.90*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0251	EA	24" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	6,805.18	551.67
		For Cement Mortar Lining (CML), Add	*596.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,074.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*447.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0252	EA	24" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	7,853.91	564.73
		For Cement Mortar Lining (CML), Add	*699.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,259.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*524.87*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0253	EA	24" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	8,724.17	583.11
		For Cement Mortar Lining (CML), Add	*784.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,411.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*588.05*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0254	EA	24" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	9,760.69	614.06
		For Cement Mortar Lining (CML), Add	*883.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,589.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*662.27*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0255	EA	24" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	10,723.61	675.46
		For Cement Mortar Lining (CML), Add	*970.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,746.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*727.51*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0256	EA	24" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	9,520.39	736.67
		For Cement Mortar Lining (CML), Add	*840.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,512.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*630.32*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0257	EA	30" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	11,887.10	615.24
		For Cement Mortar Lining (CML), Add	*1,095.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,971.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*821.62*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0258	EA	30" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	13,324.66	623.15
		For Cement Mortar Lining (CML), Add	*1,238.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,228.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*928.54*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0259	EA	30" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	14,098.08	630.77
		For Cement Mortar Lining (CML), Add	*1,314.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,365.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*985.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0260	EA	30" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	14,871.93	638.67
		For Cement Mortar Lining (CML), Add	*1,390.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,502.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,042.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0261	EA	30" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	15,969.76	651.75
		For Cement Mortar Lining (CML), Add	*1,498.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,696.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,123.67*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0262	EA	30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	17,152.20	670.12
		For Cement Mortar Lining (CML), Add	*1,613.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,904.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,210.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263	EA	30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	17,585.90	701.05
		For Cement Mortar Lining (CML), Add	*1,652.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,974.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,239.28*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264	EA	30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	18,218.93	762.47
		For Cement Mortar Lining (CML), Add	*1,706.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,071.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,279.78*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265	EA	30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	19,091.23	823.69
		For Cement Mortar Lining (CML), Add	*1,784.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,211.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,338.24*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266	EA	30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	20,690.72	867.20
		For Cement Mortar Lining (CML), Add	*1,937.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,487.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,453.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267	EA	36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	22,692.10	706.80
		For Cement Mortar Lining (CML), Add	*2,162.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,891.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,621.59*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0268	EA	36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	23,581.77	719.87
		For Cement Mortar Lining (CML), Add	*2,249.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,048.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,686.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269	EA	36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	24,467.73	738.26
		For Cement Mortar Lining (CML), Add	*2,334.92*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,202.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,751.19*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270	EA	36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	26,177.77	769.19
		For Cement Mortar Lining (CML), Add	*2,501.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,502.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,875.93*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271	EA	36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	27,939.88	830.59
		For Cement Mortar Lining (CML), Add	*2,668.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,802.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,001.11*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0272	EA	36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	30,991.77	891.81
		For Cement Mortar Lining (CML), Add	*2,964.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,335.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,223.04*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0273	EA	36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	34,715.88	935.31
		For Cement Mortar Lining (CML), Add	*3,329.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,993.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,497.40*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0274	EA	36" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	41,426.06	969.38
		For Cement Mortar Lining (CML), Add	*3,995.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*7,192.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,996.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0275	EA	42" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	36,452.83	868.68
		For Cement Mortar Lining (CML), Add	*3,513.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*6,324.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,635.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0276	EA	42" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	37,364.41	929.89
		For Cement Mortar Lining (CML), Add	*3,595.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*6,471.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,696.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0277	EA	42" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	39,912.31	973.40
		For Cement Mortar Lining (CML), Add	*3,843.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*6,918.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,882.81*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0278	EA	42" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	45,638.72	1,007.46
		For Cement Mortar Lining (CML), Add	*4,411.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*7,940.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3,308.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0279	EA	42" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	53,824.37	1,026.50
		For Cement Mortar Lining (CML), Add	*5,226.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*9,408.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3,920.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0280	EA	48" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	35,963.54	929.36
		For Cement Mortar Lining (CML), Add	*3,455.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*6,219.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,591.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0281	EA	48" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	40,729.67	990.57
		For Cement Mortar Lining (CML), Add	*3,922.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*7,061.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,942.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0282	EA	48" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	43,409.14	1,034.07
		For Cement Mortar Lining (CML), Add	*4,184.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*7,531.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3,138.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0283	EA	48" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	49,479.18	1,068.14
		For Cement Mortar Lining (CML), Add	*4,786.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*8,614.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3,589.56*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0284	EA	48" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	64,686.65	1,087.18
		For Cement Mortar Lining (CML), Add	*6,303.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*11,347.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4,727.96*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0285	EA	48" x 48" Mechanical Joint Ductile Iron Wye (Lateral)	71,016.15	1,117.52
		For Cement Mortar Lining (CML), Add	*6,932.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*12,478.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5,199.22*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0286 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee *(33 14 13 13-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0287	EA	6" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	575.16	117.88
		For Cement Mortar Lining (CML), Add	*39.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*71.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*29.75*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*29.75*	
33 14 13 13-0288	EA	8" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	682.98	134.55
		For Cement Mortar Lining (CML), Add	*47.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*86.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*35.93*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*35.93*	
33 14 13 13-0289	EA	10" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,032.63	142.41
		For Cement Mortar Lining (CML), Add	*81.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*147.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*61.26*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*61.26*	
33 14 13 13-0290	EA	12" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,160.62	158.20
		For Cement Mortar Lining (CML), Add	*92.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*165.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*69.07*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*69.07*	
33 14 13 13-0291	EA	14" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,583.12	184.34
		For Cement Mortar Lining (CML), Add	*130.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*234.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*97.79*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*97.79*	
33 14 13 13-0292	EA	16" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,021.75	221.11
		For Cement Mortar Lining (CML), Add	*168.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*303.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*126.50*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*126.50*	
33 14 13 13-0293	EA	18" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,482.68	282.99
		For Cement Mortar Lining (CML), Add	*205.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*369.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*154.04*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*154.04*	
33 14 13 13-0294	EA	20" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,479.73	405.79
		For Cement Mortar Lining (CML), Add	*286.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*515.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*214.87*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*214.87*	
33 14 13 13-0295	EA	24" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,045.20	528.23
		For Cement Mortar Lining (CML), Add	*328.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*590.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*246.24*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*246.24*	
33 14 13 13-0296	EA	30" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	7,904.92	615.24
		For Cement Mortar Lining (CML), Add	*697.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,255.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*522.96*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*522.96*	

33 14 13 13-0297 Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee *(33 14 13 13-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0298	EA	6" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee	516.25	117.88
		Note: Includes swivel gland.		
		For Cement Mortar Lining (CML), Add	*33.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*60.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*25.33*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*25.33*	
33 14 13 13-0299	EA	8" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee	604.43	134.55
		Note: Includes swivel gland.		
		For Cement Mortar Lining (CML), Add	*40.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*72.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.04*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*30.04*	
33 14 13 13-0300	EA	10" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee	859.83	142.41
		Note: Includes swivel gland.		
		For Cement Mortar Lining (CML), Add	*64.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*115.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.30*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*48.30*	
33 14 13 13-0301	EA	12" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee	1,064.40	158.20
		Note: Includes swivel gland.		
		For Cement Mortar Lining (CML), Add	*82.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*148.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*61.85*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*61.85*	
33 14 13 13-0302	EA	14" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee	1,339.63	184.34
		Note: Includes swivel gland.		
		For Cement Mortar Lining (CML), Add	*106.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*190.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*79.53*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*79.53*	
33 14 13 13-0303	EA	16" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee	1,691.87	221.11
		Note: Includes swivel gland.		
		For Cement Mortar Lining (CML), Add	*135.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*244.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*101.76*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*101.76*	
33 14 13 13-0304	EA	18" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee	2,186.17	282.99
		Note: Includes swivel gland.		
		For Cement Mortar Lining (CML), Add	*175.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*316.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*131.81*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*131.81*	
33 14 13 13-0305	EA	20" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee	2,386.01	405.79
		Note: Includes swivel gland.		
		For Cement Mortar Lining (CML), Add	*177.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*318.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*132.84*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*132.84*	
33 14 13 13-0306	EA	24" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee	3,312.78	528.23
		Note: Includes swivel gland.		
		For Cement Mortar Lining (CML), Add	*255.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*459.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*191.30*	
		Note: ANSI/AWWA C151/A21.51		
		For Protective Fusion-Bonded Epoxy Coated, C116, Add	*191.30*	

33 14 13 13-0307 Mechanical Joint Ductile Iron Cross *(33 14 13 13-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0308	EA	3" x 3" Mechanical Joint Ductile Iron Cross	391.05	90.92
		For Cement Mortar Lining (CML), Add	*25.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*45.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*19.00*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0309	EA	4" x 3" Mechanical Joint Ductile Iron Cross	473.90	98.93
		For Cement Mortar Lining (CML), Add	*32.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*58.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0310	EA	4" x 4" Mechanical Joint Ductile Iron Cross	562.34	100.28
		For Cement Mortar Lining (CML), Add	*41.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*73.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.78*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0311	EA	6" x 3" Mechanical Joint Ductile Iron Cross	670.94	123.95
		For Cement Mortar Lining (CML), Add	*48.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*86.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*36.23*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0312	EA	6" x 4" Mechanical Joint Ductile Iron Cross	650.28	133.70
		For Cement Mortar Lining (CML), Add	*44.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*80.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*33.58*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0313	EA	6" x 6" Mechanical Joint Ductile Iron Cross	755.91	167.13
		For Cement Mortar Lining (CML), Add	*50.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*90.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*37.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0314	EA	8" x 4" Mechanical Joint Ductile Iron Cross	667.33	146.25
		For Cement Mortar Lining (CML), Add	*44.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*80.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*33.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0315	EA	8" x 6" Mechanical Joint Ductile Iron Cross	792.58	179.67
		For Cement Mortar Lining (CML), Add	*52.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*93.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*39.03*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0316	EA	8" x 8" Mechanical Joint Ductile Iron Cross	839.08	192.19
		For Cement Mortar Lining (CML), Add	*54.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*98.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*41.09*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0317	EA	10" x 4" Mechanical Joint Ductile Iron Cross	812.60	152.71
		For Cement Mortar Lining (CML), Add	*58.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*104.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*43.59*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0318	EA	10" x 6" Mechanical Joint Ductile Iron Cross	931.15	184.29
		For Cement Mortar Lining (CML), Add	*65.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*117.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.89*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0319	EA	10" x 8" Mechanical Joint Ductile Iron Cross	1,106.19	196.15
		For Cement Mortar Lining (CML), Add	*80.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*145.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*60.68*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0320	EA	10" x 10" Mechanical Joint Ductile Iron Cross	1,196.87	210.59
		For Cement Mortar Lining (CML), Add	*87.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*157.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*65.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0321	EA	12 x 4" Mechanical Joint Ductile Iron Cross	985.67	165.84
		For Cement Mortar Lining (CML), Add	*73.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*132.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*55.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322	EA	12" x 6" Mechanical Joint Ductile Iron Cross	1,145.45	197.43
		For Cement Mortar Lining (CML), Add	*84.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*152.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*63.47*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0323	EA	12" x 8" Mechanical Joint Ductile Iron Cross	1,652.35	209.28
		For Cement Mortar Lining (CML), Add	*133.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*240.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*100.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0324	EA	12" x 10" Mechanical Joint Ductile Iron Cross	1,674.30	223.77
		For Cement Mortar Lining (CML), Add	*133.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*240.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*100.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0325	EA	12" x 12" Mechanical Joint Ductile Iron Cross	1,900.39	236.91
		For Cement Mortar Lining (CML), Add	*154.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*277.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*115.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0326	EA	14" x 6" Mechanical Joint Ductile Iron Cross	1,947.05	217.16
		For Cement Mortar Lining (CML), Add	*161.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*291.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*121.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0327	EA	14" x 8" Mechanical Joint Ductile Iron Cross	2,290.96	229.02
		For Cement Mortar Lining (CML), Add	*194.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*349.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*145.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0328	EA	14" x 10" Mechanical Joint Ductile Iron Cross	2,352.19	243.51
		For Cement Mortar Lining (CML), Add	*198.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*356.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*148.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0329	EA	14" x 12" Mechanical Joint Ductile Iron Cross	2,482.06	256.64
		For Cement Mortar Lining (CML), Add	*209.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*376.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*156.99*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0330	EA	14" x 14" Mechanical Joint Ductile Iron Cross	2,745.63	276.40
		For Cement Mortar Lining (CML), Add	*232.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*418.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*174.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0331	EA	16" x 6" Mechanical Joint Ductile Iron Cross	2,226.49	244.79
		For Cement Mortar Lining (CML), Add	*185.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*334.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*139.17*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0332	EA	16" x 8" Mechanical Joint Ductile Iron Cross	2,533.10	256.64
		For Cement Mortar Lining (CML), Add	*214.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*385.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*160.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0333	EA	16" x 10" Mechanical Joint Ductile Iron Cross	3,031.39	271.12
		For Cement Mortar Lining (CML), Add	*262.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*471.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*196.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0334	EA	16" x 12" Mechanical Joint Ductile Iron Cross	3,378.08	284.27
		For Cement Mortar Lining (CML), Add	*294.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*530.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*221.05*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0335	EA	16" x 14" Mechanical Joint Ductile Iron Cross	4,079.53	304.01
		For Cement Mortar Lining (CML), Add	*361.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*651.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*271.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0336	EA	16" x 16" Mechanical Joint Ductile Iron Cross	4,775.26	331.68
		For Cement Mortar Lining (CML), Add	*427.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*769.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*320.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0337	EA	18" x 6" Mechanical Joint Ductile Iron Cross	3,680.45	289.46
		For Cement Mortar Lining (CML), Add	*324.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*583.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*243.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0338	EA	18" x 8" Mechanical Joint Ductile Iron Cross	3,890.87	301.31
		For Cement Mortar Lining (CML), Add	*343.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*618.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*257.58*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0339	EA	18" x 10" Mechanical Joint Ductile Iron Cross	4,073.83	315.79
		For Cement Mortar Lining (CML), Add	*359.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*647.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*269.65*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0340	EA	18" x 12" Mechanical Joint Ductile Iron Cross	4,415.77	328.94
		For Cement Mortar Lining (CML), Add	*391.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*705.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*293.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0341	EA	18" x 14" Mechanical Joint Ductile Iron Cross	5,150.60	348.67
		For Cement Mortar Lining (CML), Add	*462.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*832.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*346.67*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0342	EA	18" x 16" Mechanical Joint Ductile Iron Cross	5,483.07	376.29
		For Cement Mortar Lining (CML), Add	*491.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*884.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*368.47*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0343	EA	18" x 18" Mechanical Joint Ductile Iron Cross	5,743.17	420.95
		For Cement Mortar Lining (CML), Add	*510.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*918.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*382.90*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0344	EA	20" x 6" Mechanical Joint Ductile Iron Cross	4,626.70	363.18
		For Cement Mortar Lining (CML), Add	*407.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*733.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*305.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0345	EA	20" x 8" Mechanical Joint Ductile Iron Cross	4,839.06	375.03
		For Cement Mortar Lining (CML), Add	*427.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*768.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*320.31*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0346	EA	20" x 10" Mechanical Joint Ductile Iron Cross	4,988.65	389.52
		For Cement Mortar Lining (CML), Add	*439.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*791.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*329.88*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0347	EA	20" x 12" Mechanical Joint Ductile Iron Cross	5,328.64	402.66
		For Cement Mortar Lining (CML), Add	*471.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*849.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*353.89*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0348	EA	20" x 14" Mechanical Joint Ductile Iron Cross	5,423.33	422.40
		For Cement Mortar Lining (CML), Add	*478.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*861.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*358.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0349	EA	20" x 16" Mechanical Joint Ductile Iron Cross	6,556.94	450.02
		For Cement Mortar Lining (CML), Add	*587.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,057.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*440.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0350	EA	20" x 18" Mechanical Joint Ductile Iron Cross	6,817.04	494.69
		For Cement Mortar Lining (CML), Add	*606.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,092.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*455.06*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0351	EA	20" x 20" Mechanical Joint Ductile Iron Cross	7,378.42	568.36
		For Cement Mortar Lining (CML), Add	*651.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,173.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*488.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0352	EA	24" x 6" Mechanical Joint Ductile Iron Cross	6,306.22	454.32
		For Cement Mortar Lining (CML), Add	*561.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,011.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*421.34*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0353	EA	24" x 8" Mechanical Joint Ductile Iron Cross	6,454.13	466.17
		For Cement Mortar Lining (CML), Add	*574.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,034.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*431.06*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0354	EA	24" x 10" Mechanical Joint Ductile Iron Cross	6,699.57	480.65
		For Cement Mortar Lining (CML), Add	*597.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,074.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*447.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0355	EA	24" x 12" Mechanical Joint Ductile Iron Cross	6,911.92	493.80
		For Cement Mortar Lining (CML), Add	*616.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,109.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*462.28*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0356	EA	24" x 14" Mechanical Joint Ductile Iron Cross	7,038.03	513.53
		For Cement Mortar Lining (CML), Add	*626.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,126.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*469.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0357	EA	24" x 16" Mechanical Joint Ductile Iron Cross	7,305.70	541.16
		For Cement Mortar Lining (CML), Add	*648.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,167.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*486.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0358	EA	24" x 18" Mechanical Joint Ductile Iron Cross	9,653.12	585.82
		For Cement Mortar Lining (CML), Add	*876.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,577.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*657.41*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0359	EA	24" x 20" Mechanical Joint Ductile Iron Cross	10,181.11	659.54
		For Cement Mortar Lining (CML), Add	*918.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,652.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*688.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0360	EA	24" x 24" Mechanical Joint Ductile Iron Cross	11,218.52	750.71
		For Cement Mortar Lining (CML), Add	*1,008.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,814.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*756.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0361	EA	30" x 8" Mechanical Joint Ductile Iron Cross	12,050.85	604.08
		For Cement Mortar Lining (CML), Add	*1,113.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,004.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*835.17*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0362	EA	30" x 10" Mechanical Joint Ductile Iron Cross	12,290.76	618.57
		For Cement Mortar Lining (CML), Add	*1,135.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,043.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*851.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0363	EA	30" x 12" Mechanical Joint Ductile Iron Cross	12,526.67	631.71
		For Cement Mortar Lining (CML), Add	*1,156.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,082.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*867.71*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0364	EA	30" x 14" Mechanical Joint Ductile Iron Cross	12,805.94	651.45
		For Cement Mortar Lining (CML), Add	*1,181.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,127.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*886.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0365	EA	30" x 16" Mechanical Joint Ductile Iron Cross	13,126.62	679.06
		For Cement Mortar Lining (CML), Add	*1,209.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,177.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*907.33*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0366	EA	30" x 18" Mechanical Joint Ductile Iron Cross	13,504.55	723.72
		For Cement Mortar Lining (CML), Add	*1,240.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,233.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*930.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0367	EA	30" x 20" Mechanical Joint Ductile Iron Cross	13,987.38	797.46
		For Cement Mortar Lining (CML), Add	*1,277.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,300.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*958.43*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0368	EA	30" x 24" Mechanical Joint Ductile Iron Cross	17,976.08	888.58
		For Cement Mortar Lining (CML), Add	*1,662.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,993.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,247.23*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0369	EA	30" x 30" Mechanical Joint Ductile Iron Cross	20,670.95	1,026.51
		For Cement Mortar Lining (CML), Add	*1,911.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,440.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,433.67*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0370	EA	36" x 8" Mechanical Joint Ductile Iron Cross	16,813.02	654.92
		For Cement Mortar Lining (CML), Add	*1,582.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,847.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,186.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0371	EA	36" x 10" Mechanical Joint Ductile Iron Cross	17,050.96	669.39
		For Cement Mortar Lining (CML), Add	*1,603.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,886.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,202.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0372	EA	36" x 12" Mechanical Joint Ductile Iron Cross	17,255.46	682.55
		For Cement Mortar Lining (CML), Add	*1,622.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,919.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,216.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0373	EA	36" x 14" Mechanical Joint Ductile Iron Cross	17,501.35	702.27
		For Cement Mortar Lining (CML), Add	*1,643.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,958.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,232.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0374	EA	36" x 16" Mechanical Joint Ductile Iron Cross	17,790.61	729.90
		For Cement Mortar Lining (CML), Add	*1,668.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,003.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,251.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0375	EA	36" x 18" Mechanical Joint Ductile Iron Cross	18,135.16	774.56
		For Cement Mortar Lining (CML), Add	*1,696.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,053.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,272.12*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0376	EA	36" x 20" Mechanical Joint Ductile Iron Cross	18,586.57	848.29
		For Cement Mortar Lining (CML), Add	*1,730.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,114.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,297.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0377	EA	36" x 24" Mechanical Joint Ductile Iron Cross	19,372.64	939.43
		For Cement Mortar Lining (CML), Add	*1,794.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,230.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,346.20*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0378	EA	36" x 30" Mechanical Joint Ductile Iron Cross	26,088.96	1,077.33
		For Cement Mortar Lining (CML), Add	*2,445.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,402.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,834.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0379	EA	36" x 36" Mechanical Joint Ductile Iron Cross	28,663.69	1,128.22
		For Cement Mortar Lining (CML), Add	*2,695.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,851.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,021.58*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0380	EA	42" x 12" Mechanical Joint Ductile Iron Cross	22,562.45	711.93
		For Cement Mortar Lining (CML), Add	*2,148.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,867.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,611.28*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0381	EA	42" x 14" Mechanical Joint Ductile Iron Cross	25,509.76	731.67
		For Cement Mortar Lining (CML), Add	*2,440.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,392.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,830.09*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0382	EA	42" x 16" Mechanical Joint Ductile Iron Cross	23,076.00	759.29
		For Cement Mortar Lining (CML), Add	*2,192.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,946.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,644.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0383	EA	42" x 18" Mechanical Joint Ductile Iron Cross	23,381.26	803.96
		For Cement Mortar Lining (CML), Add	*2,216.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,989.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,662.24*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0384	EA	42" x 20" Mechanical Joint Ductile Iron Cross	23,816.97	877.68
		For Cement Mortar Lining (CML), Add	*2,248.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,047.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,686.54*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0385	EA	42" x 24" Mechanical Joint Ductile Iron Cross	24,546.09	968.82
		For Cement Mortar Lining (CML), Add	*2,307.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,154.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,730.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0386	EA	42" x 30" Mechanical Joint Ductile Iron Cross	31,423.43	1,106.73
		For Cement Mortar Lining (CML), Add	*2,974.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,354.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,230.99*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0387	EA	42" x 36" Mechanical Joint Ductile Iron Cross	41,033.73	1,157.56
		For Cement Mortar Lining (CML), Add	*3,927.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*7,070.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,945.99*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0388	EA	42" x 42" Mechanical Joint Ductile Iron Cross	43,968.68	1,186.97
		For Cement Mortar Lining (CML), Add	*4,217.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*7,590.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3,162.77*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0389	EA	48" x 12" Mechanical Joint Ductile Iron Cross	30,501.37	828.63
		For Cement Mortar Lining (CML), Add	*2,924.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,264.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,193.44*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0390	EA	48" x 14" Mechanical Joint Ductile Iron Cross	30,707.99	848.37
		For Cement Mortar Lining (CML), Add	*2,942.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,296.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,206.69*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391	EA	48" x 16" Mechanical Joint Ductile Iron Cross	30,985.48	875.99
		For Cement Mortar Lining (CML), Add	*2,965.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,338.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,224.37*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0392	EA	48" x 18" Mechanical Joint Ductile Iron Cross	31,288.78	920.66
		For Cement Mortar Lining (CML), Add	*2,989.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,380.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,242.04*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393	EA	48" x 20" Mechanical Joint Ductile Iron Cross	31,697.00	994.38
		For Cement Mortar Lining (CML), Add	*3,019.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,434.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,264.28*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0394	EA	48" x 24" Mechanical Joint Ductile Iron Cross	32,394.71	1,085.51
		For Cement Mortar Lining (CML), Add	*3,075.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,535.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,306.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395	EA	48" x 30" Mechanical Joint Ductile Iron Cross	34,286.46	1,223.43
		For Cement Mortar Lining (CML), Add	*3,243.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,837.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,432.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0396	EA	48" x 36" Mechanical Joint Ductile Iron Cross	42,005.81	1,274.25
		For Cement Mortar Lining (CML), Add	*4,007.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*7,213.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3,005.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397	EA	48" x 42" Mechanical Joint Ductile Iron Cross	54,002.79	1,303.66
		For Cement Mortar Lining (CML), Add	*5,202.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*9,364.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3,902.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398	EA	48" x 48" Mechanical Joint Ductile Iron Cross	57,513.79	1,420.30
		For Cement Mortar Lining (CML), Add	*5,536.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*9,965.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4,152.13*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0399 Mechanical Joint x Mechanical Joint Ductile Iron Reducers *(33 14 13 13-0002)*

33 14 13 13-0400	EA	4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	188.84	49.47
		For Cement Mortar Lining (CML), Add	*11.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*20.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.54*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401	EA	6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	219.61	62.00
		For Cement Mortar Lining (CML), Add	*12.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*22.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*9.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0402	EA	6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	237.48	66.01
		For Cement Mortar Lining (CML), Add	*13.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*24.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.31*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0403	EA	8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	301.32	74.38
		For Cement Mortar Lining (CML), Add	*18.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*33.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0404	EA	8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	331.96	86.90
		For Cement Mortar Lining (CML), Add	*20.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*36.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*15.02*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0405	EA	10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	363.51	77.92
		For Cement Mortar Lining (CML), Add	*24.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*44.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.41*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0406	EA	10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	395.20	89.77
		For Cement Mortar Lining (CML), Add	*25.92*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*46.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*19.44*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0407	EA	10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	432.69	97.66
		For Cement Mortar Lining (CML), Add	*28.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*51.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*21.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0408	EA	12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	440.26	85.81
		For Cement Mortar Lining (CML), Add	*31.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*55.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*23.27*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409	EA	12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	489.63	97.66
		For Cement Mortar Lining (CML), Add	*34.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*61.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*25.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410	EA	12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	511.43	105.56
		For Cement Mortar Lining (CML), Add	*35.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*63.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*26.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411	EA	12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	560.29	113.19
		For Cement Mortar Lining (CML), Add	*38.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*69.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*29.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412	EA	14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	925.71	110.73
		For Cement Mortar Lining (CML), Add	*75.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*136.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*56.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413	EA	14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	898.43	118.64
		For Cement Mortar Lining (CML), Add	*71.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*129.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*53.90*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0414	EA	14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	803.94	126.26
		For Cement Mortar Lining (CML), Add	*61.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*110.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*45.95*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415	EA	14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	845.37	134.16
		For Cement Mortar Lining (CML), Add	*64.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*115.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416	EA	16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,087.09	129.10
		For Cement Mortar Lining (CML), Add	*89.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*160.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*66.86*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0417	EA	16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,065.69	137.02
		For Cement Mortar Lining (CML), Add	*85.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*154.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*64.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0418	EA	16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,045.84	144.65
		For Cement Mortar Lining (CML), Add	*82.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*148.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*62.00*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419	EA	16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,134.38	152.55
		For Cement Mortar Lining (CML), Add	*90.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*162.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*67.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0420	EA	16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,262.17	165.61
		For Cement Mortar Lining (CML), Add	*101.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*182.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*75.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421	EA	18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,356.05	167.95
		For Cement Mortar Lining (CML), Add	*110.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*198.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*82.62*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422	EA	18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,520.76	175.58
		For Cement Mortar Lining (CML), Add	*125.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*225.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*94.11*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423	EA	18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,465.98	183.47
		For Cement Mortar Lining (CML), Add	*118.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*213.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*89.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424	EA	18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,554.50	196.54
		For Cement Mortar Lining (CML), Add	*125.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*226.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*94.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425	EA	18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,637.33	214.94
		For Cement Mortar Lining (CML), Add	*131.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*236.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*98.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0426	EA	20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,914.46	229.36
		For Cement Mortar Lining (CML), Add	*156.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*282.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*117.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0427	EA	20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,835.70	236.99
		For Cement Mortar Lining (CML), Add	*147.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*265.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*110.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0428	EA	20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,692.54	244.88
		For Cement Mortar Lining (CML), Add	*132.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*237.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*99.11*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0429	EA	20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,702.52	257.95
		For Cement Mortar Lining (CML), Add	*131.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*236.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*98.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0430	EA	20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,757.88	276.34
		For Cement Mortar Lining (CML), Add	*133.92*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*241.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*100.44*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0431	EA	20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,109.09	307.28
		For Cement Mortar Lining (CML), Add	*164.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*295.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*123.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0432	EA	24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,488.26	306.10
		For Cement Mortar Lining (CML), Add	*202.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*364.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*151.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0433	EA	24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,559.13	319.17
		For Cement Mortar Lining (CML), Add	*207.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*373.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*155.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0434	EA	24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,614.47	337.55
		For Cement Mortar Lining (CML), Add	*210.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*378.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*157.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435	EA	24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,569.05	368.49
		For Cement Mortar Lining (CML), Add	*201.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*361.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*150.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0436	EA	24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,141.20	429.91
		For Cement Mortar Lining (CML), Add	*248.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*448.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*186.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0437	EA	30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,142.74	381.06
		For Cement Mortar Lining (CML), Add	*456.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*821.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*342.40*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438	EA	30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,370.25	411.99
		For Cement Mortar Lining (CML), Add	*474.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*854.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*355.95*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0439	EA	30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,200.18	473.40
		For Cement Mortar Lining (CML), Add	*448.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*806.92*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*336.22*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440	EA	30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,078.90	534.63
		For Cement Mortar Lining (CML), Add	*426.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*768.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*320.17*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0441	EA	36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,714.14	507.47
		For Cement Mortar Lining (CML), Add	*694.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,250.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*520.89*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442	EA	36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,375.43	568.68
		For Cement Mortar Lining (CML), Add	*551.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*992.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*413.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0443	EA	36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,924.39	612.18
		For Cement Mortar Lining (CML), Add	*599.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,079.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*449.76*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444	EA	42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	10,035.98	434.16
		For Cement Mortar Lining (CML), Add	*937.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,688.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*703.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0445	EA	42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,996.45	465.10
		For Cement Mortar Lining (CML), Add	*929.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,672.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*696.88*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0446	EA	42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	10,058.08	526.50
		For Cement Mortar Lining (CML), Add	*926.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,666.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*694.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0447	EA	42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	11,224.92	587.73
		For Cement Mortar Lining (CML), Add	*1,033.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,860.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*775.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0448	EA	42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,252.62	631.23
		For Cement Mortar Lining (CML), Add	*829.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,493.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*622.22*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0449	EA	42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,685.17	665.29
		For Cement Mortar Lining (CML), Add	*867.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,561.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*650.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0450	EA	48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	13,526.10	464.51
		For Cement Mortar Lining (CML), Add	*1,282.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,308.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*961.67*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0451	EA	48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	13,113.49	495.44
		For Cement Mortar Lining (CML), Add	*1,236.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,225.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*927.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0452	EA	48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	12,499.63	556.85
		For Cement Mortar Lining (CML), Add	*1,165.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,098.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*874.19*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0453	EA	48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	12,888.90	618.06
		For Cement Mortar Lining (CML), Add	*1,195.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,151.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*896.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0454	EA	48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	15,403.42	661.57
		For Cement Mortar Lining (CML), Add	*1,440.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,592.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,080.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0455	EA	48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	13,489.46	695.63
		For Cement Mortar Lining (CML), Add	*1,243.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,238.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*932.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0456	EA	48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	14,810.36	714.67
		For Cement Mortar Lining (CML), Add	*1,372.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,470.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,029.56*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0457 Mechanical Joint Ductile Iron Caps *(33 14 13 13-0002)*

33 14 13 13-0458	EA	3" Mechanical Joint Ductile Iron Caps	209.32	104.46
		For Cement Mortar Lining (CML), Add	*5.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*9.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0459	EA	4" Mechanical Joint Ductile Iron Caps	238.72	122.56
		For Cement Mortar Lining (CML), Add	*5.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*9.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3.98*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0460	EA	6" Mechanical Joint Ductile Iron Caps	326.37	153.20
		For Cement Mortar Lining (CML), Add	*9.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*16.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*7.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0461	EA	8" Mechanical Joint Ductile Iron Caps	422.37	175.10
		For Cement Mortar Lining (CML), Add	*15.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*28.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.78*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0462	EA	10" Mechanical Joint Ductile Iron Caps	597.17	263.24
		For Cement Mortar Lining (CML), Add	*19.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*35.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.87*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0463	EA	12" Mechanical Joint Ductile Iron Caps	731.61	287.17
		For Cement Mortar Lining (CML), Add	*29.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*53.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*22.24*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0464	EA	14" Mechanical Joint Ductile Iron Caps	928.28	315.89
		For Cement Mortar Lining (CML), Add	*44.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*80.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*33.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465	EA	16" Mechanical Joint Ductile Iron Caps	1,134.62	350.95
		For Cement Mortar Lining (CML), Add	*60.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*108.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*45.21*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0466	EA	18" Mechanical Joint Ductile Iron Caps	1,334.62	394.86
		For Cement Mortar Lining (CML), Add	*73.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*132.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*55.23*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467	EA	20" Mechanical Joint Ductile Iron Caps	1,636.09	451.21
		For Cement Mortar Lining (CML), Add	*95.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*171.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*71.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0468	EA	24" Mechanical Joint Ductile Iron Caps	2,105.45	526.48
		For Cement Mortar Lining (CML), Add	*130.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*235.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*98.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0469	EA	30" Mechanical Joint Ductile Iron Caps	3,947.79	631.77
		For Cement Mortar Lining (CML), Add	*299.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*538.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*224.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470	EA	36" Mechanical Joint Ductile Iron Caps	6,635.72	789.72
		For Cement Mortar Lining (CML), Add	*543.92*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*979.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*407.94*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0471	EA	42" Mechanical Joint Ductile Iron Caps	9,684.93	947.66
		For Cement Mortar Lining (CML), Add	*824.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,484.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*618.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472	EA	48" Mechanical Joint Ductile Iron Caps	11,535.13	1,052.95
		For Cement Mortar Lining (CML), Add	*993.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,789.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*745.48*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0473 Mechanical Joint Ductile Iron Plug *(33 14 13 13-0002)*

33 14 13 13-0474	EA	3" Mechanical Joint Ductile Iron Plug	217.18	104.46
		For Cement Mortar Lining (CML), Add	*5.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*10.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475	EA	4" Mechanical Joint Ductile Iron Plug	250.50	122.56
		For Cement Mortar Lining (CML), Add	*6.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*11.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476	EA	6" Mechanical Joint Ductile Iron Plug	357.79	153.20
		For Cement Mortar Lining (CML), Add	*12.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*22.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*9.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0477	EA	8" Mechanical Joint Ductile Iron Plug	453.79	175.10
		For Cement Mortar Lining (CML), Add	*18.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*33.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0478	EA	10" Mechanical Joint Ductile Iron Plug	724.80	263.24
		For Cement Mortar Lining (CML), Add	*32.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*58.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.45*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0479	EA	12" Mechanical Joint Ductile Iron Plug	766.96	287.17
		For Cement Mortar Lining (CML), Add	*33.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*59.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.89*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480	EA	14" Mechanical Joint Ductile Iron Plug	1,154.10	315.89
		For Cement Mortar Lining (CML), Add	*67.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*121.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*50.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0481	EA	16" Mechanical Joint Ductile Iron Plug	618.19	350.95
		For Cement Mortar Lining (CML), Add	*8.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*15.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.48*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0482	EA	18" Mechanical Joint Ductile Iron Plug	1,670.40	394.86
		For Cement Mortar Lining (CML), Add	*107.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*192.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*80.41*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0483	EA	20" Mechanical Joint Ductile Iron Plug	2,093.60	451.21
		For Cement Mortar Lining (CML), Add	*140.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*253.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*105.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0484	EA	24" Mechanical Joint Ductile Iron Plug	2,753.44	526.48
		For Cement Mortar Lining (CML), Add	*195.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*352.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*146.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0485	EA	30" Mechanical Joint Ductile Iron Plug	4,839.27	631.77
		For Cement Mortar Lining (CML), Add	*388.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*698.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*291.15*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0486	EA	36" Mechanical Joint Ductile Iron Plug	7,193.38	789.72
		For Cement Mortar Lining (CML), Add	*599.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,079.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*449.76*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0487	EA	42" Mechanical Joint Ductile Iron Plug	9,755.62	947.66
		For Cement Mortar Lining (CML), Add	*831.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,497.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*623.98*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0488	EA	48" Mechanical Joint Ductile Iron Plug	12,685.80	1,052.95
		For Cement Mortar Lining (CML), Add	*1,109.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,996.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*831.78*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0489 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters *(33 14 13 13-0002)*

33 14 13 13-0490	EA	3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	368.19	158.77
		For Cement Mortar Lining (CML), Add	*12.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*22.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*9.57*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0491	EA	4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	416.00	183.84
		For Cement Mortar Lining (CML), Add	*13.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*24.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.31*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0492	EA	6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	538.65	229.80
		For Cement Mortar Lining (CML), Add	*19.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*34.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0493	EA	8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	686.57	262.59
		For Cement Mortar Lining (CML), Add	*28.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*51.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*21.65*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0494	EA	10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,100.95	394.86
		For Cement Mortar Lining (CML), Add	*50.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*90.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*37.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0495	EA	12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,296.72	430.76
		For Cement Mortar Lining (CML), Add	*64.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*115.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0496	EA	14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,740.97	473.83
		For Cement Mortar Lining (CML), Add	*102.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*184.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*76.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0497	EA	16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,966.03	526.48
		For Cement Mortar Lining (CML), Add	*116.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*210.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*87.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0498	EA	18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,684.29	592.29
		For Cement Mortar Lining (CML), Add	*178.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*321.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*134.02*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0499	EA	20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,154.14	676.88
		For Cement Mortar Lining (CML), Add	*212.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*383.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*159.64*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0500	EA	24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,817.96	789.72
		For Cement Mortar Lining (CML), Add	*262.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*471.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*196.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0501	EA	30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	6,260.42	947.66
		For Cement Mortar Lining (CML), Add	*482.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*868.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*361.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0502	EA	36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	8,708.66	1,184.57
		For Cement Mortar Lining (CML), Add	*691.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,244.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*518.54*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0503	EA	42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	11,690.53	1,353.77
		For Cement Mortar Lining (CML), Add	*963.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,735.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*722.95*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0504	EA	48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	14,465.29	1,579.44
		For Cement Mortar Lining (CML), Add	*1,207.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,173.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*905.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0505		**Mechanical Joint Ductile Iron Long Sleeves** *(33 14 13 13-0002)*		
33 14 13 13-0506	EA	3" Mechanical Joint Ductile Iron Long Sleeves	348.56	158.77
		For Cement Mortar Lining (CML), Add	*10.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*19.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0507	EA	4" Mechanical Joint Ductile Iron Long Sleeves	406.18	183.84
		For Cement Mortar Lining (CML), Add	*12.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*22.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*9.57*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0508	EA	6" Mechanical Joint Ductile Iron Long Sleeves	562.21	229.80
		For Cement Mortar Lining (CML), Add	*21.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*38.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*16.05*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0509	EA	8" Mechanical Joint Ductile Iron Long Sleeves	749.40	262.59
		For Cement Mortar Lining (CML), Add	*35.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*63.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*26.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0510	EA	10" Mechanical Joint Ductile Iron Long Sleeves	1,016.52	394.86
		For Cement Mortar Lining (CML), Add	*41.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*75.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*31.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0511	EA	12" Mechanical Joint Ductile Iron Long Sleeves	1,218.18	430.76
		For Cement Mortar Lining (CML), Add	*56.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*101.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*42.41*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0512	EA	14" Mechanical Joint Ductile Iron Long Sleeves	1,572.10	473.83
		For Cement Mortar Lining (CML), Add	*85.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*153.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*64.06*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0513	EA	16" Mechanical Joint Ductile Iron Long Sleeves	1,879.63	526.48
		For Cement Mortar Lining (CML), Add	*108.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*194.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*81.15*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0514	EA	18" Mechanical Joint Ductile Iron Long Sleeves	2,281.75	592.29
		For Cement Mortar Lining (CML), Add	*138.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*249.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*103.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0515	EA	20" Mechanical Joint Ductile Iron Long Sleeves	2,696.62	676.88
		For Cement Mortar Lining (CML), Add	*167.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*300.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*125.33*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0516	EA	24" Mechanical Joint Ductile Iron Long Sleeves	3,397.75	789.72
		For Cement Mortar Lining (CML), Add	*220.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*396.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*165.09*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0517	EA	30" Mechanical Joint Ductile Iron Long Sleeves	6,046.38	947.66
		For Cement Mortar Lining (CML), Add	*461.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*829.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*345.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0518	EA	36" Mechanical Joint Ductile Iron Long Sleeves	8,268.81	1,184.57
		For Cement Mortar Lining (CML), Add	*647.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,165.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*485.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0519	EA	42" Mechanical Joint Ductile Iron Long Sleeves	10,708.36	1,352.21
		For Cement Mortar Lining (CML), Add	*865.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,558.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*649.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0520	EA	48" Mechanical Joint Ductile Iron Long Sleeves	14,557.58	1,579.44
		For Cement Mortar Lining (CML), Add	*1,216.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,189.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*912.34*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0521 Mechanical Joint Ductile Iron Gland Packs *(33 14 13 13-0002)*

Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.

33 14 13 13-0522 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts *(33 14 13 13-0521)*

Note: Labor installation is included with pipe fittings or valves.

33 14 13 13-0523	EA	3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	39.27
33 14 13 13-0524	EA	4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish bolts with nut.	37.66
33 14 13 13-0525	EA	6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	45.51
33 14 13 13-0526	EA	8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	53.35
33 14 13 13-0527	EA	10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	73.75
33 14 13 13-0528	EA	12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	78.46
33 14 13 13-0529	EA	14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.	128.67
33 14 13 13-0530	EA	16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	136.52
33 14 13 13-0531	EA	18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	182.03
33 14 13 13-0532	EA	20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.	235.38
33 14 13 13-0533	EA	24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.	327.96
33 14 13 13-0534	EA	30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish bolts with nut.	783.03
33 14 13 13-0535	EA	36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish bolts with nut.	1,688.46
33 14 13 13-0536	EA	42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with nut.	2,465.21
33 14 13 13-0537	EA	48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish bolts with nut.	3,025.42
33 14 13 13-0538	EA	54" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-six (36) 1-1/4" diameter plain finish bolts with nut.	4,064.23

33 14 13 13-0539 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts *(33 14 13 13-0521)*

Note: Labor installation is included with pipe fittings or valves.

33 14 13 13-0540	EA	3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	66.76
33 14 13 13-0541	EA	4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish bolts with nut.	53.35
33 14 13 13-0542	EA	6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	67.48
33 14 13 13-0543	EA	8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	73.75
33 14 13 13-0544	EA	10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	102.00
33 14 13 13-0545	EA	12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	106.71
33 14 13 13-0546	EA	14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.	161.63

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0547	EA	16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	177.32	
33 14 13 13-0548	EA	18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	235.38	
33 14 13 13-0549	EA	20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.	304.42	
33 14 13 13-0550	EA	24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.	425.25	
33 14 13 13-0551		Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts *(33 14 13 13-0521)* Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0552	EA	3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	43.20	
33 14 13 13-0553	EA	4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish bolts with nut.	40.80	
33 14 13 13-0554	EA	6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	48.65	
33 14 13 13-0555	EA	8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	58.06	
33 14 13 13-0556	EA	10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	80.03	
33 14 13 13-0557	EA	12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	84.74	
33 14 13 13-0558	EA	14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.	139.66	
33 14 13 13-0559	EA	16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	147.50	
33 14 13 13-0560	EA	18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	199.29	
33 14 13 13-0561	EA	20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.	255.78	
33 14 13 13-0562	EA	24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.	357.78	
33 14 13 13-0563	EA	30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish bolts with nut.	856.78	
33 14 13 13-0564	EA	36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish bolts with nut.	1,898.73	
33 14 13 13-0565	EA	42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with nut.	2,749.24	
33 14 13 13-0566	EA	48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish bolts with nut.	3,383.20	
33 14 13 13-0567	EA	54" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-six (36) 1-1/4" diameter plain finish bolts with nut.	4,152.10	
33 14 13 13-0568		Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) *(33 14 13 13-0002)* Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-0569	EA	3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC)	217.05	79.64
33 14 13 13-0570	EA	4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC)	247.64	94.33
33 14 13 13-0571	EA	6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC)	307.19	116.74
33 14 13 13-0572	EA	8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC)	383.23	136.24
33 14 13 13-0573	EA	10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC)	551.90	197.43
33 14 13 13-0574	EA	12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC)	680.70	225.67
33 14 13 13-0575	EA	14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC)	792.98	242.90
33 14 13 13-0576	EA	16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC)	977.83	263.24
33 14 13 13-0577	EA	18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC)	1,255.08	315.89
33 14 13 13-0578	EA	20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC)	1,481.74	350.83
33 14 13 13-0579	EA	24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC)	1,925.08	404.79
33 14 13 13-0580	EA	30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC)	3,742.29	485.44
33 14 13 13-0581	EA	36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC)	4,621.20	607.48
33 14 13 13-0582	EA	42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC)	6,823.45	700.93
33 14 13 13-0583	EA	48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC)	8,738.12	901.48
33 14 13 13-0584		Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) *(33 14 13 13-0002)*		
33 14 13 13-0585	EA	3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	4,640.75	65.18
33 14 13 13-0586	EA	4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	4,831.99	81.47
33 14 13 13-0587	EA	6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	7,011.52	120.41
33 14 13 13-0588	EA	8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	9,528.84	142.82
33 14 13 13-0589	EA	10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	12,010.43	157.59
33 14 13 13-0590	EA	12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	16,020.02	184.87
33 14 13 13-0591	EA	14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	19,735.27	207.30
33 14 13 13-0592	EA	16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	23,347.97	236.91
33 14 13 13-0593	EA	18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	26,321.08	331.68
33 14 13 13-0594	EA	20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	35,410.91	414.61
33 14 13 13-0595	EA	24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	49,066.55	552.80

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0596		**Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series)** *(33 14 13 13-0002)*		
		Note: Includes machined bolts and gasket.		
33 14 13 13-0597	EA	3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM)	215.49	79.64
33 14 13 13-0598	EA	4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM)	276.49	94.33
33 14 13 13-0599	EA	6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM)	357.24	116.74
33 14 13 13-0600	EA	8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM)	407.78	136.24
33 14 13 13-0601	EA	10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM)	715.67	208.91
33 14 13 13-0602	EA	12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM)	809.99	238.79
33 14 13 13-0603		**Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series)** *(33 14 13 13-0002)*		
		Note: Includes nuts, bolts and gasket.		
33 14 13 13-0604	EA	3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300)	313.54	79.64
33 14 13 13-0605	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400)	389.94	94.33
33 14 13 13-0606	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600)	539.63	116.74
33 14 13 13-0607	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800)	779.69	136.24
33 14 13 13-0608	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000)	1,129.75	208.91
33 14 13 13-0609	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200)	1,404.32	238.79
33 14 13 13-0610	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400)	2,162.02	257.02
33 14 13 13-0611	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600)	3,028.66	278.55
33 14 13 13-0612	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800)	3,425.94	334.25
33 14 13 13-0613	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000)	3,784.43	371.23
33 14 13 13-0614	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400)	4,577.91	428.33
33 14 13 13-0615	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000)	5,889.16	513.66
33 14 13 13-0616	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600)	8,794.19	642.80
33 14 13 13-0617	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200)	22,923.76	741.69
33 14 13 13-0618	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800)	29,362.13	953.90
33 14 13 13-0619		**Mechanical Joint x Restrained Plain End Ductile Iron Flexible Ball Joint** *(33 14 13 13-0002)*		
		Note: All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.		
33 14 13 13-0620	EA	4" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	1,314.33	122.56
33 14 13 13-0621	EA	6" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	2,088.26	153.20
33 14 13 13-0622	EA	8" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	2,768.94	175.10
33 14 13 13-0623	EA	10" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	3,823.71	263.24
33 14 13 13-0624	EA	12" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	5,000.21	287.17
33 14 13 13-0625	EA	14" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	5,791.24	315.89
33 14 13 13-0626	EA	16" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	6,437.17	350.95
33 14 13 13-0627	EA	18" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	9,209.44	394.86
33 14 13 13-0628	EA	20" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	9,409.66	451.21
33 14 13 13-0629	EA	24" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	16,441.81	526.48
33 14 13 13-0630	EA	30" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	57,555.77	631.77
33 14 13 13-0631	EA	36" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	81,718.44	789.72
33 14 13 13-0632		**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping** *(33 14 13 13-0001)*		
		See CSI section 33 14 13 13-0521 for bolts and gaskets.		
33 14 13 13-0633		**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow** *(33 14 13 13-0632)*		
33 14 13 13-0634	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	487.12	45.45
33 14 13 13-0635	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	583.02	54.44
33 14 13 13-0636	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	905.02	79.76
33 14 13 13-0637	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,238.06	94.96
33 14 13 13-0638	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,698.60	105.30
33 14 13 13-0639	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,154.17	123.24
33 14 13 13-0640	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,064.45	138.79
33 14 13 13-0641	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,718.81	157.94
33 14 13 13-0642	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,491.92	221.36
33 14 13 13-0643	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,598.74	276.40
33 14 13 13-0644	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	7,917.32	368.53
33 14 13 13-0645	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	12,688.16	394.86
33 14 13 13-0646	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	18,697.94	410.42
33 14 13 13-0647	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	30,817.95	473.83
33 14 13 13-0648	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	40,320.48	503.74
33 14 13 13-0649		**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow** *(33 14 13 13-0632)*		
33 14 13 13-0650	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	465.52	45.45
33 14 13 13-0651	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	545.71	54.44
33 14 13 13-0652	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	840.22	79.76
33 14 13 13-0653	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,137.91	94.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0654	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,486.53	105.30
33 14 13 13-0655	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,963.70	123.24
33 14 13 13-0656	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,656.03	138.79
33 14 13 13-0657	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,180.78	157.94
33 14 13 13-0658	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,759.50	221.36
33 14 13 13-0659	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,563.92	276.40
33 14 13 13-0660	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	6,014.59	368.53
33 14 13 13-0661	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	11,083.89	394.86
33 14 13 13-0662	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	15,334.29	410.42
33 14 13 13-0663	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	22,794.68	473.83
33 14 13 13-0664	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	29,186.87	503.74
33 14 13 13-0665		**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow** *(33 14 13 13-0632)*		
33 14 13 13-0666	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	361.45	45.45
33 14 13 13-0667	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	539.82	54.44
33 14 13 13-0668	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	816.65	79.76
33 14 13 13-0669	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,130.06	94.96
33 14 13 13-0670	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,484.57	105.30
33 14 13 13-0671	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,849.81	123.24
33 14 13 13-0672	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,671.73	138.79
33 14 13 13-0673	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,110.09	157.94
33 14 13 13-0674	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,741.83	221.36
33 14 13 13-0675	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,726.90	276.40
33 14 13 13-0676	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	5,885.00	368.53
33 14 13 13-0677	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	9,860.57	394.86
33 14 13 13-0678	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	13,468.87	410.42
33 14 13 13-0679	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	19,281.80	473.83
33 14 13 13-0680	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	24,696.12	503.74
33 14 13 13-0681		**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow** *(33 14 13 13-0632)*		
33 14 13 13-0682	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	361.45	45.45
33 14 13 13-0683	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	647.82	54.44
33 14 13 13-0684	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	824.51	79.76
33 14 13 13-0685	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,094.71	94.96
33 14 13 13-0686	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,480.64	105.30
33 14 13 13-0687	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,796.79	123.24
33 14 13 13-0688	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,877.91	138.79
33 14 13 13-0689	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,206.31	157.94
33 14 13 13-0690	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,299.49	221.36
33 14 13 13-0691	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,558.03	276.40
33 14 13 13-0692	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	5,886.96	368.53
33 14 13 13-0693	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	9,990.17	394.86
33 14 13 13-0694	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	13,097.75	410.42
33 14 13 13-0695	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	18,751.63	473.83
33 14 13 13-0696	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	24,554.74	503.74
33 14 13 13-0697		**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow** *(33 14 13 13-0632)*		
33 14 13 13-0698	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	426.25	45.45
33 14 13 13-0699	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	628.18	54.44
33 14 13 13-0700	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	979.63	79.76
33 14 13 13-0701	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,332.31	94.96
33 14 13 13-0702	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,836.05	105.30
33 14 13 13-0703	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,305.36	123.24
33 14 13 13-0704	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,150.33	138.79
33 14 13 13-0705	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,481.59	157.94
33 14 13 13-0706	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	7,403.94	221.36
33 14 13 13-0707	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	8,532.36	276.40
33 14 13 13-0708	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	9,221.15	368.53
33 14 13 13-0709		**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow** *(33 14 13 13-0632)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0710	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	426.25	45.45
33 14 13 13-0711	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	553.55	54.44
33 14 13 13-0712	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	871.65	79.76
33 14 13 13-0713	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,234.13	94.96
33 14 13 13-0714	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,637.73	105.30
33 14 13 13-0715	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,132.57	123.24
33 14 13 13-0716	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,844.53	138.79
33 14 13 13-0717	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	3,418.38	157.94
33 14 13 13-0718	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,402.50	221.36
33 14 13 13-0719	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,714.06	276.40
33 14 13 13-0720	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,986.58	368.53

33 14 13 13-0721 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee *(33 14 13 13-0632)*

33 14 13 13-0722	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	600.11	68.19
33 14 13 13-0723	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	654.52	76.88
33 14 13 13-0724	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	690.99	79.76
33 14 13 13-0725	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	985.77	101.11
33 14 13 13-0726	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,068.67	105.08
33 14 13 13-0727	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,126.93	117.75
33 14 13 13-0728	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,311.98	121.54
33 14 13 13-0729	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,419.33	134.21
33 14 13 13-0730	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,561.60	143.07
33 14 13 13-0731	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,762.82	130.42
33 14 13 13-0732	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,759.16	142.39
33 14 13 13-0733	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,906.63	150.77
33 14 13 13-0734	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,057.60	157.94
33 14 13 13-0735	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,122.51	145.98
33 14 13 13-0736	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,140.45	157.94
33 14 13 13-0737	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,315.41	166.32
33 14 13 13-0738	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,670.60	173.50
33 14 13 13-0739	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,676.67	181.88
33 14 13 13-0740	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,034.22	184.27
33 14 13 13-0741	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,283.81	192.64
33 14 13 13-0742	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,988.51	199.83
33 14 13 13-0743	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,210.57	208.20
33 14 13 13-0744	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,898.54	221.36
33 14 13 13-0745	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,629.84	221.36
33 14 13 13-0746	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,826.50	228.54
33 14 13 13-0747	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,594.04	236.91
33 14 13 13-0748	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,307.55	244.09
33 14 13 13-0749	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	5,625.29	257.25
33 14 13 13-0750	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	5,085.66	276.40
33 14 13 13-0751	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,766.34	283.58
33 14 13 13-0752	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	5,027.71	290.76
33 14 13 13-0753	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	5,359.33	297.94
33 14 13 13-0754	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	5,665.84	306.31
33 14 13 13-0755	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	5,821.12	319.47
33 14 13 13-0756	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,220.10	337.42
33 14 13 13-0757	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,944.42	368.53
33 14 13 13-0758	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	5,472.79	405.63
33 14 13 13-0759	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	5,565.27	414.01
33 14 13 13-0760	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,118.79	421.18
33 14 13 13-0761	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,421.36	429.56
33 14 13 13-0762	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,484.36	442.72
33 14 13 13-0763	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,400.29	460.67
33 14 13 13-0764	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,190.84	491.78
33 14 13 13-0765	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,972.21	552.80
33 14 13 13-0766	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,640.11	527.68
33 14 13 13-0767	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,703.13	537.25
33 14 13 13-0768	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,824.65	543.23
33 14 13 13-0769	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	7,005.47	551.60
33 14 13 13-0770	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	7,973.69	564.76
33 14 13 13-0771	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,317.71	582.71
33 14 13 13-0772	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	10,245.70	613.82
33 14 13 13-0773	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	10,574.38	676.04
33 14 13 13-0774	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	9,911.14	737.07
33 14 13 13-0775	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	11,649.51	615.02
33 14 13 13-0776	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	11,088.12	623.40
33 14 13 13-0777	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	11,722.13	630.57

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0778	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	12,358.52	638.96
33 14 13 13-0779	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	13,261.95	652.12
33 14 13 13-0780	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	14,236.26	867.50
33 14 13 13-0781	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	14,169.24	701.17
33 14 13 13-0782	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	14,146.43	762.20
33 14 13 13-0783	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	14,735.97	823.22
33 14 13 13-0784	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	17,601.98	867.50
33 14 13 13-0785	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	12,018.01	691.61
33 14 13 13-0786	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	13,455.15	698.78
33 14 13 13-0787	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	14,230.95	707.16
33 14 13 13-0788	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	14,778.96	720.32
33 14 13 13-0789	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	15,329.13	738.27
33 14 13 13-0790	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	16,389.22	769.38
33 14 13 13-0791	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	17,497.45	830.40
33 14 13 13-0792	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	19,390.82	891.42
33 14 13 13-0793	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	21,907.32	969.19
33 14 13 13-0794	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	25,253.85	969.19
33 14 13 13-0795	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	28,795.72	745.44
33 14 13 13-0796	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	29,375.16	757.42
33 14 13 13-0797	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	32,313.07	776.55
33 14 13 13-0798	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	36,840.87	807.66
33 14 13 13-0799	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	36,933.91	868.69
33 14 13 13-0800	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	30,527.15	929.71
33 14 13 13-0801	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	31,070.22	973.98
33 14 13 13-0802	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	38,516.75	1,007.49
33 14 13 13-0803	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	40,603.45	1,026.63
33 14 13 13-0804	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	33,588.53	805.28
33 14 13 13-0805	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	34,191.52	818.44
33 14 13 13-0806	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	35,048.01	837.58
33 14 13 13-0807	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	35,917.63	867.50
33 14 13 13-0808	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	36,839.31	929.71
33 14 13 13-0809	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	37,042.03	990.74
33 14 13 13-0810	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	39,776.48	1,033.82
33 14 13 13-0811	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	31,959.94	1,068.51
33 14 13 13-0812	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	40,110.24	1,087.65
33 14 13 13-0813	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	53,479.24	1,117.57

33 14 13 13-0814 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) *(33 14 13 13-0632)*

33 14 13 13-0815	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	673.13	76.21
33 14 13 13-0816	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	741.86	76.21
33 14 13 13-0817	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	871.64	79.76
33 14 13 13-0818	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	960.24	101.11
33 14 13 13-0819	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,072.59	105.08
33 14 13 13-0820	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,313.47	117.75
33 14 13 13-0821	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,730.22	121.54
33 14 13 13-0822	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,592.13	134.21
33 14 13 13-0823	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,791.34	143.07
33 14 13 13-0824	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,546.30	130.42
33 14 13 13-0825	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,650.63	142.39
33 14 13 13-0826	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,966.97	150.77
33 14 13 13-0827	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,239.69	157.94
33 14 13 13-0828	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,110.21	145.98
33 14 13 13-0829	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,528.72	157.94
33 14 13 13-0830	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,180.83	166.32
33 14 13 13-0831	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,182.58	173.50
33 14 13 13-0832	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,854.83	181.88
33 14 13 13-0833	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,589.39	184.27
33 14 13 13-0834	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,280.79	192.64
33 14 13 13-0835	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,971.22	199.83
33 14 13 13-0836	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,478.00	208.20
33 14 13 13-0837	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,281.83	221.36
33 14 13 13-0838	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,770.79	221.36
33 14 13 13-0839	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,273.67	228.54
33 14 13 13-0840	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,268.99	236.91
33 14 13 13-0841	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,467.51	244.09
33 14 13 13-0842	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,022.84	257.25
33 14 13 13-0843	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,579.43	276.40
33 14 13 13-0844	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,769.21	283.58
33 14 13 13-0845	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,305.49	290.76
33 14 13 13-0846	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,823.64	297.94
33 14 13 13-0847	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,385.42	306.31
33 14 13 13-0848	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,468.06	319.47
33 14 13 13-0849	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,560.71	337.42
33 14 13 13-0850	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,741.64	368.53
33 14 13 13-0851	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,950.85	405.63
33 14 13 13-0852	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,125.81	414.01
33 14 13 13-0853	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,962.08	421.18
33 14 13 13-0854	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,790.90	429.56
33 14 13 13-0855	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,879.42	442.72

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0856	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,981.90	460.67
33 14 13 13-0857	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,611.43	491.78
33 14 13 13-0858	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,903.33	552.80
33 14 13 13-0859	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,626.74	527.68
33 14 13 13-0860	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,750.64	536.05
33 14 13 13-0861	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,916.79	543.23
33 14 13 13-0862	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,445.17	551.60
33 14 13 13-0863	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,293.08	564.76
33 14 13 13-0864	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	14,819.19	582.71
33 14 13 13-0865	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,623.47	613.82
33 14 13 13-0866	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,263.84	676.04
33 14 13 13-0867	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,053.29	737.07
33 14 13 13-0868	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,403.24	615.02
33 14 13 13-0869	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,948.26	623.40
33 14 13 13-0870	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	24,312.73	630.57
33 14 13 13-0871	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	25,679.59	638.96
33 14 13 13-0872	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,615.87	652.12
33 14 13 13-0873	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	29,695.68	670.06
33 14 13 13-0874	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	30,429.81	701.17
33 14 13 13-0875	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	31,483.05	762.20
33 14 13 13-0876	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	32,960.14	823.22
33 14 13 13-0877	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,751.54	867.50
33 14 13 13-0878	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	39,498.55	707.16
33 14 13 13-0879	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	41,063.71	720.32
33 14 13 13-0880	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	42,617.28	738.27
33 14 13 13-0881	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	45,619.37	769.38
33 14 13 13-0882	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	48,679.42	830.40
33 14 13 13-0883	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	54,030.69	891.42
33 14 13 13-0884	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	60,598.09	935.70
33 14 13 13-0885	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	72,484.32	969.19
33 14 13 13-0886	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	63,764.54	868.69
33 14 13 13-0887	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	65,312.33	929.71
33 14 13 13-0888	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	69,788.48	973.98
33 14 13 13-0889	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	79,927.11	1,007.49
33 14 13 13-0890	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	94,453.22	1,026.63
33 14 13 13-0891	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	62,823.63	929.71
33 14 13 13-0892	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	71,222.42	990.74
33 14 13 13-0893	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	75,932.25	1,033.82
33 14 13 13-0894	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	86,681.54	1,068.51
33 14 13 13-0895	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	113,686.33	1,087.65
33 14 13 13-0896	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	124,899.30	1,117.57

33 14 13 13-0897 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee *(33 14 13 13-0632)*

33 14 13 13-0898	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,199.58	117.75
33 14 13 13-0899	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,493.95	134.21
33 14 13 13-0900	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,151.88	142.39
33 14 13 13-0901	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,478.19	157.94
33 14 13 13-0902	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,283.60	184.27
33 14 13 13-0903	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,001.06	221.36
33 14 13 13-0904	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,717.25	283.58
33 14 13 13-0905	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	6,334.81	405.63
33 14 13 13-0906	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	7,385.28	527.68
33 14 13 13-0907	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	13,493.33	615.02

33 14 13 13-0908 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross *(33 14 13 13-0632)*

33 14 13 13-0909	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	665.96	90.92
33 14 13 13-0910	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	835.21	98.93
33 14 13 13-0911	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,049.32	100.03
33 14 13 13-0912	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,108.82	124.00
33 14 13 13-0913	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,300.23	134.21
33 14 13 13-0914	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,431.39	167.13
33 14 13 13-0915	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,380.11	146.87
33 14 13 13-0916	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,625.15	179.79
33 14 13 13-0917	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,604.89	192.45
33 14 13 13-0918	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,625.53	153.16
33 14 13 13-0919	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,818.69	184.27
33 14 13 13-0920	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,166.54	196.23

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0921	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,347.54	210.59
33 14 13 13-0922	EA	12 x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,097.06	166.32
33 14 13 13-0923	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,425.72	197.43
33 14 13 13-0924	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,634.15	209.39
33 14 13 13-0925	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,078.27	223.75
33 14 13 13-0926	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,520.36	236.91
33 14 13 13-0927	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,647.52	216.58
33 14 13 13-0928	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,333.11	228.54
33 14 13 13-0929	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,435.57	244.09
33 14 13 13-0930	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,681.29	256.06
33 14 13 13-0931	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,190.31	276.40
33 14 13 13-0932	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,082.09	245.29
33 14 13 13-0933	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,677.35	256.06
33 14 13 13-0934	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,651.64	271.61
33 14 13 13-0935	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,325.45	284.78
33 14 13 13-0936	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,696.49	303.92
33 14 13 13-0937	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,028.95	331.45
33 14 13 13-0938	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,087.30	289.56
33 14 13 13-0939	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,499.96	301.52
33 14 13 13-0940	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,851.80	315.89
33 14 13 13-0941	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,533.44	329.05
33 14 13 13-0942	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,008.55	348.20
33 14 13 13-0943	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,645.37	375.71
33 14 13 13-0944	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,107.73	421.18
33 14 13 13-0945	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,911.28	363.75
33 14 13 13-0946	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,327.85	374.52
33 14 13 13-0947	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,610.97	390.07
33 14 13 13-0948	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,286.73	403.23
33 14 13 13-0949	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,450.15	422.38
33 14 13 13-0950	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,730.50	449.90
33 14 13 13-0951	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,192.85	494.18
33 14 13 13-0952	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,227.46	568.36
33 14 13 13-0953	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,210.76	454.69
33 14 13 13-0954	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,494.16	466.65
33 14 13 13-0955	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,975.23	481.01
33 14 13 13-0956	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,389.84	494.18
33 14 13 13-0957	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,616.09	513.31
33 14 13 13-0958	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,121.36	540.84
33 14 13 13-0959	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,864.37	586.31
33 14 13 13-0960	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,830.24	659.30
33 14 13 13-0961	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,814.11	750.23
33 14 13 13-0962	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,976.46	604.25
33 14 13 13-0963	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,351.86	618.61
33 14 13 13-0964	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,721.30	631.77
33 14 13 13-0965	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,155.69	650.92
33 14 13 13-0966	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,651.13	679.63
33 14 13 13-0967	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,221.50	723.91
33 14 13 13-0968	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,934.07	796.90
33 14 13 13-0969	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,318.36	889.03
33 14 13 13-0970	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	32,558.58	1,026.63
33 14 13 13-0971	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,652.61	654.51
33 14 13 13-0972	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,024.09	668.87
33 14 13 13-0973	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,344.44	682.03
33 14 13 13-0974	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,723.85	702.37
33 14 13 13-0975	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,166.27	729.89
33 14 13 13-0976	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,683.62	774.16
33 14 13 13-0977	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,347.10	848.35
33 14 13 13-0978	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,535.70	939.28
33 14 13 13-0979	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,299.00	1,076.89
33 14 13 13-0980	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,426.94	1,128.34
33 14 13 13-0981	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	35,922.78	711.94
33 14 13 13-0982	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	36,669.39	731.09
33 14 13 13-0983	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,098.07	759.80
33 14 13 13-0984	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,690.02	804.08
33 14 13 13-0985	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	38,759.96	878.26
33 14 13 13-0986	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,044.26	969.19
33 14 13 13-0987	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,922.50	1,106.80
33 14 13 13-0988	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	65,462.88	1,157.06
33 14 13 13-0989	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	70,194.54	1,186.97
33 14 13 13-0990	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	48,690.20	829.20
33 14 13 13-0991	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,006.78	848.35
33 14 13 13-0992	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,429.58	875.87
33 14 13 13-0993	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,880.14	920.15
33 14 13 13-0994	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	50,472.94	994.33
33 14 13 13-0995	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	51,518.21	1,085.26
33 14 13 13-0996	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	54,456.56	1,222.87
33 14 13 13-0997	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	66,929.79	1,274.32
33 14 13 13-0998	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	86,358.99	1,304.23
33 14 13 13-0999	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	91,943.55	1,420.30

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1000		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers *(33 14 13 13-0632)*		
33 14 13 13-1001	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	477.49	49.47
33 14 13 13-1002	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	669.27	62.00
33 14 13 13-1003	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	736.24	65.84
33 14 13 13-1004	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	968.94	74.70
33 14 13 13-1005	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,005.47	87.36
33 14 13 13-1006	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,188.22	77.77
33 14 13 13-1007	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,241.51	89.74
33 14 13 13-1008	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,290.79	98.12
33 14 13 13-1009	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,374.93	86.15
33 14 13 13-1010	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,520.52	98.12
33 14 13 13-1011	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,544.29	105.30
33 14 13 13-1012	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,612.78	113.67
33 14 13 13-1013	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,388.59	111.28
33 14 13 13-1014	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,400.58	118.46
33 14 13 13-1015	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,084.21	126.83
33 14 13 13-1016	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,125.63	134.02
33 14 13 13-1017	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,864.15	129.23
33 14 13 13-1018	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,775.99	137.61
33 14 13 13-1019	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,602.97	144.78
33 14 13 13-1020	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,569.77	151.96
33 14 13 13-1021	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,907.67	165.12
33 14 13 13-1022	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,107.58	167.52
33 14 13 13-1023	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,507.92	175.89
33 14 13 13-1024	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,347.11	183.07
33 14 13 13-1025	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,007.04	196.23
33 14 13 13-1026	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,498.83	215.38
33 14 13 13-1027	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,137.26	229.74
33 14 13 13-1028	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,168.45	236.91
33 14 13 13-1029	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,779.85	245.29
33 14 13 13-1030	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,774.12	258.45
33 14 13 13-1031	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,676.31	276.40
33 14 13 13-1032	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,353.49	307.51
33 14 13 13-1033	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,207.85	306.31
33 14 13 13-1034	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,282.64	319.47
33 14 13 13-1035	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,373.32	337.42
33 14 13 13-1036	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,282.74	368.53
33 14 13 13-1037	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,092.50	429.56
33 14 13 13-1038	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,543.17	380.50
33 14 13 13-1039	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,945.44	411.61
33 14 13 13-1040	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,563.30	473.83

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1041	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	8,073.39	534.85
33 14 13 13-1042	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	12,585.83	507.34
33 14 13 13-1043	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	11,675.19	568.36
33 14 13 13-1044	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	12,463.71	612.63
33 14 13 13-1045	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	18,697.42	434.34
33 14 13 13-1046	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	18,579.34	465.45
33 14 13 13-1047	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	18,611.52	526.48
33 14 13 13-1048	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	19,330.66	587.50
33 14 13 13-1049	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	15,759.99	631.77
33 14 13 13-1050	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	16,491.01	665.28
33 14 13 13-1051	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	23,583.66	464.26
33 14 13 13-1052	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	22,809.74	495.37
33 14 13 13-1053	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	21,642.15	556.39
33 14 13 13-1054	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	22,263.13	618.61
33 14 13 13-1055	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	26,698.05	661.68
33 14 13 13-1056	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	23,058.08	695.19
33 14 13 13-1057	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	25,372.56	714.33

33 14 13 13-1058 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps *(33 14 13 13-0632)*

33 14 13 13-1059	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	427.28	104.46
33 14 13 13-1060	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	515.58	122.81
33 14 13 13-1061	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	758.36	153.20
33 14 13 13-1062	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,021.27	174.73
33 14 13 13-1063	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,351.19	263.24
33 14 13 13-1064	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,711.45	287.17
33 14 13 13-1065	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,947.39	315.89
33 14 13 13-1066	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,375.61	350.58
33 14 13 13-1067	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,785.72	394.86
33 14 13 13-1068	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	3,364.05	451.09
33 14 13 13-1069	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	4,322.35	526.48
33 14 13 13-1070	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	7,898.56	631.77
33 14 13 13-1071	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	12,989.93	789.72
33 14 13 13-1072	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	18,754.80	947.66
33 14 13 13-1073	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	22,344.75	1,052.95

33 14 13 13-1074 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug *(33 14 13 13-0632)*

33 14 13 13-1075	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	429.25	104.46
33 14 13 13-1076	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	535.22	122.81
33 14 13 13-1077	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	809.42	153.20
33 14 13 13-1078	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	1,072.32	174.73
33 14 13 13-1079	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	1,643.76	263.24
33 14 13 13-1080	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	1,778.21	287.17
33 14 13 13-1081	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	2,373.49	315.89
33 14 13 13-1082	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	2,868.47	350.58
33 14 13 13-1083	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	3,416.04	394.86
33 14 13 13-1084	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	4,216.26	451.09
33 14 13 13-1085	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	5,535.86	526.48
33 14 13 13-1086	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	9,575.47	631.77
33 14 13 13-1087	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	14,032.60	789.72
33 14 13 13-1088	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	18,886.36	947.66
33 14 13 13-1089	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	25,135.03	1,052.95

33 14 13 13-1090 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters *(33 14 13 13-0632)*

33 14 13 13-1091	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	580.26	158.77
33 14 13 13-1092	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	771.41	183.59

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1093	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,064.89	230.43
33 14 13 13-1094	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,405.26	262.09
33 14 13 13-1095	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,067.04	394.86
33 14 13 13-1096	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,474.88	430.76
33 14 13 13-1097	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,250.97	473.83
33 14 13 13-1098	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,692.04	526.48
33 14 13 13-1099	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	4,859.95	592.29
33 14 13 13-1100	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	5,638.10	677.24
33 14 13 13-1101	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	6,830.12	789.72
33 14 13 13-1102	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	10,792.40	947.66
33 14 13 13-1103	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	14,697.64	1,184.57
33 14 13 13-1104	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	20,039.76	1,353.29
33 14 13 13-1105	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	24,923.43	1,579.44

33 14 13 13-1106 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves *(33 14 13 13-0632)*

33 14 13 13-1107	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	603.83	158.77
33 14 13 13-1108	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	741.96	183.59
33 14 13 13-1109	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,098.28	230.43
33 14 13 13-1110	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,495.58	262.09
33 14 13 13-1111	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,941.37	394.86
33 14 13 13-1112	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,357.06	430.76
33 14 13 13-1113	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,999.63	473.83
33 14 13 13-1114	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,558.51	526.48
33 14 13 13-1115	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,255.17	592.29
33 14 13 13-1116	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,956.73	677.24
33 14 13 13-1117	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	6,205.69	789.72
33 14 13 13-1118	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	10,468.41	947.66
33 14 13 13-1119	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	13,615.69	1,184.57
33 14 13 13-1120	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	17,755.72	1,352.09
33 14 13 13-1121	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	26,445.22	1,579.44

33 14 13 13-1122 Push-On Joint Ductile Iron Piping And Gaskets *(33 14 13 13-0001)*

33 14 13 13-1123 Push-On Joint Ductile Iron Pipe *(33 14 13 13-1122)*

Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.

33 14 13 13-1124	LF	4", Class 50, Push-On Joint Ductile Iron Pipe	38.74	10.45
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*16.04*	
		For Cement Mortar Lining (CML), Add	*2.29*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*12.38*	
		For Fusion Bonded Epoxy Lining (206N), Add	*4.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1.72*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*10.89*	
		For >1,000, Deduct	*-1.94*	
		For Class 51, Add	*3.32*	
		For Class 52, Add	*7.16*	
		For Class 53, Add	*12.88*	
		For Class 54, Add	*18.36*	
		For Class 55, Add	*21.12*	
		For Class 56, Add	*23.84*	
33 14 13 13-1125	LF	6", Class 50, Push-On Joint Ductile Iron Pipe	42.50	11.52
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*17.61*	
		For Cement Mortar Lining (CML), Add	*2.52*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*13.58*	
		For Fusion Bonded Epoxy Lining (206N), Add	*4.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1.89*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*11.95*	
		For >1,000, Deduct	*-2.13*	
		For Class 51, Add	*3.64*	
		For Class 52, Add	*7.86*	
		For Class 53, Add	*14.13*	
		For Class 54, Add	*20.14*	
		For Class 55, Add	*23.18*	
		For Class 56, Add	*26.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1126	LF	8", Class 50, Push-On Joint Ductile Iron Pipe	53.36	12.66
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*24.06*	
		For Cement Mortar Lining (CML), Add	*3.44*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*18.56*	
		For Fusion Bonded Epoxy Lining (206N), Add	*6.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2.58*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*16.33*	
		For >1,000, Deduct	*-2.67*	
		For Class 51, Add	*4.92*	
		For Class 52, Add	*10.62*	
		For Class 53, Add	*19.13*	
		For Class 54, Add	*27.29*	
		For Class 55, Add	*31.38*	
		For Class 56, Add	*35.40*	
33 14 13 13-1127	LF	10", Class 50, Push-On Joint Ductile Iron Pipe	75.41	17.83
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*29.09*	
		For Cement Mortar Lining (CML), Add	*4.85*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*24.25*	
		For Fusion Bonded Epoxy Lining (206N), Add	*8.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3.64*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*23.03*	
		For >1,000, Deduct	*-3.77*	
		For Class 51, Add	*6.95*	
		For Class 52, Add	*14.98*	
		For Class 53, Add	*27.00*	
		For Class 54, Add	*38.51*	
		For Class 55, Add	*44.28*	
		For Class 56, Add	*49.95*	
33 14 13 13-1128	LF	12", Class 50, Push-On Joint Ductile Iron Pipe	87.72	19.75
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*28.91*	
		For Cement Mortar Lining (CML), Add	*5.78*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*23.12*	
		For Fusion Bonded Epoxy Lining (206N), Add	*10.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.34*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*27.46*	
		For >1,000, Deduct	*-4.39*	
		For Class 51, Add	*8.25*	
		For Class 52, Add	*17.81*	
		For Class 53, Add	*32.10*	
		For Class 54, Add	*45.80*	
		For Class 55, Add	*52.66*	
		For Class 56, Add	*59.39*	
33 14 13 13-1129	LF	14", Class 50, Push-On Joint Ductile Iron Pipe	107.32	22.25
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*32.42*	
		For Cement Mortar Lining (CML), Add	*7.37*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*25.05*	
		For Fusion Bonded Epoxy Lining (206N), Add	*13.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.53*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*35.00*	
		For >1,000, Deduct	*-5.37*	
		For Class 51, Add	*10.46*	
		For Class 52, Add	*22.59*	
		For Class 53, Add	*40.75*	
		For Class 54, Add	*58.16*	
		For Class 55, Add	*66.84*	
		For Class 56, Add	*75.36*	
33 14 13 13-1130	LF	16", Class 50, Push-On Joint Ductile Iron Pipe	127.37	25.37
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*36.48*	
		For Cement Mortar Lining (CML), Add	*8.90*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*27.58*	
		For Fusion Bonded Epoxy Lining (206N), Add	*16.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.67*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*42.26*	
		For >1,000, Deduct	*-6.37*	
		For Class 51, Add	*12.61*	
		For Class 52, Add	*27.22*	
		For Class 53, Add	*49.12*	
		For Class 54, Add	*70.11*	
		For Class 55, Add	*80.56*	
		For Class 56, Add	*90.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1131	LF	18", Class 50, Push-On Joint Ductile Iron Pipe	148.20	29.68
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*42.37*	
		For Cement Mortar Lining (CML), Add	*10.33*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*32.03*	
		For Fusion Bonded Epoxy Lining (206N), Add	*18.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*7.75*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*49.08*	
		For >1,000, Deduct	*-7.41*	
		For Class 51, Add	*14.64*	
		For Class 52, Add	*31.61*	
		For Class 53, Add	*57.06*	
		For Class 54, Add	*81.44*	
		For Class 55, Add	*93.58*	
		For Class 56, Add	*105.51*	
33 14 13 13-1132	LF	20", Class 50, Push-On Joint Ductile Iron Pipe	170.74	35.53
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*44.42*	
		For Cement Mortar Lining (CML), Add	*11.69*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*32.73*	
		For Fusion Bonded Epoxy Lining (206N), Add	*21.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.77*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*55.52*	
		For >1,000, Deduct	*-8.54*	
		For Class 51, Add	*16.61*	
		For Class 52, Add	*35.84*	
		For Class 53, Add	*64.66*	
		For Class 54, Add	*92.28*	
		For Class 55, Add	*106.05*	
		For Class 56, Add	*119.58*	
33 14 13 13-1133	LF	24", Class 50, Push-On Joint Ductile Iron Pipe	216.08	44.39
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*46.10*	
		For Cement Mortar Lining (CML), Add	*14.87*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*31.23*	
		For Fusion Bonded Epoxy Lining (206N), Add	*26.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.15*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	*70.64*	
		For >1,000, Deduct	*-10.80*	
		For Class 51, Add	*21.11*	
		For Class 52, Add	*45.57*	
		For Class 53, Add	*82.23*	
		For Class 54, Add	*117.35*	
		For Class 55, Add	*134.86*	
		For Class 56, Add	*152.06*	
33 14 13 13-1134	LF	30", Class 50, Push-On Joint Ductile Iron Pipe	256.90	47.38
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*57.38*	
		For Cement Mortar Lining (CML), Add	*18.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*33.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*13.88*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-12.85*	
		For Class 51, Add	*26.13*	
		For Class 52, Add	*56.42*	
		For Class 53, Add	*101.89*	
		For Class 54, Add	*145.45*	
		For Class 55, Add	*167.10*	
		For Class 56, Add	*188.36*	
33 14 13 13-1135	LF	36", Class 50, Push-On Joint Ductile Iron Pipe	320.01	50.38
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*75.54*	
		For Cement Mortar Lining (CML), Add	*24.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*43.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.28*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-16.00*	
		For Class 51, Add	*34.17*	
		For Class 52, Add	*73.82*	
		For Class 53, Add	*133.45*	
		For Class 54, Add	*190.57*	
		For Class 55, Add	*218.84*	
		For Class 56, Add	*246.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1136	LF	42", Class 50, Push-On Joint Ductile Iron Pipe	391.48	53.37
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*96.32*	
		For Cement Mortar Lining (CML), Add	*31.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*55.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*23.30*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-19.57*	
		For Class 51, Add	*43.36*	
		For Class 52, Add	*93.71*	
		For Class 53, Add	*169.54*	
		For Class 54, Add	*242.17*	
		For Class 55, Add	*278.01*	
		For Class 56, Add	*313.19*	
33 14 13 13-1137	LF	48", Class 50, Push-On Joint Ductile Iron Pipe	472.66	56.24
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*120.08*	
		For Cement Mortar Lining (CML), Add	*38.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*69.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*29.05*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-23.63*	
		For Class 51, Add	*53.86*	
		For Class 52, Add	*116.44*	
		For Class 53, Add	*210.78*	
		For Class 54, Add	*301.13*	
		For Class 55, Add	*345.62*	
		For Class 56, Add	*389.29*	
33 14 13 13-1138	LF	54", Class 50, Push-On Joint Ductile Iron Pipe	601.41	59.23
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*158.62*	
		For Cement Mortar Lining (CML), Add	*51.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*92.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*38.38*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-30.07*	
		For Class 51, Add	*70.86*	
		For Class 52, Add	*153.24*	
		For Class 53, Add	*277.57*	
		For Class 54, Add	*396.63*	
		For Class 55, Add	*455.11*	
		For Class 56, Add	*512.52*	

33 14 13 13-1139 Push-On Joint Ductile Iron 90 Degree Elbow *(33 14 13 13-1122)*

33 14 13 13-1140	EA	4" 90 Degree Elbow, Push-On Joint Ductile Iron	299.41	40.77
		For Cement Mortar Lining (CML), Add	*23.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*42.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*17.82*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*142.57*	
33 14 13 13-1141	EA	6" 90 Degree Elbow, Push-On Joint Ductile Iron	433.70	60.14
		For Cement Mortar Lining (CML), Add	*34.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*61.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*25.69*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*205.52*	
33 14 13 13-1142	EA	8" 90 Degree Elbow, Push-On Joint Ductile Iron	583.38	71.41
		For Cement Mortar Lining (CML), Add	*47.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*85.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*35.63*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*285.08*	
33 14 13 13-1143	EA	10" 90 Degree Elbow, Push-On Joint Ductile Iron	881.13	78.74
		For Cement Mortar Lining (CML), Add	*71.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*129.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*53.87*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*430.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1144	EA	12" 90 Degree Elbow, Push-On Joint Ductile Iron	1,141.22	92.37
		For Cement Mortar Lining (CML), Add	*95.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*171.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*71.27*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*570.19*	
33 14 13 13-1145	EA	14" 90 Degree Elbow, Push-On Joint Ductile Iron	2,298.41	103.62
		For Cement Mortar Lining (CML), Add	*208.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*375.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*156.31*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*1,250.50*	
33 14 13 13-1146	EA	16" 90 Degree Elbow, Push-On Joint Ductile Iron	2,597.67	118.46
		For Cement Mortar Lining (CML), Add	*235.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*423.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*176.47*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*1,411.75*	
33 14 13 13-1147	EA	18" 90 Degree Elbow, Push-On Joint Ductile Iron	4,055.75	165.84
		For Cement Mortar Lining (CML), Add	*371.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*668.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*278.48*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*2,227.87*	
33 14 13 13-1148	EA	20" 90 Degree Elbow, Push-On Joint Ductile Iron	4,554.05	209.04
		For Cement Mortar Lining (CML), Add	*413.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*744.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*310.20*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*2,481.62*	
33 14 13 13-1149	EA	24" 90 Degree Elbow, Push-On Joint Ductile Iron	5,686.29	261.32
		For Cement Mortar Lining (CML), Add	*516.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*929.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*387.28*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*3,098.26*	
33 14 13 13-1150		**Push-On Joint Ductile Iron 45 Degree Elbow** *(33 14 13 13-1122)*		
33 14 13 13-1151	EA	4" 45 Degree Elbow, Push-On Joint Ductile Iron	245.37	40.77
		For Cement Mortar Lining (CML), Add	*18.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*33.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*13.77*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*110.15*	
33 14 13 13-1152	EA	6" 45 Degree Elbow, Push-On Joint Ductile Iron	361.04	60.14
		For Cement Mortar Lining (CML), Add	*26.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*48.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*20.24*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*161.93*	
33 14 13 13-1153	EA	8" 45 Degree Elbow, Push-On Joint Ductile Iron	505.21	71.41
		For Cement Mortar Lining (CML), Add	*39.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*71.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*29.77*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*238.18*	
33 14 13 13-1154	EA	10" 45 Degree Elbow, Push-On Joint Ductile Iron	773.21	78.74
		For Cement Mortar Lining (CML), Add	*61.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*109.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*45.78*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*366.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1155	EA	12" 45 Degree Elbow, Push-On Joint Ductile Iron	1,003.70	92.37
		For Cement Mortar Lining (CML), Add	*81.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*146.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*60.96*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*487.67*	
33 14 13 13-1156	EA	14" 45 Degree Elbow, Push-On Joint Ductile Iron	1,439.68	103.62
		For Cement Mortar Lining (CML), Add	*122.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*220.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*91.91*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*735.26*	
33 14 13 13-1157	EA	16" 45 Degree Elbow, Push-On Joint Ductile Iron	2,148.02	118.46
		For Cement Mortar Lining (CML), Add	*190.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*342.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*142.75*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*1,141.96*	
33 14 13 13-1158	EA	18" 45 Degree Elbow, Push-On Joint Ductile Iron	2,456.14	165.84
		For Cement Mortar Lining (CML), Add	*211.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*380.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*158.51*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*1,268.10*	
33 14 13 13-1159	EA	20" 45 Degree Elbow, Push-On Joint Ductile Iron	3,458.86	209.04
		For Cement Mortar Lining (CML), Add	*304.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*547.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*228.06*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*1,824.50*	
33 14 13 13-1160	EA	24" 45 Degree Elbow, Push-On Joint Ductile Iron	4,291.39	261.32
		For Cement Mortar Lining (CML), Add	*376.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*678.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*282.66*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*2,261.32*	

33 14 13 13-1161 Push-On Joint Ductile Iron Tee *(33 14 13 13-1122)*

33 14 13 13-1162	EA	4" Tee, Push-On Joint Ductile Iron	458.58	60.14
		For Cement Mortar Lining (CML), Add	*36.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*66.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*27.56*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*220.45*	
33 14 13 13-1163	EA	6" Tee, Push-On Joint Ductile Iron	636.72	88.37
		For Cement Mortar Lining (CML), Add	*50.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*90.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*37.71*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*301.66*	
33 14 13 13-1164	EA	8" Tee, Push-On Joint Ductile Iron	875.19	107.11
		For Cement Mortar Lining (CML), Add	*71.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*128.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*53.46*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*427.65*	
33 14 13 13-1165	EA	10" Tee, Push-On Joint Ductile Iron	1,301.04	119.66
		For Cement Mortar Lining (CML), Add	*112.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*201.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*84.12*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*672.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1166	EA	12" Tee, Push-On Joint Ductile Iron	1,623.77	137.96
		For Cement Mortar Lining (CML), Add	*141.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*254.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*106.08*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*848.63*	
33 14 13 13-1167	EA	14" Tee, Push-On Joint Ductile Iron	2,637.11	165.84
		For Cement Mortar Lining (CML), Add	*238.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*429.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*178.94*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*1,431.50*	
33 14 13 13-1168	EA	16" Tee, Push-On Joint Ductile Iron	3,824.28	207.36
		For Cement Mortar Lining (CML), Add	*351.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*631.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*263.26*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*2,106.11*	
33 14 13 13-1169	EA	18" Tee, Push-On Joint Ductile Iron	4,800.49	276.64
		For Cement Mortar Lining (CML), Add	*438.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*788.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*328.60*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*2,628.80*	
33 14 13 13-1170	EA	20" Tee, Push-On Joint Ductile Iron	5,652.50	337.54
		For Cement Mortar Lining (CML), Add	*514.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*925.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*385.58*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*3,084.66*	
33 14 13 13-1171	EA	24" Tee, Push-On Joint Ductile Iron	7,411.22	421.90
		For Cement Mortar Lining (CML), Add	*677.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,218.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*507.90*	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	*4,063.22*	

33 14 13 13-1172 Flanged End x Push-On Joint Ductile Iron Adapters *(33 14 13 13-1122)*

33 14 13 13-1173	EA	4" Flanged End x Push-On Joint Adapter, Ductile Iron	465.70	141.42
		For Cement Mortar Lining (CML), Add	*25.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*45.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1174	EA	6" Flanged End x Push-On Joint Adapter, Ductile Iron	570.04	175.10
		For Cement Mortar Lining (CML), Add	*30.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*54.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*22.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1175	EA	8" Flanged End x Push-On Joint Adapter, Ductile Iron	747.60	204.22
		For Cement Mortar Lining (CML), Add	*43.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*78.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*32.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1176	EA	10" Flanged End x Push-On Joint Adapter, Ductile Iron	1,020.13	296.15
		For Cement Mortar Lining (CML), Add	*57.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*102.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*42.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1177	EA	12" Flanged End x Push-On Joint Adapter, Ductile Iron	1,236.61	338.50
		For Cement Mortar Lining (CML), Add	*72.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*130.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*54.29*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1178	EA	14" Flanged End x Push-On Joint Adapter, Ductile Iron	1,428.45	364.46
		For Cement Mortar Lining (CML), Add	*87.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*157.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*65.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1179	EA	16" Flanged End x Push-On Joint Adapter, Ductile Iron	1,703.04	394.86
		For Cement Mortar Lining (CML), Add	*110.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*198.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*82.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1180	EA	18" Flanged End x Push-On Joint Adapter, Ductile Iron	2,013.17	473.83
		For Cement Mortar Lining (CML), Add	*129.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*233.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*97.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1181	EA	20" Flanged End x Push-On Joint Adapter, Ductile Iron	2,340.56	526.48
		For Cement Mortar Lining (CML), Add	*154.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*277.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*115.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1182	EA	24" Flanged End x Push-On Joint Adapter, Ductile Iron	2,939.47	607.48
		For Cement Mortar Lining (CML), Add	*201.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*363.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*151.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1183	EA	30" Flanged End x Push-On Joint Adapter, Ductile Iron	4,728.14	728.93
		For Cement Mortar Lining (CML), Add	*362.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*652.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*271.77*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1184	EA	36" Flanged End x Push-On Joint Adapter, Ductile Iron	6,550.95	911.17
		For Cement Mortar Lining (CML), Add	*517.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*930.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*387.77*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1185	EA	42" Flanged End x Push-On Joint Adapter, Ductile Iron	8,290.28	1,052.95
		For Cement Mortar Lining (CML), Add	*669.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,205.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*502.12*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1186	EA	48" Flanged End x Push-On Joint Adapter, Ductile Iron	10,580.03	1,353.77
		For Cement Mortar Lining (CML), Add	*852.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,535.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*639.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1187	EA	54" Flanged End x Push-On Joint Adapter, Ductile Iron	12,860.85	1,579.79
		For Cement Mortar Lining (CML), Add	*1,046.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,884.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*785.03*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-1188 Push-On Joint Ductile Iron Pipe And Fitting Restraints *(33 14 13 13-1122)*

Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.

33 14 13 13-1189	EA	4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	59.16	22.02
33 14 13 13-1190	EA	6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	77.14	28.73
33 14 13 13-1191	EA	8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	100.22	29.28
33 14 13 13-1192	EA	10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	119.23	31.10
33 14 13 13-1193	EA	12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	142.29	34.55
33 14 13 13-1194	EA	14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	180.57	38.86
33 14 13 13-1195	EA	16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	213.31	44.41
33 14 13 13-1196	EA	18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	240.81	48.13
33 14 13 13-1197	EA	20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	280.49	57.75
33 14 13 13-1198	EA	24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	339.00	59.97
33 14 13 13-1199	EA	30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	437.01	66.63
33 14 13 13-1200	EA	36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	573.49	72.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1201	EA	42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	710.38	78.97
33 14 13 13-1202	EA	48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	839.13	88.85
33 14 13 13-1203	EA	54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	1,165.47	96.34

33 14 13 13-1204 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) *(33 14 13 13-1122)*

33 14 13 13-1205	EA	4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400)	254.87	80.77
33 14 13 13-1206	EA	6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600)	335.92	98.59
33 14 13 13-1207	EA	8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800)	432.23	120.26
33 14 13 13-1208	EA	10" Bell Restraint Harness, Ductile Iron (MEGALUG® 17100)	649.93	146.70
33 14 13 13-1209	EA	12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200)	806.02	178.88
33 14 13 13-1210	EA	14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400)	1,385.80	218.25
33 14 13 13-1211	EA	16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600)	1,582.82	266.35
33 14 13 13-1212	EA	18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800)	1,797.78	324.86
33 14 13 13-1213	EA	20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000)	2,441.91	396.41
33 14 13 13-1214	EA	24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400)	3,113.62	483.52
33 14 13 13-1215	EA	30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000)	5,363.91	590.02
33 14 13 13-1216	EA	36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600)	7,605.79	719.72
33 14 13 13-1217	EA	42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200)	13,798.25	878.14
33 14 13 13-1218	EA	48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800)	17,847.99	1,071.27

33 14 13 13-1219 Ductile Iron Pipe Repair *(33 14 13 13-0001)*

See CSI section 33 14 13 13-0002 for mechanical joint fittings.

33 14 13 13-1220 Ductile Iron Pipe Repair *(33 14 13 13-1219)*

Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.

33 14 13 13-1221	EA	30" Diameter Mechanical Ductile Iron Push Joint	4,445.24	
33 14 13 13-1222	EA	36" Diameter Mechanical Ductile Iron Push Joint	5,680.49	
33 14 13 13-1223	EA	42" Diameter Mechanical Ductile Iron Push Joint	7,295.71	
33 14 13 13-1224	EA	48" Diameter Mechanical Ductile Iron Push Joint	9,188.43	
33 14 13 13-1225	EA	54" Diameter Mechanical Ductile Iron Push Joint	13,427.17	

33 14 13 13-1226 WEKO Seals *(33 14 13 13-1219)*

Note: Internal joint seal.

33 14 13 13-1227	EA	16" WEKO Internal Joint Seal	2,643.04	227.76
		For Extra Wide Seals, Add	*87.26*	
33 14 13 13-1228	EA	18" WEKO Internal Joint Seal	2,816.73	240.50
		For Extra Wide Seals, Add	*88.23*	
33 14 13 13-1229	EA	20" WEKO Internal Joint Seal	2,990.21	253.24
		For Extra Wide Seals, Add	*89.19*	
33 14 13 13-1230	EA	24" WEKO Internal Joint Seal	3,165.71	273.50
		For Extra Wide Seals, Add	*90.72*	
33 14 13 13-1231	EA	30" WEKO Internal Joint Seal	3,262.95	293.76
		For Extra Wide Seals, Add	*92.26*	
33 14 13 13-1232	EA	36" WEKO Internal Joint Seal	3,418.71	319.08
		For Extra Wide Seals, Add	*94.17*	
33 14 13 13-1233	EA	42" WEKO Internal Joint Seal	3,640.87	349.48
		For Extra Wide Seals, Add	*96.48*	
33 14 13 13-1234	EA	48" WEKO Internal Joint Seal	3,933.62	374.80
		For Extra Wide Seals, Add	*98.39*	
33 14 13 13-1235	EA	54" WEKO Internal Joint Seal	4,077.82	395.05
		For Extra Wide Seals, Add	*99.93*	
33 14 13 13-1236	EA	60" WEKO Internal Joint Seal	4,245.20	425.45
		For Extra Wide Seals, Add	*102.23*	

33 14 13 23 Plastic Public Water Utility Distribution Piping *(33 14 13)*

Note: Includes detectable tracer wire.

33 14 13 23-0001 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping *(33 14 13 23)*

33 14 13 23-0002 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe *(33 14 13 23-0001)*

33 14 13 23-0003	LF	3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.61	0.92
		For >1,000, Deduct	*-0.13*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.05*	
33 14 13 23-0004	LF	1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.88	0.99
		For >1,000, Deduct	*-0.14*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.06*	
33 14 13 23-0005	LF	1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.36	1.08
		For >1,000, Deduct	*-0.17*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.10*	
33 14 13 23-0006	LF	1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.88	1.19
		For >1,000, Deduct	*-0.19*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.14*	
33 14 13 23-0007	LF	2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	4.99	1.34
		For >1,000, Deduct	*-0.25*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.25*	
33 14 13 23-0008	LF	2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	6.42	1.52
		For >1,000, Deduct	*-0.32*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0009	LF	3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	7.83	1.69
		For >1,000, Deduct	*-0.39*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.54*	
33 14 13 23-0010	LF	4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	11.09	2.09
		For >1,000, Deduct	*-0.55*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.88*	
33 14 13 23-0011	LF	6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	19.44	2.65
		For >1,000, Deduct	*-0.97*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*1.92*	
33 14 13 23-0012	LF	8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	30.90	3.67
		For >1,000, Deduct	*-1.55*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*3.26*	
33 14 13 23-0013	LF	10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	46.05	4.91
		For >1,000, Deduct	*-2.30*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*5.06*	
33 14 13 23-0014	LF	12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	64.10	6.61
		For >1,000, Deduct	*-3.21*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*7.13*	

33 14 13 23-0015 Class 200, SDR 21 Polyvinyl Chloride (PVC), 90 Degree Elbows *(33 14 13 23-0001)*

33 14 13 23-0016	EA	3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	27.91	11.02
33 14 13 23-0017	EA	1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	35.27	13.78
33 14 13 23-0018	EA	1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	44.41	17.22
33 14 13 23-0019	EA	1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	66.33	19.05
33 14 13 23-0020	EA	2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	71.83	21.35
33 14 13 23-0021	EA	2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	84.96	24.22
33 14 13 23-0022	EA	3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	95.22	27.16
33 14 13 23-0023	EA	4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	131.88	33.35
33 14 13 23-0024	EA	6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	189.54	42.37
33 14 13 23-0025	EA	8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	306.07	55.63
33 14 13 23-0026	EA	10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	376.77	74.42
33 14 13 23-0027	EA	12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	498.17	100.17

33 14 13 23-0028 Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbows *(33 14 13 23-0001)*

33 14 13 23-0029	EA	3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	28.41	11.02
33 14 13 23-0030	EA	1" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	35.63	13.78
33 14 13 23-0031	EA	1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	44.63	17.22
33 14 13 23-0032	EA	1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	59.77	19.05
33 14 13 23-0033	EA	2" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	72.44	21.35
33 14 13 23-0034	EA	2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	87.44	24.22
33 14 13 23-0035	EA	3" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	94.17	27.16
33 14 13 23-0036	EA	4" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	129.62	33.35
33 14 13 23-0037	EA	6" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	184.99	42.37
33 14 13 23-0038	EA	8" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	297.39	55.63
33 14 13 23-0039	EA	10" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	340.81	74.42
33 14 13 23-0040	EA	12" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	448.41	100.17

33 14 13 23-0041 Class 200, SDR 21 Polyvinyl Chloride (PVC), Tees Or Wyes *(33 14 13 23-0001)*

33 14 13 23-0042	EA	3/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	41.82	16.53
33 14 13 23-0043	EA	1" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	52.79	20.78
33 14 13 23-0044	EA	1-1/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	66.18	25.94
33 14 13 23-0045	EA	1-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	91.43	28.70
33 14 13 23-0046	EA	2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	104.03	31.91
33 14 13 23-0047	EA	2-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	121.04	36.40
33 14 13 23-0048	EA	3" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	145.61	40.63
33 14 13 23-0049	EA	4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	191.13	50.08
33 14 13 23-0050	EA	6" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	315.73	63.67
33 14 13 23-0051	EA	8" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	472.47	83.44
33 14 13 23-0052	EA	10" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	561.08	117.95
33 14 13 23-0053	EA	12" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	702.43	158.73

33 14 13 23-0054 Class 200, SDR 21 Polyvinyl Chloride (PVC), Couplings *(33 14 13 23-0001)*

33 14 13 23-0055	EA	3/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	18.68	7.35
33 14 13 23-0056	EA	1" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	25.22	9.88
33 14 13 23-0057	EA	1-1/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	33.67	12.97
33 14 13 23-0058	EA	1-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	46.76	14.35
33 14 13 23-0059	EA	2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	51.57	15.96
33 14 13 23-0060	EA	2-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	58.65	18.14
33 14 13 23-0061	EA	3" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	67.34	20.31
33 14 13 23-0062	EA	4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	92.27	24.99
33 14 13 23-0063	EA	6" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	131.70	31.83
33 14 13 23-0064	EA	8" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	223.15	41.72
33 14 13 23-0065	EA	10" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	266.43	59.04
33 14 13 23-0066	EA	12" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	339.84	79.36

33 14 13 23-0067 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings *(33 14 13 23)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0068		**Schedule 40 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0067)*		
33 14 13 23-0069	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.87	0.92
		For >1,000, Deduct	*-0.14*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.09*	
33 14 13 23-0070	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.37	0.99
		For >1,000, Deduct	*-0.17*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.14*	
33 14 13 23-0071	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	4.33	1.19
		For >1,000, Deduct	*-0.22*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.20*	
33 14 13 23-0072	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.16	1.34
		For >1,000, Deduct	*-0.26*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.27*	
33 14 13 23-0073	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	6.68	1.52
		For >1,000, Deduct	*-0.33*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.44*	
33 14 13 23-0074	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	8.00	1.69
		For >1,000, Deduct	*-0.40*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.56*	
33 14 13 23-0075	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	10.63	2.09
		For >1,000, Deduct	*-0.53*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.81*	
33 14 13 23-0076	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	16.09	2.65
		For >1,000, Deduct	*-0.80*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*1.42*	
33 14 13 23-0077		**Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows** *(33 14 13 23-0067)*		
33 14 13 23-0078	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	28.09	11.02
33 14 13 23-0079	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	35.37	13.78
33 14 13 23-0080	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	49.19	19.05
33 14 13 23-0081	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	55.55	21.35
33 14 13 23-0082	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	66.68	24.22
33 14 13 23-0083	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	75.21	27.16
33 14 13 23-0084	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	98.39	33.35
33 14 13 23-0085	EA	6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	153.68	42.37
33 14 13 23-0086		**Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows** *(33 14 13 23-0067)*		
33 14 13 23-0087	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	28.05	11.02
33 14 13 23-0088	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	35.33	13.78
33 14 13 23-0089	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	49.21	19.05
33 14 13 23-0090	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	55.38	21.35
33 14 13 23-0091	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	66.21	24.22
33 14 13 23-0092	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	74.66	27.16
33 14 13 23-0093	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	97.28	33.35
33 14 13 23-0094	EA	6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	150.16	42.37
33 14 13 23-0095		**Schedule 40 Polyvinyl Chloride (PVC) Tees Or Wyes** *(33 14 13 23-0067)*		
33 14 13 23-0096	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	42.01	16.53
33 14 13 23-0097	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	52.93	20.78
33 14 13 23-0098	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	73.58	28.70
33 14 13 23-0099	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	82.73	31.91
33 14 13 23-0100	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	100.28	36.40
33 14 13 23-0101	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	115.06	40.63
33 14 13 23-0102	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	143.08	50.08
33 14 13 23-0103	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	233.90	63.67
33 14 13 23-0104		**Schedule 40 Polyvinyl Chloride (PVC) Couplings** *(33 14 13 23-0067)*		
33 14 13 23-0105	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Coupling	18.77	7.35
33 14 13 23-0106	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Coupling	25.29	9.88
33 14 13 23-0107	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Coupling	36.68	14.35
33 14 13 23-0108	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Coupling	41.35	15.96
33 14 13 23-0109	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Coupling	48.51	18.14
33 14 13 23-0110	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Coupling	55.58	20.31
33 14 13 23-0111	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Coupling	68.85	24.99
33 14 13 23-0112	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Coupling	101.25	31.83
33 14 13 23-0113		**Schedule 40 Polyvinyl Chloride (PVC) Crosses** *(33 14 13 23-0067)*		
33 14 13 23-0114	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Cross	56.19	22.04
33 14 13 23-0115	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Cross	70.49	27.66
33 14 13 23-0116	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Cross	98.09	38.23
33 14 13 23-0117	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Cross	110.30	42.59
33 14 13 23-0118	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Cross	133.65	48.45
33 14 13 23-0119	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Cross	153.34	54.22
33 14 13 23-0120	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Cross	190.67	66.70
33 14 13 23-0121	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Cross	311.43	84.85

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0122		Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings *(33 14 13 23)*		
33 14 13 23-0123		Schedule 80 Polyvinyl Chloride (PVC) Pipe *(33 14 13 23-0122)*		
33 14 13 23-0124	LF	1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.64	0.99
		For >1,000, Deduct	*-0.18*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.18*	
33 14 13 23-0125	LF	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	4.88	1.19
		For >1,000, Deduct	*-0.24*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.29*	
33 14 13 23-0126	LF	2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	6.09	1.34
		For >1,000, Deduct	*-0.30*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.41*	
33 14 13 23-0127	LF	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	7.89	1.52
		For >1,000, Deduct	*-0.39*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.62*	
33 14 13 23-0128	LF	3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	9.70	1.69
		For >1,000, Deduct	*-0.49*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.82*	
33 14 13 23-0129	LF	4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	13.22	2.09
		For >1,000, Deduct	*-0.66*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*1.20*	
33 14 13 23-0130	LF	6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	21.86	2.65
		For >1,000, Deduct	*-1.09*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*2.28*	
33 14 13 23-0131		Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows *(33 14 13 23-0122)*		
33 14 13 23-0132	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	36.81	13.78
33 14 13 23-0133	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	49.19	19.05
33 14 13 23-0134	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	56.99	21.35
33 14 13 23-0135	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	69.73	24.22
33 14 13 23-0136	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	78.04	27.16
33 14 13 23-0137	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	99.07	33.35
33 14 13 23-0138	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	150.46	42.37
33 14 13 23-0139		Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows *(33 14 13 23-0122)*		
33 14 13 23-0140	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	42.69	13.78
33 14 13 23-0141	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	54.86	19.05
33 14 13 23-0142	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	62.44	21.35
33 14 13 23-0143	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	79.94	24.22
33 14 13 23-0144	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	91.34	27.16
33 14 13 23-0145	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	125.81	33.35
33 14 13 23-0146	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	148.66	42.37
33 14 13 23-0147		Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes *(33 14 13 23-0122)*		
33 14 13 23-0148	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	55.94	20.78
33 14 13 23-0149	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	82.72	28.70
33 14 13 23-0150	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	93.63	31.91
33 14 13 23-0151	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	106.05	36.40
33 14 13 23-0152	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	120.58	40.63
33 14 13 23-0153	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	147.06	50.08
33 14 13 23-0154	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	233.76	63.67
33 14 13 23-0155		Schedule 80 Polyvinyl Chloride (PVC) Couplings *(33 14 13 23-0122)*		
33 14 13 23-0156	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	27.44	9.88
33 14 13 23-0157	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	40.37	14.35
33 14 13 23-0158	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	44.83	15.96
33 14 13 23-0159	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	57.43	18.14
33 14 13 23-0160	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	64.58	20.31
33 14 13 23-0161	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	79.79	24.99
33 14 13 23-0162	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	116.53	31.83
33 14 13 23-0163		Schedule 80 Polyvinyl Chloride (PVC) Crosses *(33 14 13 23-0122)*		
33 14 13 23-0164	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Cross	74.49	27.66
33 14 13 23-0165	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	110.22	38.23
33 14 13 23-0166	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Cross	124.77	42.59
33 14 13 23-0167	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	141.31	48.45
33 14 13 23-0168	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Cross	160.67	54.22
33 14 13 23-0169	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Cross	195.96	66.70
33 14 13 23-0170	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Cross	311.24	84.85
33 14 13 23-0171		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe And Fittings *(33 14 13 23)*		
33 14 13 23-0172		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe *(33 14 13 23-0171)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0173	LF	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	58.96	3.53
33 14 13 23-0174	LF	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	83.91	3.80
33 14 13 23-0175	LF	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	113.32	4.41
33 14 13 23-0176	LF	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	154.35	5.65
33 14 13 23-0177	LF	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	176.64	6.89
33 14 13 23-0178		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows** *(33 14 13 23-0171)*		
33 14 13 23-0179	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	747.55	51.28
33 14 13 23-0180	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	1,571.79	85.98
33 14 13 23-0181	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	2,732.52	93.84
33 14 13 23-0182	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	6,467.95	101.53
33 14 13 23-0183	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	8,756.39	109.22
33 14 13 23-0184		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows** *(33 14 13 23-0171)*		
33 14 13 23-0185	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	1,047.87	51.28
33 14 13 23-0186	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	1,268.82	85.98
33 14 13 23-0187	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	1,714.33	93.84
33 14 13 23-0188	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	3,349.25	101.53
33 14 13 23-0189	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	4,791.07	109.22
33 14 13 23-0190		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees** *(33 14 13 23-0171)*		
33 14 13 23-0191	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	1,449.15	82.05
33 14 13 23-0192	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	2,136.64	122.61
33 14 13 23-0193	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	2,824.59	130.77
33 14 13 23-0194	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	6,871.39	138.46
33 14 13 23-0195	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	9,687.10	146.14
33 14 13 23-0196		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees** *(33 14 13 23-0171)*		
33 14 13 23-0197	EA	8" x 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	1,424.18	77.94
33 14 13 23-0198	EA	10" x 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	1,552.93	110.65
33 14 13 23-0199	EA	10" x 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	1,771.58	116.49
33 14 13 23-0200	EA	12" x 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	2,009.07	112.11
33 14 13 23-0201	EA	12" x 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	2,230.42	118.01
33 14 13 23-0202	EA	12" x 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	2,544.21	124.22
33 14 13 23-0203	EA	14" x 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	4,943.07	112.78
33 14 13 23-0204	EA	14" x 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	5,325.52	118.72
33 14 13 23-0205	EA	14" x 14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	5,812.85	124.96
33 14 13 23-0206	EA	14" x 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	6,375.89	131.54
33 14 13 23-0207	EA	16" x 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	6,003.16	113.09
33 14 13 23-0208	EA	16" x 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	6,692.22	119.03
33 14 13 23-0209	EA	16" x 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	7,234.94	125.30
33 14 13 23-0210	EA	16" x 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	8,071.58	131.89
33 14 13 23-0211	EA	16" x 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	8,948.36	138.84
33 14 13 23-0212		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wyes** *(33 14 13 23-0171)*		
33 14 13 23-0213	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	1,463.54	82.05
33 14 13 23-0214	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	2,468.35	122.61
33 14 13 23-0215	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	3,338.02	130.77
33 14 13 23-0216	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	10,814.97	138.46
33 14 13 23-0217	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	13,496.64	146.14
33 14 13 23-0218		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wyes** *(33 14 13 23-0171)*		
33 14 13 23-0219	EA	8" x 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	1,274.57	77.94
33 14 13 23-0220	EA	10" x 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	1,774.67	110.65
33 14 13 23-0221	EA	10" x 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	2,055.25	116.49
33 14 13 23-0222	EA	12" x 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	2,366.18	112.11
33 14 13 23-0223	EA	12" x 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	2,496.72	118.01
33 14 13 23-0224	EA	12" x 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	3,021.24	124.22
33 14 13 23-0225	EA	14" x 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	5,211.54	112.78
33 14 13 23-0226	EA	14" x 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	5,629.33	118.72
33 14 13 23-0227	EA	14" x 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	6,825.11	131.54
33 14 13 23-0228	EA	16" x 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	6,229.09	113.09
33 14 13 23-0229	EA	16" x 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	7,202.25	119.03
33 14 13 23-0230	EA	16" x 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	8,073.10	125.30
33 14 13 23-0231	EA	16" x 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	8,745.66	131.89
33 14 13 23-0232	EA	16" x 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	10,934.07	138.84
33 14 13 23-0233		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings** *(33 14 13 23-0171)*		
33 14 13 23-0234	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	678.79	51.28
33 14 13 23-0235	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	920.96	85.98
33 14 13 23-0236	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	1,275.01	93.84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0237	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	2,530.82	101.53
33 14 13 23-0238	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	3,769.55	109.22
33 14 13 23-0239		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Couplings** *(33 14 13 23-0171)*		
33 14 13 23-0240	EA	8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	923.02	48.71
33 14 13 23-0241	EA	10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	678.82	46.27
33 14 13 23-0242	EA	10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	942.08	81.68
33 14 13 23-0243	EA	12" x 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,821.82	77.60
33 14 13 23-0244	EA	12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,698.23	73.71
33 14 13 23-0245	EA	12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,333.62	70.03
33 14 13 23-0246	EA	12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	840.65	89.14
33 14 13 23-0247	EA	14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	2,443.63	84.69
33 14 13 23-0248	EA	14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	2,059.29	80.45
33 14 13 23-0249	EA	14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,781.47	76.42
33 14 13 23-0250	EA	14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,632.40	96.45
33 14 13 23-0251	EA	16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,225.40	91.62
33 14 13 23-0252	EA	16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,642.43	87.04
33 14 13 23-0253	EA	16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,487.22	82.69
33 14 13 23-0254	EA	16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,305.49	78.56
33 14 13 23-0255	EA	16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,021.70	103.76
33 14 13 23-0256		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Couplings** *(33 14 13 23-0171)*		
33 14 13 23-0257	EA	8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	817.84	87.04
33 14 13 23-0258	EA	10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	1,438.48	82.69
33 14 13 23-0259	EA	10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	1,091.67	82.69
33 14 13 23-0260	EA	12" x 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	2,784.22	78.56
33 14 13 23-0261	EA	12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	1,877.57	74.63
33 14 13 23-0262	EA	12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	1,790.00	70.90
33 14 13 23-0263	EA	12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	1,639.66	78.56
33 14 13 23-0264	EA	14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	2,986.00	74.63
33 14 13 23-0265	EA	14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	2,922.02	70.90
33 14 13 23-0266	EA	14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	2,124.94	67.36
33 14 13 23-0267	EA	14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	1,972.84	74.63
33 14 13 23-0268	EA	16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	5,290.53	70.90
33 14 13 23-0269	EA	16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	5,112.25	67.36
33 14 13 23-0270	EA	16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	5,013.08	63.99
33 14 13 23-0271	EA	16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	4,814.30	60.79
33 14 13 23-0272	EA	16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling	4,535.88	98.58
33 14 13 23-0273		**Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flanges** *(33 14 13 23-0171)*		
33 14 13 23-0274	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange	900.59	51.28
33 14 13 23-0275	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange	2,074.36	85.98
33 14 13 23-0276	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange	3,024.70	93.84
33 14 13 23-0277	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange	3,397.80	101.53
33 14 13 23-0278	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange	4,203.06	109.22
33 14 13 23-0279	EA	8" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket	28.15	
33 14 13 23-0280	EA	10" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket	36.68	
33 14 13 23-0281	EA	12" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket	50.48	
33 14 13 23-0282	EA	14" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket	107.98	
33 14 13 23-0283	EA	16" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket	191.57	
33 14 13 23-0284	EA	Zinc Coated Flange Hardware Kit	179.88	
33 14 13 23-0285		**AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23)* Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0286		**AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0285)*		
33 14 13 23-0287	LF	4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	11.82	4.13
33 14 13 23-0288	LF	6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	17.25	5.01
33 14 13 23-0289	LF	8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	23.75	5.63
33 14 13 23-0290	LF	10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	31.36	6.27
33 14 13 23-0291	LF	12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	40.68	7.01
33 14 13 23-0292		**AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0285)*		
33 14 13 23-0293	LF	4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	13.09	4.13
33 14 13 23-0294	LF	6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	19.89	5.01
33 14 13 23-0295	LF	8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	28.20	5.63
33 14 13 23-0296	LF	10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	38.27	6.27
33 14 13 23-0297	LF	12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	50.33	7.01
33 14 13 23-0298		**AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0285)*		
33 14 13 23-0299	LF	4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	14.35	4.13
33 14 13 23-0300	LF	6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	22.51	5.01
33 14 13 23-0301	LF	8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	32.64	5.63

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0302	LF	10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	45.02	6.27
33 14 13 23-0303	LF	12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	59.97	7.01
33 14 13 23-0304		**AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0285)*		
33 14 13 23-0305	LF	18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	63.88	10.52
33 14 13 23-0306	LF	20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	77.93	12.54
33 14 13 23-0307	LF	24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	104.73	15.04
33 14 13 23-0308	LF	30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	151.77	17.55
33 14 13 23-0309	LF	36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	209.96	20.05
33 14 13 23-0310	LF	42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	266.50	21.30
33 14 13 23-0311	LF	48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	337.97	22.93
33 14 13 23-0312		**AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0285)*		
33 14 13 23-0313	LF	14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	47.16	7.89
33 14 13 23-0314	LF	16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	59.28	8.77
33 14 13 23-0315	LF	18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	73.54	10.52
33 14 13 23-0316	LF	20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	90.47	12.54
33 14 13 23-0317	LF	24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	124.07	15.04
33 14 13 23-0318	LF	30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	179.51	17.55
33 14 13 23-0319	LF	36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	247.11	20.05
33 14 13 23-0320	LF	42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	328.28	21.30
33 14 13 23-0321	LF	48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	418.13	22.93
33 14 13 23-0322		**AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0285)*		
33 14 13 23-0323	LF	14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	54.59	7.89
33 14 13 23-0324	LF	16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	69.60	8.77
33 14 13 23-0325	LF	18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	86.36	10.52
33 14 13 23-0326	LF	20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	107.10	12.54
33 14 13 23-0327	LF	24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	147.94	15.04
33 14 13 23-0328	LF	30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	215.37	17.55
33 14 13 23-0329	LF	36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	299.46	20.05
33 14 13 23-0330	LF	42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	390.29	21.30
33 14 13 23-0331	LF	48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	499.05	22.93
33 14 13 23-0332		**AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0285)*		
33 14 13 23-0333	LF	14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	67.30	7.89
33 14 13 23-0334	LF	16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	84.69	8.77
33 14 13 23-0335	LF	18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	105.78	10.52
33 14 13 23-0336	LF	20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	130.56	12.54
33 14 13 23-0337	LF	24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	181.77	15.04
33 14 13 23-0338	LF	30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	268.46	17.55
33 14 13 23-0339	LF	36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	381.09	20.05
33 14 13 23-0340	LF	42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	510.00	21.30
33 14 13 23-0341	LF	48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	659.70	22.93
33 14 13 23-0342		**AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0285)*		
33 14 13 23-0343	LF	14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	76.84	7.89
33 14 13 23-0344	LF	16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	97.11	8.77
33 14 13 23-0345	LF	18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	121.45	10.52
33 14 13 23-0346	LF	20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	150.06	12.54
33 14 13 23-0347	LF	24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	209.84	15.04
33 14 13 23-0348	LF	30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	311.64	17.55
33 14 13 23-0349	LF	36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	444.16	20.05
33 14 13 23-0350	LF	42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	596.45	21.30
33 14 13 23-0351		**AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0285)*		
33 14 13 23-0352	LF	14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	86.15	7.89
33 14 13 23-0353	LF	16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	109.19	8.77
33 14 13 23-0354	LF	18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	136.67	10.52
33 14 13 23-0355	LF	20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	169.05	12.54
33 14 13 23-0356	LF	24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	237.14	15.04
33 14 13 23-0357	LF	30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	353.65	17.55
33 14 13 23-0358	LF	36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	505.54	20.05
33 14 13 23-0359		**AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings** *(33 14 13 23)* Note: Includes rubber gaskets.		
33 14 13 23-0360		**AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbows** *(33 14 13 23-0359)*		
33 14 13 23-0361	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	218.91	13.78
		For DR 25, Deduct	*-11.48*	
33 14 13 23-0362	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	448.70	15.50
		For DR 25, Deduct	*-25.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0363	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	674.23	17.22
		For DR 25, Deduct	*-38.39*	
33 14 13 23-0364	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	1,030.02	27.57
		For DR 25, Deduct	*-58.49*	
33 14 13 23-0365	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	1,340.19	45.94
		For DR 25, Deduct	*-74.90*	
33 14 13 23-0366	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	2,012.93	57.42
		For DR 25, Deduct	*-113.89*	
33 14 13 23-0367	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	2,402.18	68.91
		For DR 25, Deduct	*-135.86*	
33 14 13 23-0368	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	4,122.75	91.89
		For DR 25, Deduct	*-236.34*	
33 14 13 23-0369	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	5,075.21	114.86
		For DR 25, Deduct	*-290.73*	
33 14 13 23-0370	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	8,425.75	155.06
		For DR 25, Deduct	*-486.94*	

33 14 13 23-0371 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbows *(33 14 13 23-0359)*

33 14 13 23-0372	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	193.92	13.78
		For DR 25, Deduct	*-9.98*	
33 14 13 23-0373	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	335.38	15.50
		For DR 25, Deduct	*-18.26*	
33 14 13 23-0374	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	425.10	17.22
		For DR 25, Deduct	*-23.44*	
33 14 13 23-0375	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	601.58	27.57
		For DR 25, Deduct	*-32.79*	
33 14 13 23-0376	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	804.06	45.94
		For DR 25, Deduct	*-42.73*	
33 14 13 23-0377	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	1,546.59	57.42
		For DR 25, Deduct	*-85.90*	
33 14 13 23-0378	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	1,960.38	68.91
		For DR 25, Deduct	*-109.35*	
33 14 13 23-0379	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	3,384.10	91.89
		For DR 25, Deduct	*-192.02*	
33 14 13 23-0380	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	4,203.20	114.86
		For DR 25, Deduct	*-238.41*	
33 14 13 23-0381	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	5,931.73	155.06
		For DR 25, Deduct	*-337.30*	

33 14 13 23-0382 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbows *(33 14 13 23-0359)*

33 14 13 23-0383	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	190.89	13.78
		For DR 25, Deduct	*-9.80*	
33 14 13 23-0384	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	335.38	15.50
		For DR 25, Deduct	*-18.26*	
33 14 13 23-0385	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	425.11	17.22
		For DR 25, Deduct	*-23.44*	
33 14 13 23-0386	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	601.59	27.57
		For DR 25, Deduct	*-32.79*	
33 14 13 23-0387	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	804.07	45.94
		For DR 25, Deduct	*-42.73*	
33 14 13 23-0388	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	1,541.97	55.13
		For DR 25, Deduct	*-85.90*	
33 14 13 23-0389	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	1,960.36	68.91
		For DR 25, Deduct	*-109.35*	
33 14 13 23-0390	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	3,384.10	91.89
		For DR 25, Deduct	*-192.02*	
33 14 13 23-0391	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	4,203.20	114.86
		For DR 25, Deduct	*-238.41*	
33 14 13 23-0392	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	5,931.73	155.06
		For DR 25, Deduct	*-337.30*	

33 14 13 23-0393 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbows *(33 14 13 23-0359)*

33 14 13 23-0394	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	168.51	13.78
		For DR 25, Deduct	*-8.46*	
33 14 13 23-0395	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	335.38	15.50
		For DR 25, Deduct	*-18.26*	
33 14 13 23-0396	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	425.11	17.22
		For DR 25, Deduct	*-23.44*	
33 14 13 23-0397	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	601.59	27.57
		For DR 25, Deduct	*-32.79*	
33 14 13 23-0398	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	804.07	45.94
		For DR 25, Deduct	*-42.73*	
33 14 13 23-0399	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	1,541.97	55.13
		For DR 25, Deduct	*-85.90*	
33 14 13 23-0400	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	1,960.36	68.91
		For DR 25, Deduct	*-109.35*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0401	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	3,384.10	91.89
		For DR 25, Deduct	*-192.02*	
33 14 13 23-0402	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	4,203.20	114.86
		For DR 25, Deduct	*-238.41*	
33 14 13 23-0403	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	5,931.73	155.06
		For DR 25, Deduct	*-337.30*	

33 14 13 23-0404 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tees Or Wyes

(33 14 13 23-0359)

33 14 13 23-0405	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	260.20	15.50
		For DR 25, Deduct	*-13.75*	
33 14 13 23-0406	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	503.02	17.22
		For DR 25, Deduct	*-28.11*	
33 14 13 23-0407	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	702.12	19.52
		For DR 25, Deduct	*-39.79*	
33 14 13 23-0408	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	1,448.42	34.45
		For DR 25, Deduct	*-82.77*	
33 14 13 23-0409	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	1,767.26	68.91
		For DR 25, Deduct	*-97.77*	
33 14 13 23-0410	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	3,192.59	86.14
		For DR 25, Deduct	*-181.22*	
33 14 13 23-0411	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	3,954.42	103.37
		For DR 25, Deduct	*-224.86*	
33 14 13 23-0412	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee	4,989.37	137.83
		For DR 25, Deduct	*-282.82*	
33 14 13 23-0413	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee	5,991.46	172.28
		For DR 25, Deduct	*-338.81*	
33 14 13 23-0414	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee	8,222.76	117.15
		For DR 25, Deduct	*-479.31*	

33 14 13 23-0415 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tees Or Wyes *(33 14 13 23-0359)*

33 14 13 23-0416	EA	6" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	500.68	22.38
		For DR 25, Deduct	*-27.35*	
33 14 13 23-0417	EA	8" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	681.26	24.11
		For DR 25, Deduct	*-37.98*	
33 14 13 23-0418	EA	8" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	698.31	24.97
		For DR 25, Deduct	*-38.90*	
33 14 13 23-0419	EA	10" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	906.63	34.45
		For DR 25, Deduct	*-50.26*	
33 14 13 23-0420	EA	10" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,228.15	35.32
		For DR 25, Deduct	*-69.45*	
33 14 13 23-0421	EA	10" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,313.87	36.18
		For DR 25, Deduct	*-74.49*	
33 14 13 23-0422	EA	12" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,392.61	52.83
		For DR 25, Deduct	*-77.22*	
33 14 13 23-0423	EA	12" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,598.74	53.70
		For DR 25, Deduct	*-89.48*	
33 14 13 23-0424	EA	12" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,696.14	54.55
		For DR 25, Deduct	*-95.22*	
33 14 13 23-0425	EA	12" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye)	1,728.01	59.73
		For DR 25, Deduct	*-96.51*	
33 14 13 23-0426	EA	14" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	2,624.96	62.02
		For DR 25, Deduct	*-150.05*	
33 14 13 23-0427	EA	14" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	2,730.57	62.88
		For DR 25, Deduct	*-156.29*	
33 14 13 23-0428	EA	14" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	2,836.45	63.74
		For DR 25, Deduct	*-162.54*	
33 14 13 23-0429	EA	14" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	2,950.35	68.91
		For DR 25, Deduct	*-168.75*	
33 14 13 23-0430	EA	14" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,072.68	78.10
		For DR 25, Deduct	*-174.99*	
33 14 13 23-0431	EA	16" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,275.88	75.80
		For DR 25, Deduct	*-187.46*	
33 14 13 23-0432	EA	16" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,379.75	75.80
		For DR 25, Deduct	*-193.69*	
33 14 13 23-0433	EA	16" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,485.38	76.67
		For DR 25, Deduct	*-199.92*	
33 14 13 23-0434	EA	16" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,591.02	77.52
		For DR 25, Deduct	*-206.16*	
33 14 13 23-0435	EA	16" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,723.58	91.89
		For DR 25, Deduct	*-212.39*	
33 14 13 23-0436	EA	16" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,836.67	96.48
		For DR 25, Deduct	*-218.62*	
33 14 13 23-0437	EA	18" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	4,048.33	98.77
		For DR 25, Deduct	*-231.05*	
33 14 13 23-0438	EA	18" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	4,154.69	99.64
		For DR 25, Deduct	*-237.32*	
33 14 13 23-0439	EA	18" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	4,260.31	100.49
		For DR 25, Deduct	*-243.56*	
33 14 13 23-0440	EA	18" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	4,374.53	105.67
		For DR 25, Deduct	*-249.79*	

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33 14 13 23-0441	EA	18" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	4,496.76	114.86
		For DR 25, Deduct	*-256.02*	
33 14 13 23-0442	EA	18" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	4,609.13	119.45
		For DR 25, Deduct	*-262.21*	
33 14 13 23-0443	EA	18" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	4,751.93	126.34
		For DR 25, Deduct	*-269.96*	
33 14 13 23-0444	EA	20" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	5,134.62	121.74
		For DR 25, Deduct	*-293.47*	
33 14 13 23-0445	EA	20" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	5,313.75	122.61
		For DR 25, Deduct	*-304.11*	
33 14 13 23-0446	EA	20" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	5,384.24	123.47
		For DR 25, Deduct	*-308.24*	
33 14 13 23-0447	EA	20" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	5,463.45	128.64
		For DR 25, Deduct	*-312.37*	
33 14 13 23-0448	EA	20" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	5,550.63	137.83
		For DR 25, Deduct	*-316.50*	
33 14 13 23-0449	EA	20" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	5,671.36	142.42
		For DR 25, Deduct	*-323.19*	
33 14 13 23-0450	EA	20" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	5,796.71	149.31
		For DR 25, Deduct	*-329.89*	
33 14 13 23-0451	EA	20" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	5,894.08	160.80
		For DR 25, Deduct	*-334.35*	
33 14 13 23-0452	EA	24" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	6,045.17	161.94
		For DR 25, Deduct	*-343.28*	
33 14 13 23-0453	EA	24" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	6,121.34	162.81
		For DR 25, Deduct	*-347.74*	
33 14 13 23-0454	EA	24" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	6,197.48	163.66
		For DR 25, Deduct	*-352.21*	
33 14 13 23-0455	EA	24" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	6,510.42	168.84
		For DR 25, Deduct	*-370.37*	
33 14 13 23-0456	EA	24" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	6,831.39	178.03
		For DR 25, Deduct	*-388.52*	
33 14 13 23-0457	EA	24" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	7,143.19	182.62
		For DR 25, Deduct	*-406.68*	
33 14 13 23-0458	EA	24" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	7,459.61	189.51
		For DR 25, Deduct	*-424.84*	
33 14 13 23-0459	EA	24" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	7,785.20	201.00
		For DR 25, Deduct	*-442.99*	
33 14 13 23-0460	EA	24" x 20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	8,110.78	212.48
		For DR 25, Deduct	*-461.15*	

33 14 13 23-0461 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross *(33 14 13 23-0359)*

33 14 13 23-0462	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	360.72	27.55
		For DR 25, Deduct	*-18.34*	
33 14 13 23-0463	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	648.53	30.99
		For DR 25, Deduct	*-35.19*	
33 14 13 23-0464	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	898.15	34.44
		For DR 25, Deduct	*-49.76*	
33 14 13 23-0465	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	1,833.91	55.13
		For DR 25, Deduct	*-103.42*	
33 14 13 23-0466	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	2,175.04	68.91
		For DR 25, Deduct	*-122.23*	
33 14 13 23-0467	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	3,959.36	91.89
		For DR 25, Deduct	*-226.54*	
33 14 13 23-0468	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	4,913.54	114.86
		For DR 25, Deduct	*-281.04*	
33 14 13 23-0469	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	6,260.58	183.76
		For DR 25, Deduct	*-353.58*	
33 14 13 23-0470	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	7,518.15	229.71
		For DR 25, Deduct	*-423.52*	
33 14 13 23-0471	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross	10,605.18	310.11
		For DR 25, Deduct	*-599.10*	

33 14 13 23-0472 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross *(33 14 13 23-0359)*

33 14 13 23-0473	EA	6" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	628.88	29.27
		For DR 25, Deduct	*-34.22*	
33 14 13 23-0474	EA	8" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	854.28	30.99
		For DR 25, Deduct	*-47.54*	
33 14 13 23-0475	EA	8" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	876.08	32.72
		For DR 25, Deduct	*-48.64*	
33 14 13 23-0476	EA	10" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	1,314.80	41.35
		For DR 25, Deduct	*-73.93*	
33 14 13 23-0477	EA	10" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	1,533.21	43.07
		For DR 25, Deduct	*-86.82*	
33 14 13 23-0478	EA	10" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	1,684.34	44.79
		For DR 25, Deduct	*-95.69*	
33 14 13 23-0479	EA	12" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	1,728.66	59.73
		For DR 25, Deduct	*-96.55*	
33 14 13 23-0480	EA	12" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	1,987.01	61.45
		For DR 25, Deduct	*-111.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0481	EA	12" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	2,110.07	63.17
		For DR 25, Deduct	*-119.02*	
33 14 13 23-0482	EA	12" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	2,157.55	73.51
		For DR 25, Deduct	*-120.63*	
33 14 13 23-0483	EA	14" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	3,263.95	68.91
		For DR 25, Deduct	*-187.57*	
33 14 13 23-0484	EA	14" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	3,396.87	70.64
		For DR 25, Deduct	*-195.34*	
33 14 13 23-0485	EA	14" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	3,531.23	72.36
		For DR 25, Deduct	*-203.19*	
33 14 13 23-0486	EA	14" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	3,682.28	82.70
		For DR 25, Deduct	*-211.01*	
33 14 13 23-0487	EA	14" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	3,848.39	101.08
		For DR 25, Deduct	*-218.78*	
33 14 13 23-0488	EA	16" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	4,070.11	82.70
		For DR 25, Deduct	*-234.28*	
33 14 13 23-0489	EA	16" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	4,204.79	84.42
		For DR 25, Deduct	*-242.16*	
33 14 13 23-0490	EA	16" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	4,338.02	86.14
		For DR 25, Deduct	*-249.94*	
33 14 13 23-0491	EA	16" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	4,488.94	96.48
		For DR 25, Deduct	*-257.76*	
33 14 13 23-0492	EA	16" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	4,562.59	114.86
		For DR 25, Deduct	*-259.97*	
33 14 13 23-0493	EA	16" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	4,803.12	124.05
		For DR 25, Deduct	*-273.30*	
33 14 13 23-0494	EA	18" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	5,025.46	105.67
		For DR 25, Deduct	*-288.85*	
33 14 13 23-0495	EA	18" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	5,159.83	107.39
		For DR 25, Deduct	*-296.70*	
33 14 13 23-0496	EA	18" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	5,293.27	109.11
		For DR 25, Deduct	*-304.50*	
33 14 13 23-0497	EA	18" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	5,442.23	119.45
		For DR 25, Deduct	*-312.20*	
33 14 13 23-0498	EA	18" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	5,609.92	137.83
		For DR 25, Deduct	*-320.06*	
33 14 13 23-0499	EA	18" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	5,757.69	147.02
		For DR 25, Deduct	*-327.82*	
33 14 13 23-0500	EA	18" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	5,946.27	160.80
		For DR 25, Deduct	*-337.48*	
33 14 13 23-0501	EA	20" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	6,371.80	128.64
		For DR 25, Deduct	*-366.87*	
33 14 13 23-0502	EA	20" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	6,596.63	130.36
		For DR 25, Deduct	*-380.15*	
33 14 13 23-0503	EA	20" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	6,686.70	132.08
		For DR 25, Deduct	*-385.35*	
33 14 13 23-0504	EA	20" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	6,793.06	142.42
		For DR 25, Deduct	*-390.49*	
33 14 13 23-0505	EA	20" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	6,915.51	160.80
		For DR 25, Deduct	*-395.64*	
33 14 13 23-0506	EA	20" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	7,072.35	169.98
		For DR 25, Deduct	*-403.94*	
33 14 13 23-0507	EA	20" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	7,241.16	183.76
		For DR 25, Deduct	*-412.42*	
33 14 13 23-0508	EA	20" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	7,379.84	206.73
		For DR 25, Deduct	*-417.98*	
33 14 13 23-0509	EA	24" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	7,447.98	168.84
		For DR 25, Deduct	*-426.62*	
33 14 13 23-0510	EA	24" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	7,586.22	170.56
		For DR 25, Deduct	*-434.71*	
33 14 13 23-0511	EA	24" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	7,683.06	172.28
		For DR 25, Deduct	*-440.31*	
33 14 13 23-0512	EA	24" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	8,081.56	182.62
		For DR 25, Deduct	*-462.98*	
33 14 13 23-0513	EA	24" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	8,496.29	201.00
		For DR 25, Deduct	*-485.66*	
33 14 13 23-0514	EA	24" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	8,892.56	210.19
		For DR 25, Deduct	*-508.33*	
33 14 13 23-0515	EA	24" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	9,299.64	223.97
		For DR 25, Deduct	*-531.10*	
33 14 13 23-0516	EA	24" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	9,722.67	246.93
		For DR 25, Deduct	*-553.73*	
33 14 13 23-0517	EA	24" x 20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross	10,147.31	269.90
		For DR 25, Deduct	*-576.45*	
33 14 13 23-0518		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Couplings *(33 14 13 23-0359)*		
33 14 13 23-0519	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	130.61	13.78
		For DR 25, Deduct	*-6.18*	
33 14 13 23-0520	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	243.72	15.50
		For DR 25, Deduct	*-12.76*	
33 14 13 23-0521	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	293.39	17.22
		For DR 25, Deduct	*-15.54*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0522	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	417.36	27.57
		For DR 25, Deduct	*-21.73*	
33 14 13 23-0523	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	664.09	34.45
		For DR 25, Deduct	*-35.71*	
33 14 13 23-0524	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	1,152.47	45.94
		For DR 25, Deduct	*-63.63*	
33 14 13 23-0525	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	1,365.17	57.42
		For DR 25, Deduct	*-75.02*	
33 14 13 23-0526	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	3,269.15	91.89
		For DR 25, Deduct	*-185.12*	
33 14 13 23-0527	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	3,664.71	114.86
		For DR 25, Deduct	*-206.10*	
33 14 13 23-0528	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	5,160.13	155.06
		For DR 25, Deduct	*-291.00*	

33 14 13 23-0529 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter *(33 14 13 23-0359)*

33 14 13 23-0530	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	161.99	13.78
		For DR 25, Deduct	*-8.07*	
33 14 13 23-0531	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	220.16	15.50
		For DR 25, Deduct	*-11.35*	
33 14 13 23-0532	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	320.21	17.22
		For DR 25, Deduct	*-17.15*	
33 14 13 23-0533	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	438.28	27.57
		For DR 25, Deduct	*-22.99*	
33 14 13 23-0534	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	702.32	45.94
		For DR 25, Deduct	*-36.63*	
33 14 13 23-0535	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	1,865.61	55.13
		For DR 25, Deduct	*-105.32*	
33 14 13 23-0536	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	2,525.52	68.91
		For DR 25, Deduct	*-143.26*	
33 14 13 23-0537	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	3,111.64	91.89
		For DR 25, Deduct	*-175.67*	
33 14 13 23-0538	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	3,717.46	114.86
		For DR 25, Deduct	*-209.27*	
33 14 13 23-0539	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	5,050.07	155.06
		For DR 25, Deduct	*-284.40*	

33 14 13 23-0540 AWWA C906, High-Density Polyethylene (HDPE) Pressure Piping *(33 14 13 23)*

Note: ASTM D3350 pipe, ASTM D2657 heat fusion.

33 14 13 23-0541 High-Density Polyethylene (HDPE) Pressure Pipe *(33 14 13 23-0540)*

33 14 13 23-0542	LF	3" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	8.39	3.26
		For SDR 19, Add	*0.16*	
		For SDR 17, Add	*0.40*	
		For SDR 15.5, Add	*0.59*	
		For SDR 13.5, Add	*0.92*	
		For SDR 11, Add	*1.49*	
33 14 13 23-0543	LF	4" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	12.48	4.13
		For SDR 26, Deduct	*-0.77*	
		For SDR 19, Add	*0.38*	
		For SDR 17, Add	*0.94*	
		For SDR 15.5, Add	*1.37*	
		For SDR 13.5, Add	*2.14*	
		For SDR 11, Add	*3.44*	
33 14 13 23-0544	LF	6" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	19.09	5.01
		For SDR 26, Deduct	*-1.66*	
		For SDR 19, Add	*0.82*	
		For SDR 17, Add	*2.02*	
		For SDR 15.5, Add	*2.95*	
		For SDR 13.5, Add	*4.61*	
		For SDR 11, Add	*7.41*	
33 14 13 23-0545	LF	8" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	26.69	5.63
		For SDR 26, Deduct	*-2.82*	
		For SDR 19, Add	*1.39*	
		For SDR 17, Add	*3.42*	
		For SDR 15.5, Add	*5.01*	
		For SDR 13.5, Add	*7.83*	
		For SDR 11, Add	*12.60*	
33 14 13 23-0546	LF	10" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	36.49	6.27
		For SDR 26, Deduct	*-4.39*	
		For SDR 19, Add	*2.16*	
		For SDR 17, Add	*5.32*	
		For SDR 15.5, Add	*7.79*	
		For SDR 13.5, Add	*12.16*	
		For SDR 11, Add	*19.58*	
33 14 13 23-0547	LF	12" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	48.44	7.01
		For SDR 26, Deduct	*-6.33*	
		For SDR 19, Add	*3.11*	
		For SDR 17, Add	*7.67*	
		For SDR 15.5, Add	*11.24*	
		For SDR 13.5, Add	*17.54*	
		For SDR 11, Add	*28.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0548	LF	14" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	56.25	7.89
		For SDR 26, Deduct	*-7.44*	
		For SDR 19, Add	*3.65*	
		For SDR 17, Add	*9.02*	
		For SDR 15.5, Add	*13.21*	
		For SDR 13.5, Add	*20.62*	
		For SDR 11, Add	*33.18*	
33 14 13 23-0549	LF	16" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	70.58	8.77
		For SDR 26, Deduct	*-9.72*	
		For SDR 19, Add	*4.77*	
		For SDR 17, Add	*11.78*	
		For SDR 15.5, Add	*17.26*	
		For SDR 13.5, Add	*26.93*	
		For SDR 11, Add	*43.35*	
33 14 13 23-0550	LF	18" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	88.13	10.52
		For SDR 26, Deduct	*-12.28*	
		For SDR 19, Add	*6.03*	
		For SDR 17, Add	*14.89*	
		For SDR 15.5, Add	*21.81*	
		For SDR 13.5, Add	*34.04*	
		For SDR 11, Add	*54.79*	
33 14 13 23-0551	LF	20" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	83.77	12.54
		For SDR 26, Deduct	*-10.76*	
		For SDR 19, Add	*5.28*	
		For SDR 17, Add	*13.05*	
		For SDR 15.5, Add	*19.10*	
		For SDR 13.5, Add	*29.82*	
		For SDR 11, Add	*48.00*	
33 14 13 23-0552	LF	24" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	149.33	15.04
		For SDR 26, Deduct	*-21.86*	
		For SDR 19, Add	*10.73*	
		For SDR 17, Add	*26.50*	
		For SDR 15.5, Add	*38.81*	
		For SDR 13.5, Add	*60.57*	
		For SDR 11, Add	*97.50*	

33 14 13 23-0553 90 Degree Elbows, High-Density Polyethylene (HDPE) Pressure Piping *(33 14 13 23-0540)*

33 14 13 23-0554	EA	3" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	65.88	17.22
		For SDR 26, Deduct	*-2.61*	
		For SDR 19, Add	*1.28*	
		For SDR 17, Add	*3.16*	
		For SDR 15.5, Add	*4.63*	
		For SDR 13.5, Add	*7.22*	
		For SDR 11, Add	*11.62*	
33 14 13 23-0555	EA	4" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	74.34	19.14
		For SDR 26, Deduct	*-3.11*	
		For SDR 19, Add	*1.52*	
		For SDR 17, Add	*3.76*	
		For SDR 15.5, Add	*5.51*	
		For SDR 13.5, Add	*8.60*	
		For SDR 11, Add	*13.85*	
33 14 13 23-0556	EA	6" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	110.61	21.87
		For SDR 26, Deduct	*-8.26*	
		For SDR 19, Add	*4.05*	
		For SDR 17, Add	*10.01*	
		For SDR 15.5, Add	*14.66*	
		For SDR 13.5, Add	*22.88*	
		For SDR 11, Add	*36.83*	
33 14 13 23-0557	EA	8" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	170.73	25.53
		For SDR 26, Deduct	*-17.26*	
		For SDR 19, Add	*8.48*	
		For SDR 17, Add	*20.92*	
		For SDR 15.5, Add	*30.64*	
		For SDR 13.5, Add	*47.83*	
		For SDR 11, Add	*76.98*	
33 14 13 23-0558	EA	10" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	259.23	34.10
		For SDR 26, Deduct	*-28.81*	
		For SDR 19, Add	*14.15*	
		For SDR 17, Add	*34.93*	
		For SDR 15.5, Add	*51.15*	
		For SDR 13.5, Add	*79.83*	
		For SDR 11, Add	*128.49*	
33 14 13 23-0559	EA	12" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	383.19	51.03
		For SDR 26, Deduct	*-42.19*	
		For SDR 19, Add	*20.72*	
		For SDR 17, Add	*51.14*	
		For SDR 15.5, Add	*74.90*	
		For SDR 13.5, Add	*116.90*	
		For SDR 11, Add	*188.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0560	EA	14" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	478.58	68.10
		For SDR 26, Deduct	*-50.29*	
		For SDR 19, Add	*24.69*	
		For SDR 17, Add	*60.97*	
		For SDR 15.5, Add	*89.28*	
		For SDR 13.5, Add	*139.36*	
		For SDR 11, Add	*224.31*	
33 14 13 23-0561	EA	16" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	634.62	102.05
		For SDR 26, Deduct	*-60.23*	
		For SDR 19, Add	*29.57*	
		For SDR 17, Add	*73.01*	
		For SDR 15.5, Add	*106.92*	
		For SDR 13.5, Add	*166.89*	
		For SDR 11, Add	*268.61*	
33 14 13 23-0562	EA	18" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	791.56	114.80
		For SDR 26, Deduct	*-81.96*	
		For SDR 19, Add	*40.24*	
		For SDR 17, Add	*99.35*	
		For SDR 15.5, Add	*145.50*	
		For SDR 13.5, Add	*227.10*	
		For SDR 11, Add	*365.54*	
33 14 13 23-0563	EA	20" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,067.31	130.29
		For SDR 26, Deduct	*-123.25*	
		For SDR 19, Add	*60.52*	
		For SDR 17, Add	*149.41*	
		For SDR 15.5, Add	*218.80*	
		For SDR 13.5, Add	*341.52*	
		For SDR 11, Add	*549.70*	
33 14 13 23-0564	EA	24" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,356.87	153.14
		For SDR 26, Deduct	*-164.54*	
		For SDR 19, Add	*80.79*	
		For SDR 17, Add	*199.46*	
		For SDR 15.5, Add	*292.10*	
		For SDR 13.5, Add	*455.93*	
		For SDR 11, Add	*733.85*	
33 14 13 23-0565		Tees, High-Density Polyethylene (HDPE) Pressure Piping *(33 14 13 23-0540)*		
33 14 13 23-0566	EA	3" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	72.55	18.02
		For SDR 26, Deduct	*-3.41*	
		For SDR 19, Add	*1.67*	
		For SDR 17, Add	*4.13*	
		For SDR 15.5, Add	*6.05*	
		For SDR 13.5, Add	*9.44*	
		For SDR 11, Add	*15.20*	
33 14 13 23-0567	EA	4" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	83.08	20.41
		For SDR 26, Deduct	*-4.01*	
		For SDR 19, Add	*1.97*	
		For SDR 17, Add	*4.86*	
		For SDR 15.5, Add	*7.12*	
		For SDR 13.5, Add	*11.11*	
		For SDR 11, Add	*17.89*	
33 14 13 23-0568	EA	6" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	127.82	23.56
		For SDR 26, Deduct	*-10.48*	
		For SDR 19, Add	*5.15*	
		For SDR 17, Add	*12.71*	
		For SDR 15.5, Add	*18.61*	
		For SDR 13.5, Add	*29.05*	
		For SDR 11, Add	*46.76*	
33 14 13 23-0569	EA	8" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	228.58	27.84
		For SDR 26, Deduct	*-26.60*	
		For SDR 19, Add	*13.06*	
		For SDR 17, Add	*32.25*	
		For SDR 15.5, Add	*47.22*	
		For SDR 13.5, Add	*73.71*	
		For SDR 11, Add	*118.64*	
33 14 13 23-0570	EA	10" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	313.66	40.87
		For SDR 26, Deduct	*-35.05*	
		For SDR 19, Add	*17.21*	
		For SDR 17, Add	*42.48*	
		For SDR 15.5, Add	*62.21*	
		For SDR 13.5, Add	*97.11*	
		For SDR 11, Add	*156.30*	
33 14 13 23-0571	EA	12" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	444.78	61.31
		For SDR 26, Deduct	*-47.85*	
		For SDR 19, Add	*23.50*	
		For SDR 17, Add	*58.01*	
		For SDR 15.5, Add	*84.95*	
		For SDR 13.5, Add	*132.59*	
		For SDR 11, Add	*213.42*	
33 14 13 23-0572	EA	14" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	536.73	76.58
		For SDR 26, Deduct	*-56.30*	
		For SDR 19, Add	*27.64*	
		For SDR 17, Add	*68.24*	
		For SDR 15.5, Add	*99.94*	
		For SDR 13.5, Add	*155.99*	
		For SDR 11, Add	*251.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0573	EA	16" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	709.28	114.80
		For SDR 26, Deduct	*-66.85*	
		For SDR 19, Add	*32.82*	
		For SDR 17, Add	*81.04*	
		For SDR 15.5, Add	*118.68*	
		For SDR 13.5, Add	*185.24*	
		For SDR 11, Add	*298.16*	
33 14 13 23-0574	EA	18" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	907.91	133.74
		For SDR 26, Deduct	*-92.89*	
		For SDR 19, Add	*45.61*	
		For SDR 17, Add	*112.60*	
		For SDR 15.5, Add	*164.90*	
		For SDR 13.5, Add	*257.38*	
		For SDR 11, Add	*414.28*	
33 14 13 23-0575	EA	20" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,260.47	157.97
		For SDR 26, Deduct	*-143.20*	
		For SDR 19, Add	*70.31*	
		For SDR 17, Add	*173.60*	
		For SDR 15.5, Add	*254.22*	
		For SDR 13.5, Add	*396.80*	
		For SDR 11, Add	*638.68*	
33 14 13 23-0576	EA	24" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,629.76	191.49
		For SDR 26, Deduct	*-193.52*	
		For SDR 19, Add	*95.02*	
		For SDR 17, Add	*234.59*	
		For SDR 15.5, Add	*343.54*	
		For SDR 13.5, Add	*536.22*	
		For SDR 11, Add	*863.08*	

33 14 13 23-0577 AWWA C909 Oriented Polyvinyl Chloride (PVCO) Pipe *(33 14 13 23)*

Note: Includes hub on one end of pipe.

33 14 13 23-0578 AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe *(33 14 13 23-0577)*

33 14 13 23-0579	LF	6" AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe	19.89	5.01
33 14 13 23-0580	LF	8" AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe	28.20	5.63
33 14 13 23-0581	LF	10" AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe	38.27	6.27
33 14 13 23-0582	LF	12" AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe	50.33	7.01

33 14 13 23-0583 AWWA C901, High-Density Polyethylene (HDPE) Tubing *(33 14 13 23)*

33 14 13 23-0584	LF	3/4" AWWA C901, SDR 7, High-Density Polyethylene (HDPE) Tubing	3.36	1.30
		For Work In Restricted Working Space, Add	*0.78*	
33 14 13 23-0585	LF	1" AWWA C901, SDR 7, High-Density Polyethylene (HDPE) Tubing	3.75	1.12
		For Work In Restricted Working Space, Add	*0.84*	
33 14 13 23-0586	LF	1-1/2" AWWA C901, SDR 7, High-Density Polyethylene (HDPE) Tubing	4.80	1.12
		For Work In Restricted Working Space, Add	*0.84*	
33 14 13 23-0587	LF	2" AWWA C901, SDR 9, High-Density Polyethylene (HDPE) Tubing	6.21	1.51
		For Work In Restricted Working Space, Add	*1.13*	

33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping *(33 14 13)*

See CSI section 22 11 16 00-0013 for galvanized steel pipe.

33 14 13 36 Steel Public Water Utility Distribution Piping *(33 14 13)*

33 14 13 36-0001 Steel Piping *(33 14 13 36)*

33 14 13 36-0002 Welded, Plain End, Uncoated, Steel Piping *(33 14 13 36-0001)*

Note: ASTM A252 steel pipe. See CSI section 33 14 13 43-0001 for pipe coatings, 33 14 13 43-0053 for pipe linings.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping *(33 14 13 36-0002)*

33 14 13 36-0004	LF	8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	128.06	31.04
		For <100, Add	*13.46*	
		For >1,000, Deduct	*-6.40*	
33 14 13 36-0005	LF	8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	153.86	31.04
		For <100, Add	*14.75*	
		For >1,000, Deduct	*-7.69*	
33 14 13 36-0006	LF	10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	152.77	33.86
		For <100, Add	*15.34*	
		For >1,000, Deduct	*-7.64*	
33 14 13 36-0007	LF	10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	185.38	33.86
		For <100, Add	*16.97*	
		For >1,000, Deduct	*-9.27*	
33 14 13 36-0008	LF	12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	185.63	35.48
		For <100, Add	*17.34*	
		For >1,000, Deduct	*-9.28*	
33 14 13 36-0009	LF	12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	211.00	35.48
		For <100, Add	*18.61*	
		For >1,000, Deduct	*-10.55*	
33 14 13 36-0010	LF	14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	225.39	39.21
		For <100, Add	*20.18*	
		For >1,000, Deduct	*-11.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0011	LF	14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	245.66	39.21
		For <100, Add	*21.19*	
		For >1,000, Deduct	*-12.28*	
33 14 13 36-0012	LF	16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	239.25	41.39
		For <100, Add	*21.37*	
		For >1,000, Deduct	*-11.96*	
33 14 13 36-0013	LF	16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	254.90	41.39
		For <100, Add	*22.15*	
		For >1,000, Deduct	*-12.75*	
33 14 13 36-0014	LF	18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	297.09	46.56
		For <100, Add	*25.44*	
		For >1,000, Deduct	*-14.85*	
33 14 13 36-0015	LF	20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	322.74	46.56
		For <100, Add	*26.72*	
		For >1,000, Deduct	*-16.14*	
33 14 13 36-0016		5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping *(33 14 13 36-0002)*		
33 14 13 36-0017	LF	12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	257.37	61.39
		For <100, Add	*22.52*	
		For >1,000, Deduct	*-12.87*	
33 14 13 36-0018	LF	14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	305.89	67.53
		For <100, Add	*25.96*	
		For >1,000, Deduct	*-15.29*	
33 14 13 36-0019	LF	16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	340.12	70.61
		For <100, Add	*28.26*	
		For >1,000, Deduct	*-17.01*	
33 14 13 36-0020	LF	18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	383.72	79.81
		For <100, Add	*31.85*	
		For >1,000, Deduct	*-19.19*	
33 14 13 36-0021	LF	18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	401.11	79.81
		For <100, Add	*32.72*	
		For >1,000, Deduct	*-20.06*	
33 14 13 36-0022	LF	20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	417.20	79.81
		For <100, Add	*33.52*	
		For >1,000, Deduct	*-20.86*	
33 14 13 36-0023	LF	20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	435.75	79.81
		For <100, Add	*34.45*	
		For >1,000, Deduct	*-21.79*	
33 14 13 36-0024	LF	24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	505.20	92.09
		For <100, Add	*39.73*	
		For >1,000, Deduct	*-25.26*	
33 14 13 36-0025	LF	24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	562.59	92.09
		For <100, Add	*42.60*	
		For >1,000, Deduct	*-28.13*	
33 14 13 36-0026	LF	24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	703.47	92.09
		For <100, Add	*49.64*	
		For >1,000, Deduct	*-35.17*	
33 14 13 36-0027	LF	30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	628.53	107.43
		For <100, Add	*48.31*	
		For >1,000, Deduct	*-31.43*	
33 14 13 36-0028	LF	30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	652.01	107.43
		For <100, Add	*49.48*	
		For >1,000, Deduct	*-32.60*	
33 14 13 36-0029	LF	30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	873.48	107.43
		For <100, Add	*60.56*	
		For >1,000, Deduct	*-43.67*	
33 14 13 36-0030	LF	36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	750.28	107.43
		For <100, Add	*54.40*	
		For >1,000, Deduct	*-37.51*	
33 14 13 36-0031	LF	36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	879.46	128.93
		For <100, Add	*64.23*	
		For >1,000, Deduct	*-43.97*	
33 14 13 36-0032	LF	36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,051.22	128.93
		For <100, Add	*72.82*	
		For >1,000, Deduct	*-52.56*	
33 14 13 36-0033	LF	36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,008.32	128.93
		For <100, Add	*70.68*	
		For >1,000, Deduct	*-50.42*	
33 14 13 36-0034	LF	42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,548.73	144.27
		For <100, Add	*99.95*	
		For >1,000, Deduct	*-77.44*	
33 14 13 36-0035	LF	42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	936.22	144.27
		For <100, Add	*69.32*	
		For >1,000, Deduct	*-46.81*	
33 14 13 36-0036	LF	48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,776.20	162.69
		For <100, Add	*114.13*	
		For >1,000, Deduct	*-88.81*	
33 14 13 36-0037	LF	48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,026.87	162.69
		For <100, Add	*76.67*	
		For >1,000, Deduct	*-51.34*	
33 14 13 36-0038	LF	54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,859.73	184.17
		For <100, Add	*121.93*	
		For >1,000, Deduct	*-92.99*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0039	LF	54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	2,055.40	184.17
		For <100, Add	*131.71*	
		For >1,000, Deduct	*-102.77*	
33 14 13 36-0040	LF	60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	2,297.72	214.87
		For <100, Add	*148.65*	
		For >1,000, Deduct	*-114.89*	
33 14 13 36-0041	LF	66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,602.02	214.87
		For <100, Add	*113.87*	
		For >1,000, Deduct	*-80.10*	
33 14 13 36-0042	LF	72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,765.59	175.50
		For <100, Add	*140.93*	
		For >1,000, Deduct	*-88.28*	
33 14 13 36-0043	LF	78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	3,336.72	175.50
		For <100, Add	*219.48*	
		For >1,000, Deduct	*-166.84*	

33 14 13 36-0044 Flexible Couplings (Dresser Style 38) *(33 14 13 36-0001)*

33 14 13 36-0045	EA	2" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	163.96	31.10
		For 7" Length, Add	*10.41*	
33 14 13 36-0046	EA	3" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	228.38	59.82
		For 7" Length, Add	*10.87*	
33 14 13 36-0047	EA	4" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	303.79	78.97
		For 7" Length, Add	*14.43*	
33 14 13 36-0048	EA	6" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	490.75	119.65
		For 7" Length, Add	*25.15*	
33 14 13 36-0049	EA	8" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	648.27	150.75
		For 7" Length, Add	*34.92*	
33 14 13 36-0050	EA	10" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	902.92	179.48
		For 7" Length, Add	*54.40*	
33 14 13 36-0051	EA	12" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,062.80	224.95
		For 7" Length, Add	*61.41*	
33 14 13 36-0052	EA	14" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,146.01	224.95
		For 10" Length, Add	*40.04*	
33 14 13 36-0053	EA	16" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,208.06	257.25
		For 10" Length, Add	*41.72*	
33 14 13 36-0054	EA	18" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,328.37	275.20
		For 10" Length, Add	*46.68*	
33 14 13 36-0055	EA	20" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,449.73	311.10
		For 10" Length, Add	*51.09*	
33 14 13 36-0056	EA	24" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,867.91	329.05
		For 10" Length, Add	*72.59*	
33 14 13 36-0057	EA	30" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	2,267.72	358.96
		For 10" Length, Add	*92.99*	
33 14 13 36-0058	EA	36" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	2,672.92	403.83
		For 10" Length, Add	*111.92*	
33 14 13 36-0059	EA	42" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	3,099.58	454.69
		For 10" Length, Add	*132.13*	
33 14 13 36-0060	EA	48" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	3,604.43	523.49
		For 10" Length, Add	*153.45*	
33 14 13 36-0061	EA	54" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	3,983.72	598.27
		For 10" Length, Add	*167.23*	
33 14 13 36-0062	EA	60" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	4,540.12	747.84
		For 10" Length, Add	*182.67*	
33 14 13 36-0063	EA	66" Diameter x 10" Length, Dresser Coupling For Plain End Welded Steel Pipe	5,203.74	909.37
		For 12" Length, Add	*170.45*	
33 14 13 36-0064	EA	72" Diameter x 10" Length, Dresser Coupling For Plain End Welded Steel Pipe	6,196.70	1,076.89
		For 12" Length, Add	*202.15*	

33 14 13 36-0065 Welded, Plain End, Cement Mortar Lined And Coated, Steel Piping *(33 14 13 36-0001)*

Note: Pipe manufacture shall be in accordance with AWWA C200, ANSI/ASTM A 139, API 5 L, or API 5 LX

33 14 13 36-0066	LF	4" Diameter, Schedule 10 (0.12" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	77.55	23.34
33 14 13 36-0067	LF	4" Diameter, Schedule 40 (0.237" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	102.29	23.34
33 14 13 36-0068	LF	6" Diameter, Schedule 10 (0.134" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	103.64	31.04
33 14 13 36-0069	LF	6" Diameter, Schedule 40 (0.28" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	149.89	31.04
33 14 13 36-0070	LF	8" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	176.63	31.04
33 14 13 36-0071	LF	8" Diameter, Schedule 40 (0.322" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	204.41	31.04
33 14 13 36-0072	LF	10" Diameter, Schedule 10 (0.165" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	179.38	33.86
33 14 13 36-0073	LF	10" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	211.99	33.86
33 14 13 36-0074	LF	10" Diameter, Schedule 40 (0.365" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	244.17	33.86
33 14 13 36-0075	LF	12" Diameter, Schedule 10 (0.18" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	216.52	35.48
33 14 13 36-0076	LF	12" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	241.89	35.48

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0077	LF	12" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	316.30	35.48
33 14 13 36-0078	LF	14" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	281.81	39.21
33 14 13 36-0079	LF	14" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	330.36	39.21
33 14 13 36-0080	LF	14" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	377.32	39.21
33 14 13 36-0081	LF	16" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	295.97	41.39
33 14 13 36-0082	LF	16" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	368.87	41.39
33 14 13 36-0083	LF	16" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	421.89	41.39
33 14 13 36-0084	LF	18" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	343.42	46.56
33 14 13 36-0085	LF	18" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	416.18	46.56
33 14 13 36-0086	LF	18" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	433.57	46.56
33 14 13 36-0087	LF	20" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	378.08	49.00
33 14 13 36-0088	LF	20" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	458.66	49.00
33 14 13 36-0089	LF	20" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	458.66	49.00
33 14 13 36-0090	LF	24" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	550.02	52.46
33 14 13 36-0091	LF	24" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	607.42	52.46
33 14 13 36-0092	LF	30" Diameter, Schedule 10 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	686.83	61.83
33 14 13 36-0093	LF	30" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated, Steel Pipe	710.31	61.83

33 14 13 36-0094 Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Piping *(33 14 13 36-0001)*

Note: Pipe manufacture shall be in accordance with AWWA C200, ANSI/ASTM A 139, API 5 L, or API 5 LX

33 14 13 36-0095	LF	4" Diameter, Schedule 10 (0.12" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	78.22	23.34
33 14 13 36-0096	LF	4" Diameter, Schedule 40 (0.237" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	103.57	23.34
33 14 13 36-0097	LF	6" Diameter, Schedule 10 (0.134" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	104.75	31.04
33 14 13 36-0098	LF	6" Diameter, Schedule 40 (0.28" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	152.15	31.04
33 14 13 36-0099	LF	8" Diameter, Schedule 10 (0.148" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	152.86	31.04
33 14 13 36-0100	LF	8" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	179.30	31.04
33 14 13 36-0101	LF	8" Diameter, Schedule 40 (0.322" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	206.54	31.04
33 14 13 36-0102	LF	10" Diameter, Schedule 10 (0.165" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	179.66	33.86
33 14 13 36-0103	LF	10" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	214.95	33.86
33 14 13 36-0104	LF	10" Diameter, Schedule 40 (0.365" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	222.33	33.86
33 14 13 36-0105	LF	12" Diameter, Schedule 10 (0.18" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	219.82	35.48
33 14 13 36-0106	LF	12" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	245.82	35.48
33 14 13 36-0107	LF	12" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	316.68	35.48
33 14 13 36-0108	LF	14" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	265.69	39.21
33 14 13 36-0109	LF	14" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	336.23	39.21
33 14 13 36-0110	LF	14" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	377.79	39.21
33 14 13 36-0111	LF	14" Diameter, Schedule 40 (0.438" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	425.20	39.21
33 14 13 36-0112	LF	16" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	300.77	41.39
33 14 13 36-0113	LF	16" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	375.50	41.39
33 14 13 36-0114	LF	16" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	422.42	41.39
33 14 13 36-0115	LF	16" Diameter, Schedule 40 (0.500" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	528.63	41.39
33 14 13 36-0116	LF	18" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	349.08	46.56
33 14 13 36-0117	LF	18" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	423.66	46.56

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0118	LF	18" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	423.66	46.56
33 14 13 36-0119	LF	18" Diameter, Schedule 40 (0.562" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	576.64	46.56
33 14 13 36-0120	LF	20" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	384.38	49.00
33 14 13 36-0121	LF	20" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	466.98	49.00
33 14 13 36-0122	LF	20" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	486.00	49.00
33 14 13 36-0123	LF	20" Diameter, Schedule 40 (0.594" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	696.31	49.00
33 14 13 36-0124	LF	24" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	560.24	52.46
33 14 13 36-0125	LF	24" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	619.07	52.46
33 14 13 36-0126	LF	24" Diameter, Schedule 40 (0.687" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	1,016.58	52.46
33 14 13 36-0127	LF	30" Diameter, Schedule 10 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	699.73	61.83
33 14 13 36-0128	LF	30" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated, Steel Pipe	723.79	61.83

33 14 13 36-0129 Plain End Steel Pipe Fittings, Standard Wall Thickness *(33 14 13 36-0001)*

See CSI section 33 14 13 36-0344 for flanged end fittings.

33 14 13 36-0130 90 Degree Elbows, Standard Wall Thickness, Steel *(33 14 13 36-0129)*

33 14 13 36-0131	EA	4" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	407.68	224.72
33 14 13 36-0132	EA	6" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	711.79	370.94
33 14 13 36-0133	EA	8" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,066.52	521.40
33 14 13 36-0134	EA	10" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,404.49	595.79
33 14 13 36-0135	EA	12" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,910.13	779.60
33 14 13 36-0136	EA	14" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	2,384.51	921.45
33 14 13 36-0137	EA	16" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	2,979.02	1,076.01
33 14 13 36-0138	EA	18" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	3,558.36	1,199.93
33 14 13 36-0139	EA	20" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	4,570.29	1,345.38
33 14 13 36-0140	EA	24" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	5,444.07	1,390.26

33 14 13 36-0141 45 Degree Elbows, Standard Wall Thickness, Steel *(33 14 13 36-0129)*

33 14 13 36-0142	EA	4" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	392.59	224.72
33 14 13 36-0143	EA	6" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	674.67	370.94
33 14 13 36-0144	EA	8" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	997.63	521.40
33 14 13 36-0145	EA	10" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,278.02	595.79
33 14 13 36-0146	EA	12" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,726.74	779.60
33 14 13 36-0147	EA	14" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	2,136.30	921.45
33 14 13 36-0148	EA	16" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	2,639.26	1,076.01
33 14 13 36-0149	EA	18" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	3,121.08	1,199.93
33 14 13 36-0150	EA	20" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	3,927.58	1,345.38
33 14 13 36-0151	EA	24" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	4,604.11	1,390.26

33 14 13 36-0152 22.5 Degree Elbows, Standard Wall Thickness, Steel *(33 14 13 36-0129)*

33 14 13 36-0153	EA	4" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	388.51	224.72
33 14 13 36-0154	EA	6" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	664.63	370.94
33 14 13 36-0155	EA	8" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	974.44	521.40
33 14 13 36-0156	EA	10" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,238.48	595.79
33 14 13 36-0157	EA	12" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,669.40	779.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0158	EA	14" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	2,058.29	921.45
33 14 13 36-0159	EA	16" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	2,532.96	1,076.01
33 14 13 36-0160	EA	18" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	2,984.23	1,199.93
33 14 13 36-0161	EA	20" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	3,728.97	1,345.38
33 14 13 36-0162	EA	24" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	4,315.07	1,390.26
33 14 13 36-0163		**11.25 Degree Elbows, Standard Wall Thickness, Steel** *(33 14 13 36-0129)*		
33 14 13 36-0164	EA	4" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	390.96	224.72
33 14 13 36-0165	EA	6" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	670.65	370.94
33 14 13 36-0166	EA	8" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	985.62	521.40
33 14 13 36-0167	EA	10" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,259.01	595.79
33 14 13 36-0168	EA	12" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,699.17	779.60
33 14 13 36-0169		**Tees, Standard Wall Thickness, Steel** *(33 14 13 36-0129)*		
33 14 13 36-0170	EA	4"x4"x4" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	631.35	337.08
33 14 13 36-0171	EA	6"x6"x6" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,050.35	556.29
33 14 13 36-0172	EA	8"x8"x8" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,567.81	782.03
33 14 13 36-0173	EA	10"x10"x10" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	1,992.86	893.75
33 14 13 36-0174	EA	12"x12"x12" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	2,737.77	1,169.39
33 14 13 36-0175	EA	14"x14"x14" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	3,633.00	1,382.32
33 14 13 36-0176	EA	16"x16"x16" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	4,317.86	1,614.09
33 14 13 36-0177	EA	18"x18"x18" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	5,738.87	1,799.87
33 14 13 36-0178	EA	20"x20"x20" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	7,655.38	2,018.13
33 14 13 36-0179	EA	24"x24"x24" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	8,830.07	2,085.34
33 14 13 36-0180	EA	30"x30"x30" Tees, Steel, Standard Wall Thickness, Plain End, Class 150, Cement Mortar Lined And Coated	12,487.84	2,455.38
33 14 13 36-0181		**Concentric Reducers, Standard Wall Thickness, Steel** *(33 14 13 36-0129)*		
33 14 13 36-0182	EA	6" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	615.36	370.94
33 14 13 36-0183	EA	8" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	876.09	521.40
33 14 13 36-0184	EA	8" x 6", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	860.63	521.40
33 14 13 36-0185	EA	10" x 8", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,035.14	595.79
33 14 13 36-0186	EA	12" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,584.27	779.60
33 14 13 36-0187	EA	12" x 6", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,378.56	779.60
33 14 13 36-0188	EA	12" x 8", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,371.54	779.60
33 14 13 36-0189	EA	12" x 10", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,352.16	779.60
33 14 13 36-0190		**Reducing Tees, Standard Wall Thickness, Steel** *(33 14 13 36-0129)*		
33 14 13 36-0191	EA	6"x6"x4", Reducing Tee, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,051.17	556.29
33 14 13 36-0192	EA	8"x8"x6", Reducing Tee, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,569.39	782.03
33 14 13 36-0193	EA	10"x10"x 8" Reducing Tees, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,995.53	893.75
33 14 13 36-0194	EA	12"x12"x6" Reducing Tees, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	2,741.81	1,169.39
33 14 13 36-0195		**Welded Neck Flanges, Steel, Class 150** *(33 14 13 36-0129)*		
33 14 13 36-0196	EA	4" Weld Neck Flange, Steel, Class 150	330.66	182.01
33 14 13 36-0197	EA	6" Weld Neck Flange, Steel, Class 150	502.62	276.02
33 14 13 36-0198	EA	8" Weld Neck Flange, Steel, Class 150	589.81	300.66
33 14 13 36-0199	EA	10" Weld Neck Flange, Steel, Class 150	768.56	376.97
33 14 13 36-0200	EA	12" Weld Neck Flange, Steel, Class 150	937.79	427.77
33 14 13 36-0201	EA	14" Weld Neck Flange, Steel, Class 150	1,225.60	517.29
33 14 13 36-0202	EA	16" Weld Neck Flange, Steel, Class 150	1,604.46	601.18
33 14 13 36-0203	EA	18" Weld Neck Flange, Steel, Class 150	1,986.72	674.03
33 14 13 36-0204	EA	20" Weld Neck Flange, Steel, Class 150	2,519.00	855.53
33 14 13 36-0205	EA	24" Weld Neck Flange, Steel, Class 150	2,857.62	926.85

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0206		**Welded Neck Flanges, Steel, Class 300** *(33 14 13 36-0129)*		
33 14 13 36-0207	EA	4" Weld Neck Flange, Steel, Class 300	371.08	182.01
33 14 13 36-0208	EA	6" Weld Neck Flange, Steel, Class 300	564.82	276.02
33 14 13 36-0209	EA	8" Weld Neck Flange, Steel, Class 300	687.22	300.66
33 14 13 36-0210	EA	10" Weld Neck Flange, Steel, Class 300	910.88	376.97
33 14 13 36-0211	EA	12" Weld Neck Flange, Steel, Class 300	1,145.31	427.77
33 14 13 36-0212	EA	14" Weld Neck Flange, Steel, Class 300	1,540.63	517.29
33 14 13 36-0213	EA	16" Weld Neck Flange, Steel, Class 300	2,096.65	601.18
33 14 13 36-0214	EA	18" Weld Neck Flange, Steel, Class 300	2,670.02	674.03
33 14 13 36-0215	EA	20" Weld Neck Flange, Steel, Class 300	3,384.44	855.53
33 14 13 36-0216	EA	24" Weld Neck Flange, Steel, Class 300	3,885.30	926.85
33 14 13 36-0217		**Slip-on Flanges, Steel, Class 150** *(33 14 13 36-0129)*		
33 14 13 36-0218	EA	4" Slip-on Flange, Steel, Class 150	209.99	112.36
33 14 13 36-0219	EA	6" Slip-on Flange, Steel, Class 150	342.07	185.47
33 14 13 36-0220	EA	8" Slip-on Flange, Steel, Class 150	488.18	260.63
33 14 13 36-0221	EA	10" Slip-on Flange, Steel, Class 150	614.68	297.96
33 14 13 36-0222	EA	12" Slip-on Flange, Steel, Class 150	849.53	389.80
33 14 13 36-0223	EA	14" Slip-on Flange, Steel, Class 150	1,078.25	460.73
33 14 13 36-0224	EA	16" Slip-on Flange, Steel, Class 150	1,328.27	538.08
33 14 13 36-0225	EA	18" Slip-on Flange, Steel, Class 150	1,484.25	599.89
33 14 13 36-0226	EA	20" Slip-on Flange, Steel, Class 150	1,673.33	672.75
33 14 13 36-0227	EA	24" Slip-on Flange, Steel, Class 150	1,789.09	695.07
33 14 13 36-0228	EA	30" Slip-on Flange, Steel, Class 150	2,347.52	818.46
33 14 13 36-0229		**Slip-on Flanges, Steel, Class 300** *(33 14 13 36-0129)*		
33 14 13 36-0230	EA	4" Slip-on Flange, Steel, Class 300	241.17	112.36
33 14 13 36-0231	EA	6" Slip-on Flange, Steel, Class 300	390.06	185.47
33 14 13 36-0232	EA	8" Slip-on Flange, Steel, Class 300	561.19	260.63
33 14 13 36-0233	EA	10" Slip-on Flange, Steel, Class 300	740.73	297.96
33 14 13 36-0234	EA	12" Slip-on Flange, Steel, Class 300	1,048.41	389.80
33 14 13 36-0235	EA	14" Slip-on Flange, Steel, Class 300	1,368.81	460.73
33 14 13 36-0236	EA	16" Slip-on Flange, Steel, Class 300	1,719.48	538.08
33 14 13 36-0237	EA	18" Slip-on Flange, Steel, Class 300	1,922.89	599.89
33 14 13 36-0238	EA	20" Slip-on Flange, Steel, Class 300	2,171.91	672.75
33 14 13 36-0239	EA	24" Slip-on Flange, Steel, Class 300	2,349.29	695.07
33 14 13 36-0240	EA	30" Slip-on Flange, Steel, Class 300	3,243.85	818.46
33 14 13 36-0241		**Blind Flanges, Steel, Class 150** *(33 14 13 36-0129)*		
33 14 13 36-0242	EA	4" Blind Flange, Steel, Class 150	227.48	112.36
33 14 13 36-0243	EA	6" Blind Flange, Steel, Class 150	367.59	185.47
33 14 13 36-0244	EA	8" Blind Flange, Steel, Class 150	532.82	260.63
33 14 13 36-0245	EA	10" Blind Flange, Steel, Class 150	723.90	297.96
33 14 13 36-0246	EA	12" Blind Flange, Steel, Class 150	976.82	389.80
33 14 13 36-0247	EA	14" Blind Flange, Steel, Class 150	1,498.88	460.73
33 14 13 36-0248	EA	16" Blind Flange, Steel, Class 150	1,658.38	538.08
33 14 13 36-0249	EA	18" Blind Flange, Steel, Class 150	1,824.48	599.89
33 14 13 36-0250	EA	20" Blind Flange, Steel, Class 150	2,275.15	672.75
33 14 13 36-0251	EA	24" Blind Flange, Steel, Class 150	2,855.50	695.07
33 14 13 36-0252	EA	30" Blind Flange, Steel, Class 150	4,055.93	818.46
33 14 13 36-0253		**Blind Flanges, Steel, Class 300** *(33 14 13 36-0129)*		
33 14 13 36-0254	EA	4" Blind Flange, Steel, Class 300	271.78	112.36
33 14 13 36-0255	EA	6" Blind Flange, Steel, Class 300	434.73	185.47
33 14 13 36-0256	EA	8" Blind Flange, Steel, Class 300	639.31	260.63
33 14 13 36-0257	EA	10" Blind Flange, Steel, Class 300	931.86	297.96
33 14 13 36-0258	EA	12" Blind Flange, Steel, Class 300	1,271.16	389.80
33 14 13 36-0259	EA	14" Blind Flange, Steel, Class 300	2,104.91	460.73
33 14 13 36-0260	EA	16" Blind Flange, Steel, Class 300	2,297.18	538.08
33 14 13 36-0261	EA	18" Blind Flange, Steel, Class 300	2,518.30	599.89
33 14 13 36-0262	EA	20" Blind Flange, Steel, Class 300	3,225.10	672.75
33 14 13 36-0263	EA	24" Blind Flange, Steel, Class 300	4,215.51	695.07
33 14 13 36-0264	EA	30" Blind Flange, Steel, Class 300	6,177.55	818.46
33 14 13 36-0265		**Screw Flanges, Steel, Class 150** *(33 14 13 36-0129)*		
33 14 13 36-0266	EA	4" Diameter, Screw Flange, Steel, Class 150	220.38	112.36
33 14 13 36-0267	EA	6" Diameter, Screw Flange, Steel, Class 150	358.05	185.47
33 14 13 36-0268	EA	8" Diameter, Screw Flange, Steel, Class 150	516.07	260.63
33 14 13 36-0269	EA	10" Diameter, Screw Flange, Steel, Class 150	629.61	297.96
33 14 13 36-0270	EA	12" Diameter, Screw Flange, Steel, Class 150	851.18	389.80
33 14 13 36-0271		**Screw Flanges, Steel, Class 300** *(33 14 13 36-0129)*		
33 14 13 36-0272	EA	4" Diameter, Screw Flange, Steel, Class 300	264.27	112.36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0273	EA	6" Diameter, Screw Flange, Steel, Class 300	425.58	185.47
33 14 13 36-0274	EA	8" Diameter, Screw Flange, Steel, Class 300	621.82	260.63
33 14 13 36-0275	EA	10" Diameter, Screw Flange, Steel, Class 300	784.13	297.96
33 14 13 36-0276	EA	12" Diameter, Screw Flange, Steel, Class 300	1,076.49	389.80

33 14 13 36-0277 Steel Flange Gaskets *(33 14 13 36-0129)*

33 14 13 36-0278 1/16" Thick Cloth-Inserted Rubber Flange Gasket, Class 150 (Tripac) *(33 14 13 36-0277)*

Note: Labor installation is included with pipe fittings or valves.

33 14 13 36-0279	EA	4" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	4.72	
33 14 13 36-0280	EA	6" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	7.41	
33 14 13 36-0281	EA	8" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	9.89	
33 14 13 36-0282	EA	10" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	15.26	
33 14 13 36-0283	EA	12" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	19.93	
33 14 13 36-0284	EA	14" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	22.87	
33 14 13 36-0285	EA	16" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	28.48	
33 14 13 36-0286	EA	18" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	32.36	
33 14 13 36-0287	EA	20" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	41.80	
33 14 13 36-0288	EA	24" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	51.35	
33 14 13 36-0289	EA	30" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	77.94	

33 14 13 36-0290 1/8" Thick Cloth-Inserted Rubber Flange Gasket, Class 250 (Tripac) *(33 14 13 36-0277)*

Note: Labor installation is included with pipe fittings or valves.

33 14 13 36-0291	EA	4" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	14.46	
33 14 13 36-0292	EA	6" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	27.04	
33 14 13 36-0293	EA	8" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	38.32	
33 14 13 36-0294	EA	10" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	48.76	
33 14 13 36-0295	EA	12" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	59.00	
33 14 13 36-0296	EA	14" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	73.32	
33 14 13 36-0297	EA	16" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	87.09	
33 14 13 36-0298	EA	18" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	120.09	
33 14 13 36-0299	EA	20" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	135.06	
33 14 13 36-0300	EA	24" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	187.70	
33 14 13 36-0301	EA	30" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	331.40	

33 14 13 36-0302 Steel Flange Bolt Packs *(33 14 13 36-0129)*

33 14 13 36-0303 Class 150, Steel Flange Bolt Packs *(33 14 13 36-0302)*

Note: Includes plain finish A307B bolts, A563 heavy hex nut and two structural washers. Labor installation is included with pipe fittings or valves.

33 14 13 36-0304	EA	1" Pipe Diameter, Class 150, Steel Flange Bolt Pack	13.41	
33 14 13 36-0305	EA	1-1/4" Pipe Diameter, Class 150, Steel Flange Bolt Pack	15.04	
33 14 13 36-0306	EA	1-1/2" Pipe Diameter, Class 150, Steel Flange Bolt Pack	15.04	
33 14 13 36-0307	EA	2" Pipe Diameter, Class 150, Steel Flange Bolt Pack	19.38	
33 14 13 36-0308	EA	2-1/2" Pipe Diameter, Class 150, Steel Flange Bolt Pack	19.51	
33 14 13 36-0309	EA	3" Pipe Diameter, Class 150, Steel Flange Bolt Pack	19.51	
33 14 13 36-0310	EA	4" Pipe Diameter, Class 150, Steel Flange Bolt Pack	45.55	
33 14 13 36-0311	EA	5" Pipe Diameter, Class 150, Steel Flange Bolt Pack	65.26	
33 14 13 36-0312	EA	6" Pipe Diameter, Class 150, Steel Flange Bolt Pack	70.28	
33 14 13 36-0313	EA	8" Pipe Diameter, Class 150, Steel Flange Bolt Pack	76.32	
33 14 13 36-0314	EA	10" Pipe Diameter, Class 150, Steel Flange Bolt Pack	171.43	
33 14 13 36-0315	EA	12" Pipe Diameter, Class 150, Steel Flange Bolt Pack	172.93	
33 14 13 36-0316	EA	14" Pipe Diameter, Class 150, Steel Flange Bolt Pack	193.75	
33 14 13 36-0317	EA	16" Pipe Diameter, Class 150, Steel Flange Bolt Pack	325.71	
33 14 13 36-0318	EA	18" Pipe Diameter, Class 150, Steel Flange Bolt Pack	473.18	
33 14 13 36-0319	EA	20" Pipe Diameter, Class 150, Steel Flange Bolt Pack	597.45	
33 14 13 36-0320	EA	22" Pipe Diameter, Class 150, Steel Flange Bolt Pack	854.84	
33 14 13 36-0321	EA	24" Pipe Diameter, Class 150, Steel Flange Bolt Pack	854.84	
33 14 13 36-0322	EA	30" Pipe Diameter, Class 150, Steel Flange Bolt Pack	1,350.78	
33 14 13 36-0323	EA	36" Pipe Diameter, Class 150 Steel Flange, Bolt Set Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.	1,926.91	

33 14 13 36-0324 Class 300, Steel Flange Bolt Packs *(33 14 13 36-0302)*

Note: Includes plain finish A307B bolts, A563 heavy hex nut and two structural washers. Labor installation is included with pipe fittings or valves.

33 14 13 36-0325	EA	1" Pipe Diameter, Class 300, Steel Flange Bolt Pack	19.51	
33 14 13 36-0326	EA	1-1/4" Pipe Diameter, Class 300, Steel Flange Bolt Pack	19.51	
33 14 13 36-0327	EA	1-1/2" Pipe Diameter, Class 300, Steel Flange Bolt Pack	21.83	
33 14 13 36-0328	EA	2" Pipe Diameter, Class 300, Steel Flange Bolt Pack	43.66	
33 14 13 36-0329	EA	2-1/2" Pipe Diameter, Class 300, Steel Flange Bolt Pack	70.28	
33 14 13 36-0330	EA	3" Pipe Diameter, Class 300, Steel Flange Bolt Pack	76.32	
33 14 13 36-0331	EA	3-1/2" Pipe Diameter, Class 300, Steel Flange Bolt Pack	76.32	
33 14 13 36-0332	EA	4" Pipe Diameter, Class 300, Steel Flange Bolt Pack	77.70	
33 14 13 36-0333	EA	5" Pipe Diameter, Class 300, Steel Flange Bolt Pack	78.96	
33 14 13 36-0334	EA	6" Pipe Diameter, Class 300, Steel Flange Bolt Pack	118.44	
33 14 13 36-0335	EA	8" Pipe Diameter, Class 300, Steel Flange Bolt Pack	185.19	
33 14 13 36-0336	EA	10" Pipe Diameter, Class 300, Steel Flange Bolt Pack	347.34	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0337	EA	12" Pipe Diameter, Class 300, Steel Flange Bolt Pack	505.61	
33 14 13 36-0338	EA	14" Pipe Diameter, Class 300, Steel Flange Bolt Pack	694.87	
33 14 13 36-0339	EA	16" Pipe Diameter, Class 300, Steel Flange Bolt Pack	964.84	
33 14 13 36-0340	EA	18" Pipe Diameter, Class 300, Steel Flange Bolt Pack	1,235.87	
33 14 13 36-0341	EA	20" Pipe Diameter, Class 300, Steel Flange Bolt Pack	1,308.66	
33 14 13 36-0342	EA	24" Pipe Diameter, Class 300, Steel Flange Bolt Pack	1,652.61	
33 14 13 36-0343	EA	30" Pipe Diameter, Class 300, Steel Flange Bolt Pack	2,580.99	

33 14 13 36-0344 Flanged Steel Pipe Fittings, Standard Wall Thickness *(33 14 13 36-0001)*

See CSI section 33 14 13 36-0277 for full face gaskets, 33 14 13 36-0303 for bolt pack.

33 14 13 36-0345 Flanged 90 Degree Elbows, Standard Wall Thickness, Steel *(33 14 13 36-0344)*

33 14 13 36-0346	EA	4" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	523.18	224.72
		For Class 300, Add	*138.74*	
33 14 13 36-0347	EA	6" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	889.50	370.94
		For Class 300, Add	*248.44*	
33 14 13 36-0348	EA	8" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,344.82	521.40
		For Class 300, Add	*419.56*	
33 14 13 36-0349	EA	10" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,811.13	595.79
		For Class 300, Add	*683.83*	
33 14 13 36-0350	EA	12" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	2,503.04	779.60
		For Class 300, Add	*994.04*	
33 14 13 36-0351	EA	14" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	3,273.76	921.45
		For Class 300, Add	*1,409.70*	
33 14 13 36-0352	EA	16" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	4,370.92	1,076.01
		For Class 300, Add	*2,054.51*	
33 14 13 36-0353	EA	18" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	5,487.49	1,199.93
		For Class 300, Add	*2,747.98*	
33 14 13 36-0354	EA	20" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	7,013.11	1,345.38
		For Class 300, Add	*3,722.03*	
33 14 13 36-0355	EA	24" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	8,318.53	1,390.26
		For Class 300, Add	*4,644.49*	

33 14 13 36-0356 Flanged 45 Degree Elbows, Standard Wall Thickness, Steel *(33 14 13 36-0344)*

33 14 13 36-0357	EA	4" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	508.09	224.72
		For Class 300, Add	*127.50*	
33 14 13 36-0358	EA	6" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	852.39	370.94
		For Class 300, Add	*220.79*	
33 14 13 36-0359	EA	8" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,275.94	521.40
		For Class 300, Add	*368.25*	
33 14 13 36-0360	EA	10" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,684.66	595.79
		For Class 300, Add	*589.61*	
33 14 13 36-0361	EA	12" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	2,319.66	779.60
		For Class 300, Add	*857.42*	
33 14 13 36-0362	EA	14" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	3,025.54	921.45
		For Class 300, Add	*1,224.78*	
33 14 13 36-0363	EA	16" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	4,031.16	1,076.01
		For Class 300, Add	*1,801.39*	
33 14 13 36-0364	EA	18" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	5,050.21	1,199.93
		For Class 300, Add	*2,422.21*	
33 14 13 36-0365	EA	20" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	6,370.40	1,345.38
		For Class 300, Add	*3,243.21*	
33 14 13 36-0366	EA	24" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	7,478.58	1,390.26
		For Class 300, Add	*4,018.73*	

33 14 13 36-0367 Flanged 22.5 Degree Elbows, Standard Wall Thickness, Steel *(33 14 13 36-0344)*

33 14 13 36-0368	EA	4" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	504.01	224.72
		For Class 300, Add	*124.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0369	EA	6" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	842.34	370.94
		For Class 300, Add	*213.30*	
33 14 13 36-0370	EA	8" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,252.75	521.40
		For Class 300, Add	*350.97*	
33 14 13 36-0371	EA	10" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,645.12	595.79
		For Class 300, Add	*560.15*	
33 14 13 36-0372	EA	12" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	2,262.31	779.60
		For Class 300, Add	*814.69*	
33 14 13 36-0373	EA	14" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	2,891.22	921.45
		For Class 300, Add	*1,124.71*	
33 14 13 36-0374	EA	16" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	3,939.23	1,076.01
		For Class 300, Add	*1,732.90*	
33 14 13 36-0375	EA	18" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	4,931.89	1,199.93
		For Class 300, Add	*2,334.06*	
33 14 13 36-0376	EA	20" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	6,196.50	1,345.38
		For Class 300, Add	*3,113.65*	
33 14 13 36-0377	EA	24" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	7,251.31	1,390.26
		For Class 300, Add	*3,849.42*	

33 14 13 36-0378 Flanged 11.25 Degree Elbows, Standard Wall Thickness, Steel *(33 14 13 36-0344)*

33 14 13 36-0379	EA	4" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	506.46	224.72
		For Class 300, Add	*126.28*	
33 14 13 36-0380	EA	6" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	848.37	370.94
		For Class 300, Add	*217.79*	
33 14 13 36-0381	EA	8" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,263.93	521.40
		For Class 300, Add	*359.30*	
33 14 13 36-0382	EA	10" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,665.65	595.79
		For Class 300, Add	*575.45*	
33 14 13 36-0383	EA	12" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	2,292.09	779.60
		For Class 300, Add	*836.88*	

33 14 13 36-0384 Flanged Tees, Standard Wall Thickness, Steel *(33 14 13 36-0344)*

33 14 13 36-0385	EA	4"x4"x4", Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	804.60	337.08
		For Class 300, Add	*222.93*	
33 14 13 36-0386	EA	6"x6"x6", Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,316.92	556.29
		For Class 300, Add	*359.69*	
33 14 13 36-0387	EA	8"x8"x8", Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,985.27	782.03
		For Class 300, Add	*605.53*	
33 14 13 36-0388	EA	10"x10"x10" Tees, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	2,602.82	893.75
		For Class 300, Add	*940.91*	
33 14 13 36-0389	EA	12"x12"x12" Tees, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	3,627.14	1,169.39
		For Class 300, Add	*1,396.14*	
33 14 13 36-0390	EA	14"x14"x14" Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	4,533.09	1,382.32
33 14 13 36-0391	EA	16"x16"x16" Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	5,724.13	1,614.09
33 14 13 36-0392	EA	18"x18"x18" Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	7,691.16	1,799.87
33 14 13 36-0393	EA	20"x20"x20" Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	10,128.06	2,018.13
33 14 13 36-0394	EA	24"x24"x24" Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	11,766.31	2,085.34

33 14 13 36-0395 Flanged Reducing Tees, Standard Wall Thickness, Steel *(33 14 13 36-0344)*

33 14 13 36-0396	EA	6"x6"x4", Reducing Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,286.64	556.29
		For Class 300, Add	*337.13*	
33 14 13 36-0397	EA	8"x8"x6", Reducing Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,936.55	782.03
		For Class 300, Add	*569.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0398	EA	10"x10"x8" Reducing Tees, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	2,541.33	893.75
		For Class 300, Add	*895.10*	
33 14 13 36-0399	EA	12"x12"x6" Reducing Tees, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	3,423.59	1,169.39
		For Class 300, Add	*1,244.49*	
33 14 13 36-0400		**Flanged Eccentric Reducers, Standard Wall Thickness, Steel** *(33 14 13 36-0344)*		
33 14 13 36-0401	EA	6" x 4", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	785.34	370.94
		For Class 300, Add	*170.84*	
33 14 13 36-0402	EA	8" x 4", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,153.88	521.40
		For Class 300, Add	*277.31*	
33 14 13 36-0403	EA	8" x 6", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,116.92	521.40
		For Class 300, Add	*249.78*	
33 14 13 36-0404	EA	10" x 8", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,380.63	595.79
		For Class 300, Add	*363.11*	
33 14 13 36-0405	EA	12" x 4", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,742.31	779.60
		For Class 300, Add	*427.29*	
33 14 13 36-0406	EA	12" x 6", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	2,033.32	779.60
		For Class 300, Add	*644.10*	
33 14 13 36-0407	EA	12" x 8", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,922.02	779.60
		For Class 300, Add	*561.18*	
33 14 13 36-0408	EA	12" x 10", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,890.59	779.60
		For Class 300, Add	*537.76*	
33 14 13 36-0409		**Flanged Concentric Reducers, Standard Wall Thickness, Steel** *(33 14 13 36-0344)*		
33 14 13 36-0410	EA	6" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	761.97	370.94
		For Class 300, Add	*153.43*	
33 14 13 36-0411	EA	8" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,073.00	521.40
		For Class 300, Add	*217.06*	
33 14 13 36-0412	EA	8" x 6", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,088.64	521.40
		For Class 300, Add	*228.71*	
33 14 13 36-0413	EA	10" x 8", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,377.62	595.79
		For Class 300, Add	*360.86*	
33 14 13 36-0414	EA	12" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,938.48	779.60
		For Class 300, Add	*573.44*	
33 14 13 36-0415	EA	12" x 6", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,763.87	779.60
		For Class 300, Add	*443.36*	
33 14 13 36-0416	EA	12" x 8", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,807.15	779.60
		For Class 300, Add	*475.60*	
33 14 13 36-0417	EA	12" x 10", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	1,851.94	779.60
		For Class 300, Add	*508.97*	
33 14 13 36-0418	EA	14" x 12", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	2,393.89	926.46
		For Class 300, Add	*748.24*	
33 14 13 36-0419	EA	16" x 14", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	3,128.81	1,042.15
33 14 13 36-0420	EA	18" x 16", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	3,918.93	1,191.07
33 14 13 36-0421	EA	20" x 18", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	4,958.12	1,344.73
		For Class 300, Add	*2,191.07*	
33 14 13 36-0422	EA	24" x 20", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	5,619.04	1,389.63
		For Class 300, Add	*2,633.37*	
33 14 13 36-0423		**Flanged Crosses, Standard Wall Thickness, Steel** *(33 14 13 36-0344)*		
33 14 13 36-0424	EA	8" x 8" x 8" x 8", Crosses, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Coated	2,686.54	1,038.94
		For Class 300, Add	*839.49*	
33 14 13 36-0425	EA	12" x 12" x 12" x 12", Crosses, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Coated	4,953.44	1,557.14
		For Class 300, Add	*1,949.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0426		**Grooved-Joint Steel Pipe, Cement Mortar Lined And Epoxy Coated** *(33 14 13 36)*		
		Note: Excludes fittings, elbow, tee, reducer fitting or couplings.		
33 14 13 36-0427	LF	3" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Groved-End Steel Pipe	71.05	27.20
33 14 13 36-0428	LF	4" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Groved-End Steel Pipe	85.33	30.27
33 14 13 36-0429	LF	6" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Groved-End Steel Pipe	147.61	53.10
33 14 13 36-0430	LF	8" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Groved-End Steel Pipe	190.40	60.15
33 14 13 36-0431	LF	10" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Groved-End Steel Pipe	244.98	71.83
33 14 13 36-0432	LF	12" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Groved-End Steel Pipe	296.87	82.48
33 14 13 36-0433		**Grooved-Joint Pipe Fittings** *(33 14 13 36)*		
33 14 13 36-0434		**90 Degree Grooved Elbow** *(33 14 13 36-0433)*		
33 14 13 36-0435	EA	3" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 90 Degree Elbow	202.75	41.30
33 14 13 36-0436	EA	4" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 90 Degree Elbow	236.27	54.51
33 14 13 36-0437	EA	6" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 90 Degree Elbow	547.24	89.14
33 14 13 36-0438	EA	8" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 90 Degree Elbow	1,020.87	106.07
33 14 13 36-0439	EA	10" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 90 Degree Elbow	1,524.73	123.77
33 14 13 36-0440	EA	12" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 90 Degree Elbow	2,354.93	148.53
33 14 13 36-0441		**45 Degree Grooved Elbow** *(33 14 13 36-0433)*		
33 14 13 36-0442	EA	3" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 45 Degree Elbow	202.69	41.30
33 14 13 36-0443	EA	4" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 45 Degree Elbow	236.27	54.51
33 14 13 36-0444	EA	6" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 45 Degree Elbow	547.24	89.14
33 14 13 36-0445	EA	8" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 45 Degree Elbow	1,020.87	106.07
33 14 13 36-0446	EA	10" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 45 Degree Elbow	1,524.73	123.77
33 14 13 36-0447	EA	12" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 45 Degree Elbow	2,354.93	148.53
33 14 13 36-0448		**22.5 Degree Grooved Elbow** *(33 14 13 36-0433)*		
33 14 13 36-0449	EA	3" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 22.5 Degree Elbow	186.95	41.30
33 14 13 36-0450	EA	4" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 22.5 Degree Elbow	247.39	54.51
33 14 13 36-0451	EA	6" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 22.5 Degree Elbow	579.30	89.14
33 14 13 36-0452	EA	8" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 22.5 Degree Elbow	1,083.08	106.07
33 14 13 36-0453	EA	10" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 22.5 Degree Elbow	1,456.08	123.77
33 14 13 36-0454	EA	12" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 22.5 Degree Elbow	1,936.77	148.53
33 14 13 36-0455		**11.25 Degree Grooved Elbow** *(33 14 13 36-0433)*		
33 14 13 36-0456	EA	3" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 11.25 Degree Elbow	186.94	41.30
33 14 13 36-0457	EA	4" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 11.25 Degree Elbow	247.38	54.51
33 14 13 36-0458	EA	6" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 11.25 Degree Elbow	579.28	89.14
33 14 13 36-0459	EA	8" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 11.25 Degree Elbow	1,083.03	106.07
33 14 13 36-0460	EA	10" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 11.25 Degree Elbow	1,456.01	123.77
33 14 13 36-0461	EA	12" Diameter, Schedule 40, Cement Mortar Lined And Epoxy Coated, Grooved-End Steel, 11.25 Degree Elbow	1,936.68	148.53
33 14 13 36-0462		**Grooved Couplings** *(33 14 13 36-0433)*		
33 14 13 36-0463	EA	3" Diameter, Schedule 40, Grooved-End Steel, Coupling	59.48	20.39
33 14 13 36-0464	EA	4" Diameter, Schedule 40, Grooved-End Steel, Coupling	87.58	27.20
33 14 13 36-0465	EA	6" Diameter, Schedule 40, Grooved-End Steel, Coupling	151.50	44.51
33 14 13 36-0466	EA	8" Diameter, Schedule 40, Grooved-End Steel, Coupling	217.58	53.10
33 14 13 36-0467	EA	10" Diameter, Schedule 40, Grooved-End Steel, Coupling	324.87	63.62
33 14 13 36-0468	EA	12" Diameter, Schedule 40, Grooved-End Steel, Coupling	365.60	69.65
33 14 13 39		**Copper Public Water Utility Distribution Piping** *(33 14 13)*		
33 14 13 39-0001		**Type L Copper Water Distribution Piping** *(33 14 13 39)*		
33 14 13 39-0002	LF	1/2" Type L Copper Water Distribution Pipe	8.46	2.22
33 14 13 39-0003	LF	3/4" Type L Copper Water Distribution Pipe	10.75	2.50
33 14 13 39-0004	LF	1" Type L Copper Water Distribution Pipe	14.25	2.78
33 14 13 39-0005	LF	1-1/4" Type L Copper Water Distribution Pipe	17.87	3.33
33 14 13 39-0006	LF	1-1/2" Type L Copper Water Distribution Pipe	22.07	4.45
33 14 13 39-0007	LF	2" Type L Copper Water Distribution Pipe	32.35	5.55
33 14 13 39-0008	LF	2-1/2" Type L Copper Water Distribution Pipe	40.79	6.67
33 14 13 39-0009	LF	3" Type L Copper Water Distribution Pipe	51.33	7.33
33 14 13 39-0010	LF	3-1/2" Type L Copper Water Distribution Pipe	68.92	9.22
33 14 13 39-0011	LF	4" Type L Copper Water Distribution Pipe	91.11	11.66
33 14 13 39-0012	LF	5" Type L Copper Water Distribution Pipe	147.55	14.55
33 14 13 39-0013	LF	6" Type L Copper Water Distribution Pipe	190.82	17.55
33 14 13 39-0014	LF	8" Type L Copper Water Distribution Pipe	330.64	19.65
33 14 13 39-0015		**Type K Copper Water Distribution Piping** *(33 14 13 39)*		
33 14 13 39-0016	LF	1/2" Type K Copper Water Distribution Pipe	9.03	2.22
33 14 13 39-0017	LF	3/4" Type K Copper Water Distribution Pipe	12.77	2.50
33 14 13 39-0018	LF	1" Type K Copper Water Distribution Pipe	16.26	2.78
33 14 13 39-0019	LF	1-1/4" Type K Copper Water Distribution Pipe	19.12	3.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 39-0020	LF	1-1/2" Type K Copper Water Distribution Pipe	23.92	4.45
33 14 13 39-0021	LF	2" Type K Copper Water Distribution Pipe	34.84	5.55
33 14 13 39-0022	LF	2-1/2" Type K Copper Water Distribution Pipe	47.67	6.67
33 14 13 39-0023	LF	3" Type K Copper Water Distribution Pipe	61.65	7.33
33 14 13 39-0024	LF	3-1/2" Type K Copper Water Distribution Pipe	81.05	9.22
33 14 13 39-0025	LF	4" Type K Copper Water Distribution Pipe	109.52	11.66
33 14 13 39-0026	LF	5" Type K Copper Water Distribution Pipe	185.63	14.55
33 14 13 39-0027	LF	6" Type K Copper Water Distribution Pipe	259.31	17.55
33 14 13 39-0028	LF	8" Type K Copper Water Distribution Pipe	457.03	19.65
33 14 13 39-0029		Copper Flare x Female Copper Flare Service Fitting Coupling *(33 14 13 39)*		
		Note: Mueller H-15405		
33 14 13 39-0030	EA	3/4" Copper Flare x Female Copper Flare Service Fitting Coupling	40.58	
33 14 13 39-0031	EA	1" Copper Flare x Female Copper Flare Service Fitting Coupling	56.95	
33 14 13 39-0032	EA	1-1/2" Copper Flare x Female Copper Flare Service Fitting Coupling	131.31	
33 14 13 39-0033	EA	2" Copper Flare x Female Copper Flare Service Fitting Coupling	167.19	
33 14 13 39-0034		Copper Flare x Female Iron Pipe Service Fitting Coupling *(33 14 13 39)*		
		Note: Mueller H-15450		
33 14 13 39-0035	EA	1/2" Copper Flare x Female Iron Pipe Service Fitting Coupling	45.59	
33 14 13 39-0036	EA	3/4" Copper Flare x Female Iron Pipe Service Fitting Coupling	40.74	
33 14 13 39-0037	EA	1" Copper Flare x Female Iron Pipe Service Fitting Coupling	55.57	
33 14 13 39-0038	EA	1-1/4" Copper Flare x Female Iron Pipe Service Fitting Coupling	80.77	
33 14 13 39-0039	EA	1-1/2" Copper Flare x Female Iron Pipe Service Fitting Coupling	103.49	
33 14 13 39-0040	EA	2" Copper Flare x Female Iron Pipe Service Fitting Coupling	162.32	
33 14 13 39-0041		Copper Flare x Male Iron Pipe Service Fitting Coupling *(33 14 13 39)*		
		Note: Mueller H-15425		
33 14 13 39-0042	EA	1/2" Copper Flare x Male Iron Pipe Service Fitting Coupling	39.93	
33 14 13 39-0043	EA	3/4" Copper Flare x Male Iron Pipe Service Fitting Coupling	40.84	
33 14 13 39-0044	EA	1" Copper Flare x Male Iron Pipe Service Fitting Coupling	54.35	
33 14 13 39-0045	EA	1-1/4" Copper Flare x Male Iron Pipe Service Fitting Coupling	80.77	
33 14 13 39-0046	EA	1-1/2" Copper Flare x Male Iron Pipe Service Fitting Coupling	107.90	
33 14 13 39-0047	EA	2" Copper Flare x Male Iron Pipe Service Fitting Coupling	167.78	
33 14 13 39-0048		Brass Fittings *(33 14 13 39)*		
33 14 13 39-0049		Brass Compression Reducer Coupling *(33 14 13 39-0048)*		
33 14 13 39-0050	EA	3/4" x 1" Brass Compression Reducer Coupling	54.34	17.55
33 14 13 39-0051	EA	1" x 3/4" Brass Compression Reducer Coupling	43.03	17.55
33 14 13 39-0052	EA	1-1/2" x 1" Brass Compression Reducer Coupling	90.37	26.64
33 14 13 39-0053	EA	2" x 1-1/2" Brass Compression Reducer Coupling	111.94	33.79
33 14 13 39-0054		Copper Compression x Male NPT Brass Coupling *(33 14 13 39-0048)*		
		Note: A. Y. McDonald 74753Q		
33 14 13 39-0055	EA	3/4" Copper Compression x Male NPT Brass Coupling	56.57	19.49
33 14 13 39-0056	EA	3/4" x 1" Copper Compression x Male NPT Brass Coupling	64.70	22.74
33 14 13 39-0057	EA	1" Copper Compression x Male NPT Brass Coupling	66.33	22.74
33 14 13 39-0058	EA	1" x 3/4" Copper Compression x Male NPT Brass Coupling	64.97	22.74
33 14 13 39-0059	EA	1-1/4" Copper Compression x Male NPT Brass Coupling	88.45	25.99
33 14 13 39-0060	EA	1-1/4" x 1" Copper Compression x Male NPT Brass Coupling	85.97	25.99
33 14 13 39-0061	EA	1-1/2" Copper Compression x Male NPT Brass Coupling	117.19	32.49
33 14 13 39-0062	EA	2" Copper Compression x Male NPT Brass Coupling	154.08	38.98
33 14 13 39-0063		Brass Nipples *(33 14 13 39-0048)*		
33 14 13 39-0064	EA	3/4" x 6" Long Brass Nipple	38.24	8.12
33 14 13 39-0065	EA	1" x 6" Long Brass Nipple	49.61	8.77
33 14 13 39-0066	EA	1-1/2" x 6" Long Brass Nipple	75.20	9.42
33 14 13 39-0067		Brass "H" Style Meter Insetters *(33 14 13 39-0048)*		
33 14 13 39-0068	EA	5/8" x 3/4" Compression End, Brass "H" Style Meter Insetters	289.85	35.89
33 14 13 39-0069	EA	5/8" x 3/4" Threaded End, Brass "H" Style Meter Insetters	186.05	35.89
33 14 13 39-0070		Meter Setters - Resetter, Brass *(33 14 13 39-0048)*		
33 14 13 39-0071	EA	1" Meter, 10" High Brass Meter Setter - Resetter	767.06	35.89
		Note: Male meter thread, bottom inlet/outlet, angle ball valve, top inlet/outlet with meter nuts.		
33 14 13 43		**Public Water Utility Distribution Piping Coatings and Wraps** *(33 14 13)*		
33 14 13 43-0001		Pipe Coatings *(33 14 13 43)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0002		**Epoxy Wrap And Pipe Coating** *(33 14 13 43-0001)* Note: Applied at fabrication shop.		
33 14 13 43-0003	LF	4" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	1.76	
33 14 13 43-0004	LF	6" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	2.17	
33 14 13 43-0005	LF	8" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	2.71	
33 14 13 43-0006	LF	10" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	3.23	
33 14 13 43-0007	LF	12" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	3.81	
33 14 13 43-0008	LF	14" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	5.06	
33 14 13 43-0009	LF	16" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	5.77	
33 14 13 43-0010	LF	18" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	6.07	
33 14 13 43-0011	LF	20" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	6.53	
33 14 13 43-0012	LF	24" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	7.61	
33 14 13 43-0013	LF	30" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	10.00	
33 14 13 43-0014	LF	36" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	15.79	
33 14 13 43-0015	LF	42" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	34.04	
33 14 13 43-0016	LF	48" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	38.90	
33 14 13 43-0017	LF	54" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	43.77	
33 14 13 43-0018	LF	60" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	48.63	
33 14 13 43-0019	LF	66" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	53.49	
33 14 13 43-0020	LF	72" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	58.33	
33 14 13 43-0021	LF	78" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	63.22	
33 14 13 43-0022		**Cement Coating With Fiberglass Or Wire Mesh Reinforcing** *(33 14 13 43-0001)* Note: Applied at fabrication shop. Thickness ranging between 1" and 2".		
33 14 13 43-0023	LF	4" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	8.88	
33 14 13 43-0024	LF	6" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	10.93	
33 14 13 43-0025	LF	8" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	13.66	
33 14 13 43-0026	LF	10" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	15.22	
33 14 13 43-0027	LF	12" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	17.19	
33 14 13 43-0028	LF	14" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	20.12	
33 14 13 43-0029	LF	16" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	22.86	
33 14 13 43-0030	LF	18" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	25.79	
33 14 13 43-0031	LF	20" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	28.66	
33 14 13 43-0032	LF	24" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	34.38	
33 14 13 43-0033	LF	30" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	42.98	
33 14 13 43-0034	LF	36" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	51.57	
33 14 13 43-0035	LF	42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	60.17	
33 14 13 43-0036	LF	48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	68.76	
33 14 13 43-0037	LF	54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	77.36	
33 14 13 43-0038	LF	60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	85.95	
33 14 13 43-0039	LF	66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	94.55	
33 14 13 43-0040	LF	72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	103.14	
33 14 13 43-0041	LF	78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	111.74	
33 14 13 43-0042		**Epoxy Wrap And Fitting Coating** *(33 14 13 43-0001)* Note: Applied at fabrication shop.		
33 14 13 43-0043	EA	4" Outside Diameter, Epoxy Wrap And Fitting Coating	10.77	
		For 1/2" Thick, Add	*0.42*	
33 14 13 43-0044	EA	6" Outside Diameter, Epoxy Wrap And Fitting Coating	13.53	
		For 1/2" Thick, Add	*0.54*	
33 14 13 43-0045	EA	8" Outside Diameter, Epoxy Wrap And Fitting Coating	19.76	
		For 1/2" Thick, Add	*0.70*	
33 14 13 43-0046	EA	10" Outside Diameter, Epoxy Wrap And Fitting Coating	33.31	
		For 1/2" Thick, Add	*1.03*	
33 14 13 43-0047	EA	12" Outside Diameter, Epoxy Wrap And Fitting Coating	50.91	
		For 1/2" Thick, Add	*1.52*	
33 14 13 43-0048	EA	14" Outside Diameter, Epoxy Wrap And Fitting Coating	79.83	
		For 1/2" Thick, Add	*2.33*	
33 14 13 43-0049	EA	16" Outside Diameter, Epoxy Wrap And Fitting Coating	123.25	
		For 1/2" Thick, Add	*3.00*	
33 14 13 43-0050	EA	18" Outside Diameter, Epoxy Wrap And Fitting Coating	167.57	
		For 1/2" Thick, Add	*3.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0051	EA	20" Outside Diameter, Epoxy Wrap And Fitting Coating	229.15	
		For 1/2" Thick, Add	*3.70*	
33 14 13 43-0052	EA	24" Outside Diameter, Epoxy Wrap And Fitting Coating	333.54	
		For 1/2" Thick, Add	*5.18*	

33 14 13 43-0053 Cement Pipe Lining *(33 14 13 43)*

33 14 13 43-0054 Cement Pipe Lining *(33 14 13 43-0053)*

Note: Shop applied.

33 14 13 43-0055	LF	4" Outside Diameter, 1/4" Thick Cement Pipe Lining	14.58	
		For 1/2" Thick, Add	*1.18*	
33 14 13 43-0056	LF	6" Outside Diameter, 1/4" Thick Cement Pipe Lining	18.11	
		For 1/2" Thick, Add	*1.46*	
33 14 13 43-0057	LF	8" Outside Diameter, 1/4" Thick Cement Pipe Lining	22.10	
		For 1/2" Thick, Add	*1.82*	
33 14 13 43-0058	LF	10" Outside Diameter, 1/4" Thick Cement Pipe Lining	28.71	
		For 1/2" Thick, Add	*2.28*	
33 14 13 43-0059	LF	12" Outside Diameter, 1/4" Thick Cement Pipe Lining	35.35	
		For 1/2" Thick, Add	*2.74*	
33 14 13 43-0060	LF	14" Outside Diameter, 1/4" Thick Cement Pipe Lining	45.25	
		For 1/2" Thick, Add	*3.21*	
33 14 13 43-0061	LF	16" Outside Diameter, 1/4" Thick Cement Pipe Lining	58.80	
		For 1/2" Thick, Add	*3.64*	
33 14 13 43-0062	LF	18" Outside Diameter, 5/16" Thick Cement Pipe Lining	70.33	
		For 1/2" Thick, Add	*3.49*	
33 14 13 43-0063	LF	20" Outside Diameter, 5/16" Thick Cement Pipe Lining	85.07	
		For 1/2" Thick, Add	*3.88*	
33 14 13 43-0064	LF	24" Outside Diameter, 5/16" Thick Cement Pipe Lining	103.16	
		For 1/2" Thick, Add	*4.66*	
33 14 13 43-0065	LF	30" Outside Diameter, 5/16" Thick Cement Pipe Lining	124.08	
		For 1/2" Thick, Add	*5.82*	
33 14 13 43-0066	LF	36" Outside Diameter, 5/16" Thick Cement Pipe Lining	149.33	
		For 1/2" Thick, Add	*6.99*	
33 14 13 43-0067	LF	42" Outside Diameter, 3/8" Thick Cement Pipe Lining	174.26	
		For 1/2" Thick, Add	*5.99*	
33 14 13 43-0068	LF	48" Outside Diameter, 3/8" Thick Cement Pipe Lining	199.06	
		For 1/2" Thick, Add	*6.85*	
33 14 13 43-0069	LF	54" Outside Diameter, 3/8" Thick Cement Pipe Lining	223.99	
		For 1/2" Thick, Add	*7.70*	
33 14 13 43-0070	LF	60" Outside Diameter, 3/8" Thick Cement Pipe Lining	248.92	
		For 1/2" Thick, Add	*8.56*	
33 14 13 43-0071	LF	66" Outside Diameter, 7/16" Thick Cement Pipe Lining	273.74	
		For 1/2" Thick, Add	*5.02*	
33 14 13 43-0072	LF	72" Outside Diameter, 7/16" Thick Cement Pipe Lining	298.67	
		For 1/2" Thick, Add	*5.48*	
33 14 13 43-0073	LF	78" Outside Diameter, 7/16" Thick Cement Pipe Lining	323.58	
		For 1/2" Thick, Add	*5.93*	

33 14 13 43-0074 Cement Fitting Lining *(33 14 13 43-0053)*

Note: Shop applied.

33 14 13 43-0075	EA	4" Outside Diameter, 1/4" Thick Cement Fitting Lining	15.77	
		For 1/2" Thick, Add	*1.42*	
33 14 13 43-0076	EA	6" Outside Diameter, 1/4" Thick Cement Fitting Lining	19.93	
		For 1/2" Thick, Add	*1.82*	
33 14 13 43-0077	EA	8" Outside Diameter, 1/4" Thick Cement Fitting Lining	28.08	
		For 1/2" Thick, Add	*2.37*	
33 14 13 43-0078	EA	10" Outside Diameter, 1/4" Thick Cement Fitting Lining	46.37	
		For 1/2" Thick, Add	*3.64*	
33 14 13 43-0079	EA	12" Outside Diameter, 1/4" Thick Cement Fitting Lining	70.69	
		For 1/2" Thick, Add	*5.48*	
33 14 13 43-0080	EA	14" Outside Diameter, 1/4" Thick Cement Fitting Lining	105.06	
		For 1/2" Thick, Add	*7.37*	
33 14 13 43-0081	EA	16" Outside Diameter, 1/4" Thick Cement Fitting Lining	155.59	
		For 1/2" Thick, Add	*9.47*	
33 14 13 43-0082	EA	18" Outside Diameter, 5/16" Thick Cement Fittings Lining	211.00	
		For 1/2" Thick, Add	*10.48*	
33 14 13 43-0083	EA	20" Outside Diameter, 5/16" Thick Cement Fitting Lining	283.43	
		For 1/2" Thick, Add	*12.93*	
33 14 13 43-0084	EA	24" Outside Diameter, 5/16" Thick Cement Fitting Lining	412.65	
		For 1/2" Thick, Add	*18.63*	

33 14 13 43-0085 8 Mil Polyethylene Encasement Tubing *(33 14 13 43)*

Note: ANSI/AWWA C105/A21.5-99 section 4.2.

33 14 13 43-0086	LF	3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing	1.10	
33 14 13 43-0087	LF	10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing	1.83	
33 14 13 43-0088	LF	14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing	2.30	
33 14 13 43-0089	LF	18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing	2.90	
33 14 13 43-0090	LF	24" Diameter, 8 Mil Polyethylene Encasement Tubing	4.01	
33 14 13 43-0091	LF	30" Diameter, 8 Mil Polyethylene Encasement Tubing	5.18	
33 14 13 43-0092	LF	36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing	6.59	
33 14 13 43-0093	LF	48" Diameter, 8 Mil Polyethylene Encasement Tubing	7.85	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0094	LF	54" Diameter, 8 Mil Polyethylene Encasement Tubing	9.36	
33 14 13 43-0095	LF	60" Diameter, 8 Mil Polyethylene Encasement Tubing	10.39	
33 14 13 43-0096		Enecon Polymeric Pipe Wrap *(33 14 13 43)*		
		Note: 1/4" thick polymeric wrap with three layers of integrated reinforcement. Includes minimal surface preparation.		
33 14 13 43-0097	LF	6" Diameter Pipe, Enecon Polymeric Pipe Wrap	446.03	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*178.41*	
		For <10', Add	*446.03*	
33 14 13 43-0098	LF	8" Diameter Pipe, Enecon Polymeric Pipe Wrap	603.45	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*241.38*	
		For <10', Add	*603.45*	
33 14 13 43-0099	LF	10" Diameter Pipe, Enecon Polymeric Pipe Wrap	734.64	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*293.86*	
		For <10', Add	*734.64*	
33 14 13 43-0100	LF	12" Diameter Pipe, Enecon Polymeric Pipe Wrap	865.82	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*346.33*	
		For <10', Add	*865.82*	
33 14 13 43-0101	LF	14" Diameter Pipe, Enecon Polymeric Pipe Wrap	944.53	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*377.81*	
		For <10', Add	*944.53*	
33 14 13 43-0102	LF	16" Diameter Pipe, Enecon Polymeric Pipe Wrap	1,075.72	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*430.29*	
		For <10', Add	*1,075.72*	
33 14 13 43-0103	LF	18" Diameter Pipe, Enecon Polymeric Pipe Wrap	1,233.14	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*493.26*	
		For <10', Add	*1,233.14*	
33 14 13 43-0104	LF	20" Diameter Pipe, Enecon Polymeric Pipe Wrap	1,377.44	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*550.98*	
		For <10', Add	*1,377.44*	
33 14 13 43-0105	LF	22" Diameter Pipe, Enecon Polymeric Pipe Wrap	1,508.63	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*603.45*	
33 14 13 43-0106	LF	24" Diameter Pipe, Enecon Polymeric Pipe Wrap	1,639.81	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*655.92*	
33 14 13 43-0107	LF	26" Diameter Pipe, Enecon Polymeric Pipe Wrap	1,784.12	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*713.65*	
33 14 13 43-0108	LF	28" Diameter Pipe, Enecon Polymeric Pipe Wrap	1,915.30	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*766.12*	
33 14 13 43-0109	LF	30" Diameter Pipe, Enecon Polymeric Pipe Wrap	2,072.72	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*621.82*	
33 14 13 43-0110	LF	32" Diameter Pipe, Enecon Polymeric Pipe Wrap	2,177.67	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*653.30*	
33 14 13 43-0111	LF	34" Diameter Pipe, Enecon Polymeric Pipe Wrap	2,335.09	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*700.53*	
33 14 13 43-0112	LF	36" Diameter Pipe, Enecon Polymeric Pipe Wrap	2,466.28	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*739.88*	
33 14 13 43-0113	LF	42" Diameter Pipe, Enecon Polymeric Pipe Wrap	2,886.07	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*865.82*	
33 14 13 43-0114	LF	48" Diameter Pipe, Enecon Polymeric Pipe Wrap	3,305.86	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*991.76*	
33 14 13 43-0115	LF	60" Diameter Pipe, Enecon Polymeric Pipe Wrap	4,092.97	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*1,227.89*	
33 14 13 43-0116	LF	96" Diameter Pipe, Enecon Polymeric Pipe Wrap	6,559.25	
		Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement.		
		For abrasive pipe blasting and/or mechanical preparation (grinding), Add	*1,967.78*	

33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters *(33 14 13)*

33 14 13 53-0001		Double Stud Stainless Steel Service Saddles *(33 14 13 53)*		
		Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.		
33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	278.79	
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	385.07	
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	398.49	
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	331.35	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	413.94	
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	346.70	
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	433.74	
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	388.98	
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	456.99	
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	406.02	
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	468.34	
33 14 13 53-0013		**Double Bale Epoxy Coated Ductile Iron Body Service Saddles** *(33 14 13 53)* Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.		
33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	237.97	
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	238.12	
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	253.40	
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	241.73	
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	258.56	
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	284.97	
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	302.95	
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	277.87	
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	304.48	
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	320.08	
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	293.27	
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	320.70	
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	336.21	
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	309.17	
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	335.83	
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	351.17	
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	500.73	
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	514.15	
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	333.91	
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	365.82	
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	380.16	
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	589.68	
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	371.70	
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	409.67	
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	655.68	
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	403.06	
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	443.13	
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	459.27	
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	728.83	
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	466.26	
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	497.99	
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	534.90	
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	888.04	
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	479.68	
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	542.52	
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	565.03	
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	952.84	
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	501.09	
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	566.17	
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	589.25	
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	991.33	
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	552.02	
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	635.04	
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	625.00	
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	690.45	
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	652.42	
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	734.01	
33 14 13 53-0061		**Double Bale Bronze Service Saddles** *(33 14 13 53)*		
33 14 13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	323.42	
33 14 13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	352.68	
33 14 13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	367.19	
33 14 13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	396.71	
33 14 13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	407.32	
33 14 13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	428.06	
33 14 13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	397.33	
33 14 13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	422.08	
33 14 13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	496.74	
33 14 13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	535.93	
33 14 13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	731.26	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	822.94	
33 14 13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	847.67	
33 14 13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	943.14	

33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle *(33 14 13 53)*

Note: Taps are compression or NPT.

33 14 13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	338.49	
33 14 13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	371.70	
33 14 13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	384.99	
33 14 13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	417.04	
33 14 13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	429.32	
33 14 13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	451.24	
33 14 13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	481.20	
33 14 13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	514.23	
33 14 13 53-0085	EA	12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	516.90	
33 14 13 53-0086	EA	12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	558.69	
33 14 13 53-0087	EA	14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	781.22	
33 14 13 53-0088	EA	14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	893.59	
33 14 13 53-0089	EA	16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	906.95	
33 14 13 53-0090	EA	16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	986.16	
33 14 13 53-0091	EA	18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,999.30	
33 14 13 53-0092	EA	18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,999.30	
33 14 13 53-0093	EA	20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,075.35	
33 14 13 53-0094	EA	20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,075.35	
33 14 13 53-0095	EA	24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,227.63	
33 14 13 53-0096	EA	24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,227.63	

33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve *(33 14 13 53)*

33 14 13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,474.52	
33 14 13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,782.25	
33 14 13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,127.20	
33 14 13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,247.58	
33 14 13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,370.50	
33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,537.70	
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,611.21	
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,571.77	
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,738.31	
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,139.58	
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,243.78	
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,011.29	
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,199.05	
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,285.22	
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,324.07	
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,592.18	
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,585.22	
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,612.07	
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,821.53	
33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,873.33	
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,930.02	
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,062.73	
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,319.70	
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,512.84	
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,981.83	
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,122.56	
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,538.58	
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,881.18	
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,530.46	
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,711.30	
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,783.84	
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,132.63	
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,619.90	
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,892.06	
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,921.51	
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,088.51	
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,137.72	
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,709.47	
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,927.10	
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,980.78	
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,444.31	
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,667.84	

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve *(33 14 13 53)*

33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,214.18	
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,296.17	
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,413.81	
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,460.20	
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,520.32	
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,737.52	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,596.91	
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,655.52	
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,846.79	
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,519.34	
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,799.92	
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,884.51	
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,072.78	
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,675.58	
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,910.90	
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,349.75	
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,420.24	
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,820.92	
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,317.00	
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,640.60	
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,784.03	
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,856.69	
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,122.92	
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,831.20	
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,000.80	
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,963.85	
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,093.16	
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,271.67	
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,104.60	
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,274.02	
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,566.38	
33 14 13 53-0172	EA	20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,638.91	
33 14 13 53-0173	EA	20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,035.91	
33 14 13 53-0174	EA	20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,705.21	
33 14 13 53-0175	EA	20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,990.88	
33 14 13 53-0176	EA	24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,855.30	
33 14 13 53-0177	EA	24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,010.78	
33 14 13 53-0178	EA	24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,219.72	
33 14 13 53-0179	EA	24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,168.48	
33 14 13 53-0180	EA	24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,344.99	

33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve *(33 14 13 53)*

33 14 13 53-0182	EA	4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,395.23	
33 14 13 53-0183	EA	6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,524.84	
33 14 13 53-0184	EA	6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,613.07	
33 14 13 53-0185	EA	8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,651.48	
33 14 13 53-0186	EA	8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,752.68	
33 14 13 53-0187	EA	8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,049.24	
33 14 13 53-0188	EA	10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,893.04	
33 14 13 53-0189	EA	10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,004.94	
33 14 13 53-0190	EA	10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,271.04	
33 14 13 53-0191	EA	10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,038.23	
33 14 13 53-0192	EA	12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,163.46	
33 14 13 53-0193	EA	12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,314.93	
33 14 13 53-0194	EA	12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,665.54	
33 14 13 53-0195	EA	12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,121.47	
33 14 13 53-0196	EA	12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,470.71	
33 14 13 53-0197	EA	14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,469.53	
33 14 13 53-0198	EA	14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,654.70	
33 14 13 53-0199	EA	14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,049.12	
33 14 13 53-0200	EA	14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,505.49	
33 14 13 53-0201	EA	14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,748.22	
33 14 13 53-0202	EA	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,001.61	
33 14 13 53-0203	EA	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,253.67	
33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,446.44	
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,936.92	
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,270.57	
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,315.04	
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,690.37	
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,891.43	
33 14 13 53-0210	EA	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,322.78	
33 14 13 53-0211	EA	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,892.54	
33 14 13 53-0212	EA	20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,587.12	
33 14 13 53-0213	EA	20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,961.49	
33 14 13 53-0214	EA	20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,125.39	
33 14 13 53-0215	EA	20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,925.60	
33 14 13 53-0216	EA	20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,372.29	
33 14 13 53-0217	EA	24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,238.31	
33 14 13 53-0218	EA	24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,294.05	
33 14 13 53-0219	EA	24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,490.02	
33 14 13 53-0220	EA	24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,444.64	
33 14 13 53-0221	EA	24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,955.49	

33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter *(33 14 13 53)*

33 14 13 53-0223	EA	3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	348.74	69.74

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0224	EA	4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	437.09	87.93
33 14 13 53-0225	EA	6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	576.21	121.28
33 14 13 53-0226	EA	8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	742.96	142.50
33 14 13 53-0227	EA	10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,150.44	160.69
33 14 13 53-0228	EA	12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,285.85	181.91
33 14 13 53-0229		**Steel Body, Flanged Coupling Adapter** *(33 14 13 53)*		
33 14 13 53-0230	EA	3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	500.60	69.74
33 14 13 53-0231	EA	4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	593.35	87.93
33 14 13 53-0232	EA	6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	793.27	121.28
33 14 13 53-0233	EA	8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	968.87	142.50
33 14 13 53-0234	EA	10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,179.42	160.69
33 14 13 53-0235	EA	12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,373.00	181.91
33 14 13 53-0236	EA	14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,627.07	200.11
33 14 13 53-0237	EA	16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,922.18	218.30
33 14 13 53-0238	EA	18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,265.48	240.12
33 14 13 53-0239	EA	20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,672.08	264.14
33 14 13 53-0240		**Steel Body, Flanged-Lock Restrained Coupling Adapters** *(33 14 13 53)*		
33 14 13 53-0241	EA	4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	447.25	87.93
33 14 13 53-0242	EA	6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	601.28	121.28
33 14 13 53-0243	EA	8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	667.94	142.50
33 14 13 53-0244	EA	10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	962.88	160.69
33 14 13 53-0245	EA	12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,220.46	181.91
33 14 13 53-0246	EA	14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,367.84	200.11
33 14 13 53-0247	EA	16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,603.46	218.30
33 14 13 53-0248	EA	18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,798.20	240.12
33 14 13 53-0249	EA	20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,154.68	264.14
33 14 13 53-0250	EA	24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,588.34	290.57
33 14 13 53-0251	EA	30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	5,316.44	319.56
33 14 13 53-0252	EA	36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	7,154.20	351.57
33 14 13 53-0253		**Ductile Iron Body, Omni Coupling System** *(33 14 13 53)*		
33 14 13 53-0254	EA	2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	162.11	48.51
33 14 13 53-0255	EA	2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	199.38	57.60
33 14 13 53-0256	EA	3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	246.41	69.74
33 14 13 53-0257	EA	4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	309.53	87.93
33 14 13 53-0258	EA	6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	414.02	121.28
33 14 13 53-0259	EA	8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	501.74	142.50
33 14 13 53-0260	EA	10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	622.30	160.69
33 14 13 53-0261	EA	12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	726.19	181.91
33 14 13 53-0262	EA	14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,006.39	200.11
33 14 13 53-0263	EA	16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,247.25	218.30
33 14 13 53-0264		**Fabricated Coupling (Smith-Blair 411)** *(33 14 13 53)*		
33 14 13 53-0265	EA	4" Steel Fabricated Coupling	519.89	183.59
33 14 13 53-0266	EA	6" Steel Fabricated Coupling	691.08	229.17
33 14 13 53-0267	EA	8" Steel Fabricated Coupling	802.06	262.09
33 14 13 53-0268	EA	10" Steel Fabricated Coupling	1,129.60	417.82
33 14 13 53-0269	EA	12" Steel Fabricated Coupling	1,278.44	455.81
33 14 13 53-0270	EA	14" Steel Fabricated Coupling	1,600.88	501.38
33 14 13 53-0271	EA	16" Steel Fabricated Coupling	1,933.45	557.09
33 14 13 53-0272	EA	18" Steel Fabricated Coupling	2,085.02	626.73
33 14 13 53-0273	EA	20" Steel Fabricated Coupling	2,468.62	715.35
33 14 13 53-0274	EA	24" Steel Fabricated Coupling	2,994.41	835.63
33 14 13 53-0275	EA	30" Steel Fabricated Coupling	4,147.01	1,002.77
33 14 13 53-0276	EA	36" Steel Fabricated Coupling	5,292.22	1,253.45
33 14 13 53-0277	EA	42" Steel Fabricated Coupling	6,115.90	1,430.71
33 14 13 53-0278	EA	48" Steel Fabricated Coupling	7,203.16	1,671.27
33 14 13 53-0279		**Transition Coupling (Smith-Blair 413)** *(33 14 13 53)*		
33 14 13 53-0280	EA	4" Steel Transition Coupling	661.00	183.59
33 14 13 53-0281	EA	6" Steel Transition Coupling	919.32	229.17
33 14 13 53-0282	EA	8" Steel Transition Coupling	1,052.11	262.09
33 14 13 53-0283	EA	10" Steel Transition Coupling	1,478.76	417.82
33 14 13 53-0284	EA	12" Steel Transition Coupling	1,742.63	455.81
33 14 13 53-0285	EA	14" Steel Transition Coupling	1,973.18	501.38
33 14 13 53-0286	EA	16" Steel Transition Coupling	2,378.25	557.09
33 14 13 53-0287	EA	18" Steel Transition Coupling	3,005.16	626.73
33 14 13 53-0288	EA	20" Steel Transition Coupling	3,226.72	715.35
33 14 13 53-0289	EA	24" Steel Transition Coupling	3,899.16	835.63
33 14 13 53-0290	EA	30" Steel Transition Coupling	5,191.48	1,002.77
33 14 13 53-0291	EA	36" Steel Transition Coupling	6,179.33	1,253.45
33 14 13 53-0292	EA	42" Steel Transition Coupling	7,373.39	1,430.71
33 14 13 53-0293	EA	48" Steel Transition Coupling	8,245.26	1,671.27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 14 19 Valves and Hydrants for Water Utility Service *(33 14)*

Note: Flanged valves excludes bolt and gasket set. Excludes excavation and backfill.

33 14 19 00-0001 Accessories For Valves *(33 14 19)*

33 14 19 00-0002	EA	1' Valve Extension Stem	116.72	
		For Each Additional LF, Add	*9.19*	
33 14 19 00-0003	EA	Up to 80" Long Indicator Post Telescoping Barrel Assembly Note: Excludes valve.	1,752.90	119.65
33 14 19 00-0004	EA	>80" To 114" Long Indicator Post Telescoping Barrel Assembly Note: Excludes valve.	1,988.19	131.61
33 14 19 00-0005	EA	Adjust Water Valve Box To Grade	119.65	

33 14 19 00-0006 Water Utility Distribution Valves *(33 14 19)*

33 14 19 00-0007 Angle Valves *(33 14 19 00-0006)*

Note: For connecting meters to water service.

33 14 19 00-0008 Threaded, Class 150, Bronze Angle Valve *(33 14 19 00-0007)*

Note: NIBCO T-335Y

33 14 19 00-0009	EA	1/2" Diameter Threaded, Class 150, Bronze Angle Valve	108.65	20.79
33 14 19 00-0010	EA	3/4" Diameter Threaded, Class 150, Bronze Angle Valve	146.53	27.94
33 14 19 00-0011	EA	1" Diameter Threaded, Class 150, Bronze Angle Valve	196.56	34.43
33 14 19 00-0012	EA	1-1/4" Diameter Threaded, Class 150, Bronze Angle Valve	252.93	43.27
33 14 19 00-0013	EA	1-1/2" Diameter Threaded, Class 150, Bronze Angle Valve	314.98	50.02
33 14 19 00-0014	EA	2" Diameter Threaded, Class 150, Bronze Angle Valve	466.62	58.48
33 14 19 00-0015	EA	2-1/2" Diameter Threaded, Class 150, Bronze Angle Valve	744.23	79.80
33 14 19 00-0016	EA	3" Diameter Threaded, Class 150, Bronze Angle Valve	1,123.61	92.13

33 14 19 00-0017 Ball Meter Valves *(33 14 19 00-0006)*

33 14 19 00-0018	EA	3/4" Ball Meter Valve (Ford B43-342W) Note: 1" service line size. Pack joint for copper or plastic tubing inlet by meter swivel nut.	149.56	32.49
33 14 19 00-0019	EA	1" Ball Meter Valve (Ford B43-444W) Note: 1" service line size. Pack joint for copper or plastic tubing inlet by meter swivel nut.	162.32	34.43
33 14 19 00-0020	EA	1-1/2" Ball Meter Valve (Ford BF43-666W) Note: 1-1/2" service line size. Pack joint for copper or plastic tubing inlet by meter flange.	309.40	58.48
33 14 19 00-0021	EA	2" Ball Meter Valve (Ford BF43-777W) Note: 2" service line size. Pack joint for copper or plastic tubing inlet by meter flange.	429.52	59.12
33 14 19 00-0022	EA	3/4" Diameter Threaded, Ball Meter Valve (Mueller B-20200)	152.51	32.49
33 14 19 00-0023	EA	1" Diameter Threaded, Ball Meter Valve (Mueller B-20200)	202.50	34.43
33 14 19 00-0024	EA	1-1/2" Diameter Threaded, Ball Meter Valve (Mueller B-20200)	365.12	58.48
33 14 19 00-0025	EA	2" Diameter Threaded, Ball Meter Valve (Mueller B-20200)	479.48	59.12
33 14 19 00-0026	EA	3/4", 150 PSI, Ball Valve (Ford B13-332W)	187.47	32.49
33 14 19 00-0027	EA	1", 150 PSI, Ball Valve (Ford B13-444W)	303.80	34.43
33 14 19 00-0028	EA	1-1/2", 150 PSI, Ball Valve (Ford B13-666W)	695.68	58.48
33 14 19 00-0029	EA	2", 150 PSI, Ball Valve (Ford B13-777W)	941.89	59.12
33 14 19 00-0030	EA	1" Bronze Angle Meter Stop With 90 Degree Lock Wing, Compression x Outlet Swivel Meter Nut (Mueller B-2458N)	328.52	38.98
33 14 19 00-0031	EA	1" Bronze Angle Meter Stop With 90 Degree Lock Wing, Flare x Outlet Swivel Meter Nut (Mueller B-2455N	320.13	38.98
33 14 19 00-0032	EA	2" Bronze Angle Meter Stop With 90 Degree Lock Wing, Compression x Outlet Meter Flange (Mueller B-24276N	785.56	59.77
33 14 19 00-0033	EA	1" Bronze Angle Meter Stop With 90 Degree Lock Wing, Flare x Outlet Meter Flange (Mueller B-24277N)	320.13	38.98
33 14 19 00-0034	EA	3/4" Bronze Shut-Off Valve, Inlet Swivel Meter Nut x Outlet FIP Thread, Lockable Tabs With Lever Handle (Mueller B-24351)	191.98	28.58
33 14 19 00-0035	EA	1" Bronze Shut-Off Valve, Inlet Swivel Meter Nut x Outlet FIP Thread, Lockable Tabs With Lever Handle (Mueller B-24351)	270.12	33.79
33 14 19 00-0036	EA	1-1/2" Bronze Shut-Off Valve, Inlet Meter Flange x Outlet FIP Thread, Lockable Tabs With Lever Handle (Mueller B-24337)	450.44	49.38
33 14 19 00-0037	EA	2" Bronze Shut-Off Valve, Inlet Meter Flange x Outlet FIP Thread, Lockable Tabs With Lever Handle (Mueller B-24337)	726.01	58.48

33 14 19 00-0038 Butterfly Valves *(33 14 19 00-0006)*

33 14 19 00-0039 Lug Type Flanged, Cast Iron Disc, Butterfly Valves *(33 14 19 00-0038)*

Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin

33 14 19 00-0040	EA	3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	2,201.08	220.90
33 14 19 00-0041	EA	3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	2,461.79	220.90
33 14 19 00-0042	EA	4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	2,480.28	341.84
33 14 19 00-0043	EA	4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	2,738.76	341.84
33 14 19 00-0044	EA	6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	2,849.88	406.70

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0045	EA	6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	3,108.36	406.70
33 14 19 00-0046	EA	8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	3,221.42	519.67
33 14 19 00-0047	EA	8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	3,478.42	519.67
33 14 19 00-0048	EA	10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	4,039.61	632.64
33 14 19 00-0049	EA	10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	4,039.61	632.64
33 14 19 00-0050	EA	12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	4,624.78	766.81
33 14 19 00-0051	EA	12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	4,883.26	766.81
33 14 19 00-0052	EA	14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12 Modified)	6,215.69	1,092.38
33 14 19 00-0053	EA	14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12 Modified)	6,891.60	1,092.38
33 14 19 00-0054	EA	16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16 Modified)	7,239.08	1,201.62
33 14 19 00-0055	EA	16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20 Modified)	8,068.00	1,201.62
33 14 19 00-0056	EA	18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24 Modified)	9,072.66	1,332.70
33 14 19 00-0057	EA	18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,1BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24 Modified)	9,950.60	1,332.70
33 14 19 00-0058	EA	20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24 Modified)	10,396.96	1,502.02
33 14 19 00-0059	EA	20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24 Modified)	11,273.41	1,502.02

33 14 19 00-0060 Lug Type Flanged, Ductile Iron Disc, Butterfly Valves *(33 14 19 00-0038)*

Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin

33 14 19 00-0061	EA	24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20 Modified)	17,362.73	1,843.39
33 14 19 00-0062	EA	24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10 Modified)	27,913.60	1,843.39
33 14 19 00-0063	EA	24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20 Modified)	17,310.59	1,843.39
33 14 19 00-0064	EA	30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified)	28,431.05	2,914.35
33 14 19 00-0065	EA	36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified)	56,162.27	3,885.81
33 14 19 00-0066	EA	42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32 Modified)	66,444.58	5,828.71
33 14 19 00-0067	EA	48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24 Modified)	84,288.58	7,285.89
33 14 19 00-0068	EA	54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24 Modified)	117,725.23	8,743.06
33 14 19 00-0069	EA	60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36 Modified)	147,504.32	10,491.67
33 14 19 00-0070	EA	72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36 Modified)	211,581.32	12,590.01
33 14 19 00-0071	LF	3/16" Link, 316 Stainless Steel Chain For Use With DeZurik Chainwheel	19.48	
33 14 19 00-0072	EA	316 Stainless Steel Closing Link For Use With DeZurik Chainwheel Note: One required per valve.	10.25	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0073		Lug Type Flanged, Butterfly Valve, Cast Iron Body, Cast Iron Disc With 316 Stainless Steel Edge *(33 14 19 00-0038)* Note: AWWA C-504.		
33 14 19 00-0074		Aboveground Service *(33 14 19 00-0073)*		
33 14 19 00-0075		Valve *(33 14 19 00-0074)*		
33 14 19 00-0076	EA	3" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504	2,008.80	203.40
33 14 19 00-0077	EA	4" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504	2,196.89	340.99
33 14 19 00-0078	EA	6" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504	2,883.27	406.70
33 14 19 00-0079	EA	8" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504	3,391.97	519.67
33 14 19 00-0080	EA	10" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504	4,897.65	632.64
33 14 19 00-0081	EA	12" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504	5,177.91	768.19
33 14 19 00-0082	EA	14" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504	8,367.09	1,092.38
33 14 19 00-0083	EA	16" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504	9,761.78	1,201.62
33 14 19 00-0084	EA	18" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504	12,046.87	1,102.59
33 14 19 00-0085	EA	20" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504	14,445.89	1,242.67
33 14 19 00-0086	EA	24" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504	19,863.03	1,525.10
33 14 19 00-0087		Valve With 120 Volt AC Electric Motor Operator *(33 14 19 00-0074)*		
33 14 19 00-0088	EA	3" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, With 120 Volt AC Electric Motor Operator	14,523.74	203.40
33 14 19 00-0089	EA	4" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, With 120 Volt AC Electric Motor Operator	14,732.29	340.99
33 14 19 00-0090	EA	6" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator	14,840.74	406.70
33 14 19 00-0091	EA	8" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator	15,303.41	519.67
33 14 19 00-0092	EA	10" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator	16,118.65	632.64
33 14 19 00-0093	EA	12" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator	18,490.69	768.19
33 14 19 00-0094	EA	14" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator	19,874.49	1,092.38
33 14 19 00-0095	EA	16" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator	21,678.33	1,201.62
33 14 19 00-0096	EA	18" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator	30,736.13	1,332.70
33 14 19 00-0097	EA	20" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator	33,709.56	1,502.02
33 14 19 00-0098		Valve With Pneumatic Or Hydraulic Motor Operator *(33 14 19 00-0074)*		
33 14 19 00-0099	EA	3" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, With Pneumatic Or Hydraulic Operator	6,304.90	203.40
33 14 19 00-0100	EA	4" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, With Pneumatic Or Hydraulic Operator	6,513.45	340.99
33 14 19 00-0101	EA	6" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator	6,780.44	406.70
33 14 19 00-0102	EA	8" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator	7,238.00	519.67
33 14 19 00-0103	EA	10" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator	9,935.34	632.64
33 14 19 00-0104	EA	12" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator	10,645.20	768.19
33 14 19 00-0105	EA	14" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator	11,819.31	1,092.38
33 14 19 00-0106	EA	16" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator	13,275.37	1,201.62
33 14 19 00-0107	EA	18" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator	14,324.02	1,332.70
33 14 19 00-0108	EA	20" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator	20,514.40	1,502.02
33 14 19 00-0109	EA	24" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator	33,625.88	1,525.10
33 14 19 00-0110		Buried Service *(33 14 19 00-0073)*		
33 14 19 00-0111	EA	4" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, Buried Service	3,935.79	340.99
33 14 19 00-0112	EA	6" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service	4,172.10	406.70
33 14 19 00-0113	EA	8" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service	5,586.05	519.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0114	EA	10" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service	8,349.87	632.64
33 14 19 00-0115	EA	12" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service	8,732.42	768.19
33 14 19 00-0116	EA	14" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service	14,151.48	1,092.38
33 14 19 00-0117	EA	16" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service	16,712.25	1,201.62
33 14 19 00-0118	EA	18" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service	21,161.97	1,332.70
33 14 19 00-0119	EA	20" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service	24,841.19	1,502.02
33 14 19 00-0120	EA	24" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service	35,834.25	1,843.39

33 14 19 00-0121 Ductile Iron, Flanged End, Short-Body Type, Class 150, Butterfly Valves (Henry Pratt, Mueller) *(33 14 19 00-0038)*

Note: Shall conform to AWWA C504

33 14 19 00-0122	EA	6" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	1,600.81	430.72
33 14 19 00-0123	EA	8" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	2,042.83	519.67
33 14 19 00-0124	EA	10" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	2,717.10	632.64
33 14 19 00-0125	EA	12" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	3,266.27	768.19
33 14 19 00-0126	EA	14" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	5,141.43	1,092.38
33 14 19 00-0127	EA	16" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	5,994.81	1,201.62
33 14 19 00-0128	EA	18" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	6,711.65	1,332.70
33 14 19 00-0129	EA	20" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	8,675.19	1,502.02
33 14 19 00-0130	EA	24" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	11,729.73	1,843.39
33 14 19 00-0131	EA	30" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve	20,714.22	2,914.35

33 14 19 00-0132 Ductile Iron, Flanged End, Short-Body Type, Class 250, Butterfly Valves (Henry Pratt, Mueller) *(33 14 19 00-0038)*

Note: Shall conform to AWWA C504

33 14 19 00-0133	EA	6" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	3,986.01	430.72
33 14 19 00-0134	EA	8" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	4,500.03	519.67
33 14 19 00-0135	EA	10" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	5,108.10	632.64
33 14 19 00-0136	EA	12" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	6,325.36	768.19
33 14 19 00-0137	EA	14" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	7,882.33	1,092.38
33 14 19 00-0138	EA	16" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	8,306.38	1,201.62
33 14 19 00-0139	EA	18" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	11,060.16	1,332.70
33 14 19 00-0140	EA	20" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	16,252.48	1,502.02
33 14 19 00-0141	EA	24" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	24,150.20	1,843.39
33 14 19 00-0142	EA	30" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve	31,680.85	2,914.35

33 14 19 00-0143 Check Valves *(33 14 19 00-0006)*

33 14 19 00-0144 Flanged, Swing Type Gravity Operated Check Valves *(33 14 19 00-0143)*

Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.

33 14 19 00-0145	EA	2-1/2" Flanged, Swing Type Gravity Operated Check Valve	1,820.24	173.48
33 14 19 00-0146	EA	3" Flanged, Swing Type Gravity Operated Check Valve	1,857.26	203.40
33 14 19 00-0147	EA	4" Flanged, Swing Type Gravity Operated Check Valve	2,489.53	257.24
33 14 19 00-0148	EA	4" x 6" Flanged, Swing Type Gravity Operated Check Valve	3,579.21	387.05
33 14 19 00-0149	EA	4" x 8" Flanged, Swing Type Gravity Operated Check Valve	3,698.78	432.27
33 14 19 00-0150	EA	6" Flanged, Swing Type Gravity Operated Check Valve	3,513.84	430.72
33 14 19 00-0151	EA	6" x 8" Flanged, Swing Type Gravity Operated Check Valve	4,638.99	489.61
33 14 19 00-0152	EA	6" x 10" Flanged, Swing Type Gravity Operated Check Valve	4,818.94	550.37
33 14 19 00-0153	EA	8" Flanged, Swing Type Gravity Operated Check Valve	5,035.99	550.37
33 14 19 00-0154	EA	10" Flanged, Swing Type Gravity Operated Check Valve	8,646.80	670.01
33 14 19 00-0155	EA	12" Flanged, Swing Type Gravity Operated Check Valve	13,229.32	502.51
33 14 19 00-0156	EA	14" Flanged, Swing Type Gravity Operated Check Valve	18,655.48	1,092.38
33 14 19 00-0157	EA	16" Flanged, Swing Type Gravity Operated Check Valve	24,935.54	1,201.62
33 14 19 00-0158	EA	18" Flanged, Swing Type Gravity Operated Check Valve	36,373.53	1,332.70
33 14 19 00-0159	EA	20" Flanged, Swing Type Gravity Operated Check Valve	42,372.38	1,502.02

33 14 19 00-0160 Threaded, Bronze, Swing Type Check Valves *(33 14 19 00-0143)*

Note: Class 125. Watts WCV-2, NIBCO T-413.

33 14 19 00-0161	EA	1/4" Diameter Threaded, Bronze, Swing Type Check Valve	55.90	20.92
33 14 19 00-0162	EA	3/8" Diameter Threaded, Bronze, Swing Type Check Valve	57.88	20.92
33 14 19 00-0163	EA	1/2" Diameter Threaded, Bronze, Swing Type Check Valve	55.12	20.92
33 14 19 00-0164	EA	3/4" Diameter Threaded, Bronze, Swing Type Check Valve	73.34	28.26
33 14 19 00-0165	EA	1" Diameter Threaded, Bronze, Swing Type Check Valve	86.20	34.18
33 14 19 00-0166	EA	1-1/4" Diameter Threaded, Bronze, Swing Type Check Valve	119.93	43.27
33 14 19 00-0167	EA	1-1/2" Diameter Threaded, Bronze, Swing Type Check Valve	145.44	50.02
33 14 19 00-0168	EA	2" Diameter Threaded, Bronze, Swing Type Check Valve	188.37	58.48
33 14 19 00-0169	EA	2-1/2" Diameter Threaded, Bronze, Swing Type Check Valve	281.20	79.80

33 14 19 00-0170 Combination Air Release Valves *(33 14 19 00-0006)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0171	EA	1" Combination Air Release Valve	632.80	25.12
33 14 19 00-0172	EA	2" Combination Air Release Valve	1,021.72	43.07
33 14 19 00-0173		Corporation Stop And Curb Valve *(33 14 19 00-0006)*		
		Note: AWWA C800		
33 14 19 00-0174		Ball Corporation Valves *(33 14 19 00-0173)*		
		Note: Mueller B-25000.		
33 14 19 00-0175	EA	3/4" Ball Corporation Valve (Mueller B-25000)	87.01	25.12
33 14 19 00-0176	EA	1" Ball Corporation Valve (Mueller B-25000)	109.06	31.10
33 14 19 00-0177	EA	1-1/2" Ball Corporation Valve (Mueller B-25000)	190.91	45.47
33 14 19 00-0178	EA	2" Ball Corporation Valve (Mueller B-25000)	281.44	53.84
33 14 19 00-0179		Ground Key Corporation Valves *(33 14 19 00-0173)*		
		Note: Mueller B-15000.		
33 14 19 00-0180	EA	1/2" Ground Key Corporation Valve	66.40	21.54
33 14 19 00-0181	EA	3/4" Ground Key Corporation Valve	73.89	25.12
33 14 19 00-0182	EA	1" Ground Key Corporation Valve	99.49	31.10
33 14 19 00-0183	EA	1-1/4" Ground Key Corporation Valve	176.36	38.29
33 14 19 00-0184	EA	1-1/2" Ground Key Corporation Valve	186.14	45.47
33 14 19 00-0185	EA	2" Ground Key Corporation Valve	281.38	53.84
33 14 19 00-0186		Ball Curb Valves *(33 14 19 00-0173)*		
		Note: Mueller B-25204.		
33 14 19 00-0187	EA	3/4" Ball Curb Valve	102.83	25.12
33 14 19 00-0188	EA	1" Ball Curb Valve	136.04	31.10
33 14 19 00-0189	EA	1-1/2" Ball Curb Valve	253.37	45.47
33 14 19 00-0190	EA	2" Ball Curb Valve	372.89	53.84
33 14 19 00-0191		O Ring Seal Curb Valves *(33 14 19 00-0173)*		
		Note: Mueller H-15204.		
33 14 19 00-0192	EA	3/4" O Ring Seal Curb Valve	102.83	25.12
33 14 19 00-0193	EA	1" O Ring Seal Curb Valve	143.28	31.10
33 14 19 00-0194	EA	1-1/4" O Ring Seal Curb Valve	190.74	38.29
33 14 19 00-0195	EA	1-1/2" O Ring Seal Curb Valve	253.37	45.47
33 14 19 00-0196	EA	2" O Ring Seal Curb Valve	372.81	53.84
33 14 19 00-0197		Corporation Stops *(33 14 19 00-0173)*		
33 14 19 00-0198	EA	1" Bronze Corporation Stop, Flare x MIP (Mueller B-24025N)	197.01	33.79
33 14 19 00-0199	EA	1-1/2" Bronze Corporation Stop, Flare x MIP (Mueller B-24025N)	417.45	49.38
33 14 19 00-0200	EA	2" Bronze Corporation Stop, Flare x MIP (Mueller B-24025N)	651.77	58.48
33 14 19 00-0201	EA	1" Bronze Corporation Stop, Compression x MIP (Mueller B-25028N)	204.22	33.79
33 14 19 00-0202	EA	1-1/2" Bronze Corporation Stop, Compression x MIP (Mueller B-25028N)	413.76	49.38
33 14 19 00-0203	EA	2" Bronze Corporation Stop, Compression x MIP (Mueller B-25028N)	645.06	58.48
33 14 19 00-0204	EA	1" Bronze Corporation Stop, MIP x MIP (Mueller B-20013N)	203.17	33.79
33 14 19 00-0205	EA	1-1/2" Bronze Corporation Stop, MIP x MIP (Mueller B-22969N)	364.15	49.38
33 14 19 00-0206	EA	2" Bronze Corporation Stop, MIP x MIP (Mueller B-22969N)	576.75	58.48
33 14 19 00-0207		Gate Valve, AWWA C500 And C509 *(33 14 19 00-0006)*		
33 14 19 00-0208		Gate Valve, Flanged *(33 14 19 00-0207)*		
		Note: Mueller A-2380-6.		
33 14 19 00-0209	EA	2" Gate Valve, Flanged	1,103.64	159.49
33 14 19 00-0210	EA	2-1/2" Gate Valve, Flanged	1,297.24	173.48
33 14 19 00-0211	EA	3" Gate Valve, Flanged	1,535.87	203.40
33 14 19 00-0212	EA	4" Gate Valve, Flanged	1,941.52	254.84
33 14 19 00-0213	EA	6" Gate Valve, Flanged	2,454.39	430.72
33 14 19 00-0214	EA	8" Gate Valve, Flanged	3,674.74	550.37
33 14 19 00-0215	EA	10" Gate Valve, Flanged	5,590.64	670.01
33 14 19 00-0216	EA	12" Gate Valve, Flanged	6,743.74	502.51
33 14 19 00-0217	EA	14" Gate Valve, Flanged	15,071.00	1,092.38
33 14 19 00-0218	EA	16" Gate Valve, Flanged	19,816.64	1,201.62
33 14 19 00-0219	EA	18" Gate Valve, Flanged	31,643.73	1,332.70
33 14 19 00-0220	EA	20" Gate Valve, Flanged	37,881.53	1,502.02
33 14 19 00-0221		Resilient Wedge Gate Valve, Flanged *(33 14 19 00-0207)*		
		Note: Mueller A-2360-6.		
33 14 19 00-0222	EA	2" Resilient Wedge Gate Valve, Flanged	1,052.49	159.49
33 14 19 00-0223	EA	2-1/2" Resilient Wedge Gate Valve, Flanged	1,236.12	173.48
33 14 19 00-0224	EA	3" Resilient Wedge Gate Valve, Flanged	1,463.35	203.40
33 14 19 00-0225	EA	4" Resilient Wedge Gate Valve, Flanged	1,860.45	254.84
33 14 19 00-0226	EA	6" Resilient Wedge Gate Valve, Flanged	2,346.02	430.72
33 14 19 00-0227	EA	8" Resilient Wedge Gate Valve, Flanged	3,505.46	550.37
33 14 19 00-0228	EA	10" Resilient Wedge Gate Valve, Flanged	5,321.62	670.01
33 14 19 00-0229	EA	12" Resilient Wedge Gate Valve, Flanged	6,418.93	502.51

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0230		**Gate Valve, Mechanical Joint** *(33 14 19 00-0207)* Note: Mueller A-2380-20.		
33 14 19 00-0231	EA	2" Gate Valve, Mechanical Joint	1,286.47	127.42
33 14 19 00-0232	EA	2-1/2" Gate Valve, Mechanical Joint	1,378.34	159.72
33 14 19 00-0233	EA	3" Gate Valve, Mechanical Joint	1,737.16	193.23
33 14 19 00-0234	EA	4" Gate Valve, Mechanical Joint	2,054.70	254.84
33 14 19 00-0235	EA	6" Gate Valve, Mechanical Joint	2,598.17	299.11
33 14 19 00-0236	EA	8" Gate Valve, Mechanical Joint	3,829.22	358.94
33 14 19 00-0237	EA	10" Gate Valve, Mechanical Joint	5,672.72	418.76
33 14 19 00-0238	EA	12" Gate Valve, Mechanical Joint	7,116.53	502.51
33 14 19 00-0239	EA	14" Gate Valve, Mechanical Joint	16,060.43	669.08
33 14 19 00-0240	EA	16" Gate Valve, Mechanical Joint	20,858.23	751.01
33 14 19 00-0241	EA	18" Gate Valve, Mechanical Joint	33,506.62	832.94
33 14 19 00-0242	EA	20" Gate Valve, Mechanical Joint	39,894.55	938.76
33 14 19 00-0243		**Resilient Wedge Gate Valve, Mechanical Joint** *(33 14 19 00-0207)* Note: Mueller A-2360-20.		
33 14 19 00-0244	EA	2" Resilient Wedge Gate Valve, Mechanical Joint	1,228.06	127.42
33 14 19 00-0245	EA	3" Resilient Wedge Gate Valve, Mechanical Joint	1,660.70	193.23
33 14 19 00-0246	EA	4" Resilient Wedge Gate Valve, Mechanical Joint	1,967.24	254.84
33 14 19 00-0247	EA	6" Resilient Wedge Gate Valve, Mechanical Joint	2,484.98	299.11
33 14 19 00-0248	EA	8" Resilient Wedge Gate Valve, Mechanical Joint	3,653.13	358.94
33 14 19 00-0249	EA	10" Resilient Wedge Gate Valve, Mechanical Joint	5,399.05	418.76
33 14 19 00-0250	EA	12" Resilient Wedge Gate Valve, Mechanical Joint	6,770.54	502.51
33 14 19 00-0251		**Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint** *(33 14 19 00-0207)* Note: Mueller A-2361.		
33 14 19 00-0252	EA	14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	10,680.85	1,092.38
33 14 19 00-0253	EA	16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	11,608.59	1,201.62
33 14 19 00-0254	EA	18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	18,205.85	1,332.70
33 14 19 00-0255	EA	20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	21,746.97	1,502.02
33 14 19 00-0256	EA	24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	30,944.88	1,843.39
33 14 19 00-0257		**Gate Valve, Threaded, WW-V-51 Class A, Type 1** *(33 14 19 00-0207)* Note: NIBCO T-113.		
33 14 19 00-0258	EA	1/4" Diameter Threaded, Bronze, Gate Valve	64.75	20.92
33 14 19 00-0259	EA	3/8" Diameter Threaded, Bronze, Gate Valve	66.73	20.92
33 14 19 00-0260	EA	1/2" Diameter Threaded, Bronze, Gate Valve	66.28	20.92
33 14 19 00-0261	EA	3/4" Diameter Threaded, Bronze, Gate Valve	85.52	28.26
33 14 19 00-0262	EA	1" Diameter Threaded, Bronze, Gate Valve	105.36	34.18
33 14 19 00-0263	EA	1-1/4" Diameter Threaded, Bronze, Gate Valve	142.77	43.27
33 14 19 00-0264	EA	1-1/2" Diameter Threaded, Bronze, Gate Valve	165.63	50.02
33 14 19 00-0265	EA	2" Diameter Threaded, Bronze, Gate Valve	200.75	58.48
33 14 19 00-0266	EA	2-1/2" Diameter Threaded, Bronze, Gate Valve	381.97	79.80
33 14 19 00-0267	EA	3" Diameter Threaded, Bronze, Gate Valve	457.35	91.53
33 14 19 00-0268		**Cast Iron Body, Gate Valve, Epoxy Lined, Flanged, 200 Lb. With Non-Rising Stem** *(33 14 19 00-0207)* Note: Resilient Wedge, Non-rising Stem, 200 PSI, ANSI/AWWA C509, C550 and C111/A21.11 (Jenkins G-700, 701).		
33 14 19 00-0269	EA	2" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	644.90	173.22
33 14 19 00-0270	EA	2-1/2" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	666.84	173.48
33 14 19 00-0271	EA	3" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	752.70	203.40
33 14 19 00-0272	EA	4" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	968.26	340.99
33 14 19 00-0273	EA	5" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	1,198.42	366.02
33 14 19 00-0274	EA	6" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	1,463.26	406.70
33 14 19 00-0275	EA	8" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	2,155.36	519.67
33 14 19 00-0276	EA	10" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	3,041.13	632.64
33 14 19 00-0277	EA	12" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	3,582.22	768.19
33 14 19 00-0278		**Cast Iron Body, Gate Valve, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem** *(33 14 19 00-0207)* Note: Resilient Wedge, OS&Y, 200 PSI, ANSI/AWWA C509, C550 and C111/A21.11.		
33 14 19 00-0279	EA	2-1/2" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	1,040.96	173.48

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0280	EA	3" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	1,159.81	203.40
33 14 19 00-0281	EA	4" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	1,618.97	340.99
33 14 19 00-0282	EA	6" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	2,443.43	406.70
33 14 19 00-0283	EA	8" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	3,918.76	519.67
33 14 19 00-0284	EA	10" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	5,976.79	632.64
33 14 19 00-0285	EA	12" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem	9,770.64	768.19
33 14 19 00-0286		Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve *(33 14 19 00-0207)*		
33 14 19 00-0287	EA	4", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve	1,447.33	254.84
33 14 19 00-0288	EA	6", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve	1,851.66	299.11
33 14 19 00-0289	EA	8", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve	2,676.59	358.94
33 14 19 00-0290	EA	10", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve	3,950.14	418.76
33 14 19 00-0291	EA	12", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve	4,763.05	502.51
33 14 19 00-0292	EA	14", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve	17,950.63	751.01
33 14 19 00-0293	EA	16", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve	19,521.67	1,201.62
33 14 19 00-0294		Globe Valve, AWWA *(33 14 19 00-0006)*		
33 14 19 00-0295		Globe Valve, Threaded, WW-V-51 Class B, Type 1 *(33 14 19 00-0294)* Note: NIBCO T-235.		
33 14 19 00-0296	EA	1/8" Diameter Threaded, Globe Valve	90.78	20.92
33 14 19 00-0297	EA	1/4" Diameter Threaded, Globe Valve	86.77	20.92
33 14 19 00-0298	EA	3/8" Diameter Threaded, Globe Valve	88.75	20.92
33 14 19 00-0299	EA	1/2" Diameter Threaded, Globe Valve	90.78	20.92
33 14 19 00-0300	EA	3/4" Diameter Threaded, Globe Valve	123.25	28.26
33 14 19 00-0301	EA	1" Diameter Threaded, Globe Valve	172.15	34.18
33 14 19 00-0302	EA	1-1/4" Diameter Threaded, Globe Valve	250.72	43.27
33 14 19 00-0303	EA	1-1/2" Diameter Threaded, Globe Valve	299.07	50.02
33 14 19 00-0304	EA	2" Diameter Threaded, Globe Valve	415.64	58.48
33 14 19 00-0305	EA	2-1/2" Diameter Threaded, Globe Valve	759.02	79.80
33 14 19 00-0306	EA	3" Diameter Threaded, Globe Valve	1,036.69	92.01
33 14 19 00-0307		Tapping Valve, AWWA C500 And C509 *(33 14 19 00-0006)*		
33 14 19 00-0308		Tapping Valve, AWWA C500 And C509 *(33 14 19 00-0307)* Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0309	EA	2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,591.14	159.49
33 14 19 00-0310	EA	3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,050.99	203.40
33 14 19 00-0311	EA	4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,439.10	254.84
33 14 19 00-0312	EA	6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	3,214.75	430.72
33 14 19 00-0313	EA	8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	4,649.91	550.37
33 14 19 00-0314	EA	10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	6,775.70	670.01
33 14 19 00-0315	EA	12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	10,080.64	502.51
33 14 19 00-0316	EA	14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	18,503.32	1,092.38
33 14 19 00-0317	EA	16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	23,451.18	1,201.62
33 14 19 00-0318	EA	18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	38,088.39	1,332.70
33 14 19 00-0319		Yokes And Angles *(33 14 19 00-0006)*		
33 14 19 00-0320		Yoke, Meter *(33 14 19 00-0319)*		
33 14 19 00-0321	EA	Yoke, Meter, 5/8"	59.42	19.49
33 14 19 00-0322	EA	Yoke, Meter, 3/4"	67.30	21.44
33 14 19 00-0323	EA	Yoke, Meter, 1"	87.84	24.69
33 14 19 00-0324		Angles And Ells *(33 14 19 00-0319)*		
33 14 19 00-0325	EA	1-1/2" Flanged Angle, ELL	142.36	13.64
33 14 19 00-0326	EA	ELL, Yoke, With Female I.P.T	43.64	11.69
33 14 19 00-0327		Air Release and Vacuum Combination Valves *(33 14 19 00-0006)*		
33 14 19 00-0328		Air Release and Vacuum Combination Valves, Ductile Iron Body (APCo or Crispin) *(33 14 19 00-0327)*		
33 14 19 00-0329	EA	1" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	874.21	25.12
33 14 19 00-0330	EA	1-1/2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	1,103.72	34.70
33 14 19 00-0331	EA	2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	1,332.04	43.67
33 14 19 00-0332	EA	2-1/2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	1,776.33	59.82
33 14 19 00-0333	EA	3" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	2,215.33	72.99
33 14 19 00-0334	EA	4" Flanged, Air Release and Vacuum Combination Valves, Ductile Iron Body	3,380.80	199.33
33 14 19 00-0335	EA	6" Flanged, Air Release and Vacuum Combination Valves, Ductile Iron Body	4,260.40	216.13
33 14 19 00-0336		Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories, Ltd., D-040-C "Barak") *(33 14 19 00-0327)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0337	EA	1" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	444.70	25.12
33 14 19 00-0338	EA	1-1/2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	737.32	34.70
33 14 19 00-0339	EA	2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	1,028.75	43.07
33 14 19 00-0340	EA	2-1/2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	1,503.11	59.82
33 14 19 00-0341	EA	3" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	1,971.53	72.99
33 14 19 00-0342		Pressure Reducing Valves *(33 14 19 00-0006)*		
33 14 19 00-0343		Pressure Reducing Valves, Ductile Iron Body (Cla-Val Model 100-42 700 Series Roll Seal) *(33 14 19 00-0342)*		
33 14 19 00-0344	EA	2" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	2,912.54	127.42
33 14 19 00-0345	EA	2-1/2" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	3,349.98	159.72
33 14 19 00-0346	EA	3" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	3,789.80	191.43
33 14 19 00-0347	EA	4" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	6,065.84	254.84
33 14 19 00-0348	EA	6" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	9,099.59	299.11
33 14 19 00-0349	EA	8" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	15,537.40	358.94
33 14 19 00-0350	EA	10" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	29,155.92	418.76
33 14 19 00-0351	EA	12" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	36,536.86	502.51
33 14 19 00-0352		Booster Pump Control Valves *(33 14 19 00-0006)*		
33 14 19 00-0353		Pump Control Valves, Ductile Iron Body (Cla-Val Model 60-08/660-08) *(33 14 19 00-0352)*		
33 14 19 00-0354	EA	2" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	9,910.91	127.42
33 14 19 00-0355	EA	2-1/2" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	10,738.72	159.72
33 14 19 00-0356	EA	3" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	11,568.90	191.43
33 14 19 00-0357	EA	4" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	13,592.50	254.84
33 14 19 00-0358	EA	6" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	16,691.69	299.11
33 14 19 00-0359	EA	8" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	23,704.52	358.94
33 14 19 00-0360	EA	10" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	30,969.80	418.76
33 14 19 00-0361	EA	12" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	50,045.07	502.51
33 14 19 00-0362	EA	14" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	81,440.82	669.08
33 14 19 00-0363	EA	16" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	93,378.48	751.01
33 14 19 00-0364	EA	18" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	71,853.39	832.94
33 14 19 00-0365	EA	20" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	73,815.41	938.76
33 14 19 00-0366		Water Service Meter Accessories *(33 14 19 00-0006)*		
33 14 19 00-0367	EA	Bronze Meter Flange With Gasket For 1-1/2" And 2" Meters (AY McDonald 610F)	196.20	33.79
33 14 19 00-0368	EA	3/4" Bronze Ball Valve, FIP x Meter Swivel, With Locking Tabs (A.Y. McDonald 76101W)	212.49	27.29
33 14 19 00-0369	EA	1" Bronze Ball Valve, FIP x Meter Swivel, With Locking Tabs (A.Y. McDonald 76101W)	318.31	33.79
33 14 19 00-0370	EA	1-1/2" Bronze Ball Valve, FIP x Meter Swivel, With Locking Tabs (A.Y. McDonald 76101W)	497.86	49.38
33 14 19 00-0371	EA	2" Bronze Ball Valve, FIP x Meter Swivel, With Locking Tabs (A.Y. McDonald 76101W)	769.62	58.48
33 14 19 00-0372		Fire Hydrants *(33 14 19)* Note: Breakaway type.		
33 14 19 00-0373		Three Way, Standard (Traditional) Model Fire Hydrant *(33 14 19 00-0372)* Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0374	EA	1-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,753.40	316.31
33 14 19 00-0375	EA	2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,823.07	316.31
33 14 19 00-0376	EA	2-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,892.93	316.31
33 14 19 00-0377	EA	3' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,985.05	338.91
33 14 19 00-0378	EA	3-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,054.79	338.91
33 14 19 00-0379	EA	4' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,152.84	367.15
33 14 19 00-0380	EA	4-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,222.48	367.15
33 14 19 00-0381	EA	5' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,320.55	395.39
33 14 19 00-0382	EA	5-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,390.29	395.39
33 14 19 00-0383	EA	6' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,488.17	423.64
33 14 19 00-0384	EA	6-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,586.13	451.88
33 14 19 00-0385	EA	7' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,712.22	508.36
33 14 19 00-0386	EA	1-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,816.98	316.31
33 14 19 00-0387	EA	2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,907.40	316.31
33 14 19 00-0388	EA	2-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,997.60	316.31
33 14 19 00-0389	EA	3' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,110.40	338.91
33 14 19 00-0390	EA	3-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,200.60	338.91
33 14 19 00-0391	EA	4' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,319.37	367.15
33 14 19 00-0392	EA	4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,409.46	367.15
33 14 19 00-0393	EA	5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,527.99	395.39
33 14 19 00-0394	EA	5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,618.16	395.39
33 14 19 00-0395	EA	6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,736.45	423.64
33 14 19 00-0396	EA	6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,855.12	451.88
33 14 19 00-0397	EA	7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	5,001.64	508.36

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0398		**Two Way, Standard (Traditional) Model Fire Hydrant** *(33 14 19 00-0372)*		
		Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0399	EA	1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,370.94	316.31
33 14 19 00-0400	EA	2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,440.37	316.31
33 14 19 00-0401	EA	2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,510.20	316.31
33 14 19 00-0402	EA	3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,602.61	338.91
33 14 19 00-0403	EA	3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,672.13	338.91
33 14 19 00-0404	EA	4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,770.03	367.15
33 14 19 00-0405	EA	4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,839.77	367.15
33 14 19 00-0406	EA	5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,937.91	395.39
33 14 19 00-0407	EA	5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,007.50	395.39
33 14 19 00-0408	EA	6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,105.76	423.64
33 14 19 00-0409	EA	6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,203.27	451.88
33 14 19 00-0410	EA	7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,329.52	508.36
33 14 19 00-0411	EA	1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,469.16	316.31
33 14 19 00-0412	EA	2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,559.38	316.31
33 14 19 00-0413	EA	2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,649.47	316.31
33 14 19 00-0414	EA	3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,762.49	338.91
33 14 19 00-0415	EA	3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,852.46	338.91
33 14 19 00-0416	EA	4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,971.08	367.15
33 14 19 00-0417	EA	4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,061.10	367.15
33 14 19 00-0418	EA	5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,179.92	395.39
33 14 19 00-0419	EA	5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,269.89	395.39
33 14 19 00-0420	EA	6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,388.50	423.64
33 14 19 00-0421	EA	6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,506.71	451.88
33 14 19 00-0422	EA	7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,653.73	508.36
33 14 19 00-0423		**Three Way, Modern Model Fire Hydrant** *(33 14 19 00-0372)*		
		Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0424	EA	1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	3,916.01	316.31
33 14 19 00-0425	EA	2' Burial Section, Three Way, Modern Type Fire Hydrant	4,006.09	316.31
33 14 19 00-0426	EA	2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,096.45	316.31
33 14 19 00-0427	EA	3' Burial Section, Three Way, Modern Type Fire Hydrant	4,209.29	338.91
33 14 19 00-0428	EA	3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,299.44	338.91
33 14 19 00-0429	EA	4' Burial Section, Three Way, Modern Type Fire Hydrant	4,417.88	367.15
33 14 19 00-0430	EA	4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,508.15	367.15
33 14 19 00-0431	EA	5' Burial Section, Three Way, Modern Type Fire Hydrant	4,626.61	395.39
33 14 19 00-0432	EA	5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,716.79	395.39
33 14 19 00-0433	EA	6' Burial Section, Three Way, Modern Type Fire Hydrant	4,835.23	395.39
33 14 19 00-0434	EA	6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,953.94	451.88
33 14 19 00-0435	EA	7' Burial Section, Three Way, Modern Type Fire Hydrant	5,099.52	451.88
33 14 19 00-0436		**Two Way, Modern Model Fire Hydrant** *(33 14 19 00-0372)*		
		Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0437	EA	1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,786.42	316.31
33 14 19 00-0438	EA	2' Burial Section, Two Way, Modern Type Fire Hydrant	2,854.97	316.31
33 14 19 00-0439	EA	2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,924.29	316.31
33 14 19 00-0440	EA	3' Burial Section, Two Way, Modern Type Fire Hydrant	3,014.64	338.91
33 14 19 00-0441	EA	3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,083.18	338.91
33 14 19 00-0442	EA	4' Burial Section, Two Way, Modern Type Fire Hydrant	3,179.95	367.15
33 14 19 00-0443	EA	4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,248.46	367.15
33 14 19 00-0444	EA	5' Burial Section, Two Way, Modern Type Fire Hydrant	3,345.32	395.39
33 14 19 00-0445	EA	5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,413.66	395.39
33 14 19 00-0446	EA	6' Burial Section, Two Way, Modern Type Fire Hydrant	3,510.46	423.64
33 14 19 00-0447	EA	6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,607.33	451.88
33 14 19 00-0448	EA	7' Burial Section, Two Way, Modern Type Fire Hydrant	3,731.49	508.36
33 14 19 00-0449		**Safetop Model With Breakable Section** *(33 14 19 00-0372)*		
		Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0450	EA	4" Safetop Model Fire Hydrant Breakable With 5' Burial Section	2,807.03	225.94
33 14 19 00-0451	EA	6" Safetop Model Fire Hydrant Breakable With 5' Burial Section	3,003.03	254.18
33 14 19 00-0452	EA	8" Safetop Model Fire Hydrant Breakable With 5' Burial Section	3,274.65	282.42
33 14 19 00-0453		**Fire Hydrant Extension Kits** *(33 14 19 00-0372)*		
33 14 19 00-0454	EA	6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	581.46	28.24
33 14 19 00-0455	EA	12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	690.94	35.30
33 14 19 00-0456	EA	18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	753.77	42.37
33 14 19 00-0457	EA	24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	856.94	52.25
33 14 19 00-0458	EA	30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,293.06	54.37
33 14 19 00-0459	EA	36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,381.00	56.48
33 14 19 00-0460	EA	42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,402.08	59.31
33 14 19 00-0461	EA	48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,480.93	63.54
33 14 19 00-0462	EA	54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,632.93	76.26
33 14 19 00-0463	EA	60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,723.65	91.79
33 14 19 00-0464	EA	6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	646.81	31.64
33 14 19 00-0465	EA	12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	766.03	38.41
33 14 19 00-0466	EA	18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	879.09	46.31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0467	EA	24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	982.96	57.62
33 14 19 00-0468	EA	30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,345.18	59.88
33 14 19 00-0469	EA	36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,434.25	62.13
33 14 19 00-0470	EA	42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,495.62	65.53
33 14 19 00-0471	EA	48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,749.12	70.04
33 14 19 00-0472	EA	54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,917.23	83.60
33 14 19 00-0473	EA	60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	2,015.03	100.55

33 14 19 00-0474 Removal And Reinstallation Of Standard Fire Hydrant *(33 14 19 00-0372)*

Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.

33 14 19 00-0475	EA	Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant	903.76	
33 14 19 00-0476	EA	>5' Burial Section, Removal And Reinstallation Of Fire Hydrant	1,317.98	
33 14 19 00-0477	EA	Reset Fire Hydrant Upper Barrel Note: Includes Safety Repair Kit	1,435.10	

33 14 19 00-0478 Insertion Valves *(33 14 19)*

33 14 19 00-0479	EA	4" Diameter x 16" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings) Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe	4,285.42	217.75
33 14 19 00-0480	EA	6" Diameter x 16" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings) Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe	4,781.16	239.29
33 14 19 00-0481	EA	8" Diameter x 20" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings) Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe	5,582.90	358.94
33 14 19 00-0482	EA	10" Diameter x 20" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings) Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe	8,568.93	418.76
33 14 19 00-0483	EA	12" Diameter x 24" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings) Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe	10,413.18	508.50

33 14 19 00-0484 Yard Hydrants *(33 14 19)*

Note: With 3/4" hose thread outlet.

33 14 19 00-0485	EA	2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	392.54	38.98
33 14 19 00-0486	EA	4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	421.38	38.98
33 14 19 00-0487	EA	6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	450.21	38.98
33 14 19 00-0488	EA	2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	364.11	49.38
33 14 19 00-0489	EA	4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	381.31	49.38
33 14 19 00-0490	EA	6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	398.50	49.38

33 14 19 00-0491 Sanitary Yard Hydrants *(33 14 19)*

Note: With 3/4" hose thread outlet.

33 14 19 00-0492	EA	2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	1,758.43	81.22
33 14 19 00-0493	EA	4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	1,848.54	81.22
33 14 19 00-0494	EA	6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	1,938.65	81.22

33 14 19 00-0495 Flushing Hydrants *(33 14 19)*

33 14 19 00-0496	EA	2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	920.06	49.96

33 14 23 Enclosures for Water Utility Piping and Valves *(33 14)*

Note: Excludes excavation and backfill. See CSI section 22 11 19 00-0531 for Enclosures.

33 14 23 00-0001 Roadway Utility Box *(33 14 23)*

33 14 23 00-0002 Utility Box *(33 14 23 00-0001)*

Note: Christy Concrete Products.

33 14 23 00-0003 B3 Utility Box, 9-3/8" x 15-1/2" *(33 14 23 00-0002)*

33 14 23 00-0004	EA	9-3/8" x 15-1/2" Precast Concrete Utility Box	133.85	59.16
33 14 23 00-0005	EA	Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box	136.94	6.58
33 14 23 00-0006	EA	Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	56.69	6.58
33 14 23 00-0007	EA	Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box	300.09	6.58
33 14 23 00-0008	EA	12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	80.06	13.14
33 14 23 00-0009	EA	3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	115.52	13.14

33 14 23 00-0010 B9 Utility Box, 10-1/4" x 17-1/4" *(33 14 23 00-0002)*

33 14 23 00-0011	EA	10-1/4" x 17-1/4" Precast Concrete Utility Box	162.08	78.88
33 14 23 00-0012	EA	Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box	160.41	7.88
33 14 23 00-0013	EA	Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	62.88	7.88
33 14 23 00-0014	EA	Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box	314.85	6.58
33 14 23 00-0015	EA	13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box	89.81	13.14
33 14 23 00-0016	EA	5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	120.11	19.72
33 14 23 00-0017	EA	12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box	141.30	36.15

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0018		**B12 Utility Box, 12" x 20"** *(33 14 23 00-0002)*		
33 14 23 00-0019	EA	12" x 20" Precast Concrete Utility Box	178.23	85.45
33 14 23 00-0020	EA	Cast Iron Lid For 12" x 20" Utility Box	289.17	9.86
33 14 23 00-0021	EA	Reinforced Concrete Lid For 12" x 20" Utility Box	84.12	13.14
33 14 23 00-0022	EA	Steel Checkered Plate Cover For 12" x 20" Utility Box	423.13	13.14
33 14 23 00-0023	EA	12" High Reinforced Concrete Extension For 12" x 20" Utility Box	184.33	46.01
33 14 23 00-0024		**B16 Utility Box, 12" x 22-1/4"** *(33 14 23 00-0002)*		
33 14 23 00-0025	EA	12" x 22-1/4" Precast Concrete Utility Box	205.10	99.91
33 14 23 00-0026	EA	Cast Iron Lid For 12" x 22-1/4" Utility Box	326.58	13.14
33 14 23 00-0027	EA	Reinforced Concrete Lid For 12" x 22-1/4" Utility Box	104.23	13.14
33 14 23 00-0028	EA	Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box	425.53	13.14
33 14 23 00-0029	EA	16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box	146.04	22.35
33 14 23 00-0030	EA	12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box	187.67	46.01
33 14 23 00-0031		**B30 Utility Box, 13-1/4" x 24"** *(33 14 23 00-0002)*		
33 14 23 00-0032	EA	13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX)	247.15	118.31
33 14 23 00-0033	EA	Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D)	140.11	21.04
33 14 23 00-0034	EA	Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G)	525.99	17.09
33 14 23 00-0035	EA	16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL)	146.04	22.35
33 14 23 00-0036	EA	5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA)	223.51	36.81
33 14 23 00-0037	EA	6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6)	174.87	24.97
33 14 23 00-0038	EA	12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12)	243.22	59.16
33 14 23 00-0039		**B36 Utility Box, 17-1/4" x 30"** *(33 14 23 00-0002)*		
33 14 23 00-0040	EA	17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX)	323.20	149.87
33 14 23 00-0041	EA	Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D)	228.14	36.15
33 14 23 00-0042	EA	Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D)	659.06	24.97
33 14 23 00-0043	EA	20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL)	204.34	47.33
33 14 23 00-0044	EA	6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA)	348.10	52.58
33 14 23 00-0045	EA	12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12)	324.98	76.25
33 14 23 00-0046		**B40 Utility Box, 24-1/2" x 36"** *(33 14 23 00-0002)*		
33 14 23 00-0047	EA	24-1/2" x 36" Precast Concrete Utility Box	672.03	231.38
33 14 23 00-0048	EA	Reinforced Concrete Lid For 24-1/2" x 36" Utility Box	625.33	86.76
33 14 23 00-0049	EA	Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box	935.90	38.12
33 14 23 00-0050	EA	30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	510.40	81.51
33 14 23 00-0051	EA	10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	541.61	85.45
33 14 23 00-0052		**B48 Utility Box, 30-1/4" x 48-1/4"** *(33 14 23 00-0002)*		
33 14 23 00-0053	EA	30-1/4" x 48-1/4" Precast Concrete Utility Box	847.64	262.92
33 14 23 00-0054	EA	1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	859.97	143.29
33 14 23 00-0055	EA	2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	1,087.46	143.29
33 14 23 00-0056	EA	2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box	1,481.20	65.73
33 14 23 00-0057	EA	36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box	736.77	177.47
33 14 23 00-0058	EA	10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box	668.23	119.63
33 14 23 00-0059		**B65 Utility Box, 15" x 26-1/2"** *(33 14 23 00-0002)*		
33 14 23 00-0060	EA	15" x 26-1/2" Precast Concrete Utility Box	218.03	149.87
33 14 23 00-0061	EA	Reinforced Concrete Lid For 15" x 26-1/2" Utility Box	132.79	36.15
33 14 23 00-0062	EA	Steel Checkered Plate Cover For 15" x 26-1/2" Utility Box	400.15	24.97
33 14 23 00-0063	EA	20" x 34" Reinforced Concrete Slab For 15" x 26-1/2" Utility Box	204.34	47.33
33 14 23 00-0064	EA	6" High Reinforced Concrete Base For 15" x 26-1/2" Utility Box	348.10	52.58
33 14 23 00-0065	EA	12" High Reinforced Concrete Extension For 15" x 26-1/2" Utility Box	234.93	76.25
33 14 23 00-0066		**Roadway Or Curb Valve Boxes** *(33 14 23)*		
33 14 23 00-0067		**Round Head, Cast Iron Service, Roadway Or Valve Boxes** *(33 14 23 00-0066)*		
33 14 23 00-0068	EA	36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box Note: Includes cover, top section and bottom section.	249.31	15.79
33 14 23 00-0069	EA	36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box Note: Includes cover, top section and bottom section.	289.50	15.79
33 14 23 00-0070	EA	42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box Note: Includes cover, top section and bottom section.	291.35	15.79
33 14 23 00-0071	EA	9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	75.10	7.90
33 14 23 00-0072	EA	16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	85.74	7.90
33 14 23 00-0073	EA	24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	101.75	7.90
33 14 23 00-0074	EA	36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box Note: Includes cover, top section and bottom section.	375.72	19.74
33 14 23 00-0075	EA	45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section, bottom section and #6 round base.	650.42	27.64

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0076	EA	45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section, bottom section and #6 round base.	725.40	27.64
33 14 23 00-0077	EA	24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section and bottom section.	390.59	19.74
33 14 23 00-0078	EA	36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section and bottom section.	408.50	19.74
33 14 23 00-0079	EA	24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section and bottom section.	394.82	19.74
33 14 23 00-0080	EA	12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	143.14	7.90
33 14 23 00-0081	EA	18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes	241.29	32.49
33 14 23 00-0082	EA	22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes	249.42	33.79
33 14 23 00-0083	EA	30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes	277.62	35.08
33 14 23 00-0084	EA	36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box	380.69	37.04
33 14 23 00-0085	EA	48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes	458.83	38.98
33 14 23 00-0086	EA	18" Cast Iron Service Box Extension Section	107.39	

33 14 23 00-0087 Curb Box Components *(33 14 23 00-0066)*

33 14 23 00-0088	EA	Curb Box Bolt	12.10	
33 14 23 00-0089	EA	Curb Box Cover	17.82	
33 14 23 00-0090	EA	Curb Box Foot Piece	12.83	
33 14 23 00-0091	EA	Curb Box Guide Ring	10.97	
33 14 23 00-0092	EA	Curb Box Rod	53.81	
33 14 23 00-0093	EA	Curb Box Top Section	74.89	
33 14 23 00-0094	EA	Curb Box Bottom Section	78.83	
33 14 23 00-0095	EA	Curb Box Pin, Secures Rod To Curb Box	10.95	

33 14 23 00-0096 Plastic Roadway Grade Water Meter Box And Cover *(33 14 23 00-0066)*

33 14 23 00-0097	EA	12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	330.82	45.48
33 14 23 00-0098	EA	9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	248.68	32.49
33 14 23 00-0099	EA	Cast Iron Lid For Plastic Meter Box	73.93	

33 14 23 00-0100 Valve Box Components *(33 14 23 00-0066)*

33 14 23 00-0101	EA	Valve Box Upper And Lower Section	151.56	
33 14 23 00-0102	EA	Valve Box Cover "Water"	24.90	
33 14 23 00-0103	EA	Valve Box Lower Section, 4-1/2" x 6" Cutout	118.82	
33 14 23 00-0104	EA	Valve Box Top Section	60.77	
33 14 23 00-0105	EA	Valve Box Extension, 17"	72.15	
33 14 23 00-0106	EA	Meter, Cover, Single, Remote Sensor	48.50	
33 14 23 00-0107	EA	Meter, Frame, Double, 15" Diameter	96.77	
33 14 23 00-0108	EA	Meter, Frame, Double, 18" Diameter	94.57	
33 14 23 00-0109	EA	Meter, Frame, Double, 21" Diameter	210.34	
33 14 23 00-0110	EA	Extension Ring, 18" Meter Frame, 24" Pit	186.41	
33 14 23 00-0111	EA	Meter, Housing, Concrete Or Clay, 21" Diameter	299.97	
33 14 23 00-0112	EA	Meter, Housing, Clay, 24" Diameter	502.97	
33 14 23 00-0113	EA	Meter, Housing, PE, 18" Diameter	140.44	
33 14 23 00-0114	EA	Meter, Housing, PE, 24" Diameter	226.81	

33 14 23 00-0115 Removal And Reinstallation Of Meter *(33 14 23 00-0066)*

Note: Includes removal, cleaning, capping ends, protection of meter, storage, and reinstallation.

33 14 23 00-0116	EA	Removal And Reinstallation Of House Meter Note: Includes removal, cleaning, capping ends, protection of meter, storage, and reinstallation.	200.90	

33 14 23 00-0117 Traffic Valve Box And Lid *(33 14 23 00-0066)*

33 14 23 00-0118	EA	10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5)	235.50	
33 14 23 00-0119	EA	14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12)	762.12	

33 14 23 00-0120 Service Meter Boxes (Brooks) *(33 14 23)*

33 14 23 00-0121	EA	12" x 20", Precast Service Meter Box With Concrete Cover, Exposed To Traffic (Brooks #37-1 PC)	197.61	57.50
33 14 23 00-0122	EA	12" x 20", Precast Service Meter Box, Concrete Cover With Cast Iron Reading Lid, Exposed To Traffic (Brooks #37-S)	154.77	11.50
33 14 23 00-0123	EA	12" x 20", Precast Service Meter Box With Cast Iron Hinged Cover, Exposed To Traffic (Brooks #37-H4S)	160.16	11.50
33 14 23 00-0124	EA	17" x 30", Precast Service Meter Box With Concrete Cover, Exposed To Traffic (Brooks 66-1 PC)	366.23	86.26
33 14 23 00-0125	EA	17" x 30", Precast Service Meter Box With Concrete Cover With Cast Iron Reading Lid, Exposed To Traffic (Brooks 66-S)	325.96	14.38

33 14 23 00-0126 Polyethylene Above Ground Enclosure *(33 14 23)*

33 14 23 00-0127	EA	14" x 24" Polyethylene Above Ground Enclosure For 2" Air/Vacuum Valve	934.89	107.68
33 14 23 00-0128	EA	18" x 30" Polyethylene Above Ground Enclosure For 4" Air/Vacuum Valve	1,094.54	143.58
33 14 23 00-0129	EA	24" x 36" Polyethylene Above Ground Enclosure For 6" To 8" Air/Vacuum Valve	1,322.10	172.29

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0130		Service Meter Boxes (Armorcast) *(33 14 23)* Note: Water meter boxes shall be polymer, rectangular in shape, with rounded corners and beveled edges throughout with a slot provided in the bottom of each end of the box for the water service pipe and the house lateral. Boxes shall have a polymer cover with AMR slot. Meter boxes are likely to be subjected to traffic loads, traffic rated boxes and covers shall have AASHTO load Traffic ratings of 20K.		
33 14 23 00-0131	EA	13" x 24" x 12" Polymer Concrete Meter Box (ARMORCAST - #A6001946PCX12)	257.78	
33 14 23 00-0132	EA	17" x 30" x 12" Polymer Concrete Meter Box (ARMORCAST - #A6001640PCX12)	274.19	
33 14 23 00-0133	EA	13" x 24" Polymer Concrete Meter Box Cover With AMR Slot And Hinged Reading Lid (ARMORCAST - #A6001866R-H9)	96.84	
33 14 23 00-0134	EA	13" x 24" Polymer Concrete Meter Box Cover With Hinged Reading Lid (ARMORCAST - #A6001866R)	100.28	
33 14 23 00-0135	EA	17" x 30" Polymer Concrete Meter Box Cover With AMR Slot And Hinged Reading Lid (ARMORCAST - #A6001643R-H9)	128.02	
33 14 23 00-0136	EA	17" x 30" Polymer Concrete Meter Box Cover With Hinged Reading Lid (ARMORCAST - #A6001643R)	131.97	
33 14 23 00-0137	EA	12" x 20" Polymer Concrete Meter Box Cover With Hinged Reading Lid (ARMORCAST - #A6000484R)	69.77	
33 14 23 00-0138	EA	12" x 20" Polymer Concrete Meter Box Cover Only With No Hinged Reading Lid (ARMORCAST - #A6000482)	44.65	
33 14 23 00-0139		Roadway Valve Box Cover Adjustment *(33 14 23)* Note: Excludes asphalt See CSI section 02 41 13 13-0038 for breakup and removal of pavement, 02 41 19 13-0057 for saw cutting pavement if required, 32 12 16 13-0023 for hand placed hot mix asphalt.		
33 14 23 00-0140	EA	Up To 3" Rise, Up To 6" Diameter, Adjustment To Roadway Valve Cover	336.47	
33 14 23 00-0141		Roadway Utility Box Cover Adjustment *(33 14 23)* Note: Excludes asphalt See CSI section 02 41 13 13-0038 for breakup and removal of pavement, 02 41 19 13-0057 for saw cutting pavement if required, 32 12 16 13-0023 for hand placed hot mix asphalt.		
33 14 23 00-0142	EA	Up To 6" Rise, Up To 2 SF, Adjustment To Roadway Utility Cover	665.08	
33 14 23 00-0143	EA	Up To 6" Rise, >2 To 4 SF, Adjustment To Roadway Utility Cover	849.19	
33 14 23 00-0144	EA	Up To 6" Rise, >4 To 6 SF, Adjustment To Roadway Utility Cover	1,213.62	
33 14 23 00-0145	EA	Up To 6" Rise, >6 To 10 SF, Adjustment To Roadway Utility Cover	1,479.65	

33 19 Water Utility Metering Equipment *(33 10)*

33 19 13 Positive Displacement Water Meters *(33 19)*

33 19 13 23 Nutating Disc Water Meters *(33 19 13)*

33 19 13 23-0001		Bronze Disk Type Water Service Meters *(33 19 13 23)*		
33 19 13 23-0002	EA	5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter	336.51	67.57
33 19 13 23-0003	EA	3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter	422.90	80.56
33 19 13 23-0004	EA	1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter	567.64	92.26
33 19 13 23-0005	EA	1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,103.68	137.74
33 19 13 23-0006	EA	2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,495.32	179.32
33 19 13 23-0007		Magnetic Driven, Positive Displacement Type Water Service Meters *(33 19 13 23)*		
33 19 13 23-0008	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i)	616.22	67.57
		For Owner Furnished Material, Deduct	*-547.83*	
33 19 13 23-0009	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i)	702.66	80.56
		For Owner Furnished Material, Deduct	*-621.44*	
33 19 13 23-0010	EA	1" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i)	1,046.36	92.26
		For Owner Furnished Material, Deduct	*-953.54*	
33 19 13 23-0011	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i)	1,770.88	137.74
		For Owner Furnished Material, Deduct	*-1,632.65*	
33 19 13 23-0012	EA	2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i)	2,192.36	179.32
		For Owner Furnished Material, Deduct	*-2,011.89*	
33 19 13 23-0013	EA	Electronic Transmitter Note: For use with transmitting meter valve.	499.36	32.49
		For Owner Furnished Material, Deduct	*-466.87*	

33 19 16 Velocity-Type Water Meters *(33 19)*

33 19 16 13 Single-Jet Water Meters *(33 19 16)*

33 19 16 13-0001		Small/Large Spectrum Water Service Meter *(33 19 16 13)* Note: Metron-Farnier.		
33 19 16 13-0002	EA	1-1/2" Diameter, 0 - 100 GPM, Flanged, Spectrum Water Meter Note: Metron-Farnier #Spectrum 50.	1,941.97	136.44
33 19 16 13-0003	EA	2" Diameter, 0 - 125 GPM, Flanged, Spectrum Water Meter Note: Metron-Farnier #Spectrum 88.	2,782.55	173.22
33 19 16 13-0004	EA	2" Diameter, 0 - 185 GPM, Flanged, Spectrum Water Meter Note: Metron-Farnier #Spectrum 130.	3,359.76	173.22
33 19 16 13-0005	EA	3" Diameter, 0 - 320 GPM, Flanged, Spectrum Water Meter Note: Metron-Farnier #Spectrum 175.	4,518.10	203.40
33 19 16 13-0006	EA	3" Diameter, 0 - 520 GPM, Flanged, Spectrum Water Meter Note: Metron-Farnier #Spectrum 260.	4,693.89	203.40
33 19 16 13-0007	EA	4" Diameter, 0 - 520 GPM, Flanged, Spectrum Water Meter Note: Metron-Farnier #Spectrum 260.	6,553.95	318.26
33 19 16 13-0008	EA	4" Diameter, 0 - 750 GPM, Flanged, Spectrum Water Meter Note: Metron-Farnier #Spectrum 440.	10,791.23	318.26

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 19 16 13-0009	EA	6" Diameter, 0 - 750 GPM, Flanged, Spectrum Water Meter Note: Metron-Farnier #Spectrum 440.	13,543.22	430.72
33 19 16 13-0010	EA	8" Diameter, 0 - 750 GPM, Flanged, Spectrum Water Meter Note: Metron-Farnier #Spectrum 440.	16,834.14	550.37

33 19 16 23 Turbine Water Meters *(33 19 16)*

33 19 16 23-0001 Flanged Turbine Water Service Meter *(33 19 16 23)*

33 19 16 23-0002 Vertical Turbine Meters *(33 19 16 23-0001)*

33 19 16 23-0003	EA	1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged	1,323.51	125.63
33 19 16 23-0004	EA	2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged	1,861.59	159.49
33 19 16 23-0005	EA	3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged	3,449.87	203.40
33 19 16 23-0006	EA	4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged	5,142.17	318.26
33 19 16 23-0007	EA	6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged	9,775.12	430.72

33 19 16 23-0008 Horizontal Turbine Meters *(33 19 16 23-0001)*

33 19 16 23-0009	EA	1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged	2,100.90	125.63
33 19 16 23-0010	EA	2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged	2,971.41	159.49
33 19 16 23-0011	EA	3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged	3,894.82	203.40
33 19 16 23-0012	EA	4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged	5,730.33	318.26
33 19 16 23-0013	EA	6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged	11,918.05	430.72
33 19 16 23-0014	EA	8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged	15,948.58	550.37
33 19 16 23-0015	EA	10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged	22,306.53	670.01
33 19 16 23-0016	EA	12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged	26,816.35	1,056.47

33 19 19 Compound Water Meters *(33 19)*

33 19 19 00-0001 Flanged Compound Type Water Service Meter *(33 19 19)*

33 19 19 00-0002	EA	2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter	5,636.02	159.49
33 19 19 00-0003	EA	3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter	6,815.15	203.40
33 19 19 00-0004	EA	4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter	11,274.34	318.26
33 19 19 00-0005	EA	6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter	15,774.31	430.72
33 19 19 00-0006	EA	8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter	32,565.27	550.37
33 19 19 00-0007	EA	10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter	55,887.68	670.01

33 19 23 Magnetic Water Meters *(33 19)*

33 19 23 00-0001 Flanged Electromagnetic Flow (EMF) Water Meter *(33 19 23)*

33 19 23 00-0002	EA	2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	9,233.33	159.49
33 19 23 00-0003	EA	3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	13,021.69	203.40
33 19 23 00-0004	EA	4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	14,952.53	318.26

33 19 26 Ultrasonic Water Meters *(33 19)*

33 19 26 00-0001 Ultrasonic Water Service Meters (Mastermeter Octive) *(33 19 26)*

33 19 26 00-0002	EA	3" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	4,673.46	203.40
33 19 26 00-0003	EA	4" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	5,390.10	318.26
33 19 26 00-0004	EA	6" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	7,930.32	430.72
33 19 26 00-0005	EA	8" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	11,419.37	550.37

33 30 Sanitary Sewerage Utilities *(33)*

33 31 Sanitary Sewerage Piping *(33 30)*

33 31 11 Public Sanitary Sewerage Gravity Piping *(33 31)*

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 31 11 00-0001 Cast Iron Service Saddles With U Bolt *(33 31 11)*

33 31 11 00-0002	EA	2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	132.59	
33 31 11 00-0003	EA	3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	133.30	
33 31 11 00-0004	EA	3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	146.73	
33 31 11 00-0005	EA	4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	141.97	
33 31 11 00-0006	EA	4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	160.21	
33 31 11 00-0007	EA	4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	180.21	
33 31 11 00-0008	EA	4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	213.47	
33 31 11 00-0009	EA	6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	180.65	
33 31 11 00-0010	EA	6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	197.47	
33 31 11 00-0011	EA	6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	227.79	
33 31 11 00-0012	EA	2" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	185.98	
33 31 11 00-0013	EA	4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	145.94	
33 31 11 00-0014	EA	4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	159.36	
33 31 11 00-0015	EA	4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	189.49	
33 31 11 00-0016	EA	4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	224.87	
33 31 11 00-0017	EA	6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	241.99	

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0018		**Plastic Sewer And Drain Piping** *(33 31 11)* Note: Includes detectable tracer wire.		
33 31 11 00-0019		**Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe** *(33 31 11 00-0018)*		
33 31 11 00-0020	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	11.14	4.52
33 31 11 00-0021	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.52	5.34
33 31 11 00-0022	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	18.79	6.46
33 31 11 00-0023	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	23.53	7.55
33 31 11 00-0024	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	32.26	8.78
33 31 11 00-0025	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	43.32	10.21
33 31 11 00-0026	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	59.37	10.56
33 31 11 00-0027	LF	12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	78.14	10.94
33 31 11 00-0028		**Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe** *(33 31 11 00-0018)* Note: D-2729 PVC pipe.		
33 31 11 00-0029	LF	3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	14.27	6.46
33 31 11 00-0030	LF	4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	16.76	7.55
33 31 11 00-0031	LF	6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	20.82	8.78
33 31 11 00-0032		**Polyvinyl Chloride (PVC) Sewer And Drain Fittings** *(33 31 11 00-0018)*		
33 31 11 00-0033		**Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbows** *(33 31 11 00-0032)*		
33 31 11 00-0034	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	32.44	15.27
33 31 11 00-0035	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	41.65	19.74
33 31 11 00-0036	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	77.40	26.52
33 31 11 00-0037	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	125.62	30.65
33 31 11 00-0038	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	544.78	39.84
33 31 11 00-0039	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	911.09	53.61
33 31 11 00-0040	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	1,202.39	71.40
33 31 11 00-0041		**Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbows** *(33 31 11 00-0032)*		
33 31 11 00-0042	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	34.64	15.27
33 31 11 00-0043	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	41.47	19.74
33 31 11 00-0044	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	74.10	26.52
33 31 11 00-0045	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	109.50	30.65
33 31 11 00-0046	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	503.74	39.84
33 31 11 00-0047	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	815.70	53.61
33 31 11 00-0048	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	921.79	71.40
33 31 11 00-0049	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	1,375.97	95.10
33 31 11 00-0050		**Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweeps** *(33 31 11 00-0032)*		
33 31 11 00-0051	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	59.18	15.04
33 31 11 00-0052	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	57.04	19.74
33 31 11 00-0053	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	116.98	26.52
33 31 11 00-0054	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	198.18	30.65
33 31 11 00-0055	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	404.63	39.84
33 31 11 00-0056	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	726.91	53.61
33 31 11 00-0057	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	1,199.09	71.40
33 31 11 00-0058	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	1,824.74	95.10
33 31 11 00-0059		**Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbows** *(33 31 11 00-0032)*		
33 31 11 00-0060	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	39.32	15.27
33 31 11 00-0061	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	46.24	19.74
33 31 11 00-0062	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	87.81	26.52
33 31 11 00-0063	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	134.93	30.65
33 31 11 00-0064	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	681.31	39.84
33 31 11 00-0065	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	1,109.84	53.61
33 31 11 00-0066	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	1,247.65	71.40
33 31 11 00-0067	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	1,267.37	95.10
33 31 11 00-0068		**Polyvinyl Chloride (PVC) Sewer And Drain, Reducers** *(33 31 11 00-0032)*		
33 31 11 00-0069	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	45.24	17.42
33 31 11 00-0070	EA	3" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	92.05	20.80
33 31 11 00-0071	EA	3" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	85.37	22.94
33 31 11 00-0072	EA	4" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	138.42	25.07
33 31 11 00-0073	EA	4" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	148.06	28.44
33 31 11 00-0074	EA	6" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	480.32	35.21
33 31 11 00-0075	EA	8" x 6" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	1,035.11	46.68
33 31 11 00-0076	EA	10" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	203.25	50.98
33 31 11 00-0077	EA	10" x 6" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	281.15	55.60
33 31 11 00-0078	EA	10" x 8" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	263.35	62.44
33 31 11 00-0079	EA	12" x 6" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	1,066.56	67.49

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0080	EA	12" x 8" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	1,125.01	74.33
33 31 11 00-0081	EA	12" x 10" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	1,189.08	83.25
33 31 11 00-0082		**Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tees** *(33 31 11 00-0032)*		
33 31 11 00-0083	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	51.61	23.07
33 31 11 00-0084	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	69.06	29.85
33 31 11 00-0085	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	123.97	39.38
33 31 11 00-0086	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	196.97	48.90
33 31 11 00-0087	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	799.71	53.61
33 31 11 00-0088	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	1,037.08	71.40
33 31 11 00-0089		**Polyvinyl Chloride (PVC) Sewer And Drain, Wyes** *(33 31 11 00-0032)*		
33 31 11 00-0090	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	68.65	23.07
33 31 11 00-0091	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	78.95	29.85
33 31 11 00-0092	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	136.61	39.38
33 31 11 00-0093	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	217.67	48.90
33 31 11 00-0094	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	722.02	53.61
33 31 11 00-0095	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	889.51	71.40
33 31 11 00-0096	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	1,169.49	95.28
33 31 11 00-0097	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	1,858.24	127.16
33 31 11 00-0098		**Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wyes** *(33 31 11 00-0032)*		
33 31 11 00-0099	EA	2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	95.40	23.07
33 31 11 00-0100	EA	2" x 2" x 1" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	104.97	29.85
33 31 11 00-0101	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	119.02	39.38
33 31 11 00-0102	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	189.28	48.90
33 31 11 00-0103	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	208.70	48.90
33 31 11 00-0104	EA	6" x 6" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	343.28	80.59
33 31 11 00-0105		**Polyvinyl Chloride (PVC) Sewer And Drain, Double Wyes** *(33 31 11 00-0032)*		
33 31 11 00-0106	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye	117.24	29.85
33 31 11 00-0107	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye	152.37	39.38
33 31 11 00-0108	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye	320.60	53.15
33 31 11 00-0109	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye	584.91	64.29
33 31 11 00-0110	EA	2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Double Wye	144.31	39.38
33 31 11 00-0111	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Double Wye	259.04	53.15
33 31 11 00-0112	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Double Wye	483.22	64.29
33 31 11 00-0113		**Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bends** *(33 31 11 00-0032)*		
33 31 11 00-0114	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend	89.90	23.07
33 31 11 00-0115	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend	112.11	29.85
33 31 11 00-0116	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend	236.28	39.38
33 31 11 00-0117	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend	441.20	48.90
33 31 11 00-0118	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	184.30	29.85
33 31 11 00-0119	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	301.66	39.38
33 31 11 00-0120	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	210.71	39.38
33 31 11 00-0121	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	410.55	48.90
33 31 11 00-0122	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	438.58	48.90
33 31 11 00-0123		**Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bends** *(33 31 11 00-0032)*		
33 31 11 00-0124	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	133.73	29.85
33 31 11 00-0125	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	154.20	39.38
33 31 11 00-0126	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	244.93	53.15
33 31 11 00-0127	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	967.10	64.29
33 31 11 00-0128	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	3,267.68	71.17
33 31 11 00-0129		**Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tees With Plug** *(33 31 11 00-0032)*		
33 31 11 00-0130	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug	722.61	122.45
33 31 11 00-0131	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug	1,802.90	157.98
33 31 11 00-0132	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug	2,283.72	222.61
33 31 11 00-0133	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug	3,123.24	358.10
33 31 11 00-0134		**Polyvinyl Chloride (PVC) Sewer And Drain, Couplings** *(33 31 11 00-0032)*		
33 31 11 00-0135	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	31.27	15.27
33 31 11 00-0136	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	38.73	19.63
33 31 11 00-0137	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	63.37	26.29
33 31 11 00-0138	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	85.17	30.65
33 31 11 00-0139	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	276.39	39.84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0140	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	706.05	53.61
33 31 11 00-0141	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	1,076.73	71.40
33 31 11 00-0142	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	1,794.42	95.10
33 31 11 00-0143		**Polyvinyl Chloride (PVC) Sewer And Drain, Adapters** *(33 31 11 00-0032)*		
33 31 11 00-0144	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Male Threaded Iron Adapter Fitting	147.35	83.99
33 31 11 00-0145	EA	2" x 3" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Downspout Adapter Fitting	103.01	63.89
33 31 11 00-0146	EA	2" x 3" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Downspout Adapter Fitting	106.13	63.89
33 31 11 00-0147	EA	3" x 4" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Downspout Adapter Fitting	114.42	63.89
33 31 11 00-0148	EA	4" Cast Iron Pipe x Polyvinyl Chloride (PVC) Sewer And Drain, Hub Pipe Adapter Fitting	149.63	83.99
33 31 11 00-0149	EA	4" Clay Pipe x Polyvinyl Chloride (PVC) Sewer And Drain, Spigot Pipe Adapter Fitting	142.99	83.99
33 31 11 00-0150	EA	4" Fiberglass Pipe x Polyvinyl Chloride (PVC) Sewer And Drain, Spigot Pipe Adapter Fitting	132.10	83.99
33 31 11 00-0151	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Drain Grate Fitting	72.86	43.19
33 31 11 00-0152		**Polyvinyl Chloride (PVC) Sewer And Drain, Caps** *(33 31 11 00-0032)*		
33 31 11 00-0153	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Cap	43.64	16.41
33 31 11 00-0154	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Cap	73.73	20.44
33 31 11 00-0155	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Cap	142.66	26.41
33 31 11 00-0156		**Polyvinyl Chloride (PVC) Sewer And Drain, Cleanouts With Plug** *(33 31 11 00-0032)*		
33 31 11 00-0157	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug	26.69	15.27
33 31 11 00-0158	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug	34.78	19.74
33 31 11 00-0159	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug	52.16	26.52
33 31 11 00-0160	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug	69.61	30.65
33 31 11 00-0161	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug	122.33	39.84
33 31 11 00-0162	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug	483.00	53.61
33 31 11 00-0163		**Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe** *(33 31 11 00-0018)* Note: ASTM 3034.		
33 31 11 00-0164	LF	4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	18.09	7.55
33 31 11 00-0165	LF	6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	23.25	8.78
33 31 11 00-0166	LF	8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	30.09	10.21
33 31 11 00-0167	LF	10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	35.66	10.56
33 31 11 00-0168	LF	12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	42.35	10.94
33 31 11 00-0169	LF	15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	53.36	11.32
33 31 11 00-0170	LF	18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	65.93	11.73
33 31 11 00-0171	LF	21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	84.04	12.74
33 31 11 00-0172	LF	24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	100.83	13.74
33 31 11 00-0173	LF	27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	124.75	16.13
33 31 11 00-0174		**Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe** *(33 31 11 00-0018)* Note: ASTM 3034.		
33 31 11 00-0175	LF	4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	18.21	7.55
33 31 11 00-0176	LF	6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	23.78	8.78
33 31 11 00-0177	LF	8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	31.29	10.21
33 31 11 00-0178		**Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings** *(33 31 11 00-0018)* Note: ASTM 3034.		
33 31 11 00-0179		**Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bends** *(33 31 11 00-0178)*		
33 31 11 00-0180	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	90.41	28.03
33 31 11 00-0181	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	134.68	32.60
33 31 11 00-0182	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	284.17	36.94
33 31 11 00-0183	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	819.97	43.46
33 31 11 00-0184	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	1,059.64	55.41
33 31 11 00-0185		**Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bends** *(33 31 11 00-0178)*		
33 31 11 00-0186	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	81.43	28.03
33 31 11 00-0187	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	124.78	32.60
33 31 11 00-0188	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	259.13	36.94
33 31 11 00-0189	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	584.26	43.46
33 31 11 00-0190	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	835.52	55.41
33 31 11 00-0191	EA	15" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	1,794.49	78.22
33 31 11 00-0192	EA	18" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	2,848.21	110.82
33 31 11 00-0193	EA	21" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	4,755.35	146.67
33 31 11 00-0194	EA	24" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	6,484.35	195.56
33 31 11 00-0195		**Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tees** *(33 31 11 00-0178)*		
33 31 11 00-0196	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	136.88	42.05
33 31 11 00-0197	EA	6" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	222.28	46.61
33 31 11 00-0198	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	250.11	48.89
33 31 11 00-0199	EA	8" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	276.35	51.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0200	EA	8" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	316.94	53.45
33 31 11 00-0201	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	611.34	55.73
33 31 11 00-0202	EA	10" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	784.31	57.04
33 31 11 00-0203	EA	10" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	889.40	59.76
33 31 11 00-0204	EA	10" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	1,315.71	62.03
33 31 11 00-0205	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	1,716.33	65.19
33 31 11 00-0206	EA	12" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	965.12	69.43
33 31 11 00-0207	EA	12" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	1,024.76	71.71
33 31 11 00-0208	EA	12" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	1,464.86	73.99
33 31 11 00-0209	EA	12" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	2,115.68	77.14
33 31 11 00-0210	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	2,384.59	83.11

33 31 11 00-0211 Gasketed SDR 35 Polyvinyl Chloride (PVC), Wyes *(33 31 11 00-0178)*

33 31 11 00-0212	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	129.91	42.05
33 31 11 00-0213	EA	6" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	199.06	46.61
33 31 11 00-0214	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	218.92	48.89
33 31 11 00-0215	EA	8" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	266.39	51.17
33 31 11 00-0216	EA	8" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	305.06	53.45
33 31 11 00-0217	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	469.44	55.73
33 31 11 00-0218	EA	10" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	716.92	57.48
33 31 11 00-0219	EA	10" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	731.21	59.76
33 31 11 00-0220	EA	10" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,102.73	62.03
33 31 11 00-0221	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,220.54	65.19
33 31 11 00-0222	EA	12" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	908.91	69.43
33 31 11 00-0223	EA	12" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	937.43	71.71
33 31 11 00-0224	EA	12" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,345.17	73.99
33 31 11 00-0225	EA	12" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,622.02	77.14
33 31 11 00-0226	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,693.34	83.11
33 31 11 00-0227	EA	15" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	2,087.11	99.96
33 31 11 00-0228	EA	15" x 12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	2,315.98	105.93
33 31 11 00-0229	EA	15" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	2,897.00	117.34

33 31 11 00-0230 Gasketed SDR 35 Polyvinyl Chloride (PVC), Couplings *(33 31 11 00-0178)*

33 31 11 00-0231	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	89.62	28.03
33 31 11 00-0232	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	139.97	32.60
33 31 11 00-0233	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	207.40	37.15
33 31 11 00-0234	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	395.31	43.46
33 31 11 00-0235	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	561.47	55.41
33 31 11 00-0236	EA	15" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	1,100.96	78.22
33 31 11 00-0237	EA	18" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	2,074.08	110.82
33 31 11 00-0238	EA	21" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	3,464.42	146.67
33 31 11 00-0239	EA	24" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	5,016.71	195.56

33 31 11 00-0240 Gasketed SDR 35 Polyvinyl Chloride (PVC), Increasers *(33 31 11 00-0178)*

33 31 11 00-0241	EA	6" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	173.63	30.32
33 31 11 00-0242	EA	8" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	249.78	32.60
33 31 11 00-0243	EA	8" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	263.36	34.87
33 31 11 00-0244	EA	10" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	596.95	38.02
33 31 11 00-0245	EA	10" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	686.39	40.31
33 31 11 00-0246	EA	12" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	767.03	44.00
33 31 11 00-0247	EA	12" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	880.72	46.28
33 31 11 00-0248	EA	12" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	1,010.18	49.44
33 31 11 00-0249	EA	15" x 12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	1,521.58	66.81

33 31 11 00-0250 SDR 35 Polyvinyl Chloride (PVC), Saddle Wyes With Stainless Steel Clamps *(33 31 11 00-0178)*

33 31 11 00-0251	EA	6" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	142.99	
33 31 11 00-0252	EA	8" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	189.24	
33 31 11 00-0253	EA	8" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	193.54	
33 31 11 00-0254	EA	10" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	322.05	
33 31 11 00-0255	EA	10" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	340.05	
33 31 11 00-0256	EA	10" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	649.79	
33 31 11 00-0257	EA	12" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	366.52	
33 31 11 00-0258	EA	12" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	400.27	
33 31 11 00-0259	EA	12" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	900.33	
33 31 11 00-0260	EA	12" x 10" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	1,062.84	
33 31 11 00-0261	EA	15" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	419.29	
33 31 11 00-0262	EA	15" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps	448.74	

33 31 11 00-0263 SDR 35 Polyvinyl Chloride (PVC), Saddle Tees With Stainless Steel Clamps *(33 31 11 00-0178)*

33 31 11 00-0264	EA	6" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	153.07	
33 31 11 00-0265	EA	8" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	189.24	
33 31 11 00-0266	EA	8" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	207.26	
33 31 11 00-0267	EA	10" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	295.34	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0268	EA	10" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	337.90	
33 31 11 00-0269	EA	10" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	515.35	
33 31 11 00-0270	EA	12" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	364.38	
33 31 11 00-0271	EA	12" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	398.23	
33 31 11 00-0272	EA	12" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	599.32	
33 31 11 00-0273	EA	12" x 10" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	730.56	
33 31 11 00-0274	EA	15" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	417.96	
33 31 11 00-0275	EA	15" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	438.76	
33 31 11 00-0276	EA	15" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	736.09	
33 31 11 00-0277	EA	15" x 10" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	815.28	
33 31 11 00-0278	EA	15" x 12" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps	1,155.67	

33 31 11 00-0279 Gasketed SDR 35 Polyvinyl Chloride (PVC), Caps *(33 31 11 00-0178)*

33 31 11 00-0280	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Cap	45.24	
33 31 11 00-0281	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Cap	69.16	
33 31 11 00-0282	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Cap	145.97	
33 31 11 00-0283	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Cap	392.65	
33 31 11 00-0284	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Cap	576.24	

33 31 11 00-0285 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe and Fittings *(33 31 11 00-0018)*

Note: ASTM F949.

33 31 11 00-0286 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe *(33 31 11 00-0285)*

33 31 11 00-0287	LF	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	17.27	7.55
33 31 11 00-0288	LF	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	23.07	8.78
33 31 11 00-0289	LF	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	28.69	10.21
33 31 11 00-0290	LF	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	33.05	10.56
33 31 11 00-0291	LF	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	34.84	10.94
33 31 11 00-0292	LF	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	40.04	11.32
33 31 11 00-0293	LF	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	49.40	11.73
33 31 11 00-0294	LF	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	57.07	12.74
33 31 11 00-0295	LF	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	68.81	13.74
33 31 11 00-0296	LF	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe	98.04	18.51

33 31 11 00-0297 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bends *(33 31 11 00-0285)*

33 31 11 00-0298	EA	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	56.99	
33 31 11 00-0299	EA	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	75.94	
33 31 11 00-0300	EA	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	103.80	
33 31 11 00-0301	EA	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	171.15	
33 31 11 00-0302	EA	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	185.79	
33 31 11 00-0303	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	303.11	
33 31 11 00-0304	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	474.82	
33 31 11 00-0305	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	664.12	
33 31 11 00-0306	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	853.38	
33 31 11 00-0307	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	1,119.64	

33 31 11 00-0308 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bends *(33 31 11 00-0285)*

33 31 11 00-0309	EA	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	53.73	
33 31 11 00-0310	EA	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	71.10	
33 31 11 00-0311	EA	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	96.77	
33 31 11 00-0312	EA	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	157.93	
33 31 11 00-0313	EA	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	171.95	
33 31 11 00-0314	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	278.65	
33 31 11 00-0315	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	434.95	
33 31 11 00-0316	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	604.95	
33 31 11 00-0317	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	775.00	
33 31 11 00-0318	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	1,015.04	

33 31 11 00-0319 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bends *(33 31 11 00-0285)*

33 31 11 00-0320	EA	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	48.83	
33 31 11 00-0321	EA	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	60.90	
33 31 11 00-0322	EA	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	91.56	
33 31 11 00-0323	EA	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	115.55	
33 31 11 00-0324	EA	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	157.25	
33 31 11 00-0325	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	252.66	
33 31 11 00-0326	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	366.62	
33 31 11 00-0327	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	544.40	
33 31 11 00-0328	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	722.21	
33 31 11 00-0329	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	1,012.54	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0330		**Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wyes** *(33 31 11 00-0285)*		
33 31 11 00-0331	EA	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	88.37	
33 31 11 00-0332	EA	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	113.10	
33 31 11 00-0333	EA	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	193.32	
33 31 11 00-0334	EA	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	304.27	
33 31 11 00-0335	EA	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	495.64	
33 31 11 00-0336	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	704.53	
33 31 11 00-0337	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	1,018.89	
33 31 11 00-0338	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	1,168.51	
33 31 11 00-0339	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	1,318.08	
33 31 11 00-0340	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye	2,359.15	
33 31 11 00-0341		**Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tees** *(33 31 11 00-0285)*		
33 31 11 00-0342	EA	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	81.69	
33 31 11 00-0343	EA	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	103.93	
33 31 11 00-0344	EA	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	174.58	
33 31 11 00-0345	EA	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	272.25	
33 31 11 00-0346	EA	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	439.38	
33 31 11 00-0347	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	623.32	
33 31 11 00-0348	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	900.00	
33 31 11 00-0349	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	1,030.61	
33 31 11 00-0350	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	1,161.18	
33 31 11 00-0351	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee	2,064.37	
33 31 11 00-0352		**Drain And Sewer Pipe - Bell And Spigot** *(33 31 11)* Note: ASTM D2672.		
33 31 11 00-0353		**Precast Cleanout Assembly** *(33 31 11 00-0352)*		
33 31 11 00-0354	EA	4" x 4" Precast Cleanout Block For SDR-35 Pipe	301.56	83.76
		For Pipe Extension and Cleanout, Add	*68.50*	
33 31 11 00-0355	EA	6" x 4" Precast Cleanout Block For SDR-35 Pipe	345.51	107.68
		For Pipe Extension and Cleanout, Add	*78.07*	
33 31 11 00-0356	EA	6" x 6" Precast Cleanout Block For SDR-35 Pipe	390.58	107.68
		For Pipe Extension and Cleanout, Add	*78.07*	
33 31 11 00-0357	EA	8" x 4" Precast Cleanout Block For SDR-35 Pipe	427.58	119.65
		For Pipe Extension and Cleanout, Add	*82.86*	
33 31 11 00-0358		**Couplings And Plug Fittings** *(33 31 11)*		
33 31 11 00-0359		**Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings** *(33 31 11 00-0358)* Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.		
33 31 11 00-0360	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	21.88	7.88
33 31 11 00-0361	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)	23.95	9.20
33 31 11 00-0362	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)	27.65	10.51
33 31 11 00-0363	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)	31.28	11.18
33 31 11 00-0364	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)	38.11	11.83
33 31 11 00-0365	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)	45.00	13.14
33 31 11 00-0366	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)	56.94	14.46
33 31 11 00-0367	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)	70.05	15.11
33 31 11 00-0368	EA	12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212)	114.74	15.78
33 31 11 00-0369	EA	15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515)	155.72	17.09
33 31 11 00-0370	EA	18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818)	298.75	17.74
33 31 11 00-0371	EA	21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121)	346.91	18.74
33 31 11 00-0372	EA	24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424)	384.22	19.72
33 31 11 00-0373	EA	27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727)	460.08	21.04
33 31 11 00-0374		**Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings** *(33 31 11 00-0358)* Note: For ductile iron to ductile iron. Includes stainless steel clamps.		
33 31 11 00-0375	EA	4" x 4" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-44)	36.37	
33 31 11 00-0376	EA	5" x 4" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-54)	50.53	
33 31 11 00-0377	EA	5" x 5" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-55)	47.86	
33 31 11 00-0378	EA	6" x 4" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-64)	60.49	
33 31 11 00-0379	EA	6" x 5" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-65)	63.28	
33 31 11 00-0380	EA	6" x 6" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-66)	57.74	
33 31 11 00-0381	EA	8" x 6" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-86)	84.26	
33 31 11 00-0382	EA	8" x 8" Ductile Iron To Ductile, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-88)	76.01	
33 31 11 00-0383	EA	10" x 8" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-10-8)	104.81	
33 31 11 00-0384	EA	10" x 10" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-1010)	95.23	
33 31 11 00-0385	EA	12" x 10" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-1210)	125.69	
33 31 11 00-0386	EA	12" x 12" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-1212)	110.05	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0387	EA	16" x 15" Ductile Iron To Ductile Iron, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling (Fernco 1055-1615)	175.14	

33 31 11 00-0388 Manhole Inside Bowl Drop *(33 31 11)*

33 31 11 00-0389	EA	Inside Pipe Drop, 4" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4DB)	361.29	
33 31 11 00-0390	EA	Inside Pipe Drop, 4" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96)	378.57	
33 31 11 00-0391	EA	Inside Pipe Drop, 6" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6DB)	388.09	
33 31 11 00-0392	EA	Inside Pipe Drop, 6" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96)	401.25	
33 31 11 00-0393	EA	Inside Pipe Drop, 8" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DB)	416.89	
33 31 11 00-0394	EA	Inside Pipe Drop, 8" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DBR84)	446.77	
33 31 11 00-0395	EA	Inside Pipe Drop, 10" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10DB)	465.16	
33 31 11 00-0396	EA	Inside Pipe Drop, 10" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96)	480.10	
33 31 11 00-0397	EA	Inside Pipe Drop, 12" Outlet for 4' to 6' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R60)	825.41	
33 31 11 00-0398	EA	Inside Pipe Drop, 12" Outlet for 7' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R96)	847.82	

33 32 Sanitary Sewerage Equipment *(33 30)*

33 32 16 Packaged Wastewater Grinder Pump Assemblies *(33 32)*

33 32 16 00-0001 In-Line Sewage Grinder, Single Shaft Design *(33 32 16)*

33 32 16 00-0002	EA	In-Line Sewage Grinder, 4" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 4-8000, 3 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	15,054.12	1,532.53
		For NEMA 4X Controller, Add	*2,700.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*9,600.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0003	EA	In-Line Sewage Grinder, 6" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 6-8000, 3 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	15,054.12	1,532.53
		For NEMA 4X Controller, Add	*2,700.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*9,600.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0004	EA	In-Line Sewage Grinder, 8" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 8000, 5 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	15,054.12	1,532.53
		For NEMA 4X Controller, Add	*2,700.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*9,600.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0005	EA	In-Line Sewage Grinder, 10" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 1000, 7-1/2 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	23,550.04	1,532.53
		For NEMA 4X Controller, Add	*2,700.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*9,600.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0006	EA	In-Line Sewage Grinder, 10" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 1600, 10 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	31,631.52	1,532.53
		For NEMA 4X Controller, Add	*2,700.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*9,600.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0007	EA	Lower Housing Replacement, Including Casing, Liner, Cutter And Bearings. For Series 8000	81,291.14	
33 32 16 00-0008	EA	Lower Housing Replacement, Including Casing, Liner, Cutter And Bearings. For Series 1000	91,127.21	
33 32 16 00-0009	EA	Lower Housing Replacement, Including Casing, Liner, Cutter And Bearings. For Series 1600	323,299.26	

33 32 16 00-0010 Submersible Grinder Pumps, Cast Iron With Bronze Impeller *(33 32 16)*

33 32 16 00-0011	EA	2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge Note: Zoeller 840 series.	2,265.20	390.10
33 32 16 00-0012	EA	2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge Note: Zoeller 840 series.	2,234.50	390.10
33 32 16 00-0013	EA	Simplex Control Panel With Auto Reversing Switch Note: For Zoeller 840 series grinder pump.	1,057.10	129.99
33 32 16 00-0014	EA	Duplex Control Panel With Auto Reversing Switch Note: For Zoeller 840 series grinder pump.	1,627.59	129.99
33 32 16 00-0015	EA	Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74)	14,032.75	

33 32 16 00-0016 Submersible Grinder Pumps *(33 32 16)*

Note: Includes 50' of cord with pumps unless otherwise noted.

33 32 16 00-0017	EA	2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	3,999.75	794.83
33 32 16 00-0018	EA	3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	5,916.50	927.29
33 32 16 00-0019	EA	5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	7,258.73	1,192.23

33 32 16 00-0020 In-Line Sewage Grinder, Double Shaft Design *(33 32 16)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 32 16 00-0021	EA	4" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge.	15,293.31	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0022	EA	6" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge.	16,535.43	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0023	EA	8" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge.	17,013.81	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0024	EA	10" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge.	19,396.22	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0025	EA	12" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge.	21,244.60	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0026	EA	12" Pipe Flanges, In-Line Sewage Grinder, 10 HP, Muffin Monster Series 40000 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 43:1 reducer, and 12" high cutting cartridge.	41,819.52	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0027	EA	16" Pipe Flanges, In-Line Sewage Grinder, 10 HP, Muffin Monster Series 40000 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 43:1 reducer, and 12" high cutting cartridge.	47,986.31	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0028	EA	18" Pipe Flanges, In-Line Sewage Grinder, 10 HP, Muffin Monster Series 40000 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 43:1 reducer, and 12" high cutting cartridge.	50,382.93	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0029	EA	Up To 8" Cutter Cartridge Replacement For Series 30000	101,179.52	
33 32 16 00-0030	EA	10" To 12" Cutter Cartridge Replacement For Series 30000	162,580.09	
33 32 16 00-0031	EA	12" Cutter Cartridge Replacement For Series 40000	342,768.32	
33 32 16 00-0032	EA	16" Cutter Cartridge Replacement For Series 40000	405,163.28	
33 32 16 00-0033	EA	18" Cutter Cartridge Replacement For Series 40000	429,412.01	

33 32 16 00-0034 Open Channel Sewage, Double Shaft Design *(33 32 16)*

33 32 16 00-0035	EA	Open Channel Sewage Grinder, Double Shaft Design, 40" High Cutter Cartridge, Muffin Monster Series 30000	27,800.96	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect	*3,701.00*	
33 32 16 00-0036	EA	Open Channel Sewage Grinder, Double Shaft Design, 50" High Cutter Cartridge, Muffin Monster Series 30000	30,169.16	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect	*3,701.00*	
33 32 16 00-0037	EA	Open Channel Sewage Grinder, Double Shaft Design, 60" High Cutter Cartridge, Muffin Monster Series 30000	32,537.36	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect	*3,701.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 32 16 00-0038	EA	Open Channel Sewage Grinder, Double Shaft Design, 18" High Cutter Cartridge, Muffin Monster Series 40000	38,980.05	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect, Add	*5,182.00*	
		Note: With Quick Disconnect, Add		
33 32 16 00-0039	EA	Open Channel Sewage Grinder, Double Shaft Design, 24" High Cutter Cartridge, Muffin Monster Series 40000	42,134.49	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect, Add	*5,182.00*	
		Note: With Quick Disconnect, Add		
33 32 16 00-0040	EA	Open Channel Sewage Grinder, Double Shaft Design, 32" High Cutter Cartridge, Muffin Monster Series 40000	45,153.94	1,532.53
		For NEMA 4X Controller, Add	*1,846.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For NEMA 7 Controller, Add	*10,466.00*	
		Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
		For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect, Add	*5,182.00*	
		Note: With Quick Disconnect, Add		
33 32 16 00-0041	EA	For Cutter Cartridge Replacement For Series 30000, 40"	184,923.91	
33 32 16 00-0042	EA	For Cutter Cartridge Replacement For Series 30000, 50"	206,788.50	
33 32 16 00-0043	EA	For Cutter Cartridge Replacement For Series 30000, 60"	231,049.22	
33 32 16 00-0044	EA	For Cutter Cartridge Replacement For Series 40000, 18"	255,908.96	
33 32 16 00-0045	EA	For Cutter Cartridge Replacement For Series 40000, 24"	298,739.61	
33 32 16 00-0046	EA	For Cutter Cartridge Replacement For Series 40000, 32"	332,285.29	

33 32 16 00-0047 Monoflo TR Muncher *(33 32 16)*

Note: TR Muncher twin shaft sludge grinder, 3 HP TEXP motor, CI body, alloy steel cutter and spacers, 11 tooth cutters, 8mm thick, includes control panel monoflo priced separately.

33 32 16 00-0048	EA	CT203P Monoflo TR Muncher 4" Ports with 12" Throat	41,150.65	510.93
		For 5 HP TEXP Motor, Add	*1,150.00*	
		For 5mm Thick Cutters, Add	*725.00*	
33 32 16 00-0049	EA	CT203Q Monoflo TR Muncher 6" Ports with 12" Throat	41,150.65	510.93
		For 5 HP TEXP Motor, Add	*1,150.00*	
		For 5mm Thick Cutters, Add	*725.00*	
33 32 16 00-0050	EA	CT203R Monoflo TR Muncher 8" Ports with 12" Throat	41,806.58	510.93
		For 5 HP TEXP Motor, Add	*1,150.00*	
		For 5mm Thick Cutters, Add	*725.00*	
33 32 16 00-0051	EA	CT203S Monoflo TR Muncher 10" Ports with 12" Throat	47,972.27	510.93
		For 5 HP TEXP Motor, Add	*1,150.00*	
		For 5mm Thick Cutters, Add	*950.00*	
33 32 16 00-0052	EA	CT203T Monoflo TR Muncher 12" Ports with 12" Throat	51,251.90	510.93
		For 5 HP TEXP Motor, Add	*1,150.00*	
		For 5mm Thick Cutters, Add	*950.00*	
33 32 16 00-0053	EA	Monoflo TR Muncher Control Panel (MF-511)	9,176.05	127.73
33 32 16 00-0054	EA	Monoflo TR Muncher 12" Cutter Stack Rotating Assembly, spare part, material only	20,963.36	
		For 5mm Thick Cutters, Add	*725.00*	
33 32 16 00-0055	EA	Monoflo TR Muncher 20" Cutter Stack Rotating Assembly, spare part, material only	22,039.08	
		For 5mm Thick Cutters, Add	*950.00*	

33 34 Onsite Wastewater Disposal *(33 30)*

Note: Excludes distribution field piping, trenching or excavation.

33 34 13 Septic Tanks *(33 34)*

33 34 13 13 Concrete Septic Tanks *(33 34 13)*

33 34 13 13-0001 Precast Concrete Septic Tank *(33 34 13 13)*

Note: Includes external coating.

33 34 13 13-0002	EA	1,000 Gallon Precast Septic Tank	4,417.22	794.83
		For Non-Traffic Rated, Deduct	*-860.28*	
33 34 13 13-0003	EA	1,250 Gallon Precast Septic Tank	5,313.76	877.36
		For Non-Traffic Rated, Deduct	*-1,059.15*	
33 34 13 13-0004	EA	1,500 Gallon Precast Septic Tank	6,175.53	959.75
		For Non-Traffic Rated, Deduct	*-1,249.30*	
33 34 13 13-0005	EA	2,000 Gallon Precast Septic Tank	7,939.55	1,043.21
		For Non-Traffic Rated, Deduct	*-1,665.61*	
33 34 13 13-0006	EA	2,500 Gallon Precast Septic Tank	9,447.30	1,440.62
		For Non-Traffic Rated, Deduct	*-1,921.17*	
33 34 13 13-0007	EA	4,000 Gallon Precast Septic Tank	25,243.61	1,987.06
		For Non-Traffic Rated, Deduct	*-5,701.54*	
33 34 13 13-0008	EA	5,000 Gallon Precast Septic Tank	45,945.30	2,980.59
		For Non-Traffic Rated, Deduct	*-10,574.88*	
33 34 13 13-0009	EA	7,500 Gallon Precast Septic Tank	51,462.47	4,172.83
		For Non-Traffic Rated, Deduct	*-11,596.11*	
33 34 13 13-0010	EA	10,000 Gallon Precast Septic Tank	63,110.35	4,992.56
		For Non-Traffic Rated, Deduct	*-14,254.18*	
33 34 13 13-0011	EA	12,500 Gallon Precast Septic Tank	74,555.70	6,184.79
		For Non-Traffic Rated, Deduct	*-16,734.66*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 13 23		**Fiberglass Septic Tank** *(33 34 13)*		
33 34 13 23-0001		Fiberglass Septic Tank *(33 34 13 23)*		
33 34 13 23-0002	EA	1,000 Gallon Fiberglass Septic Tank	4,930.48	596.12
33 34 13 23-0003	EA	1,250 Gallon Fiberglass Septic Tank	5,801.73	794.83
33 34 13 23-0004	EA	1,500 Gallon Fiberglass Septic Tank	6,687.36	720.38
33 34 13 23-0005	EA	2,000 Gallon Fiberglass Septic Tank	11,200.72	779.86
33 34 13 23-0006	EA	2,500 Gallon Fiberglass Septic Tank	14,057.60	1,080.96
33 34 13 23-0007	EA	4,000 Gallon Fiberglass Septic Tank	22,301.54	1,490.29
33 34 13 23-0008	EA	5,000 Gallon Fiberglass Septic Tank	33,098.60	2,235.44
33 34 13 23-0009	EA	7,500 Gallon Fiberglass Septic Tank	45,440.05	3,129.62
33 34 13 23-0010	EA	10,000 Gallon Fiberglass Septic Tank	55,764.55	3,740.57
33 34 13 33		**Polyethylene Septic Tank** *(33 34 13)*		
33 34 13 33-0001		High-Density Polyethylene (HDPE) Septic Tank *(33 34 13 33)*		
33 34 13 33-0002	EA	300 Gallon One Compartment One Manhole High-Density Polyethylene (HDPE) Septic Tank	1,388.79	239.29
33 34 13 33-0003	EA	500 Gallon One Compartment One Manhole High-Density Polyethylene (HDPE) Septic Tank	2,146.71	269.21
33 34 13 33-0004	EA	900 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	2,988.62	329.03
33 34 13 33-0005	EA	1,000 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,067.24	358.94
33 34 13 33-0006	EA	1,250 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,556.65	388.85
33 34 13 33-0007	EA	1,500 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	4,271.62	418.76
33 34 13 33-0008	EA	750 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,012.04	299.11
33 34 13 33-0009	EA	1,000 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,282.04	358.94
33 34 13 33-0010	EA	1,250 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,862.74	388.85
33 34 13 33-0011	EA	1,500 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	4,540.12	418.76
33 34 51		**Drainage Field System** *(33 34)*		
33 34 51 00-0001		Leaching Pit - Precast Concrete *(33 34 51)*		
		Note: Includes external coating.		
33 34 51 00-0002	EA	3' Diameter, 3' High, Precast Concrete Leaching Pit	1,012.69	116.58
33 34 51 00-0003	EA	4' Diameter, 3' High, Precast Concrete Leaching Pit	1,423.19	165.59
33 34 51 00-0004	EA	6' Diameter, 3' High, Precast Concrete Leaching Pit	1,895.77	198.71
33 34 51 00-0005	EA	8' Diameter, 4' High, Precast Concrete Leaching Pit	3,086.72	331.18
33 34 51 00-0006	EA	10' Diameter, 4' High, Precast Concrete Leaching Pit	4,503.61	463.65
33 34 53		**Distribution Chambers** *(33 34)*		
33 34 53 13		**Drainage Field Concrete Distribution Chambers** *(33 34 53)*		
33 34 53 13-0001		Concrete Distribution Boxes *(33 34 53 13)*		
		Note: Includes internal and external coating.		
33 34 53 13-0002	EA	3 Outlet Concrete Distribution Box	386.26	84.39
33 34 53 13-0003	EA	5 Outlet Concrete Distribution Box	449.56	101.27
33 34 53 13-0004	EA	8 Outlet Concrete Distribution Box	786.72	118.15
33 34 53 13-0005	EA	12 Outlet Concrete Distribution Box	1,554.26	202.54
33 34 53 13-0006		Leaching Field Chambers - Precast Concrete *(33 34 53 13)*		
33 34 53 13-0007	EA	Standard Leaching Field Chamber 13' x 3'-7" x 1'-4"	1,184.81	102.50
33 34 53 13-0008	EA	Heavy-Duty Leaching Field Chamber 13' x 3'-9" x 1'-6"	1,450.23	139.78
33 34 53 33		**Drainage Field Polyethylene Distribution Chambers** *(33 34 53)*		
33 34 53 33-0001		High-Density Polyethylene (HDPE) Leaching Field Chambers *(33 34 53 33)*		
33 34 53 33-0002	LF	16" Wide x 11" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	21.62	6.43
33 34 53 33-0003	LF	22" Wide x 12" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	27.65	6.96
33 34 53 33-0004	LF	34" Wide x 12" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	37.05	7.60
33 34 53 33-0005	LF	34" Wide x 16" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	53.33	8.35
33 34 56		**Drainage Field Dosing Chambers** *(33 34)*		
33 34 56 00-0001		Dosing Siphon *(33 34 56)*		
33 34 56 00-0002	EA	Dosing Siphon With Electrical Connection And Solenoid Valve	6,316.11	
33 34 56 00-0003	EA	Solar Power Control For Dosing Siphon	4,325.53	
33 34 56 00-0004	EA	Electrical Power Control For Dosing Siphon	4,155.90	

33 40 Stormwater Utilities *(33)*

33 41 Subdrainage *(33 40)*

33 41 16 Subdrainage Piping *(33 41)*

33 41 16 13 Subdrainage Piping *(33 41 16)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0001		Corrugated High-Density Polyethylene (HDPE) Drainage Piping *(33 41 16 13)*		
33 41 16 13-0002		Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping *(33 41 16 13-0001)*		
		Note: Excludes couplings and gaskets.		
33 41 16 13-0003		Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping *(33 41 16 13-0002)*		
33 41 16 13-0004	LF	4" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	6.41	5.37
		For <100, Add	*1.13*	
		For >1,000, Deduct	*-0.59*	
33 41 16 13-0005	LF	6" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	8.09	5.76
		For <100, Add	*1.27*	
		For >1,000, Deduct	*-0.69*	
33 41 16 13-0006	LF	8" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	10.16	6.04
		For <100, Add	*1.41*	
		For >1,000, Deduct	*-0.81*	
33 41 16 13-0007	LF	10" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	13.83	6.23
		For <100, Add	*1.63*	
		For >1,000, Deduct	*-1.00*	
33 41 16 13-0008	LF	12" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	16.29	6.81
		For <100, Add	*1.84*	
		For >1,000, Deduct	*-1.16*	
33 41 16 13-0009	LF	15" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	21.49	7.68
		For <100, Add	*2.23*	
		For >1,000, Deduct	*-1.46*	
33 41 16 13-0010	LF	18" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	34.40	12.78
		For <100, Add	*3.64*	
		For >1,000, Deduct	*-2.36*	
33 41 16 13-0011	LF	24" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	47.80	14.04
		For <100, Add	*4.50*	
		For >1,000, Deduct	*-3.09*	
33 41 16 13-0012		Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping *(33 41 16 13-0002)*		
33 41 16 13-0013	LF	4" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	6.26	5.37
		For <100, Add	*1.12*	
		For >1,000, Deduct	*-0.58*	
33 41 16 13-0014	LF	6" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	8.02	5.76
		For <100, Add	*1.27*	
		For >1,000, Deduct	*-0.69*	
33 41 16 13-0015	LF	8" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	12.99	6.04
		For <100, Add	*1.56*	
		For >1,000, Deduct	*-0.95*	
33 41 16 13-0016	LF	10" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	15.32	6.23
		For <100, Add	*1.70*	
		For >1,000, Deduct	*-1.08*	
33 41 16 13-0017	LF	12" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	17.92	6.81
		For <100, Add	*1.92*	
		For >1,000, Deduct	*-1.24*	
33 41 16 13-0018	LF	15" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	21.31	7.68
		For <100, Add	*2.22*	
		For >1,000, Deduct	*-1.45*	
33 41 16 13-0019	LF	18" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	33.32	12.78
		For <100, Add	*3.58*	
		For >1,000, Deduct	*-2.31*	
33 41 16 13-0020	LF	24" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	46.09	14.04
		For <100, Add	*4.41*	
		For >1,000, Deduct	*-3.01*	
33 41 16 13-0021		Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings *(33 41 16 13-0001)*		
		Note: Excludes couplings and gaskets.		
33 41 16 13-0022		Tees, Single Wall, Corrugated High-Density Polyethylene (HDPE) *(33 41 16 13-0021)*		
33 41 16 13-0023	EA	4" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	42.03	26.09
33 41 16 13-0024	EA	6" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	49.40	30.43
33 41 16 13-0025	EA	8" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	67.45	36.96
33 41 16 13-0026	EA	10" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	84.76	45.66
33 41 16 13-0027	EA	12" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	112.12	54.36
33 41 16 13-0028	EA	15" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	195.45	71.02
33 41 16 13-0029	EA	18" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	244.68	95.65
33 41 16 13-0030	EA	24" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	389.11	108.70
33 41 16 13-0031		Wyes, Single Wall, Corrugated High-Density Polyethylene (HDPE) *(33 41 16 13-0021)*		
33 41 16 13-0032	EA	4" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	42.47	26.09
33 41 16 13-0033	EA	6" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	50.82	30.43
33 41 16 13-0034	EA	8" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	82.35	36.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0035		**45 Degree Bends, Single Wall, Corrugated High-Density Polyethylene (HDPE)** *(33 41 16 13-0021)*		
33 41 16 13-0036	EA	4" 45 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	28.17	17.40
33 41 16 13-0037		**90 Degree Bends, Single Wall, Corrugated High-Density Polyethylene (HDPE)** *(33 41 16 13-0021)*		
33 41 16 13-0038	EA	4" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	28.62	17.40
33 41 16 13-0039	EA	6" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	34.77	20.29
33 41 16 13-0040	EA	8" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	46.03	24.64
33 41 16 13-0041	EA	10" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	58.59	30.43
33 41 16 13-0042		**Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729** *(33 41 16 13)*		
		Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043	LF	3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	7.18	4.45
		For <100, Add	*1.03*	
		For >1,000, Deduct	*-0.58*	
33 41 16 13-0044	LF	4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	7.84	4.81
		For <100, Add	*1.11*	
		For >1,000, Deduct	*-0.63*	
33 41 16 13-0045	LF	6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	10.99	5.77
		For <100, Add	*1.42*	
		For >1,000, Deduct	*-0.84*	
33 41 16 13-0046	LF	8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	16.95	7.21
		For <100, Add	*1.93*	
		For >1,000, Deduct	*-1.21*	
33 41 16 13-0047	LF	10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	26.99	7.51
		For <100, Add	*2.48*	
		For >1,000, Deduct	*-1.73*	
33 41 16 13-0048	LF	12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	34.27	8.19
		For <100, Add	*2.94*	
		For >1,000, Deduct	*-2.12*	
33 41 16 13-0049	LF	15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	47.05	9.23
		For <100, Add	*3.74*	
		For >1,000, Deduct	*-2.81*	
33 41 16 13-0050		**Perforated Non-Reinforced Concrete Drainage Piping, C444** *(33 41 16 13)*		
33 41 16 13-0051	LF	6" Perforated Non-Reinforced Concrete Drainage Pipe	38.06	13.65
		For Extra Strength, Add	*2.18*	
		For >1,000, Deduct	*-1.90*	
33 41 16 13-0052	LF	8" Perforated Non-Reinforced Concrete Drainage Pipe	44.56	15.17
		For Extra Strength, Add	*2.69*	
		For >1,000, Deduct	*-2.23*	
33 41 16 13-0053	LF	10" Perforated Non-Reinforced Concrete Drainage Pipe	50.46	16.68
		For Extra Strength, Add	*3.13*	
		For >1,000, Deduct	*-2.52*	
33 41 16 13-0054	LF	12" Perforated Non-Reinforced Concrete Drainage Pipe	59.37	18.20
		For Extra Strength, Add	*3.92*	
		For >1,000, Deduct	*-2.97*	
33 41 16 13-0055		**Extra Strength Porous Non-Reinforced Concrete Drainage Piping, C654** *(33 41 16 13)*		
		Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 13-0056	LF	6" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	31.30	13.65
		For >1,000, Deduct	*-1.57*	
33 41 16 13-0057	LF	8" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	34.64	15.17
		For >1,000, Deduct	*-1.73*	
33 41 16 13-0058	LF	10" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	38.21	16.68
		For >1,000, Deduct	*-1.91*	
33 41 16 13-0059	LF	12" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	43.70	17.33
		For >1,000, Deduct	*-2.19*	
33 41 16 13-0060	LF	15" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	50.86	19.50
		For >1,000, Deduct	*-2.54*	
33 41 16 13-0061	LF	18" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	62.92	24.92
		For >1,000, Deduct	*-3.15*	
33 41 16 13-0062	LF	21" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	78.58	31.96
		For >1,000, Deduct	*-3.93*	
33 41 16 13-0063	LF	24" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	95.81	39.00
		For >1,000, Deduct	*-4.79*	
33 41 16 13-0064		**Standard Strength Porous Non-Reinforced Concrete Drainage Piping, C654** *(33 41 16 13)*		
33 41 16 13-0065	LF	6" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe	29.07	13.65
		For >1,000, Deduct	*-1.45*	
33 41 16 13-0066	LF	8" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe	37.11	15.17
		For >1,000, Deduct	*-1.86*	
33 41 16 13-0067	LF	10" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe	47.15	16.68
		For >1,000, Deduct	*-2.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0068	LF	12" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe	57.39	18.20
		For >1,000, Deduct	*-2.87*	
33 41 16 13-0069	LF	15" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe	65.78	20.25
		For >1,000, Deduct	*-3.29*	
33 41 16 13-0070	LF	18" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe	85.33	25.25
		For >1,000, Deduct	*-4.27*	

33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 *(33 41 16 13)*

33 41 16 13-0072	LF	4" Perforated Vitrified Clay Drainage Pipe	28.97	15.17
33 41 16 13-0073	LF	6" Perforated Vitrified Clay Drainage Pipe	34.73	17.07
33 41 16 13-0074	LF	8" Perforated Vitrified Clay Drainage Pipe	39.91	17.07
33 41 16 13-0075	LF	10" Perforated Vitrified Clay Drainage Pipe	53.74	20.85
33 41 16 13-0076	LF	12" Perforated Vitrified Clay Drainage Pipe	64.11	22.75

33 41 16 13-0077 Geotextile Filter Fabric Sock *(33 41 16 13)*

33 41 16 13-0078	LF	3" Geotextile Filter Fabric Sock	0.89	
33 41 16 13-0079	LF	4" Geotextile Filter Fabric Sock	1.17	
33 41 16 13-0080	LF	6" Geotextile Filter Fabric Sock	1.78	
33 41 16 13-0081	LF	8" Geotextile Filter Fabric Sock	2.39	
33 41 16 13-0082	LF	10" Geotextile Filter Fabric Sock	3.59	
33 41 16 13-0083	LF	12" Geotextile Filter Fabric Sock	4.94	
33 41 16 13-0084	LF	15" Geotextile Filter Fabric Sock	5.95	

33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe *(33 41 16 13)*

Note: Perforations are located in the bottom quarter points of the pipe.

33 41 16 13-0086	LF	6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	26.61	6.50
		For Full Perforated, Add	*1.36*	
33 41 16 13-0087	LF	8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	33.70	7.88
		For Full Perforated, Add	*1.79*	
33 41 16 13-0088	LF	10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	42.50	10.00
		For Full Perforated, Add	*2.25*	
33 41 16 13-0089	LF	12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	47.17	11.82
		For Full Perforated, Add	*2.35*	
33 41 16 13-0090	LF	15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	54.04	12.23
		For Full Perforated, Add	*2.96*	
33 41 16 13-0091	LF	18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	61.08	12.68
		For Full Perforated, Add	*3.57*	
33 41 16 13-0092	LF	21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	69.86	13.68
		For Full Perforated, Add	*4.25*	

33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe *(33 41 16 13)*

Note: Perforations are located in the bottom quarter points of the pipe.

33 41 16 13-0094	LF	6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	28.80	6.50
		For Full Perforated, Add	*1.58*	
33 41 16 13-0095	LF	8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	36.67	7.88
		For Full Perforated, Add	*2.09*	
33 41 16 13-0096	LF	10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	46.12	10.00
		For Full Perforated, Add	*2.61*	
33 41 16 13-0097	LF	12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	50.69	11.82
		For Full Perforated, Add	*2.71*	
33 41 16 13-0098	LF	15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	58.39	12.23
		For Full Perforated, Add	*3.39*	
33 41 16 13-0099	LF	18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	66.25	12.68
		For Full Perforated, Add	*4.09*	
33 41 16 13-0100	LF	21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	75.88	13.68
		For Full Perforated, Add	*4.85*	

33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe *(33 41 16 13)*

Note: Perforations are located in the bottom quarter points of the pipe.

33 41 16 13-0102	LF	6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	29.51	6.50
		For Full Perforated, Add	*1.65*	
33 41 16 13-0103	LF	8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	37.58	7.88
		For Full Perforated, Add	*2.18*	
33 41 16 13-0104	LF	10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	47.28	10.00
		For Full Perforated, Add	*2.73*	
33 41 16 13-0105	LF	12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	59.38	11.82
		For Full Perforated, Add	*3.57*	
33 41 16 13-0106	LF	15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	69.21	12.23
		For Full Perforated, Add	*4.47*	
33 41 16 13-0107	LF	18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	79.36	12.68
		For Full Perforated, Add	*5.40*	
33 41 16 13-0108	LF	21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	91.18	13.68
		For Full Perforated, Add	*6.38*	

33 41 16 13-0109 Prefabricated Composite Drains *(33 41 16 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0110		Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) *(33 41 16 13-0109)*		
		Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.		
33 41 16 13-0111	LF	12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	12.10	2.51
		For External Typar Geotextile Wrap, Add	*2.23*	
33 41 16 13-0112	EA	Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	54.85	
33 41 16 13-0113	EA	End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	54.85	
33 41 16 13-0114	EA	Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	106.45	
33 41 16 13-0115	EA	End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	106.45	
33 41 16 13-0116	LF	18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	19.37	3.13
		For External Typar Geotextile Wrap, Add	*3.34*	
33 41 16 13-0117	EA	Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	81.34	
33 41 16 13-0118	EA	End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	81.34	
33 41 16 13-0119	EA	Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	139.93	
33 41 16 13-0120	EA	End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	139.93	

33 41 19 Underslab Drainage *(33 41)*

33 41 19 13 Underslab Drainage Piping *(33 41 19)*

33 41 19 13-0001 Capillary Water Barrier Underslab Drainage *(33 41 19 13)*

Note: Consists of a layer of fine granular material overlying a coarse layer.

33 41 19 13-0002	CY	2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	61.98	
33 41 19 13-0003	CY	4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	59.09	
33 41 19 13-0004	CY	6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	57.94	
33 41 19 13-0005	CY	8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	56.20	

33 42 Stormwater Conveyance *(33 40)*

Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 42 11 Stormwater Gravity Piping *(33 42)*

33 42 11 00-0001 Reinforced Concrete Piping *(33 42 11)*

Note: Includes detectable tracer wire.

33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets *(33 42 11 00-0001)*

33 42 11 00-0003	LF	12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	57.16	18.20
		For >1,000, Deduct	*-2.86*	
		For Class 4, Add	*2.96*	
		For Class 5, Add	*6.23*	
33 42 11 00-0004	LF	15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	68.83	20.25
		For >1,000, Deduct	*-3.44*	
		For Class 4, Add	*3.79*	
		For Class 5, Add	*7.98*	
33 42 11 00-0005	LF	18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	78.05	25.25
		For >1,000, Deduct	*-3.90*	
		For Class 4, Add	*3.99*	
		For Class 5, Add	*8.40*	
33 42 11 00-0006	LF	21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	100.06	31.85
		For >1,000, Deduct	*-5.00*	
		For Class 4, Add	*5.18*	
		For Class 5, Add	*10.91*	
33 42 11 00-0007	LF	24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	116.98	38.68
		For >1,000, Deduct	*-5.85*	
		For Class 4, Add	*5.86*	
		For Class 5, Add	*12.35*	
33 42 11 00-0008	LF	27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	148.81	49.64
		For >1,000, Deduct	*-7.44*	
		For Class 4, Add	*7.40*	
		For Class 5, Add	*15.58*	
33 42 11 00-0009	LF	30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	158.35	51.25
		For >1,000, Deduct	*-7.92*	
		For Class 4, Add	*8.01*	
		For Class 5, Add	*16.85*	
33 42 11 00-0010	LF	36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	196.63	58.24
		For >1,000, Deduct	*-9.83*	
		For Class 4, Add	*10.86*	
		For Class 5, Add	*22.86*	
33 42 11 00-0011	LF	42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	255.98	64.06
		For >1,000, Deduct	*-12.80*	
		For Class 4, Add	*15.71*	
		For Class 5, Add	*33.07*	
33 42 11 00-0012	LF	48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	307.02	71.34
		For >1,000, Deduct	*-15.35*	
		For Class 4, Add	*19.49*	
		For Class 5, Add	*41.02*	
33 42 11 00-0013	LF	54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	382.80	81.54
		For >1,000, Deduct	*-19.14*	
		For Class 4, Add	*25.30*	
		For Class 5, Add	*53.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0014	LF	60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	462.66	94.58
		For >1,000, Deduct	*-23.13*	
		For Class 4, Add	*31.12*	
		For Class 5, Add	*65.51*	
33 42 11 00-0015	LF	66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	717.33	104.83
		For >1,000, Deduct	*-35.87*	
		For Class 4, Add	*53.98*	
		For Class 5, Add	*113.65*	
33 42 11 00-0016	LF	72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	837.66	114.15
		For >1,000, Deduct	*-41.88*	
		For Class 4, Add	*64.09*	
		For Class 5, Add	*134.92*	
33 42 11 00-0017	LF	78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	1,008.19	128.13
		For >1,000, Deduct	*-50.41*	
		For Class 4, Add	*78.35*	
		For Class 5, Add	*164.95*	
33 42 11 00-0018	LF	84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	1,301.00	142.69
		For >1,000, Deduct	*-65.05*	
		For Class 4, Add	*104.23*	
		For Class 5, Add	*219.43*	

33 42 11 00-0019 HE-I Elliptical Reinforced Concrete Piping Without Gaskets *(33 42 11 00-0001)*

33 42 11 00-0020	LF	12" x 18" Elliptical Reinforced Concrete Pipe Without Gaskets (15" Diameter Equivalent Round Size)	91.96	28.96
		For >1,000, Deduct	*-4.60*	
		For Horizontal Elliptical - II (HE- II), Add	*5.06*	
		For Horizontal Elliptical - III (HE- III), Add	*11.13*	
		For Horizontal Elliptical - IV (HE- IV), Add	*24.28*	
33 42 11 00-0021	LF	14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size)	138.80	33.59
		For >1,000, Deduct	*-6.94*	
		For Horizontal Elliptical - II (HE- II), Add	*9.08*	
		For Horizontal Elliptical - III (HE- III), Add	*19.98*	
		For Horizontal Elliptical - IV (HE- IV), Add	*43.59*	
33 42 11 00-0022	LF	19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size)	192.31	51.44
		For >1,000, Deduct	*-9.62*	
		For Horizontal Elliptical - II (HE- II), Add	*11.88*	
		For Horizontal Elliptical - III (HE- III), Add	*26.14*	
		For Horizontal Elliptical - IV (HE- IV), Add	*57.03*	
33 42 11 00-0023	LF	22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size)	227.14	66.01
		For >1,000, Deduct	*-11.36*	
		For Horizontal Elliptical - II (HE- II), Add	*13.28*	
		For Horizontal Elliptical - III (HE- III), Add	*29.22*	
		For Horizontal Elliptical - IV (HE- IV), Add	*63.76*	
33 42 11 00-0024	LF	24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size)	241.21	68.97
		For >1,000, Deduct	*-12.06*	
		For Horizontal Elliptical - II (HE- II), Add	*14.27*	
		For Horizontal Elliptical - III (HE- III), Add	*31.39*	
		For Horizontal Elliptical - IV (HE- IV), Add	*68.49*	
33 42 11 00-0025	LF	27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size)	277.53	72.82
		For >1,000, Deduct	*-13.88*	
		For Horizontal Elliptical - II (HE- II), Add	*17.35*	
		For Horizontal Elliptical - III (HE- III), Add	*38.17*	
		For Horizontal Elliptical - IV (HE- IV), Add	*83.28*	
33 42 11 00-0026	LF	29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size)	313.85	76.67
		For >1,000, Deduct	*-15.69*	
		For Horizontal Elliptical - II (HE- II), Add	*20.43*	
		For Horizontal Elliptical - III (HE- III), Add	*44.95*	
		For Horizontal Elliptical - IV (HE- IV), Add	*98.07*	
33 42 11 00-0027	LF	34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size)	383.37	84.37
		For >1,000, Deduct	*-19.17*	
		For Horizontal Elliptical - II (HE- II), Add	*26.29*	
		For Horizontal Elliptical - III (HE- III), Add	*57.83*	
		For Horizontal Elliptical - IV (HE- IV), Add	*126.17*	
33 42 11 00-0028	LF	38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size)	462.58	94.88
		For >1,000, Deduct	*-23.13*	
		For Horizontal Elliptical - II (HE- II), Add	*32.70*	
		For Horizontal Elliptical - III (HE- III), Add	*71.94*	
		For Horizontal Elliptical - IV (HE- IV), Add	*156.97*	
33 42 11 00-0029	LF	43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size)	526.53	108.45
		For >1,000, Deduct	*-26.33*	
		For Horizontal Elliptical - II (HE- II), Add	*37.16*	
		For Horizontal Elliptical - III (HE- III), Add	*81.75*	
		For Horizontal Elliptical - IV (HE- IV), Add	*178.37*	
33 42 11 00-0030	LF	48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size)	652.91	125.80
		For >1,000, Deduct	*-32.65*	
		For Horizontal Elliptical - II (HE- II), Add	*47.32*	
		For Horizontal Elliptical - III (HE- III), Add	*104.10*	
		For Horizontal Elliptical - IV (HE- IV), Add	*227.14*	
33 42 11 00-0031	LF	53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size)	745.67	138.61
33 42 11 00-0032	LF	58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size)	905.87	151.43
33 42 11 00-0033	LF	63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size)	1,083.16	171.22
33 42 11 00-0034	LF	68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size)	1,172.10	189.86
33 42 11 00-0035	LF	72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size)	1,505.42	199.18
33 42 11 00-0036	LF	77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size)	1,746.87	208.50

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0037		**Concrete Reducing Wye Without Gaskets** *(33 42 11 00-0001)*		
33 42 11 00-0038	EA	12" Concrete Reducing Wye Without Gaskets	714.62	69.34
33 42 11 00-0039	EA	15" Concrete Reducing Wye Without Gaskets	856.79	84.50
33 42 11 00-0040	EA	18" Concrete Reducing Wye Without Gaskets	1,060.16	93.17
33 42 11 00-0041	EA	21" Concrete Reducing Wye Without Gaskets	1,215.66	114.84
33 42 11 00-0042	EA	24" Concrete Reducing Wye Without Gaskets	1,372.84	138.68
33 42 11 00-0043		**Concrete Pipe Joint Gaskets** *(33 42 11 00-0001)*		
33 42 11 00-0044	EA	12" Diameter Concrete Pipe Joint Gasket	6.91	
33 42 11 00-0045	EA	15" Diameter Concrete Pipe Joint Gasket	8.17	
33 42 11 00-0046	EA	18" Diameter Concrete Pipe Joint Gasket	9.47	
33 42 11 00-0047	EA	21" Diameter Concrete Pipe Joint Gasket	11.45	
33 42 11 00-0048	EA	24" Diameter Concrete Pipe Joint Gasket	13.41	
33 42 11 00-0049	EA	27" Diameter Concrete Pipe Joint Gasket	14.95	
33 42 11 00-0050	EA	30" Diameter Concrete Pipe Joint Gasket	16.42	
33 42 11 00-0051	EA	36" Diameter Concrete Pipe Joint Gasket	20.06	
33 42 11 00-0052	EA	42" Diameter Concrete Pipe Joint Gasket	23.26	
33 42 11 00-0053	EA	48" Diameter Concrete Pipe Joint Gasket	26.83	
33 42 11 00-0054	EA	54" Diameter Concrete Pipe Joint Gasket	32.88	
33 42 11 00-0055	EA	60" Diameter Concrete Pipe Joint Gasket	48.67	
33 42 11 00-0056	EA	66" Diameter Concrete Pipe Joint Gasket	50.60	
33 42 11 00-0057	EA	72" Diameter Concrete Pipe Joint Gasket	52.46	
33 42 11 00-0058	EA	78" Diameter Concrete Pipe Joint Gasket	60.42	
33 42 11 00-0059	EA	84" Diameter Concrete Pipe Joint Gasket	72.43	
33 42 11 00-0060		**Couplings** *(33 42 11 00-0001)*		
33 42 11 00-0061		**Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings** *(33 42 11 00-0060)*		
		Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.		
33 42 11 00-0062	EA	4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	38.90	
33 42 11 00-0063	EA	4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	36.37	
33 42 11 00-0064	EA	6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	58.87	
33 42 11 00-0065	EA	6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	60.90	
33 42 11 00-0066	EA	6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	57.01	
33 42 11 00-0067	EA	8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	84.26	
33 42 11 00-0068	EA	8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	73.69	
33 42 11 00-0069	EA	10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	104.81	
33 42 11 00-0070	EA	10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	93.65	
33 42 11 00-0071	EA	12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	125.64	
33 42 11 00-0072	EA	12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	106.32	
33 42 11 00-0073	EA	15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	315.59	
33 42 11 00-0074		**Precast Concrete Cut Off Wall** *(33 42 11 00-0001)*		
33 42 11 00-0075	EA	12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	291.30	205.00
33 42 11 00-0076	EA	15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	359.38	253.92
33 42 11 00-0077	EA	18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	446.10	321.48
33 42 11 00-0078	EA	21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	528.16	384.38
33 42 11 00-0079	EA	24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	607.77	444.83
33 42 11 00-0080	EA	27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	750.52	568.42
33 42 11 00-0081	EA	30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	984.18	782.75
33 42 11 00-0082	EA	36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,227.67	987.75
33 42 11 00-0083	EA	42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,517.17	1,239.11
33 42 11 00-0084	EA	48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,698.66	1,396.60
33 42 11 00-0085	EA	54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,896.89	1,565.49
33 42 11 00-0086	EA	60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,098.06	1,739.04
33 42 11 00-0087	EA	66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,179.99	1,805.44
33 42 11 00-0088	EA	72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,252.04	1,863.68
33 42 11 00-0089	EA	78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,324.09	1,921.92
33 42 11 00-0090	EA	84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,397.86	1,980.16
33 42 11 00-0091		**Strap Assembly** *(33 42 11 00-0001)*		
		Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0092	EA	Up To 24" Diameter Pipe, 12' Strap Assembly	266.01	
33 42 11 00-0093	EA	>24" Diameter Pipe, 12' Strap Assembly	375.78	
33 42 11 00-0094		**Prestressed Concrete Cylinder Piping** *(33 42 11)*		
		Note: Includes detectable tracer wire.		
33 42 11 00-0095		**150 PSI Prestressed Concrete Cylinder Pipe And Fittings** *(33 42 11 00-0094)*		
33 42 11 00-0096		**150 PSI Prestressed Concrete Cylinder Pipe With Gaskets** *(33 42 11 00-0095)*		
		Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0097	LF	12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	160.27	18.20
		For >1,000, Deduct	*-8.01*	
		For 100 PSI, Deduct	*-33.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0098	LF	15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	170.96	20.25
		For >1,000, Deduct	*-8.55*	
		For 100 PSI, Deduct	*-35.51*	
33 42 11 00-0099	LF	18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	185.88	25.25
		For >1,000, Deduct	*-9.29*	
		For 100 PSI, Deduct	*-37.45*	
33 42 11 00-0100	LF	21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	203.10	31.85
		For >1,000, Deduct	*-10.16*	
		For 100 PSI, Deduct	*-39.40*	
33 42 11 00-0101	LF	24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	220.61	38.68
		For >1,000, Deduct	*-11.03*	
		For 100 PSI, Deduct	*-41.34*	
33 42 11 00-0102	LF	30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	259.22	51.25
		For >1,000, Deduct	*-12.96*	
		For 100 PSI, Deduct	*-46.29*	
33 42 11 00-0103	LF	36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	287.28	58.24
		For >1,000, Deduct	*-14.36*	
		For 100 PSI, Deduct	*-51.23*	
33 42 11 00-0104	LF	42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	333.71	64.06
		For >1,000, Deduct	*-16.69*	
		For 100 PSI, Deduct	*-60.77*	
33 42 11 00-0105	LF	48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	383.16	71.34
		For >1,000, Deduct	*-19.16*	
		For 100 PSI, Deduct	*-70.31*	
33 42 11 00-0106	LF	54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	508.46	92.76
		For >1,000, Deduct	*-25.42*	
		For 100 PSI, Deduct	*-93.99*	
33 42 11 00-0107	LF	60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	613.04	107.60
		For >1,000, Deduct	*-30.65*	
		For 100 PSI, Deduct	*-114.83*	
33 42 11 00-0108	LF	66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	689.01	119.26
		For >1,000, Deduct	*-34.45*	
		For 100 PSI, Deduct	*-129.85*	
33 42 11 00-0109	LF	72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	768.50	129.86
		For >1,000, Deduct	*-38.43*	
		For 100 PSI, Deduct	*-145.75*	
33 42 11 00-0110	LF	78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	872.96	145.77
		For >1,000, Deduct	*-43.65*	
		For 100 PSI, Deduct	*-166.07*	
33 42 11 00-0111	LF	84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	977.42	162.33
		For >1,000, Deduct	*-48.87*	
		For 100 PSI, Deduct	*-186.38*	
33 42 11 00-0112	LF	90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,207.97	189.49
		For >1,000, Deduct	*-60.40*	
		For 100 PSI, Deduct	*-234.08*	
33 42 11 00-0113	LF	96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,422.14	216.39
		For >1,000, Deduct	*-71.11*	
		For 100 PSI, Deduct	*-278.25*	
33 42 11 00-0114	LF	102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,655.38	231.27
		For >1,000, Deduct	*-82.77*	
		For 100 PSI, Deduct	*-331.25*	
33 42 11 00-0115	LF	108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,870.16	245.59
		For >1,000, Deduct	*-93.51*	
		For 100 PSI, Deduct	*-379.83*	
33 42 11 00-0116	LF	114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	2,261.62	259.91
		For >1,000, Deduct	*-113.08*	
		For 100 PSI, Deduct	*-472.58*	
33 42 11 00-0117	LF	120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	2,633.68	273.02
		For >1,000, Deduct	*-131.68*	
		For 100 PSI, Deduct	*-560.91*	
33 42 11 00-0118	LF	126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	2,871.48	286.14
		For >1,000, Deduct	*-143.57*	
		For 100 PSI, Deduct	*-615.68*	
33 42 11 00-0119	LF	132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	3,112.81	299.24
		For >1,000, Deduct	*-155.64*	
		For 100 PSI, Deduct	*-671.33*	
33 42 11 00-0120	LF	138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	3,352.36	312.36
		For >1,000, Deduct	*-167.62*	
		For 100 PSI, Deduct	*-726.54*	
33 42 11 00-0121	LF	144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	3,591.92	325.47
		For >1,000, Deduct	*-179.60*	
		For 100 PSI, Deduct	*-781.74*	

33 42 11 00-0122 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets *(33 42 11 00-0095)*

33 42 11 00-0123	EA	12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	521.47	170.63
33 42 11 00-0124	EA	15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	720.73	243.76
33 42 11 00-0125	EA	18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	925.64	325.02
33 42 11 00-0126	EA	21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,130.55	406.27
33 42 11 00-0127	EA	24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,371.19	504.86
33 42 11 00-0128	EA	30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,757.90	677.12
33 42 11 00-0129	EA	36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,195.72	815.36
33 42 11 00-0130	EA	42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,556.94	951.64
33 42 11 00-0131	EA	48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,877.42	1,086.76

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0132	EA	54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	3,538.12	1,356.99
33 42 11 00-0133	EA	60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	4,655.38	1,855.16
33 42 11 00-0134	EA	66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	5,188.08	2,053.93
33 42 11 00-0135	EA	72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	5,720.78	2,252.70
33 42 11 00-0136	EA	78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	6,913.31	2,583.97
33 42 11 00-0137	EA	84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	8,098.51	2,915.25
33 42 11 00-0138	EA	90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	9,597.94	3,312.79
33 42 11 00-0139	EA	96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	11,090.07	3,710.33
33 42 11 00-0140	EA	102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	14,704.42	4,649.57
33 42 11 00-0141	EA	108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	18,344.92	5,579.48
33 42 11 00-0142	EA	114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	23,823.27	7,439.30
33 42 11 00-0143	EA	120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	29,213.56	9,299.13
33 42 11 00-0144	EA	126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	33,012.67	10,029.78
33 42 11 00-0145	EA	132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	36,816.71	10,760.42
33 42 11 00-0146	EA	138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	48,289.05	11,491.07
33 42 11 00-0147	EA	144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	44,503.34	12,221.72
33 42 11 00-0148		**150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets** *(33 42 11 00-0095)*		
33 42 11 00-0149	EA	12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	485.43	170.63
33 42 11 00-0150	EA	15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	674.09	243.76
33 42 11 00-0151	EA	18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	870.52	325.02
33 42 11 00-0152	EA	21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,066.95	406.27
33 42 11 00-0153	EA	24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,299.11	504.86
33 42 11 00-0154	EA	30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,658.97	631.62
33 42 11 00-0155	EA	36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,082.65	815.36
33 42 11 00-0156	EA	42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,426.21	951.64
33 42 11 00-0157	EA	48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,736.79	1,086.76
33 42 11 00-0158	EA	54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	3,338.35	1,356.99
33 42 11 00-0159	EA	60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	4,465.04	1,855.16
33 42 11 00-0160	EA	66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	4,983.95	2,053.93
33 42 11 00-0161	EA	72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	5,502.86	2,252.70
33 42 11 00-0162	EA	78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	6,404.62	2,583.97
33 42 11 00-0163	EA	84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	7,299.06	2,915.25
33 42 11 00-0164	EA	90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	8,589.04	3,312.79
33 42 11 00-0165	EA	96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	9,871.72	3,710.33
33 42 11 00-0166	EA	102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	12,886.39	4,637.91
33 42 11 00-0167	EA	108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	15,973.86	5,579.48
33 42 11 00-0168	EA	114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	20,875.32	7,439.30
33 42 11 00-0169	EA	120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	25,688.74	9,299.13
33 42 11 00-0170	EA	126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	28,711.76	10,029.78
33 42 11 00-0171	EA	132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	31,739.72	12,221.72
33 42 11 00-0172	EA	138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	34,779.53	11,491.07
33 42 11 00-0173	EA	144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	38,178.52	12,221.72
33 42 11 00-0174		**400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints** *(33 42 11 00-0094)*		
33 42 11 00-0175		**400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints** *(33 42 11 00-0174)*		
		Note: AWWA C301		
33 42 11 00-0176	LF	30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	305.70	51.25
		For >1,000, Deduct	*-15.29*	
33 42 11 00-0177	LF	36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	373.10	58.24
		For >1,000, Deduct	*-18.66*	
33 42 11 00-0178	LF	42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	435.59	64.06
		For >1,000, Deduct	*-21.78*	
33 42 11 00-0179		**400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints** *(33 42 11 00-0174)*		
		Note: AWWA C301		
33 42 11 00-0180	LF	48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	587.81	71.28
		For >1,000, Deduct	*-29.39*	
33 42 11 00-0181	LF	54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	704.89	92.76
		For >1,000, Deduct	*-35.24*	
33 42 11 00-0182	LF	60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	812.55	107.60
		For >1,000, Deduct	*-40.63*	
33 42 11 00-0183	LF	66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	914.92	119.26
		For >1,000, Deduct	*-45.75*	
33 42 11 00-0184	LF	72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	1,108.98	129.86
		For >1,000, Deduct	*-55.45*	
33 42 11 00-0185		**Welded Joints For Prestressed Concrete Cylinder Pipe** *(33 42 11 00-0174)*		
		Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0186	EA	30" Welded Joint For Prestressed Concrete Cylinder Pipe	2,390.02	
33 42 11 00-0187	EA	36" Welded Joint For Prestressed Concrete Cylinder Pipe	2,567.06	
33 42 11 00-0188	EA	42" Welded Joint For Prestressed Concrete Cylinder Pipe	2,655.57	
33 42 11 00-0189	EA	48" Welded Joint For Prestressed Concrete Cylinder Pipe	3,009.65	
33 42 11 00-0190	EA	54" Welded Joint For Prestressed Concrete Cylinder Pipe	3,098.17	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0191	EA	60" Welded Joint For Prestressed Concrete Cylinder Pipe	3,275.21	
33 42 11 00-0192	EA	66" Welded Joint For Prestressed Concrete Cylinder Pipe	3,363.73	
33 42 11 00-0193	EA	72" Welded Joint For Prestressed Concrete Cylinder Pipe	3,452.25	
33 42 11 00-0194	EA	30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	4,425.96	
33 42 11 00-0195	EA	36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	4,425.96	
33 42 11 00-0196	EA	42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,045.59	
33 42 11 00-0197	EA	48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,045.59	
33 42 11 00-0198	EA	54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,399.67	
33 42 11 00-0199	EA	60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,399.67	
33 42 11 00-0200	EA	66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,842.26	
33 42 11 00-0201	EA	72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,842.26	

33 42 11 00-0202 Quick Test Joints *(33 42 11 00-0174)*

33 42 11 00-0203	EA	30" Quick Test Joint	654.27	
33 42 11 00-0204	EA	36" Quick Test Joint	660.09	
33 42 11 00-0205	EA	42" Quick Test Joint	665.91	
33 42 11 00-0206	EA	48" Quick Test Joint	679.46	
33 42 11 00-0207	EA	54" Quick Test Joint	711.61	
33 42 11 00-0208	EA	60" Quick Test Joint	737.73	
33 42 11 00-0209	EA	66" Quick Test Joint	776.72	
33 42 11 00-0210	EA	72" Quick Test Joint	815.71	

33 42 11 00-0211 Harnessed Joints *(33 42 11 00-0174)*

33 42 11 00-0212 Harness Clamp Restrained Joints *(33 42 11 00-0211)*

33 42 11 00-0213	EA	30" Harness Clamp Restrained Joint	13,130.84	
33 42 11 00-0214	EA	36" Harness Clamp Restrained Joint	13,638.11	
33 42 11 00-0215	EA	42" Harness Clamp Restrained Joint	14,145.37	
33 42 11 00-0216	EA	48" Harness Clamp Restrained Joint	14,652.64	
33 42 11 00-0217	EA	54" Harness Clamp Restrained Joint	15,175.96	
33 42 11 00-0218	EA	60" Harness Clamp Restrained Joint	15,941.38	
33 42 11 00-0219	EA	66" Harness Clamp Restrained Joint	16,456.08	
33 42 11 00-0220	EA	72" Harness Clamp Restrained Joint	17,622.66	

33 42 11 00-0221 Snap Ring Restrained Joints *(33 42 11 00-0211)*

33 42 11 00-0222	EA	30" Snap Ring Restrained Joint	2,098.98	
33 42 11 00-0223	EA	36" Snap Ring Restrained Joint	2,405.67	
33 42 11 00-0224	EA	42" Snap Ring Restrained Joint	3,263.95	
33 42 11 00-0225	EA	48" Snap Ring Restrained Joint	3,721.08	
33 42 11 00-0226	EA	54" Snap Ring Restrained Joint	4,194.25	
33 42 11 00-0227	EA	60" Snap Ring Restrained Joint	4,759.09	
33 42 11 00-0228	EA	66" Snap Ring Restrained Joint	5,273.79	
33 42 11 00-0229	EA	72" Snap Ring Restrained Joint	5,888.78	

33 42 11 00-0230 Pipe Repairs *(33 42 11 00-0174)*

Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.

33 42 11 00-0231 Lined Cylinder Pipe Repair *(33 42 11 00-0230)*

33 42 11 00-0232	EA	30" Lined Cylinder Pipe Repair	6,406.79	
33 42 11 00-0233	EA	36" Lined Cylinder Pipe Repair	7,929.83	
33 42 11 00-0234	EA	42" Lined Cylinder Pipe Repair	11,657.17	

33 42 11 00-0235 Embedded Cylinder Pipe Repair *(33 42 11 00-0230)*

Note: Field welded concrete enclosure assembly with concrete pipe.

33 42 11 00-0236	EA	48" Embedded Cylinder Pipe Repair	17,507.99	
33 42 11 00-0237	EA	54" Embedded Cylinder Pipe Repair	20,352.73	
33 42 11 00-0238	EA	60" Embedded Cylinder Pipe Repair	23,216.88	
33 42 11 00-0239	EA	66" Embedded Cylinder Pipe Repair	26,232.97	
33 42 11 00-0240	EA	72" Embedded Cylinder Pipe Repair	31,618.03	

33 42 11 00-0241 Tapping For Prestressed Concrete Cylinder Pipe *(33 42 11 00-0094)*

33 42 11 00-0242 Tapping Assembly For Prestressed Concrete Cylinder Pipe *(33 42 11 00-0241)*

Note: For use with lock-joint style pipe.

33 42 11 00-0243	EA	4" Tapping Assembly, 16" Diameter Prestressed Concrete Cylinder Pipe	3,285.19	
33 42 11 00-0244	EA	6" Tapping Assembly, 16" Diameter Prestressed Concrete Cylinder Pipe	3,381.22	
33 42 11 00-0245	EA	8" Tapping Assembly, 16" Diameter Prestressed Concrete Cylinder Pipe	3,854.31	
33 42 11 00-0246	EA	10" Tapping Assembly, 16" Diameter Prestressed Concrete Cylinder Pipe	4,356.00	
33 42 11 00-0247	EA	12" Tapping Assembly, 16" Diameter Prestressed Concrete Cylinder Pipe	4,688.43	
33 42 11 00-0248	EA	4" Tapping Assembly, 20" Diameter Prestressed Concrete Cylinder Pipe	3,354.57	
33 42 11 00-0249	EA	6" Tapping Assembly, 20" Diameter Prestressed Concrete Cylinder Pipe	3,692.34	
33 42 11 00-0250	EA	8" Tapping Assembly, 20" Diameter Prestressed Concrete Cylinder Pipe	3,855.34	
33 42 11 00-0251	EA	10" Tapping Assembly, 20" Diameter Prestressed Concrete Cylinder Pipe	4,516.70	
33 42 11 00-0252	EA	12" Tapping Assembly, 20" Diameter Prestressed Concrete Cylinder Pipe	5,746.22	
33 42 11 00-0253	EA	4" Tapping Assembly, 24" Diameter Prestressed Concrete Cylinder Pipe	3,393.78	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0254	EA	6" Tapping Assembly, 24" Diameter Prestressed Concrete Cylinder Pipe	3,612.60	
33 42 11 00-0255	EA	8" Tapping Assembly, 24" Diameter Prestressed Concrete Cylinder Pipe	4,128.88	
33 42 11 00-0256	EA	10" Tapping Assembly, 24" Diameter Prestressed Concrete Cylinder Pipe	5,220.73	
33 42 11 00-0257	EA	12" Tapping Assembly, 24" Diameter Prestressed Concrete Cylinder Pipe	5,188.72	
33 42 11 00-0258	EA	6" Tapping Assembly, 30" Diameter Prestressed Concrete Cylinder Pipe	31,357.41	
33 42 11 00-0259	EA	8" Tapping Assembly, 30" Diameter Prestressed Concrete Cylinder Pipe	4,481.25	

33 42 11 00-0260 Tapping Assembly And Gland Insert For Prestressed Concrete Cylinder Pipe *(33 42 11 00-0241)*

Note: For use with lock-joint style pipe.

33 42 11 00-0261	EA	3/4" Tap Assembly And Gland Insert For 16" Diameter Prestressed Concrete Cylinder Pipe	796.27	
33 42 11 00-0262	EA	1" Tap Assembly And Gland Insert For 16" Diameter Prestressed Concrete Cylinder Pipe	833.24	
33 42 11 00-0263	EA	1-1/4" Tap Assembly And Gland Insert For 16" Diameter Prestressed Concrete Cylinder Pipe	915.09	
33 42 11 00-0264	EA	1-1/2" Tap Assembly And Gland Insert For 16" Diameter Prestressed Concrete Cylinder Pipe	844.65	
33 42 11 00-0265	EA	2" Tap Assembly And Gland Insert For 16" Diameter Prestressed Concrete Cylinder Pipe	844.81	
33 42 11 00-0266	EA	3/4" Tap Assembly And Gland Insert For 20" Diameter Prestressed Concrete Cylinder Pipe	847.91	
33 42 11 00-0267	EA	1" Tap Assembly And Gland Insert For 20" Diameter Prestressed Concrete Cylinder Pipe	923.31	
33 42 11 00-0268	EA	1-1/2" Tap Assembly And Gland Insert For 20" Diameter Prestressed Concrete Cylinder Pipe	883.95	
33 42 11 00-0269	EA	2" Tap Assembly And Gland Insert For 20" Diameter Prestressed Concrete Cylinder Pipe	883.95	
33 42 11 00-0270	EA	1" Tap Assembly And Gland Insert For 24" Diameter Prestressed Concrete Cylinder Pipe	966.27	
33 42 11 00-0271	EA	1-1/4" Tap Assembly And Gland Insert For 24" Diameter Prestressed Concrete Cylinder Pipe	987.53	
33 42 11 00-0272	EA	1-1/2" Tap Assembly And Gland Insert For 24" Diameter Prestressed Concrete Cylinder Pipe	994.94	
33 42 11 00-0273	EA	2" Tap Assembly And Gland Insert For 24" Diameter Prestressed Concrete Cylinder Pipe	1,003.42	

33 42 11 00-0274 High-Density Polyethylene (HDPE) Drainage Piping *(33 42 11)*

Note: Includes detectable tracer wire.

33 42 11 00-0275 Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping *(33 42 11 00-0274)*

Note: Excludes couplings and gaskets.

33 42 11 00-0276 Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping *(33 42 11 00-0275)*

33 42 11 00-0277	LF	4" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	16.80	7.55
		For <100, Add	*3.02*	
		For >1,000, Deduct	*-1.60*	
33 42 11 00-0278	LF	6" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	21.87	8.78
		For <100, Add	*3.51*	
		For >1,000, Deduct	*-1.97*	
33 42 11 00-0279	LF	8" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	26.87	10.21
		For <100, Add	*4.08*	
		For >1,000, Deduct	*-2.36*	
33 42 11 00-0280	LF	10" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	30.45	10.56
		For <100, Add	*4.22*	
		For >1,000, Deduct	*-2.58*	
33 42 11 00-0281	LF	12" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	32.02	10.94
		For <100, Add	*4.38*	
		For >1,000, Deduct	*-2.70*	
33 42 11 00-0282	LF	15" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	36.25	11.32
		For <100, Add	*4.53*	
		For >1,000, Deduct	*-2.95*	
33 42 11 00-0283	LF	18" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	43.75	11.73
		For <100, Add	*4.69*	
		For >1,000, Deduct	*-3.36*	
33 42 11 00-0284	LF	24" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	59.79	13.74
		For <100, Add	*5.50*	
		For >1,000, Deduct	*-4.36*	
33 42 11 00-0285	LF	30" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	84.72	18.51
		For <100, Add	*7.40*	
		For >1,000, Deduct	*-6.09*	
33 42 11 00-0286	LF	36" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	111.28	23.39
		For <100, Add	*9.36*	
		For >1,000, Deduct	*-7.90*	

33 42 11 00-0287 Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping *(33 42 11 00-0275)*

33 42 11 00-0288	LF	12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	31.84	10.94
		For <100, Add	*4.38*	
		For >1,000, Deduct	*-2.69*	
33 42 11 00-0289	LF	15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	36.96	11.32
		For <100, Add	*4.53*	
		For >1,000, Deduct	*-2.98*	
33 42 11 00-0290	LF	18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	44.82	11.73
		For <100, Add	*4.69*	
		For >1,000, Deduct	*-3.41*	
33 42 11 00-0291	LF	24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	61.49	13.74
		For <100, Add	*5.50*	
		For >1,000, Deduct	*-4.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0292	LF	30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	89.37	18.51
		For <100, Add	*7.40*	
		For >1,000, Deduct	*-6.32*	
33 42 11 00-0293	LF	36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	114.74	23.39
		For <100, Add	*9.36*	
		For >1,000, Deduct	*-8.08*	
33 42 11 00-0294	LF	42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	149.13	25.52
		For <100, Add	*10.21*	
		For >1,000, Deduct	*-10.01*	
33 42 11 00-0295	LF	48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	162.71	28.79
		For <100, Add	*11.51*	
		For >1,000, Deduct	*-11.01*	

33 42 11 00-0296 Perforated, Corrugated High-Density Polyethylene (HDPE) Piping *(33 42 11 00-0274)*

Note: Excludes couplings and gaskets.

33 42 11 00-0297 Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping *(33 42 11 00-0296)*

33 42 11 00-0298	LF	4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	17.69	7.55
		For <100, Add	*3.02*	
		For >1,000, Deduct	*-1.64*	
33 42 11 00-0299	LF	6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	21.90	8.78
		For <100, Add	*3.51*	
		For >1,000, Deduct	*-1.97*	
33 42 11 00-0300	LF	8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	26.87	10.21
		For <100, Add	*4.08*	
		For >1,000, Deduct	*-2.36*	
33 42 11 00-0301	LF	10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	30.48	10.56
		For <100, Add	*4.22*	
		For >1,000, Deduct	*-2.58*	
33 42 11 00-0302	LF	12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	32.02	10.94
		For <100, Add	*4.38*	
		For >1,000, Deduct	*-2.70*	
33 42 11 00-0303	LF	15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	36.28	11.32
		For <100, Add	*4.53*	
		For >1,000, Deduct	*-2.95*	
33 42 11 00-0304	LF	18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	43.78	11.73
		For <100, Add	*4.69*	
		For >1,000, Deduct	*-3.36*	
33 42 11 00-0305	LF	24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	59.79	13.74
		For <100, Add	*5.50*	
		For >1,000, Deduct	*-4.36*	
33 42 11 00-0306	LF	30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	85.02	18.51
		For <100, Add	*7.40*	
		For >1,000, Deduct	*-6.10*	
33 42 11 00-0307	LF	36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	111.28	23.39
		For <100, Add	*9.36*	
		For >1,000, Deduct	*-7.90*	

33 42 11 00-0308 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping *(33 42 11 00-0296)*

33 42 11 00-0309	LF	12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	31.87	10.94
		For <100, Add	*4.38*	
		For >1,000, Deduct	*-2.69*	
33 42 11 00-0310	LF	15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	36.99	11.32
		For <100, Add	*4.53*	
		For >1,000, Deduct	*-2.98*	
33 42 11 00-0311	LF	18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	44.85	11.73
		For <100, Add	*4.69*	
		For >1,000, Deduct	*-3.42*	
33 42 11 00-0312	LF	24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	61.49	13.74
		For <100, Add	*5.50*	
		For >1,000, Deduct	*-4.45*	
33 42 11 00-0313	LF	30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	89.37	18.51
		For <100, Add	*7.40*	
		For >1,000, Deduct	*-6.32*	
33 42 11 00-0314	LF	36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	114.74	23.39
		For <100, Add	*9.36*	
		For >1,000, Deduct	*-8.08*	
33 42 11 00-0315	LF	42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	149.13	25.52
		For <100, Add	*10.21*	
		For >1,000, Deduct	*-10.01*	
33 42 11 00-0316	LF	48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	162.71	28.79
		For <100, Add	*11.51*	
		For >1,000, Deduct	*-11.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0317		Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings *(33 42 11 00-0274)* Note: Excludes couplings and gaskets.		
33 42 11 00-0318		Tees, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) *(33 42 11 00-0317)*		
33 42 11 00-0319	EA	4" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	49.11	26.09
33 42 11 00-0320	EA	6" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	59.34	30.43
33 42 11 00-0321	EA	8" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	83.42	36.96
33 42 11 00-0322	EA	10" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	116.35	45.66
33 42 11 00-0323	EA	12" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	165.61	54.36
33 42 11 00-0324	EA	15" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	227.94	71.02
33 42 11 00-0325	EA	18" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	321.23	95.65
33 42 11 00-0326	EA	24" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	397.58	109.19
33 42 11 00-0327	EA	30" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	629.80	126.10
33 42 11 00-0328	EA	36" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	792.31	145.66
33 42 11 00-0329	EA	42" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	1,249.33	173.92
33 42 11 00-0330	EA	48" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	1,556.15	206.54
33 42 11 00-0331		Wyes, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) *(33 42 11 00-0317)*		
33 42 11 00-0332	EA	4" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	59.64	26.09
33 42 11 00-0333	EA	6" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	70.89	30.43
33 42 11 00-0334	EA	8" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	90.71	36.96
33 42 11 00-0335	EA	10" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	124.38	45.66
33 42 11 00-0336	EA	12" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	191.46	54.36
33 42 11 00-0337	EA	15" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	220.01	71.02
33 42 11 00-0338	EA	18" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	305.80	95.65
33 42 11 00-0339		22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) *(33 42 11 00-0317)*		
33 42 11 00-0340	EA	4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	31.42	17.40
33 42 11 00-0341	EA	6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	37.58	20.29
33 42 11 00-0342	EA	8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	49.78	24.64
33 42 11 00-0343	EA	10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	62.07	30.43
33 42 11 00-0344	EA	12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	81.97	36.24
33 42 11 00-0345	EA	15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	118.43	46.38
33 42 11 00-0346	EA	18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	159.30	63.78
33 42 11 00-0347	EA	24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	252.85	72.46
33 42 11 00-0348	EA	30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	334.38	84.06
33 42 11 00-0349	EA	36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	390.42	97.11
33 42 11 00-0350	EA	42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	490.64	115.95
33 42 11 00-0351	EA	48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	643.87	137.68
33 42 11 00-0352		45 Degree Bends, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) *(33 42 11 00-0317)*		
33 42 11 00-0353	EA	4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	32.57	17.40
33 42 11 00-0354	EA	6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	39.98	20.29
33 42 11 00-0355	EA	8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	51.00	24.64
33 42 11 00-0356	EA	10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	72.03	30.43
33 42 11 00-0357	EA	12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	81.97	36.24
33 42 11 00-0358	EA	15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	118.23	46.38
33 42 11 00-0359	EA	18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	175.37	63.78
33 42 11 00-0360	EA	24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	265.26	72.46
33 42 11 00-0361	EA	30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	334.97	84.06
33 42 11 00-0362	EA	36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	417.16	97.11
33 42 11 00-0363	EA	42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	593.87	115.95
33 42 11 00-0364	EA	48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	736.39	137.68
33 42 11 00-0365		Couplings And End Caps, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings *(33 42 11 00-0274)* Note: For single and double wall high-density polyethylene (HDPE) piping.		
33 42 11 00-0366		Couplings, Corrugated High-Density Polyethylene (HDPE) Pipe *(33 42 11 00-0365)*		
33 42 11 00-0367	EA	4" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	0.69	
33 42 11 00-0368	EA	6" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	1.23	
33 42 11 00-0369	EA	8" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	1.90	
33 42 11 00-0370	EA	10" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	2.33	
33 42 11 00-0371	EA	12" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	2.51	
33 42 11 00-0372	EA	15" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	3.57	
33 42 11 00-0373	EA	18" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	5.28	
33 42 11 00-0374	EA	24" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	8.41	
33 42 11 00-0375	EA	30" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	12.91	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0376	EA	36" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	16.90	
33 42 11 00-0377	EA	42" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	26.56	
33 42 11 00-0378	EA	48" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	35.92	
33 42 11 00-0379		Self-Adhering Gaskets, Corrugated High-Density Polyethylene (HDPE) Pipe *(33 42 11 00-0365)*		
33 42 11 00-0380	EA	4" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	36.37	
33 42 11 00-0381	EA	6" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	38.09	
33 42 11 00-0382	EA	8" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	39.88	
33 42 11 00-0383	EA	10" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	41.75	
33 42 11 00-0384	EA	12" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	49.52	
33 42 11 00-0385	EA	15" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	51.13	
33 42 11 00-0386	EA	18" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	53.33	
33 42 11 00-0387	EA	24" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	60.74	
33 42 11 00-0388	EA	30" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	97.37	
33 42 11 00-0389	EA	36" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	106.66	
33 42 11 00-0390	EA	42" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	116.21	
33 42 11 00-0391	EA	48" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	141.14	
33 42 11 00-0392		End Caps, Corrugated High-Density Polyethylene (HDPE) Pipe *(33 42 11 00-0365)*		
33 42 11 00-0393	EA	6" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	36.26	
33 42 11 00-0394	EA	8" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	42.48	
33 42 11 00-0395	EA	10" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	68.31	
33 42 11 00-0396	EA	12" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	115.57	
33 42 11 00-0397	EA	15" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	134.38	
33 42 11 00-0398	EA	18" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	181.34	
33 42 11 00-0399	EA	24" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	188.05	
33 42 11 00-0400		Vitrified Clay Piping *(33 42 11)*		
33 42 11 00-0401		Extra Strength Vitrified Clay Piping *(33 42 11 00-0400)*		
33 42 11 00-0402		Plain Joint, Extra Strength, Vitrified Clay Piping *(33 42 11 00-0401)* Note: ASTM C700.		
33 42 11 00-0403	LF	4" Plain Joint, Extra Strength, Vitrified Clay Pipe	24.07	
		For 3' Lengths, Add	*2.21*	
		For 2' Lengths, Add	*2.94*	
		For Standard Strength, Deduct	*-0.74*	
		For >1,000, Deduct	*-1.20*	
33 42 11 00-0404	LF	6" Plain Joint, Extra Strength, Vitrified Clay Pipe	39.93	
		For 3' Lengths, Add	*3.43*	
		For 2' Lengths, Add	*4.58*	
		For Standard Strength, Deduct	*-1.14*	
		For >1,000, Deduct	*-2.00*	
33 42 11 00-0405	LF	8" Plain Joint, Extra Strength, Vitrified Clay Pipe	48.01	
		For 3' Lengths, Add	*4.91*	
		For 2' Lengths, Add	*6.54*	
		For Standard Strength, Deduct	*-1.64*	
		For >1,000, Deduct	*-2.40*	
33 42 11 00-0406	LF	10" Plain Joint, Extra Strength, Vitrified Clay Pipe	57.94	
		For 3' Lengths, Add	*7.51*	
		For 2' Lengths, Add	*10.01*	
		For Standard Strength, Deduct	*-2.50*	
		For >1,000, Deduct	*-2.90*	
33 42 11 00-0407	LF	12" Plain Joint, Extra Strength, Vitrified Clay Pipe	71.24	
		For 3' Lengths, Add	*10.60*	
		For 2' Lengths, Add	*14.14*	
		For Standard Strength, Deduct	*-3.53*	
		For >1,000, Deduct	*-3.56*	
33 42 11 00-0408	LF	15" Plain Joint, Extra Strength, Vitrified Clay Pipe	106.21	
		For 3' Lengths, Add	*19.88*	
		For 2' Lengths, Add	*26.51*	
		For Standard Strength, Deduct	*-6.63*	
		For >1,000, Deduct	*-5.31*	
33 42 11 00-0409	LF	18" Plain Joint, Extra Strength, Vitrified Clay Pipe	144.79	
		For 3' Lengths, Add	*28.49*	
		For 2' Lengths, Add	*37.99*	
		For Standard Strength, Deduct	*-9.50*	
		For >1,000, Deduct	*-7.24*	
33 42 11 00-0410	LF	21" Plain Joint, Extra Strength, Vitrified Clay Pipe	214.98	
		For 3' Lengths, Add	*45.65*	
		For 2' Lengths, Add	*60.86*	
		For Standard Strength, Deduct	*-15.22*	
		For >1,000, Deduct	*-10.75*	
33 42 11 00-0411	LF	24" Plain Joint, Extra Strength, Vitrified Clay Pipe	275.08	
		For 3' Lengths, Add	*59.64*	
		For 2' Lengths, Add	*79.52*	
		For Standard Strength, Deduct	*-19.88*	
		For >1,000, Deduct	*-13.75*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0412	LF	30" Plain Joint, Extra Strength, Vitrified Clay Pipe	340.51	
		For 3' Lengths, Add	*74.36*	
		For 2' Lengths, Add	*99.15*	
		For Standard Strength, Deduct	*-24.79*	
		For >1,000, Deduct	*-17.03*	
33 42 11 00-0413	LF	36" Plain Joint, Extra Strength, Vitrified Clay Pipe	411.89	
		For 3' Lengths, Add	*89.83*	
		For 2' Lengths, Add	*119.77*	
		For Standard Strength, Deduct	*-29.94*	
		For >1,000, Deduct	*-20.59*	

33 42 11 00-0414 Compression Joint, Extra Strength, Vitrified Clay Piping *(33 42 11 00-0401)*

Note: ASTM C425.

33 42 11 00-0415	LF	4" Compression Joint, Extra Strength, Vitrified Clay Pipe	34.01	
		For 3' Lengths, Add	*2.61*	
		For 2' Lengths, Add	*3.48*	
		For Standard Strength, Deduct	*-0.87*	
		For >1,000, Deduct	*-1.70*	
33 42 11 00-0416	LF	6" Compression Joint, Extra Strength, Vitrified Clay Pipe	42.68	
		For 3' Lengths, Add	*4.26*	
		For 2' Lengths, Add	*5.68*	
		For Standard Strength, Deduct	*-1.42*	
		For >1,000, Deduct	*-2.13*	
33 42 11 00-0417	LF	8" Compression Joint, Extra Strength, Vitrified Clay Pipe	51.69	
		For 3' Lengths, Add	*6.01*	
		For 2' Lengths, Add	*8.01*	
		For Standard Strength, Deduct	*-2.00*	
		For >1,000, Deduct	*-2.58*	
33 42 11 00-0418	LF	10" Compression Joint, Extra Strength, Vitrified Clay Pipe	65.80	
		For 3' Lengths, Add	*9.87*	
		For 2' Lengths, Add	*13.16*	
		For Standard Strength, Deduct	*-3.29*	
		For >1,000, Deduct	*-3.29*	
33 42 11 00-0419	LF	12" Compression Joint, Extra Strength, Vitrified Clay Pipe	79.10	
		For 3' Lengths, Add	*12.96*	
		For 2' Lengths, Add	*17.28*	
		For Standard Strength, Deduct	*-4.32*	
		For >1,000, Deduct	*-3.96*	
33 42 11 00-0420	LF	15" Compression Joint, Extra Strength, Vitrified Clay Pipe	118.72	
		For 3' Lengths, Add	*23.63*	
		For 2' Lengths, Add	*31.51*	
		For Standard Strength, Deduct	*-7.88*	
		For >1,000, Deduct	*-5.94*	
33 42 11 00-0421	LF	18" Compression Joint, Extra Strength, Vitrified Clay Pipe	165.16	
		For 3' Lengths, Add	*34.61*	
		For 2' Lengths, Add	*46.14*	
		For Standard Strength, Deduct	*-11.54*	
		For >1,000, Deduct	*-8.26*	
33 42 11 00-0422	LF	21" Compression Joint, Extra Strength, Vitrified Clay Pipe	238.30	
		For 3' Lengths, Add	*52.64*	
		For 2' Lengths, Add	*70.19*	
		For Standard Strength, Deduct	*-17.55*	
		For >1,000, Deduct	*-11.92*	
33 42 11 00-0423	LF	24" Compression Joint, Extra Strength, Vitrified Clay Pipe	311.89	
		For 3' Lengths, Add	*70.68*	
		For 2' Lengths, Add	*94.24*	
		For Standard Strength, Deduct	*-23.56*	
		For >1,000, Deduct	*-15.59*	
33 42 11 00-0424	LF	30" Compression Joint, Extra Strength, Vitrified Clay Pipe	502.49	
		For 3' Lengths, Add	*122.96*	
		For 2' Lengths, Add	*163.94*	
		For Standard Strength, Deduct	*-40.99*	
		For >1,000, Deduct	*-25.12*	
33 42 11 00-0425	LF	36" Compression Joint, Extra Strength, Vitrified Clay Pipe	716.22	
		For 3' Lengths, Add	*181.13*	
		For 2' Lengths, Add	*241.50*	
		For Standard Strength, Deduct	*-60.38*	
		For >1,000, Deduct	*-35.81*	

33 42 11 00-0426 Extra Strength, Vitrified Clay Pipe Fittings *(33 42 11 00-0400)*

33 42 11 00-0427 1/8 Bends, Extra Strength, Vitrified Clay *(33 42 11 00-0426)*

33 42 11 00-0428 Plain End 1/8 Bend, Extra Strength, Vitrified Clay *(33 42 11 00-0427)*

33 42 11 00-0429	EA	4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	102.68	
33 42 11 00-0430	EA	6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	139.40	
33 42 11 00-0431	EA	8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	200.76	
33 42 11 00-0432	EA	10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	277.71	
33 42 11 00-0433	EA	12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	368.42	
33 42 11 00-0434	EA	15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	891.02	
33 42 11 00-0435	EA	18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	1,258.32	
33 42 11 00-0436	EA	21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	1,966.93	
33 42 11 00-0437	EA	24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	2,269.20	
33 42 11 00-0438	EA	30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	2,633.48	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0439	EA	36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	3,959.73	
33 42 11 00-0440		**Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay** *(33 42 11 00-0427)*		
33 42 11 00-0441	EA	4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	115.75	
33 42 11 00-0442	EA	6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	165.86	
33 42 11 00-0443	EA	8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	226.00	
33 42 11 00-0444	EA	10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	304.72	
33 42 11 00-0445	EA	12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	388.10	
33 42 11 00-0446	EA	15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	998.79	
33 42 11 00-0447	EA	18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	1,455.45	
33 42 11 00-0448	EA	21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	1,492.92	
33 42 11 00-0449	EA	24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	2,907.48	
33 42 11 00-0450	EA	30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	3,235.09	
33 42 11 00-0451	EA	36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	4,814.57	
33 42 11 00-0452		**1/4 Bends, Extra Strength, Vitrified Clay** *(33 42 11 00-0426)*		
33 42 11 00-0453		**Plain End 1/4 Bends, Extra Strength, Vitrified Clay** *(33 42 11 00-0452)*		
33 42 11 00-0454	EA	4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	119.40	
33 42 11 00-0455	EA	6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	159.52	
33 42 11 00-0456	EA	8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	224.30	
33 42 11 00-0457	EA	10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	303.19	
33 42 11 00-0458	EA	12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	397.14	
33 42 11 00-0459	EA	15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	922.98	
33 42 11 00-0460	EA	18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,298.16	
33 42 11 00-0461	EA	21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,017.18	
33 42 11 00-0462	EA	24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,330.22	
33 42 11 00-0463	EA	30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,709.59	
33 42 11 00-0464	EA	36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	4,044.34	
33 42 11 00-0465		**Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay** *(33 42 11 00-0452)*		
33 42 11 00-0466	EA	4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	135.80	
33 42 11 00-0467	EA	6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	190.02	
33 42 11 00-0468	EA	8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	254.26	
33 42 11 00-0469	EA	10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	335.30	
33 42 11 00-0470	EA	12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	422.56	
33 42 11 00-0471	EA	15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,037.13	
33 42 11 00-0472	EA	18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,503.27	
33 42 11 00-0473	EA	21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,929.02	
33 42 11 00-0474	EA	24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,980.71	
33 42 11 00-0475	EA	30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	3,326.41	
33 42 11 00-0476	EA	36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	4,916.09	
33 42 11 00-0477		**Wyes Or Tees, Extra Strength, Vitrified Clay** *(33 42 11 00-0426)*		
33 42 11 00-0478		**Plain End Wyes Or Tees, Extra Strength, Vitrified Clay** *(33 42 11 00-0477)*		
33 42 11 00-0479	EA	4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	130.28	
33 42 11 00-0480	EA	6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	170.83	
33 42 11 00-0481	EA	8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	233.92	
33 42 11 00-0482	EA	10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	311.36	
33 42 11 00-0483	EA	12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	395.28	
33 42 11 00-0484	EA	15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	929.35	
33 42 11 00-0485	EA	18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,302.82	
33 42 11 00-0486	EA	21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,885.82	
33 42 11 00-0487	EA	24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,628.47	
33 42 11 00-0488	EA	30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,776.45	
33 42 11 00-0489	EA	36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	4,004.81	
33 42 11 00-0490		**Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay** *(33 42 11 00-0477)*		
33 42 11 00-0491	EA	4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	159.33	
33 42 11 00-0492	EA	6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	220.02	
33 42 11 00-0493	EA	8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	291.35	
33 42 11 00-0494	EA	10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	379.20	
33 42 11 00-0495	EA	12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	474.82	
33 42 11 00-0496	EA	15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,130.71	
33 42 11 00-0497	EA	18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,633.08	
33 42 11 00-0498	EA	21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,429.52	
33 42 11 00-0499	EA	24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	3,221.93	
33 42 11 00-0500	EA	30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	3,723.81	
33 42 11 00-0501	EA	36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee	5,299.48	
33 42 11 00-0502		**Vitrified Clay Couplings** *(33 42 11 00-0400)*		
33 42 11 00-0503		**Vitrified Clay To Cast Iron Or Plastic Pipe Couplings** *(33 42 11 00-0502)*		
		Note: Stainless steel tightening band at each end (Fernco #1002)		

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0504	EA	4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	36.68	
33 42 11 00-0505	EA	4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	36.37	
33 42 11 00-0506	EA	5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	48.75	
33 42 11 00-0507	EA	5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	46.27	
33 42 11 00-0508	EA	6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	58.87	
33 42 11 00-0509	EA	6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	61.03	
33 42 11 00-0510	EA	6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	56.26	
33 42 11 00-0511	EA	8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	79.14	
33 42 11 00-0512	EA	8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	73.69	
33 42 11 00-0513	EA	10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	102.07	
33 42 11 00-0514	EA	10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	93.65	
33 42 11 00-0515	EA	12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	125.64	
33 42 11 00-0516	EA	12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	106.32	
33 42 11 00-0517	EA	15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	207.80	
33 42 11 00-0518	EA	15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	161.75	
33 42 11 00-0519		Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings *(33 42 11 00-0502)*		
		Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0520	EA	4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	78.40	
33 42 11 00-0521	EA	6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	104.41	
33 42 11 00-0522	EA	6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	110.41	
33 42 11 00-0523	EA	8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	115.75	
33 42 11 00-0524	EA	10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	142.90	
33 42 11 00-0525	EA	12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	165.81	
33 42 11 00-0526		Vitrified Clay To Plastic Pipe Non-Shear Couplings *(33 42 11 00-0502)*		
		Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0527	EA	4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	80.41	
33 42 11 00-0528	EA	6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	106.42	
33 42 11 00-0529	EA	6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling	97.48	
33 42 11 00-0530	EA	8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling	127.77	
33 42 11 00-0531	EA	10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling	185.00	
33 42 11 00-0532	EA	12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling	209.04	
33 42 11 00-0533		Corrugated Metal Piping *(33 42 11)*		
33 42 11 00-0534		Galvanized Corrugated Steel Piping *(33 42 11 00-0533)*		
33 42 11 00-0535		2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0534)*		
33 42 11 00-0536		16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0535)*		
33 42 11 00-0537	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	44.55	11.38
		For Bituminous Coated Pipe, Add	*5.06*	
		For Bituminous Coated And 25% Paved, Add	*10.35*	
		For Smooth-Flo, Add	*18.48*	
33 42 11 00-0538	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	50.79	11.92
		For Bituminous Coated Pipe, Add	*6.37*	
		For Bituminous Coated And 25% Paved, Add	*13.03*	
		For Smooth-Flo, Add	*23.27*	
33 42 11 00-0539	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	57.25	13.00
		For Bituminous Coated Pipe, Add	*7.71*	
		For Bituminous Coated And 25% Paved, Add	*15.78*	
		For Smooth-Flo, Add	*28.18*	
33 42 11 00-0540	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	65.50	14.09
		For Bituminous Coated Pipe, Add	*9.23*	
		For Bituminous Coated And 25% Paved, Add	*18.87*	
		For Smooth-Flo, Add	*33.71*	
33 42 11 00-0541	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	72.62	15.17
		For Bituminous Coated Pipe, Add	*10.38*	
		For Bituminous Coated And 25% Paved, Add	*21.24*	
		For Smooth-Flo, Add	*37.93*	
33 42 11 00-0542	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	95.68	19.50
		For Bituminous Coated Pipe, Add	*13.47*	
		For Bituminous Coated And 25% Paved, Add	*27.56*	
		For Smooth-Flo, Add	*49.22*	
33 42 11 00-0543	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	124.59	25.63
		For Bituminous Coated Pipe, Add	*17.00*	
		For Bituminous Coated And 25% Paved, Add	*34.76*	
		For Smooth-Flo, Add	*62.08*	
33 42 11 00-0544	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	142.40	30.29
		For Bituminous Coated Pipe, Add	*20.11*	
		For Bituminous Coated And 25% Paved, Add	*41.13*	
		For Smooth-Flo, Add	*73.46*	
33 42 11 00-0545	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	159.98	34.94
		For Bituminous Coated Pipe, Add	*22.53*	
		For Bituminous Coated And 25% Paved, Add	*46.07*	
		For Smooth-Flo, Add	*82.28*	
33 42 11 00-0546		14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0535)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0547	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	49.06	11.38
		For Bituminous Coated Pipe, Add	*5.13*	
		For Bituminous Coated And 25% Paved, Add	*11.90*	
		For Smooth-Flo, Add	*24.05*	
33 42 11 00-0548	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	56.35	11.92
		For Bituminous Coated Pipe, Add	*6.44*	
		For Bituminous Coated And 25% Paved, Add	*14.92*	
		For Smooth-Flo, Add	*30.16*	
33 42 11 00-0549	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	63.98	13.00
		For Bituminous Coated Pipe, Add	*7.80*	
		For Bituminous Coated And 25% Paved, Add	*18.07*	
		For Smooth-Flo, Add	*36.53*	
33 42 11 00-0550	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	73.28	14.09
		For Bituminous Coated Pipe, Add	*9.27*	
		For Bituminous Coated And 25% Paved, Add	*21.49*	
		For Smooth-Flo, Add	*43.43*	
33 42 11 00-0551	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	81.66	15.17
		For Bituminous Coated Pipe, Add	*10.49*	
		For Bituminous Coated And 25% Paved, Add	*24.31*	
		For Smooth-Flo, Add	*49.14*	
33 42 11 00-0552	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	106.71	19.50
		For Bituminous Coated Pipe, Add	*13.48*	
		For Bituminous Coated And 25% Paved, Add	*31.22*	
		For Smooth-Flo, Add	*63.11*	
33 42 11 00-0553	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	137.98	25.63
		For Bituminous Coated Pipe, Add	*16.89*	
		For Bituminous Coated And 25% Paved, Add	*39.13*	
		For Smooth-Flo, Add	*79.10*	
33 42 11 00-0554	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	157.73	30.29
		For Bituminous Coated Pipe, Add	*19.88*	
		For Bituminous Coated And 25% Paved, Add	*46.07*	
		For Smooth-Flo, Add	*93.11*	
33 42 11 00-0555	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	177.52	34.94
		For Bituminous Coated Pipe, Add	*22.35*	
		For Bituminous Coated And 25% Paved, Add	*51.77*	
		For Smooth-Flo, Add	*104.65*	
33 42 11 00-0556	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	212.77	39.60
		For Bituminous Coated Pipe, Add	*27.48*	
		For Bituminous Coated And 25% Paved, Add	*63.67*	
		For Smooth-Flo, Add	*128.69*	

33 42 11 00-0557 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0535)*

33 42 11 00-0558	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	77.90	13.00
		For Bituminous Coated Pipe, Add	*8.93*	
		For Bituminous Coated And 25% Paved, Add	*16.13*	
		For Smooth-Flo, Add	*30.99*	
33 42 11 00-0559	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	89.46	14.09
		For Bituminous Coated Pipe, Add	*10.56*	
		For Bituminous Coated And 25% Paved, Add	*19.06*	
		For Smooth-Flo, Add	*36.63*	
33 42 11 00-0560	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	100.09	14.09
		For Bituminous Coated Pipe, Add	*11.96*	
		For Bituminous Coated And 25% Paved, Add	*21.61*	
		For Smooth-Flo, Add	*41.52*	
33 42 11 00-0561	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	129.50	19.50
		For Bituminous Coated Pipe, Add	*15.22*	
		For Bituminous Coated And 25% Paved, Add	*27.48*	
		For Smooth-Flo, Add	*52.81*	
33 42 11 00-0562	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	165.03	25.63
		For Bituminous Coated Pipe, Add	*18.81*	
		For Bituminous Coated And 25% Paved, Add	*33.98*	
		For Smooth-Flo, Add	*65.30*	
33 42 11 00-0563	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	188.99	30.29
		For Bituminous Coated Pipe, Add	*22.05*	
		For Bituminous Coated And 25% Paved, Add	*39.81*	
		For Smooth-Flo, Add	*76.52*	
33 42 11 00-0564	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	213.34	34.94
		For Bituminous Coated Pipe, Add	*24.89*	
		For Bituminous Coated And 25% Paved, Add	*44.96*	
		For Smooth-Flo, Add	*86.40*	
33 42 11 00-0565	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	252.32	39.60
		For Bituminous Coated Pipe, Add	*29.85*	
		For Bituminous Coated And 25% Paved, Add	*53.91*	
		For Smooth-Flo, Add	*103.60*	
33 42 11 00-0566	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	275.92	41.93
		For Bituminous Coated Pipe, Add	*32.69*	
		For Bituminous Coated And 25% Paved, Add	*59.04*	
		For Smooth-Flo, Add	*113.46*	
33 42 11 00-0567	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	334.46	51.25
		For Bituminous Coated Pipe, Add	*39.80*	
		For Bituminous Coated And 25% Paved, Add	*71.87*	
		For Smooth-Flo, Add	*138.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0568		**10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping** *(33 42 11 00-0535)*		
33 42 11 00-0569	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	190.35	25.63
		For Bituminous Coated Pipe, Add	*23.93*	
		For Bituminous Coated And 25% Paved, Add	*39.98*	
		For Smooth-Flo, Add	*57.05*	
33 42 11 00-0570	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	218.61	30.29
		For Bituminous Coated Pipe, Add	*28.04*	
		For Bituminous Coated And 25% Paved, Add	*46.84*	
		For Smooth-Flo, Add	*66.83*	
33 42 11 00-0571	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	246.96	34.94
		For Bituminous Coated Pipe, Add	*31.69*	
		For Bituminous Coated And 25% Paved, Add	*52.94*	
		For Smooth-Flo, Add	*75.54*	
33 42 11 00-0572	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	289.99	39.60
		For Bituminous Coated Pipe, Add	*37.53*	
		For Bituminous Coated And 25% Paved, Add	*62.70*	
		For Smooth-Flo, Add	*89.46*	
33 42 11 00-0573	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	317.83	41.93
		For Bituminous Coated Pipe, Add	*41.22*	
		For Bituminous Coated And 25% Paved, Add	*68.86*	
		For Smooth-Flo, Add	*98.25*	
33 42 11 00-0574	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	380.52	51.25
		For Bituminous Coated Pipe, Add	*49.31*	
		For Bituminous Coated And 25% Paved, Add	*82.37*	
		For Smooth-Flo, Add	*117.53*	
33 42 11 00-0575	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	449.07	74.55
		For Bituminous Coated Pipe, Add	*52.94*	
		For Bituminous Coated And 25% Paved, Add	*88.44*	
		For Smooth-Flo, Add	*126.19*	
33 42 11 00-0576		**3" x 1" Corrugation, Galvanized Corrugated Steel Piping** *(33 42 11 00-0534)*		
33 42 11 00-0577		**16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping** *(33 42 11 00-0576)*		
33 42 11 00-0578	LF	36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	147.80	25.63
		For Bituminous Coated Pipe, Add	*18.69*	
		For Bituminous Coated And 25% Paved, Add	*42.42*	
		For Smooth-Flo, Add	*84.47*	
33 42 11 00-0579	LF	42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	169.03	30.29
		For Bituminous Coated Pipe, Add	*21.95*	
		For Bituminous Coated And 25% Paved, Add	*49.82*	
		For Smooth-Flo, Add	*99.20*	
33 42 11 00-0580	LF	48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	189.97	34.94
		For Bituminous Coated Pipe, Add	*24.61*	
		For Bituminous Coated And 25% Paved, Add	*55.87*	
		For Smooth-Flo, Add	*111.26*	
33 42 11 00-0581	LF	54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	227.06	39.60
		For Bituminous Coated Pipe, Add	*30.07*	
		For Bituminous Coated And 25% Paved, Add	*68.25*	
		For Smooth-Flo, Add	*135.90*	
33 42 11 00-0582	LF	60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	247.40	41.93
		For Bituminous Coated Pipe, Add	*32.76*	
		For Bituminous Coated And 25% Paved, Add	*74.36*	
		For Smooth-Flo, Add	*148.06*	
33 42 11 00-0583	LF	66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	310.72	51.25
		For Bituminous Coated Pipe, Add	*42.07*	
		For Bituminous Coated And 25% Paved, Add	*95.51*	
		For Smooth-Flo, Add	*190.17*	
33 42 11 00-0584	LF	72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	372.48	74.55
		For Bituminous Coated Pipe, Add	*44.85*	
		For Bituminous Coated And 25% Paved, Add	*101.80*	
		For Smooth-Flo, Add	*202.70*	
33 42 11 00-0585	LF	78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	401.23	81.54
		For Bituminous Coated Pipe, Add	*47.63*	
		For Bituminous Coated And 25% Paved, Add	*108.12*	
		For Smooth-Flo, Add	*215.29*	
33 42 11 00-0586	LF	84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	426.78	87.36
		For Bituminous Coated Pipe, Add	*50.41*	
		For Bituminous Coated And 25% Paved, Add	*114.44*	
		For Smooth-Flo, Add	*227.87*	
33 42 11 00-0587	LF	90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	452.41	93.19
		For Bituminous Coated Pipe, Add	*53.21*	
		For Bituminous Coated And 25% Paved, Add	*120.78*	
		For Smooth-Flo, Add	*240.50*	
33 42 11 00-0588	LF	96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	478.78	99.01
		For Bituminous Coated Pipe, Add	*55.98*	
		For Bituminous Coated And 25% Paved, Add	*127.08*	
		For Smooth-Flo, Add	*253.04*	
33 42 11 00-0589	LF	102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	508.50	104.83
		For Bituminous Coated Pipe, Add	*58.79*	
		For Bituminous Coated And 25% Paved, Add	*133.45*	
		For Smooth-Flo, Add	*265.72*	

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0590		14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0576)*		
33 42 11 00-0591	LF	54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	250.75	39.60
		For Bituminous Coated Pipe, Add	*34.80*	
		For Bituminous Coated And 25% Paved, Add	*68.22*	
		For Smooth-Flo, Add	*137.82*	
33 42 11 00-0592	LF	60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	273.61	41.93
		For Bituminous Coated Pipe, Add	*38.00*	
		For Bituminous Coated And 25% Paved, Add	*74.48*	
		For Smooth-Flo, Add	*150.47*	
33 42 11 00-0593	LF	66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	339.55	51.25
		For Bituminous Coated Pipe, Add	*47.84*	
		For Bituminous Coated And 25% Paved, Add	*93.77*	
		For Smooth-Flo, Add	*189.45*	
33 42 11 00-0594	LF	72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	403.89	74.55
		For Bituminous Coated Pipe, Add	*51.13*	
		For Bituminous Coated And 25% Paved, Add	*100.21*	
		For Smooth-Flo, Add	*202.47*	
33 42 11 00-0595	LF	78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	435.16	81.54
		For Bituminous Coated Pipe, Add	*54.42*	
		For Bituminous Coated And 25% Paved, Add	*106.66*	
		For Smooth-Flo, Add	*215.49*	
33 42 11 00-0596	LF	84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	463.39	87.36
		For Bituminous Coated Pipe, Add	*57.74*	
		For Bituminous Coated And 25% Paved, Add	*113.16*	
		For Smooth-Flo, Add	*228.63*	
33 42 11 00-0597	LF	90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	491.49	93.19
		For Bituminous Coated Pipe, Add	*61.02*	
		For Bituminous Coated And 25% Paved, Add	*119.61*	
		For Smooth-Flo, Add	*241.66*	
33 42 11 00-0598	LF	96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	520.43	99.01
		For Bituminous Coated Pipe, Add	*64.31*	
		For Bituminous Coated And 25% Paved, Add	*126.05*	
		For Smooth-Flo, Add	*254.68*	
33 42 11 00-0599	LF	102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	552.67	104.83
		For Bituminous Coated Pipe, Add	*67.62*	
		For Bituminous Coated And 25% Paved, Add	*132.54*	
		For Smooth-Flo, Add	*267.78*	
33 42 11 00-0600	LF	108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	587.62	116.48
		For Bituminous Coated Pipe, Add	*70.93*	
		For Bituminous Coated And 25% Paved, Add	*139.03*	
		For Smooth-Flo, Add	*280.89*	
33 42 11 00-0601	LF	114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	621.77	128.13
		For Bituminous Coated Pipe, Add	*74.18*	
		For Bituminous Coated And 25% Paved, Add	*145.39*	
		For Smooth-Flo, Add	*293.74*	
33 42 11 00-0602		12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0576)*		
33 42 11 00-0603	LF	60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	331.75	41.93
		For Bituminous Coated Pipe, Add	*49.63*	
		For Bituminous Coated And 25% Paved, Add	*94.54*	
		For Smooth-Flo, Add	*154.09*	
33 42 11 00-0604	LF	66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	403.95	51.25
		For Bituminous Coated Pipe, Add	*60.72*	
		For Bituminous Coated And 25% Paved, Add	*115.67*	
		For Smooth-Flo, Add	*188.54*	
33 42 11 00-0605	LF	72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	473.91	74.55
		For Bituminous Coated Pipe, Add	*65.13*	
		For Bituminous Coated And 25% Paved, Add	*124.08*	
		For Smooth-Flo, Add	*202.23*	
33 42 11 00-0606	LF	78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	510.85	81.54
		For Bituminous Coated Pipe, Add	*69.55*	
		For Bituminous Coated And 25% Paved, Add	*132.50*	
		For Smooth-Flo, Add	*215.97*	
33 42 11 00-0607	LF	84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	544.70	87.36
		For Bituminous Coated Pipe, Add	*74.00*	
		For Bituminous Coated And 25% Paved, Add	*140.97*	
		For Smooth-Flo, Add	*229.76*	
33 42 11 00-0608	LF	90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	578.48	93.19
		For Bituminous Coated Pipe, Add	*78.42*	
		For Bituminous Coated And 25% Paved, Add	*149.39*	
		For Smooth-Flo, Add	*243.50*	
33 42 11 00-0609	LF	96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	613.14	99.01
		For Bituminous Coated Pipe, Add	*82.85*	
		For Bituminous Coated And 25% Paved, Add	*157.84*	
		For Smooth-Flo, Add	*257.26*	
33 42 11 00-0610	LF	102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	651.05	104.83
		For Bituminous Coated Pipe, Add	*87.30*	
		For Bituminous Coated And 25% Paved, Add	*166.30*	
		For Smooth-Flo, Add	*271.06*	
33 42 11 00-0611	LF	108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	691.56	116.48
		For Bituminous Coated Pipe, Add	*91.72*	
		For Bituminous Coated And 25% Paved, Add	*174.73*	
		For Smooth-Flo, Add	*284.79*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0612	LF	114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	731.44	128.13
		For Bituminous Coated Pipe, Add	*96.11*	
		For Bituminous Coated And 25% Paved, Add	*183.09*	
		For Smooth-Flo, Add	*298.43*	
33 42 11 00-0613	LF	120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	770.11	139.78
		For Bituminous Coated Pipe, Add	*100.56*	
		For Bituminous Coated And 25% Paved, Add	*191.56*	
		For Smooth-Flo, Add	*312.23*	

33 42 11 00-0614 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0576)*

33 42 11 00-0615	LF	72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	539.20	74.55
		For Bituminous Coated Pipe, Add	*78.19*	
		For Bituminous Coated And 25% Paved, Add	*148.56*	
		For Smooth-Flo, Add	*198.60*	
33 42 11 00-0616	LF	78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	581.50	81.54
		For Bituminous Coated Pipe, Add	*83.68*	
		For Bituminous Coated And 25% Paved, Add	*159.00*	
		For Smooth-Flo, Add	*212.56*	
33 42 11 00-0617	LF	84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	620.71	87.36
		For Bituminous Coated Pipe, Add	*89.20*	
		For Bituminous Coated And 25% Paved, Add	*169.48*	
		For Smooth-Flo, Add	*226.57*	
33 42 11 00-0618	LF	90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	659.84	93.19
		For Bituminous Coated Pipe, Add	*94.69*	
		For Bituminous Coated And 25% Paved, Add	*179.92*	
		For Smooth-Flo, Add	*240.52*	
33 42 11 00-0619	LF	96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	699.86	99.01
		For Bituminous Coated Pipe, Add	*100.20*	
		For Bituminous Coated And 25% Paved, Add	*190.38*	
		For Smooth-Flo, Add	*254.50*	
33 42 11 00-0620	LF	102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	743.13	104.83
		For Bituminous Coated Pipe, Add	*105.71*	
		For Bituminous Coated And 25% Paved, Add	*200.86*	
		For Smooth-Flo, Add	*268.51*	
33 42 11 00-0621	LF	108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	789.00	116.48
		For Bituminous Coated Pipe, Add	*111.21*	
		For Bituminous Coated And 25% Paved, Add	*211.30*	
		For Smooth-Flo, Add	*282.47*	
33 42 11 00-0622	LF	114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	834.18	128.13
		For Bituminous Coated Pipe, Add	*116.66*	
		For Bituminous Coated And 25% Paved, Add	*221.65*	
		For Smooth-Flo, Add	*296.32*	
33 42 11 00-0623	LF	120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	878.26	139.78
		For Bituminous Coated Pipe, Add	*122.19*	
		For Bituminous Coated And 25% Paved, Add	*232.15*	
		For Smooth-Flo, Add	*310.35*	
33 42 11 00-0624	LF	126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	924.39	151.43
		For Bituminous Coated Pipe, Add	*127.66*	
		For Bituminous Coated And 25% Paved, Add	*242.55*	
		For Smooth-Flo, Add	*324.26*	
33 42 11 00-0625	LF	132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	973.55	163.08
		For Bituminous Coated Pipe, Add	*133.17*	
		For Bituminous Coated And 25% Paved, Add	*253.03*	
		For Smooth-Flo, Add	*338.26*	
33 42 11 00-0626	LF	138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	1,026.30	174.72
		For Bituminous Coated Pipe, Add	*138.70*	
		For Bituminous Coated And 25% Paved, Add	*263.53*	
		For Smooth-Flo, Add	*352.30*	

33 42 11 00-0627 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0534)*

33 42 11 00-0628 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0627)*

33 42 11 00-0629	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	190.65	34.94
		For Bituminous Coated Pipe, Add	*30.94*	
		For Bituminous Coated And 25% Paved, Add	*70.54*	
		For Smooth-Flo, Add	*111.99*	
33 42 11 00-0630	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	228.37	39.60
		For Bituminous Coated Pipe, Add	*37.91*	
		For Bituminous Coated And 25% Paved, Add	*86.43*	
		For Smooth-Flo, Add	*137.23*	
33 42 11 00-0631	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	248.55	41.93
		For Bituminous Coated Pipe, Add	*41.23*	
		For Bituminous Coated And 25% Paved, Add	*94.01*	
		For Smooth-Flo, Add	*149.26*	
33 42 11 00-0632	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	307.99	51.25
		For Bituminous Coated Pipe, Add	*51.91*	
		For Bituminous Coated And 25% Paved, Add	*118.35*	
		For Smooth-Flo, Add	*187.91*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0633	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	369.44	74.55
		For Bituminous Coated Pipe, Add	*55.30*	
		For Bituminous Coated And 25% Paved, Add	*126.08*	
		For Smooth-Flo, Add	*200.18*	
33 42 11 00-0634	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	397.77	81.54
		For Bituminous Coated Pipe, Add	*58.67*	
		For Bituminous Coated And 25% Paved, Add	*133.77*	
		For Smooth-Flo, Add	*212.39*	
33 42 11 00-0635	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	422.84	87.36
		For Bituminous Coated Pipe, Add	*62.03*	
		For Bituminous Coated And 25% Paved, Add	*141.43*	
		For Smooth-Flo, Add	*224.56*	
33 42 11 00-0636	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	447.90	93.19
		For Bituminous Coated Pipe, Add	*65.38*	
		For Bituminous Coated And 25% Paved, Add	*149.07*	
		For Smooth-Flo, Add	*236.68*	
33 42 11 00-0637	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	474.00	99.01
		For Bituminous Coated Pipe, Add	*68.78*	
		For Bituminous Coated And 25% Paved, Add	*156.82*	
		For Smooth-Flo, Add	*248.99*	
33 42 11 00-0638	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	503.61	104.83
		For Bituminous Coated Pipe, Add	*72.26*	
		For Bituminous Coated And 25% Paved, Add	*164.76*	
		For Smooth-Flo, Add	*261.59*	

33 42 11 00-0639 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0627)*

33 42 11 00-0640	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	258.00	39.60
		For Bituminous Coated Pipe, Add	*36.25*	
		For Bituminous Coated And 25% Paved, Add	*85.20*	
		For Smooth-Flo, Add	*154.26*	
33 42 11 00-0641	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	281.49	41.93
		For Bituminous Coated Pipe, Add	*39.57*	
		For Bituminous Coated And 25% Paved, Add	*93.00*	
		For Smooth-Flo, Add	*168.39*	
33 42 11 00-0642	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	343.91	51.25
		For Bituminous Coated Pipe, Add	*48.71*	
		For Bituminous Coated And 25% Paved, Add	*114.47*	
		For Smooth-Flo, Add	*207.27*	
33 42 11 00-0643	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	408.25	74.55
		For Bituminous Coated Pipe, Add	*52.00*	
		For Bituminous Coated And 25% Paved, Add	*122.20*	
		For Smooth-Flo, Add	*221.26*	
33 42 11 00-0644	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	440.10	81.54
		For Bituminous Coated Pipe, Add	*55.40*	
		For Bituminous Coated And 25% Paved, Add	*130.20*	
		For Smooth-Flo, Add	*235.74*	
33 42 11 00-0645	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	468.49	87.36
		For Bituminous Coated Pipe, Add	*58.76*	
		For Bituminous Coated And 25% Paved, Add	*138.08*	
		For Smooth-Flo, Add	*250.01*	
33 42 11 00-0646	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	495.17	93.19
		For Bituminous Coated Pipe, Add	*61.76*	
		For Bituminous Coated And 25% Paved, Add	*145.14*	
		For Smooth-Flo, Add	*262.79*	
33 42 11 00-0647	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	526.05	99.01
		For Bituminous Coated Pipe, Add	*65.44*	
		For Bituminous Coated And 25% Paved, Add	*153.77*	
		For Smooth-Flo, Add	*278.43*	
33 42 11 00-0648	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	558.45	104.83
		For Bituminous Coated Pipe, Add	*68.78*	
		For Bituminous Coated And 25% Paved, Add	*161.63*	
		For Smooth-Flo, Add	*292.65*	
33 42 11 00-0649	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	593.39	116.48
		For Bituminous Coated Pipe, Add	*72.09*	
		For Bituminous Coated And 25% Paved, Add	*169.40*	
		For Smooth-Flo, Add	*306.73*	
33 42 11 00-0650	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	628.28	128.13
		For Bituminous Coated Pipe, Add	*75.48*	
		For Bituminous Coated And 25% Paved, Add	*177.38*	
		For Smooth-Flo, Add	*321.17*	

33 42 11 00-0651 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0627)*

33 42 11 00-0652	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	343.15	41.93
		For Bituminous Coated Pipe, Add	*51.91*	
		For Bituminous Coated And 25% Paved, Add	*98.62*	
		For Smooth-Flo, Add	*178.04*	
33 42 11 00-0653	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	411.83	51.25
		For Bituminous Coated Pipe, Add	*62.30*	
		For Bituminous Coated And 25% Paved, Add	*118.36*	
		For Smooth-Flo, Add	*213.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0654	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	482.63	74.55
		For Bituminous Coated Pipe, Add	*66.88*	
		For Bituminous Coated And 25% Paved, Add	*127.06*	
		For Smooth-Flo, Add	*229.38*	
33 42 11 00-0655	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	520.20	81.54
		For Bituminous Coated Pipe, Add	*71.42*	
		For Bituminous Coated And 25% Paved, Add	*135.71*	
		For Smooth-Flo, Add	*244.98*	
33 42 11 00-0656	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	554.37	87.36
		For Bituminous Coated Pipe, Add	*75.93*	
		For Bituminous Coated And 25% Paved, Add	*144.27*	
		For Smooth-Flo, Add	*260.45*	
33 42 11 00-0657	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	588.88	93.19
		For Bituminous Coated Pipe, Add	*80.50*	
		For Bituminous Coated And 25% Paved, Add	*152.95*	
		For Smooth-Flo, Add	*276.12*	
33 42 11 00-0658	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	624.07	99.01
		For Bituminous Coated Pipe, Add	*85.04*	
		For Bituminous Coated And 25% Paved, Add	*161.58*	
		For Smooth-Flo, Add	*291.69*	
33 42 11 00-0659	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	662.40	104.83
		For Bituminous Coated Pipe, Add	*89.57*	
		For Bituminous Coated And 25% Paved, Add	*170.18*	
		For Smooth-Flo, Add	*307.22*	
33 42 11 00-0660	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	703.65	116.48
		For Bituminous Coated Pipe, Add	*94.14*	
		For Bituminous Coated And 25% Paved, Add	*178.86*	
		For Smooth-Flo, Add	*322.89*	
33 42 11 00-0661	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	744.26	128.13
		For Bituminous Coated Pipe, Add	*98.68*	
		For Bituminous Coated And 25% Paved, Add	*187.48*	
		For Smooth-Flo, Add	*338.46*	
33 42 11 00-0662	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	783.40	139.78
		For Bituminous Coated Pipe, Add	*103.21*	
		For Bituminous Coated And 25% Paved, Add	*196.11*	
		For Smooth-Flo, Add	*354.02*	

33 42 11 00-0663 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0627)*

33 42 11 00-0664	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	553.86	74.55
		For Bituminous Coated Pipe, Add	*81.12*	
		For Bituminous Coated And 25% Paved, Add	*154.13*	
		For Smooth-Flo, Add	*242.15*	
33 42 11 00-0665	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	598.05	81.54
		For Bituminous Coated Pipe, Add	*86.99*	
		For Bituminous Coated And 25% Paved, Add	*165.29*	
		For Smooth-Flo, Add	*259.68*	
33 42 11 00-0666	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	638.41	87.36
		For Bituminous Coated Pipe, Add	*92.74*	
		For Bituminous Coated And 25% Paved, Add	*176.21*	
		For Smooth-Flo, Add	*276.83*	
33 42 11 00-0667	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	678.54	93.19
		For Bituminous Coated Pipe, Add	*98.43*	
		For Bituminous Coated And 25% Paved, Add	*187.02*	
		For Smooth-Flo, Add	*293.83*	
33 42 11 00-0668	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	719.82	99.01
		For Bituminous Coated Pipe, Add	*104.19*	
		For Bituminous Coated And 25% Paved, Add	*197.96*	
		For Smooth-Flo, Add	*311.01*	
33 42 11 00-0669	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	764.03	104.83
		For Bituminous Coated Pipe, Add	*109.89*	
		For Bituminous Coated And 25% Paved, Add	*208.80*	
		For Smooth-Flo, Add	*328.03*	
33 42 11 00-0670	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	811.17	116.48
		For Bituminous Coated Pipe, Add	*115.64*	
		For Bituminous Coated And 25% Paved, Add	*219.72*	
		For Smooth-Flo, Add	*345.19*	
33 42 11 00-0671	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	857.77	128.13
		For Bituminous Coated Pipe, Add	*121.38*	
		For Bituminous Coated And 25% Paved, Add	*230.62*	
		For Smooth-Flo, Add	*362.31*	
33 42 11 00-0672	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	902.74	139.78
		For Bituminous Coated Pipe, Add	*127.08*	
		For Bituminous Coated And 25% Paved, Add	*241.46*	
		For Smooth-Flo, Add	*379.34*	
33 42 11 00-0673	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	959.16	151.43
		For Bituminous Coated Pipe, Add	*134.61*	
		For Bituminous Coated And 25% Paved, Add	*255.77*	
		For Smooth-Flo, Add	*401.82*	
33 42 11 00-0674	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	1,011.79	163.08
		For Bituminous Coated Pipe, Add	*140.82*	
		For Bituminous Coated And 25% Paved, Add	*267.56*	
		For Smooth-Flo, Add	*420.35*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0675	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	1,069.16	174.72
		For Bituminous Coated Pipe, Add	*147.27*	
		For Bituminous Coated And 25% Paved, Add	*279.82*	
		For Smooth-Flo, Add	*439.61*	

33 42 11 00-0676 Helical Ribbed, Galvanized Corrugated Steel Piping *(33 42 11 00-0534)*

33 42 11 00-0677 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping *(33 42 11 00-0676)*

33 42 11 00-0678	LF	18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	66.29	13.00
		For Bituminous Coated Pipe, Add	*9.53*	
33 42 11 00-0679	LF	21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	76.11	14.09
		For Bituminous Coated Pipe, Add	*11.36*	
33 42 11 00-0680	LF	24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	85.07	15.17
		For Bituminous Coated Pipe, Add	*12.90*	
33 42 11 00-0681	LF	30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	111.33	19.50
		For Bituminous Coated Pipe, Add	*16.62*	
33 42 11 00-0682	LF	36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	143.76	25.63
		For Bituminous Coated Pipe, Add	*20.83*	
33 42 11 00-0683	LF	42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	164.72	30.29
		For Bituminous Coated Pipe, Add	*24.56*	
33 42 11 00-0684	LF	48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	185.56	34.94
		For Bituminous Coated Pipe, Add	*27.65*	
33 42 11 00-0685	LF	54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	222.07	39.60
		For Bituminous Coated Pipe, Add	*33.86*	
33 42 11 00-0686	LF	60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	242.30	41.93
		For Bituminous Coated Pipe, Add	*36.97*	

33 42 11 00-0687 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping *(33 42 11 00-0676)*

33 42 11 00-0688	LF	18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	73.12	13.00
		For Bituminous Coated Pipe, Add	*11.03*	
33 42 11 00-0689	LF	21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	84.10	14.09
		For Bituminous Coated Pipe, Add	*13.10*	
33 42 11 00-0690	LF	24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	94.16	15.17
		For Bituminous Coated Pipe, Add	*14.89*	
33 42 11 00-0691	LF	30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	122.62	19.50
		For Bituminous Coated Pipe, Add	*19.09*	
33 42 11 00-0692	LF	36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	157.36	25.63
		For Bituminous Coated Pipe, Add	*23.79*	
33 42 11 00-0693	LF	42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	180.64	30.29
		For Bituminous Coated Pipe, Add	*28.03*	
33 42 11 00-0694	LF	48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	203.73	34.94
		For Bituminous Coated Pipe, Add	*31.61*	
33 42 11 00-0695	LF	54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	242.50	39.60
		For Bituminous Coated Pipe, Add	*38.29*	
33 42 11 00-0696	LF	60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	265.04	41.93
		For Bituminous Coated Pipe, Add	*41.91*	
33 42 11 00-0697	LF	66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	325.74	51.25
		For Bituminous Coated Pipe, Add	*52.07*	
33 42 11 00-0698	LF	72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	389.08	74.55
		For Bituminous Coated Pipe, Add	*55.63*	
33 42 11 00-0699	LF	78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	419.62	81.54
		For Bituminous Coated Pipe, Add	*59.26*	

33 42 11 00-0700 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping *(33 42 11 00-0676)*

33 42 11 00-0701	LF	30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	145.52	19.50
		For Bituminous Coated Pipe, Add	*19.94*	
33 42 11 00-0702	LF	36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	184.73	25.63
		For Bituminous Coated Pipe, Add	*24.64*	
33 42 11 00-0703	LF	42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	212.68	30.29
		For Bituminous Coated Pipe, Add	*28.99*	
33 42 11 00-0704	LF	48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	240.29	34.94
		For Bituminous Coated Pipe, Add	*32.77*	
33 42 11 00-0705	LF	54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	283.68	39.60
		For Bituminous Coated Pipe, Add	*39.11*	
33 42 11 00-0706	LF	60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	310.85	41.93
		For Bituminous Coated Pipe, Add	*42.95*	
33 42 11 00-0707	LF	66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	376.01	51.25
		For Bituminous Coated Pipe, Add	*52.10*	
33 42 11 00-0708	LF	72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	443.87	74.55
		For Bituminous Coated Pipe, Add	*55.87*	
33 42 11 00-0709	LF	78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	478.92	81.54
		For Bituminous Coated Pipe, Add	*59.69*	
33 42 11 00-0710	LF	84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	510.67	87.36
		For Bituminous Coated Pipe, Add	*63.50*	
33 42 11 00-0711	LF	90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	542.39	93.19
		For Bituminous Coated Pipe, Add	*67.29*	
33 42 11 00-0712	LF	96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	574.96	99.01
		For Bituminous Coated Pipe, Add	*71.08*	
33 42 11 00-0713	LF	102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	608.50	104.83
		For Bituminous Coated Pipe, Add	*74.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0714		1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0534)*		
33 42 11 00-0715		1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0714)*		
33 42 11 00-0716	LF	6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	22.94	6.50
		For Bituminous Coated Pipe, Add	*2.44*	
33 42 11 00-0717	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	24.98	6.50
		For Bituminous Coated Pipe, Add	*2.94*	
33 42 11 00-0718	LF	8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	28.92	8.12
		For Bituminous Coated Pipe, Add	*3.22*	
33 42 11 00-0719	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	31.50	8.12
		For Bituminous Coated Pipe, Add	*3.86*	
33 42 11 00-0720	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	36.53	9.75
		For Bituminous Coated Pipe, Add	*4.05*	
33 42 11 00-0721	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	39.81	9.75
		For Bituminous Coated Pipe, Add	*4.85*	
33 42 11 00-0722		Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0714)*		
33 42 11 00-0723	LF	6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	23.23	6.50
		For Bituminous Coated Pipe, Add	*2.40*	
33 42 11 00-0724	LF	6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	25.20	6.50
		For Bituminous Coated Pipe, Add	*2.87*	
33 42 11 00-0725	LF	8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	29.20	8.12
		For Bituminous Coated Pipe, Add	*3.16*	
33 42 11 00-0726	LF	8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	31.94	8.12
		For Bituminous Coated Pipe, Add	*3.80*	
33 42 11 00-0727	LF	10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	37.02	9.75
		For Bituminous Coated Pipe, Add	*4.00*	
33 42 11 00-0728	LF	10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	40.37	9.75
		For Bituminous Coated Pipe, Add	*4.79*	
33 42 11 00-0729		1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings *(33 42 11 00-0714)*		
33 42 11 00-0730	EA	6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	15.05	
		For Bituminous Coated Pipe, Add	*3.39*	
33 42 11 00-0731	EA	8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	19.92	
		For Bituminous Coated Pipe, Add	*4.48*	
33 42 11 00-0732	EA	10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	24.42	
		For Bituminous Coated Pipe, Add	*5.49*	
33 42 11 00-0733	EA	6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	54.27	
		For Bituminous Coated Pipe, Add	*7.49*	
33 42 11 00-0734	EA	6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	10.95	
		For Bituminous Coated Pipe, Add	*1.71*	
33 42 11 00-0735	EA	8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	14.06	
		For Bituminous Coated Pipe, Add	*2.56*	
33 42 11 00-0736		2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0534)*		
33 42 11 00-0737		16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0736)*		
33 42 11 00-0738	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	74.41	11.38
33 42 11 00-0739	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	88.43	11.92
33 42 11 00-0740	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	102.90	13.00
33 42 11 00-0741	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	120.05	14.09
33 42 11 00-0742	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	134.09	15.17
33 42 11 00-0743	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	175.30	19.50
33 42 11 00-0744	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	225.14	25.63
33 42 11 00-0745	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	261.32	30.29
33 42 11 00-0746	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	293.22	34.94
33 42 11 00-0747		14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0736)*		
33 42 11 00-0748	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	85.40	11.38
33 42 11 00-0749	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	102.05	11.92
33 42 11 00-0750	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	119.21	13.00
33 42 11 00-0751	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	138.94	14.09
33 42 11 00-0752	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	156.02	15.17
33 42 11 00-0753	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	202.22	19.50
33 42 11 00-0754	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	257.64	25.63
33 42 11 00-0755	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	298.62	30.29
33 42 11 00-0756	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	335.79	34.94
33 42 11 00-0757	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	407.45	39.60
33 42 11 00-0758		12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0736)*		
33 42 11 00-0759	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	153.20	13.00
33 42 11 00-0760	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	178.62	14.09
33 42 11 00-0761	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	201.15	15.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0762	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	258.59	19.50
33 42 11 00-0763	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	311.46	25.63
33 42 11 00-0764	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	377.47	30.29
33 42 11 00-0765	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	425.78	34.94
33 42 11 00-0766	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	510.13	39.60
33 42 11 00-0767	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	557.49	41.93
33 42 11 00-0768	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	683.21	51.25
33 42 11 00-0769		**10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0736)*		
33 42 11 00-0770	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	387.07	25.63
33 42 11 00-0771	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	449.31	30.29
33 42 11 00-0772	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	507.37	34.94
33 42 11 00-0773	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	601.54	39.60
33 42 11 00-0774	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	659.24	41.93
33 42 11 00-0775	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	794.96	51.25
33 42 11 00-0776	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	892.97	74.55
33 42 11 00-0777		**3" x 1" Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0534)*		
33 42 11 00-0778		**16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0777)*		
33 42 11 00-0779	LF	36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	287.54	25.63
33 42 11 00-0780	LF	42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	333.27	30.29
33 42 11 00-0781	LF	48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	373.89	34.94
33 42 11 00-0782	LF	54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	453.33	39.60
33 42 11 00-0783	LF	60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	493.60	41.93
33 42 11 00-0784	LF	66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	629.72	51.25
33 42 11 00-0785	LF	72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	712.08	74.55
33 42 11 00-0786	LF	78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	761.35	81.54
33 42 11 00-0787	LF	84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	807.54	87.36
33 42 11 00-0788	LF	90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	853.80	93.19
33 42 11 00-0789	LF	96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	900.74	99.01
33 42 11 00-0790	LF	102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	951.17	104.83
33 42 11 00-0791		**14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0777)*		
33 42 11 00-0792	LF	54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	512.09	39.60
33 42 11 00-0793	LF	60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	558.55	41.93
33 42 11 00-0794	LF	66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	701.27	51.25
33 42 11 00-0795	LF	72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	789.89	74.55
33 42 11 00-0796	LF	78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	845.52	81.54
33 42 11 00-0797	LF	84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	898.30	87.36
33 42 11 00-0798	LF	90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	950.73	93.19
33 42 11 00-0799	LF	96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,003.98	99.01
33 42 11 00-0800	LF	102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,060.82	104.83
33 42 11 00-0801	LF	108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,120.21	116.48
33 42 11 00-0802	LF	114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,178.36	128.13
33 42 11 00-0803		**12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0777)*		
33 42 11 00-0804	LF	60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	706.33	41.93
33 42 11 00-0805	LF	66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	865.66	51.25
33 42 11 00-0806	LF	72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	968.54	74.55
33 42 11 00-0807	LF	78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,038.49	81.54
33 42 11 00-0808	LF	84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,105.52	87.36
33 42 11 00-0809	LF	90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,172.30	93.19
33 42 11 00-0810	LF	96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,240.00	99.01
33 42 11 00-0811	LF	102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,311.07	104.83
33 42 11 00-0812	LF	108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,384.59	116.48
33 42 11 00-0813	LF	114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,457.27	128.13
33 42 11 00-0814	LF	120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,529.13	139.78
33 42 11 00-0815		**10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0777)*		
33 42 11 00-0816	LF	72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,131.32	74.55
33 42 11 00-0817	LF	78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,214.54	81.54
33 42 11 00-0818	LF	84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,294.95	87.36
33 42 11 00-0819	LF	90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,375.04	93.19
33 42 11 00-0820	LF	96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,456.13	99.01
33 42 11 00-0821	LF	102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,540.56	104.83
33 42 11 00-0822	LF	108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,627.45	116.48
33 42 11 00-0823	LF	114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,713.42	128.13
33 42 11 00-0824	LF	120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,798.63	139.78
33 42 11 00-0825	LF	126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,885.66	151.43
33 42 11 00-0826	LF	132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,975.98	163.08
33 42 11 00-0827	LF	138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	2,069.91	174.72
33 42 11 00-0828		**125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0534)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0829		**16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0828)*		
33 42 11 00-0830	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	361.22	34.94
33 42 11 00-0831	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	439.39	39.60
33 42 11 00-0832	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	477.62	41.93
33 42 11 00-0833	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	600.03	51.25
33 42 11 00-0834	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	679.96	74.55
33 42 11 00-0835	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	726.70	81.54
33 42 11 00-0836	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	770.02	87.36
33 42 11 00-0837	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	813.26	93.19
33 42 11 00-0838	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	857.81	99.01
33 42 11 00-0839	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	906.48	104.83
33 42 11 00-0840		**14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0828)*		
33 42 11 00-0841	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	509.19	39.60
33 42 11 00-0842	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	555.36	41.93
33 42 11 00-0843	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	684.81	51.25
33 42 11 00-0844	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	771.57	74.55
33 42 11 00-0845	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	826.59	81.54
33 42 11 00-0846	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	877.69	87.36
33 42 11 00-0847	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	924.83	93.19
33 42 11 00-0848	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	980.70	99.01
33 42 11 00-0849	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,035.86	104.83
33 42 11 00-0850	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,093.26	116.48
33 42 11 00-0851	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,151.23	128.13
33 42 11 00-0852		**12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0828)*		
33 42 11 00-0853	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	711.17	41.93
33 42 11 00-0854	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	857.20	51.25
33 42 11 00-0855	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	960.24	74.55
33 42 11 00-0856	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,029.58	81.54
33 42 11 00-0857	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,095.29	87.36
33 42 11 00-0858	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,161.88	93.19
33 42 11 00-0859	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,228.89	99.01
33 42 11 00-0860	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,298.87	104.83
33 42 11 00-0861	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,372.18	116.48
33 42 11 00-0862	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,444.60	128.13
33 42 11 00-0863	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,515.51	139.78
33 42 11 00-0864		**10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping** *(33 42 11 00-0828)*		
33 42 11 00-0865	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,131.25	74.55
33 42 11 00-0866	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,216.50	81.54
33 42 11 00-0867	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,297.19	87.36
33 42 11 00-0868	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,377.23	93.19
33 42 11 00-0869	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,458.73	99.01
33 42 11 00-0870	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,543.01	104.83
33 42 11 00-0871	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,630.31	116.48
33 42 11 00-0872	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,717.09	128.13
33 42 11 00-0873	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,802.11	139.78
33 42 11 00-0874	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,911.25	151.43
33 42 11 00-0875	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	2,007.44	163.08
33 42 11 00-0876	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	2,109.97	174.72
33 42 11 00-0877		**Galvanized Corrugated Steel Pipe-Arch** *(33 42 11 00-0533)*		
33 42 11 00-0878		**2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch** *(33 42 11 00-0877)*		
33 42 11 00-0879		**16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch** *(33 42 11 00-0878)*		
33 42 11 00-0880	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	52.31	11.92
		For Bituminous Coated Pipe, Add	*6.93*	
		For Bituminous Coated And 25% Paved, Add	*16.76*	
		For Smooth-Flo, Add	*27.65*	
33 42 11 00-0881	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	58.62	13.00
		For Bituminous Coated Pipe, Add	*8.28*	
		For Bituminous Coated And 25% Paved, Add	*20.02*	
		For Smooth-Flo, Add	*33.02*	
33 42 11 00-0882	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	67.39	14.09
		For Bituminous Coated Pipe, Add	*9.96*	
		For Bituminous Coated And 25% Paved, Add	*24.09*	
		For Smooth-Flo, Add	*39.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0883	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	75.83	15.17
		For Bituminous Coated Pipe, Add	*11.48*	
		For Bituminous Coated And 25% Paved, Add	*27.76*	
		For Smooth-Flo, Add	*45.80*	
33 42 11 00-0884	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	98.57	19.50
		For Bituminous Coated Pipe, Add	*14.58*	
		For Bituminous Coated And 25% Paved, Add	*35.26*	
		For Smooth-Flo, Add	*58.16*	
33 42 11 00-0885	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	129.89	25.63
		For Bituminous Coated Pipe, Add	*18.81*	
		For Bituminous Coated And 25% Paved, Add	*45.47*	
		For Smooth-Flo, Add	*75.00*	

33 42 11 00-0886 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0878)*

33 42 11 00-0887	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	57.93	11.92
		For Bituminous Coated Pipe, Add	*7.19*	
		For Bituminous Coated And 25% Paved, Add	*16.83*	
		For Smooth-Flo, Add	*27.60*	
33 42 11 00-0888	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	65.50	13.00
		For Bituminous Coated Pipe, Add	*8.63*	
		For Bituminous Coated And 25% Paved, Add	*20.19*	
		For Smooth-Flo, Add	*33.11*	
33 42 11 00-0889	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	75.06	14.09
		For Bituminous Coated Pipe, Add	*10.25*	
		For Bituminous Coated And 25% Paved, Add	*23.99*	
		For Smooth-Flo, Add	*39.34*	
33 42 11 00-0890	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	84.70	15.17
		For Bituminous Coated Pipe, Add	*11.82*	
		For Bituminous Coated And 25% Paved, Add	*27.66*	
		For Smooth-Flo, Add	*45.37*	
33 42 11 00-0891	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	109.65	19.50
		For Bituminous Coated Pipe, Add	*14.97*	
		For Bituminous Coated And 25% Paved, Add	*35.03*	
		For Smooth-Flo, Add	*57.46*	
33 42 11 00-0892	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	143.08	25.63
		For Bituminous Coated Pipe, Add	*19.07*	
		For Bituminous Coated And 25% Paved, Add	*44.63*	
		For Smooth-Flo, Add	*73.19*	
33 42 11 00-0893	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	164.98	30.29
		For Bituminous Coated Pipe, Add	*22.72*	
		For Bituminous Coated And 25% Paved, Add	*53.16*	
		For Smooth-Flo, Add	*87.19*	

33 42 11 00-0894 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0878)*

33 42 11 00-0895	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	85.76	13.98
		For Bituminous Coated Pipe, Add	*9.33*	
		For Bituminous Coated And 25% Paved, Add	*20.77*	
		For Smooth-Flo, Add	*31.93*	
33 42 11 00-0896	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	98.31	15.14
		For Bituminous Coated Pipe, Add	*11.07*	
		For Bituminous Coated And 25% Paved, Add	*24.63*	
		For Smooth-Flo, Add	*37.88*	
33 42 11 00-0897	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	110.65	16.31
		For Bituminous Coated Pipe, Add	*12.69*	
		For Bituminous Coated And 25% Paved, Add	*28.25*	
		For Smooth-Flo, Add	*43.44*	
33 42 11 00-0898	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	142.56	20.97
		For Bituminous Coated Pipe, Add	*15.98*	
		For Bituminous Coated And 25% Paved, Add	*35.57*	
		For Smooth-Flo, Add	*54.69*	
33 42 11 00-0899	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	169.97	25.63
		For Bituminous Coated Pipe, Add	*20.00*	
		For Bituminous Coated And 25% Paved, Add	*44.51*	
		For Smooth-Flo, Add	*68.44*	
33 42 11 00-0900	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	196.03	30.29
		For Bituminous Coated Pipe, Add	*23.65*	
		For Bituminous Coated And 25% Paved, Add	*52.64*	
		For Smooth-Flo, Add	*80.94*	
33 42 11 00-0901	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	229.05	34.94
		For Bituminous Coated Pipe, Add	*28.05*	
		For Bituminous Coated And 25% Paved, Add	*62.43*	
		For Smooth-Flo, Add	*95.99*	
33 42 11 00-0902	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	255.79	39.60
		For Bituminous Coated Pipe, Add	*30.98*	
		For Bituminous Coated And 25% Paved, Add	*68.94*	
		For Smooth-Flo, Add	*106.00*	

33 42 11 00-0903 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0878)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0904	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	195.29	25.63
		For Bituminous Coated Pipe, Add	*24.10*	
		For Bituminous Coated And 25% Paved, Add	*50.73*	
		For Smooth-Flo, Add	*63.98*	
33 42 11 00-0905	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	225.54	30.29
		For Bituminous Coated Pipe, Add	*28.43*	
		For Bituminous Coated And 25% Paved, Add	*59.85*	
		For Smooth-Flo, Add	*75.47*	
33 42 11 00-0906	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	262.51	34.94
		For Bituminous Coated Pipe, Add	*33.45*	
		For Bituminous Coated And 25% Paved, Add	*70.42*	
		For Smooth-Flo, Add	*88.81*	
33 42 11 00-0907	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	293.61	39.60
		For Bituminous Coated Pipe, Add	*37.09*	
		For Bituminous Coated And 25% Paved, Add	*78.08*	
		For Smooth-Flo, Add	*98.46*	
33 42 11 00-0908	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	321.72	41.93
		For Bituminous Coated Pipe, Add	*40.72*	
		For Bituminous Coated And 25% Paved, Add	*85.72*	
		For Smooth-Flo, Add	*108.10*	
33 42 11 00-0909		3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0877)*		
33 42 11 00-0910		14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0909)*		
33 42 11 00-0911	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	255.42	39.60
		For Bituminous Coated Pipe, Add	*35.74*	
		For Bituminous Coated And 25% Paved, Add	*108.64*	
		For Smooth-Flo, Add	*121.51*	
33 42 11 00-0912	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	279.17	41.93
		For Bituminous Coated Pipe, Add	*39.11*	
		For Bituminous Coated And 25% Paved, Add	*118.89*	
		For Smooth-Flo, Add	*132.97*	
33 42 11 00-0913	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	345.96	51.25
		For Bituminous Coated Pipe, Add	*49.12*	
		For Bituminous Coated And 25% Paved, Add	*149.33*	
		For Smooth-Flo, Add	*167.01*	
33 42 11 00-0914	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	411.56	74.55
		For Bituminous Coated Pipe, Add	*52.66*	
		For Bituminous Coated And 25% Paved, Add	*160.09*	
		For Smooth-Flo, Add	*179.05*	
33 42 11 00-0915	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	444.99	81.54
		For Bituminous Coated Pipe, Add	*56.38*	
		For Bituminous Coated And 25% Paved, Add	*171.40*	
		For Smooth-Flo, Add	*191.70*	
33 42 11 00-0916	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	475.32	87.36
		For Bituminous Coated Pipe, Add	*60.12*	
		For Bituminous Coated And 25% Paved, Add	*182.77*	
		For Smooth-Flo, Add	*204.41*	
33 42 11 00-0917	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	505.57	93.19
		For Bituminous Coated Pipe, Add	*63.84*	
		For Bituminous Coated And 25% Paved, Add	*194.07*	
		For Smooth-Flo, Add	*217.06*	
33 42 11 00-0918	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	536.61	99.01
		For Bituminous Coated Pipe, Add	*67.55*	
		For Bituminous Coated And 25% Paved, Add	*205.35*	
		For Smooth-Flo, Add	*229.66*	
33 42 11 00-0919		12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0909)*		
33 42 11 00-0920	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	337.37	41.93
		For Bituminous Coated Pipe, Add	*50.75*	
		For Bituminous Coated And 25% Paved, Add	*132.97*	
		For Smooth-Flo, Add	*157.33*	
33 42 11 00-0921	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	410.52	51.25
		For Bituminous Coated Pipe, Add	*62.03*	
		For Bituminous Coated And 25% Paved, Add	*162.53*	
		For Smooth-Flo, Add	*192.31*	
33 42 11 00-0922	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	481.84	74.55
		For Bituminous Coated Pipe, Add	*66.72*	
		For Bituminous Coated And 25% Paved, Add	*174.80*	
		For Smooth-Flo, Add	*206.83*	
33 42 11 00-0923	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	520.94	81.54
		For Bituminous Coated Pipe, Add	*71.57*	
		For Bituminous Coated And 25% Paved, Add	*187.52*	
		For Smooth-Flo, Add	*221.87*	
33 42 11 00-0924	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	556.94	87.36
		For Bituminous Coated Pipe, Add	*76.45*	
		For Bituminous Coated And 25% Paved, Add	*200.29*	
		For Smooth-Flo, Add	*236.98*	
33 42 11 00-0925	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	592.92	93.19
		For Bituminous Coated Pipe, Add	*81.31*	
		For Bituminous Coated And 25% Paved, Add	*213.03*	
		For Smooth-Flo, Add	*252.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0926	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	629.64	99.01
		For Bituminous Coated Pipe, Add	*86.15*	
		For Bituminous Coated And 25% Paved, Add	*225.72*	
		For Smooth-Flo, Add	*267.08*	
33 42 11 00-0927	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	669.80	104.83
		For Bituminous Coated Pipe, Add	*91.05*	
		For Bituminous Coated And 25% Paved, Add	*238.55*	
		For Smooth-Flo, Add	*282.25*	
33 42 11 00-0928	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	712.52	116.48
		For Bituminous Coated Pipe, Add	*95.91*	
		For Bituminous Coated And 25% Paved, Add	*251.29*	
		For Smooth-Flo, Add	*297.33*	
33 42 11 00-0929	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	757.18	128.13
		For Bituminous Coated Pipe, Add	*101.26*	
		For Bituminous Coated And 25% Paved, Add	*265.30*	
		For Smooth-Flo, Add	*313.91*	

33 42 11 00-0930 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0909)*

33 42 11 00-0931	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	547.13	74.55
		For Bituminous Coated Pipe, Add	*79.78*	
		For Bituminous Coated And 25% Paved, Add	*189.87*	
		For Smooth-Flo, Add	*206.22*	
33 42 11 00-0932	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	591.64	81.54
		For Bituminous Coated Pipe, Add	*85.71*	
		For Bituminous Coated And 25% Paved, Add	*203.99*	
		For Smooth-Flo, Add	*221.57*	
33 42 11 00-0933	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	633.00	87.36
		For Bituminous Coated Pipe, Add	*91.66*	
		For Bituminous Coated And 25% Paved, Add	*218.15*	
		For Smooth-Flo, Add	*236.94*	
33 42 11 00-0934	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	674.23	93.19
		For Bituminous Coated Pipe, Add	*97.57*	
		For Bituminous Coated And 25% Paved, Add	*232.22*	
		For Smooth-Flo, Add	*252.22*	
33 42 11 00-0935	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	716.36	99.01
		For Bituminous Coated Pipe, Add	*103.50*	
		For Bituminous Coated And 25% Paved, Add	*246.33*	
		For Smooth-Flo, Add	*267.54*	
33 42 11 00-0936	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	761.83	104.83
		For Bituminous Coated Pipe, Add	*109.45*	
		For Bituminous Coated And 25% Paved, Add	*260.50*	
		For Smooth-Flo, Add	*282.94*	
33 42 11 00-0937	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	809.91	116.48
		For Bituminous Coated Pipe, Add	*115.39*	
		For Bituminous Coated And 25% Paved, Add	*274.63*	
		For Smooth-Flo, Add	*298.28*	
33 42 11 00-0938	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	859.50	128.13
		For Bituminous Coated Pipe, Add	*121.72*	
		For Bituminous Coated And 25% Paved, Add	*289.70*	
		For Smooth-Flo, Add	*314.66*	
33 42 11 00-0939	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	913.98	139.78
		For Bituminous Coated Pipe, Add	*129.33*	
		For Bituminous Coated And 25% Paved, Add	*307.81*	
		For Smooth-Flo, Add	*334.32*	

33 42 11 00-0940 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0877)*

33 42 11 00-0941 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0940)*

33 42 11 00-0942	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	488.25	74.55
		For Bituminous Coated Pipe, Add	*68.00*	
		For Bituminous Coated And 25% Paved, Add	*165.92*	
		For Smooth-Flo, Add	*211.14*	
33 42 11 00-0943	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	526.72	81.54
		For Bituminous Coated Pipe, Add	*72.73*	
		For Bituminous Coated And 25% Paved, Add	*177.46*	
		For Smooth-Flo, Add	*225.82*	
33 42 11 00-0944	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	561.72	87.36
		For Bituminous Coated Pipe, Add	*77.40*	
		For Bituminous Coated And 25% Paved, Add	*188.86*	
		For Smooth-Flo, Add	*240.33*	
33 42 11 00-0945	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	596.76	93.19
		For Bituminous Coated Pipe, Add	*82.08*	
		For Bituminous Coated And 25% Paved, Add	*200.27*	
		For Smooth-Flo, Add	*254.85*	
33 42 11 00-0946	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	632.79	99.01
		For Bituminous Coated Pipe, Add	*86.78*	
		For Bituminous Coated And 25% Paved, Add	*211.75*	
		For Smooth-Flo, Add	*269.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0947	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	672.43	104.83
		For Bituminous Coated Pipe, Add	*91.57*	
		For Bituminous Coated And 25% Paved, Add	*223.44*	
		For Smooth-Flo, Add	*284.34*	
33 42 11 00-0948	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	714.62	116.48
		For Bituminous Coated Pipe, Add	*96.33*	
		For Bituminous Coated And 25% Paved, Add	*235.05*	
		For Smooth-Flo, Add	*299.11*	
33 42 11 00-0949	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	762.38	128.13
		For Bituminous Coated Pipe, Add	*102.30*	
		For Bituminous Coated And 25% Paved, Add	*249.61*	
		For Smooth-Flo, Add	*317.64*	
33 42 11 00-0950		10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0940)*		
33 42 11 00-0951	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	560.53	74.55
		For Bituminous Coated Pipe, Add	*82.46*	
		For Bituminous Coated And 25% Paved, Add	*186.35*	
		For Smooth-Flo, Add	*202.43*	
33 42 11 00-0952	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	604.77	81.54
		For Bituminous Coated Pipe, Add	*88.34*	
		For Bituminous Coated And 25% Paved, Add	*199.64*	
		For Smooth-Flo, Add	*216.87*	
33 42 11 00-0953	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	645.66	87.36
		For Bituminous Coated Pipe, Add	*94.19*	
		For Bituminous Coated And 25% Paved, Add	*212.87*	
		For Smooth-Flo, Add	*231.24*	
33 42 11 00-0954	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	686.73	93.19
		For Bituminous Coated Pipe, Add	*100.07*	
		For Bituminous Coated And 25% Paved, Add	*226.16*	
		For Smooth-Flo, Add	*245.68*	
33 42 11 00-0955	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	727.65	99.01
		For Bituminous Coated Pipe, Add	*105.76*	
		For Bituminous Coated And 25% Paved, Add	*239.01*	
		For Smooth-Flo, Add	*259.63*	
33 42 11 00-0956	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	773.96	104.83
		For Bituminous Coated Pipe, Add	*111.88*	
		For Bituminous Coated And 25% Paved, Add	*252.85*	
		For Smooth-Flo, Add	*274.67*	
33 42 11 00-0957	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	822.14	116.48
		For Bituminous Coated Pipe, Add	*117.84*	
		For Bituminous Coated And 25% Paved, Add	*266.31*	
		For Smooth-Flo, Add	*289.29*	
33 42 11 00-0958	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	875.83	128.13
		For Bituminous Coated Pipe, Add	*124.99*	
		For Bituminous Coated And 25% Paved, Add	*282.48*	
		For Smooth-Flo, Add	*306.85*	
33 42 11 00-0959	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	926.06	139.78
		For Bituminous Coated Pipe, Add	*131.75*	
		For Bituminous Coated And 25% Paved, Add	*297.75*	
		For Smooth-Flo, Add	*323.44*	
33 42 11 00-0960		2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0877)*		
33 42 11 00-0961		16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0960)*		
33 42 11 00-0962	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	88.53	11.92
33 42 11 00-0963	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	101.91	13.00
33 42 11 00-0964	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	119.62	14.09
33 42 11 00-0965	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	136.10	15.17
33 42 11 00-0966	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	175.34	19.50
33 42 11 00-0967	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	229.63	25.63
33 42 11 00-0968		14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0960)*		
33 42 11 00-0969	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	101.45	11.92
33 42 11 00-0970	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	117.69	13.00
33 42 11 00-0971	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	137.26	14.09
33 42 11 00-0972	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	156.59	15.17
33 42 11 00-0973	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	200.82	19.50
33 42 11 00-0974	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	259.93	25.63
33 42 11 00-0975	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	304.48	30.29
33 42 11 00-0976		12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0960)*		
33 42 11 00-0977	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	156.41	13.00
33 42 11 00-0978	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	183.11	14.09
33 42 11 00-0979	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	208.52	15.17
33 42 11 00-0980	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	265.64	19.50
33 42 11 00-0981	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	338.21	25.63
33 42 11 00-0982	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	395.65	30.29

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0983	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	467.40	34.94
33 42 11 00-0984	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	518.29	39.60
33 42 11 00-0985		10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0960)*		
33 42 11 00-0986	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	399.62	25.63
33 42 11 00-0987	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	467.29	30.29
33 42 11 00-0988	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	548.62	34.94
33 42 11 00-0989	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	610.12	39.60
33 42 11 00-0990	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	668.49	41.93
33 42 11 00-0991		3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0877)*		
33 42 11 00-0992		14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0991)*		
33 42 11 00-0993	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	523.63	39.60
33 42 11 00-0994	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	572.12	41.93
33 42 11 00-0995	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	717.01	51.25
33 42 11 00-0996	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	808.80	74.55
33 42 11 00-0997	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	869.79	81.54
33 42 11 00-0998	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	927.78	87.36
33 42 11 00-0999	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	985.53	93.19
33 42 11 00-1000	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,044.24	99.01
33 42 11 00-1001		12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0991)*		
33 42 11 00-1002	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	720.18	41.93
33 42 11 00-1003	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	881.83	51.25
33 42 11 00-1004	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	988.18	74.55
33 42 11 00-1005	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,063.47	81.54
33 42 11 00-1006	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,135.83	87.36
33 42 11 00-1007	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,208.11	93.19
33 42 11 00-1008	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,281.05	99.01
33 42 11 00-1009	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,357.68	104.83
33 42 11 00-1010	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,436.71	116.48
33 42 11 00-1011	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,521.31	128.13
33 42 11 00-1012		10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0991)*		
33 42 11 00-1013	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,150.92	74.55
33 42 11 00-1014	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,239.66	81.54
33 42 11 00-1015	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,325.46	87.36
33 42 11 00-1016	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,410.82	93.19
33 42 11 00-1017	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,497.16	99.01
33 42 11 00-1018	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,587.10	104.83
33 42 11 00-1019	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,679.53	116.48
33 42 11 00-1020	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,776.35	128.13
33 42 11 00-1021	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,887.55	139.78
33 42 11 00-1022		125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0877)*		
33 42 11 00-1023		12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-1022)*		
33 42 11 00-1024	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	973.55	74.55
33 42 11 00-1025	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,045.18	81.54
33 42 11 00-1026	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,112.97	87.36
33 42 11 00-1027	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,180.70	93.19
33 42 11 00-1028	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,249.69	99.01
33 42 11 00-1029	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,322.91	104.83
33 42 11 00-1030	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,398.41	116.48
33 42 11 00-1031	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,487.95	128.13
33 42 11 00-1032		10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-1022)*		
33 42 11 00-1033	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,147.11	74.55
33 42 11 00-1034	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,232.52	81.54
33 42 11 00-1035	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,314.40	87.36
33 42 11 00-1036	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,396.69	93.19
33 42 11 00-1037	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,477.52	99.01
33 42 11 00-1038	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,566.65	104.83
33 42 11 00-1039	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,656.60	116.48
33 42 11 00-1040	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,760.58	128.13
33 42 11 00-1041	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,857.87	139.78
33 42 11 00-1042		Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-0533)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1043		2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1042)*		
33 42 11 00-1044		16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1043)*		
33 42 11 00-1045	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	49.17	11.38
		For 1/2 Bituminous Coated And 25% Paved, Add	*10.31*	
33 42 11 00-1046	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	56.62	11.92
		For 1/2 Bituminous Coated And 25% Paved, Add	*12.99*	
33 42 11 00-1047	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	64.34	13.00
		For 1/2 Bituminous Coated And 25% Paved, Add	*15.74*	
33 42 11 00-1048	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	73.96	14.09
		For 1/2 Bituminous Coated And 25% Paved, Add	*18.82*	
33 42 11 00-1049	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	82.18	15.17
		For 1/2 Bituminous Coated And 25% Paved, Add	*21.20*	
33 42 11 00-1050	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	108.07	19.50
		For 1/2 Bituminous Coated And 25% Paved, Add	*27.50*	
33 42 11 00-1051	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	140.24	25.63
		For 1/2 Bituminous Coated And 25% Paved, Add	*34.70*	
33 42 11 00-1052	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	160.89	30.29
		For 1/2 Bituminous Coated And 25% Paved, Add	*41.04*	
33 42 11 00-1053	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	180.72	34.94
		For 1/2 Bituminous Coated And 25% Paved, Add	*45.98*	
33 42 11 00-1054		14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1043)*		
33 42 11 00-1055	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	54.74	11.38
		For 1/2 Bituminous Coated And 25% Paved, Add	*9.80*	
33 42 11 00-1056	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	63.50	11.92
		For 1/2 Bituminous Coated And 25% Paved, Add	*12.29*	
33 42 11 00-1057	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	72.54	13.00
		For 1/2 Bituminous Coated And 25% Paved, Add	*14.86*	
33 42 11 00-1058	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	83.47	14.09
		For 1/2 Bituminous Coated And 25% Paved, Add	*17.67*	
33 42 11 00-1059	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	93.21	15.17
		For 1/2 Bituminous Coated And 25% Paved, Add	*20.00*	
33 42 11 00-1060	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	121.57	19.50
		For 1/2 Bituminous Coated And 25% Paved, Add	*25.69*	
33 42 11 00-1061	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	156.58	25.63
		For 1/2 Bituminous Coated And 25% Paved, Add	*32.20*	
33 42 11 00-1062	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	179.69	30.29
		For 1/2 Bituminous Coated And 25% Paved, Add	*37.92*	
33 42 11 00-1063	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	202.15	34.94
		For 1/2 Bituminous Coated And 25% Paved, Add	*42.60*	
33 42 11 00-1064	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	243.03	39.60
		For 1/2 Bituminous Coated And 25% Paved, Add	*52.38*	
33 42 11 00-1065		12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1043)*		
33 42 11 00-1066	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	89.77	13.00
		For 1/2 Bituminous Coated And 25% Paved, Add	*13.85*	
33 42 11 00-1067	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	103.59	14.09
		For 1/2 Bituminous Coated And 25% Paved, Add	*16.39*	
33 42 11 00-1068	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	116.06	15.17
		For 1/2 Bituminous Coated And 25% Paved, Add	*18.57*	
33 42 11 00-1069	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	150.09	19.50
		For 1/2 Bituminous Coated And 25% Paved, Add	*23.67*	
33 42 11 00-1070	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	190.98	25.63
		For 1/2 Bituminous Coated And 25% Paved, Add	*29.37*	
33 42 11 00-1071	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	219.56	30.29
		For 1/2 Bituminous Coated And 25% Paved, Add	*34.46*	
33 42 11 00-1072	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	247.64	34.94
		For 1/2 Bituminous Coated And 25% Paved, Add	*38.86*	
33 42 11 00-1073	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	294.98	39.60
		For 1/2 Bituminous Coated And 25% Paved, Add	*46.92*	
33 42 11 00-1074	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	322.25	41.93
		For 1/2 Bituminous Coated And 25% Paved, Add	*51.31*	
33 42 11 00-1075	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	393.81	51.25
		For 1/2 Bituminous Coated And 25% Paved, Add	*63.09*	
33 42 11 00-1076		10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1043)*		
33 42 11 00-1077	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	221.92	25.63
		For 1/2 Bituminous Coated And 25% Paved, Add	*32.17*	
33 42 11 00-1078	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	255.75	30.29
		For 1/2 Bituminous Coated And 25% Paved, Add	*37.72*	
33 42 11 00-1079	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	288.72	34.94
		For 1/2 Bituminous Coated And 25% Paved, Add	*42.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1080	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	341.04	39.60
		For 1/2 Bituminous Coated And 25% Paved, Add	*50.75*	
33 42 11 00-1081	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	373.51	41.93
		For 1/2 Bituminous Coated And 25% Paved, Add	*55.66*	
33 42 11 00-1082	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	450.12	51.25
		For 1/2 Bituminous Coated And 25% Paved, Add	*67.16*	
33 42 11 00-1083	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	523.23	74.55
		For 1/2 Bituminous Coated And 25% Paved, Add	*72.00*	

33 42 11 00-1084 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1042)*

33 42 11 00-1085 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping
(33 42 11 00-1084)

33 42 11 00-1086	LF	36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	164.56	25.63
		For 1/2 Bituminous Coated And 25% Paved, Add	*38.57*	
33 42 11 00-1087	LF	42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	188.72	30.29
		For 1/2 Bituminous Coated And 25% Paved, Add	*45.30*	
33 42 11 00-1088	LF	48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	212.03	34.94
		For 1/2 Bituminous Coated And 25% Paved, Add	*50.80*	
33 42 11 00-1089	LF	54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	254.01	39.60
		For 1/2 Bituminous Coated And 25% Paved, Add	*62.05*	
33 42 11 00-1090	LF	60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	276.76	41.93
		For 1/2 Bituminous Coated And 25% Paved, Add	*67.60*	
33 42 11 00-1091	LF	66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	348.43	51.25
		For 1/2 Bituminous Coated And 25% Paved, Add	*86.83*	
33 42 11 00-1092	LF	72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	412.67	74.55
		For 1/2 Bituminous Coated And 25% Paved, Add	*92.55*	
33 42 11 00-1093	LF	78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	443.88	81.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*98.28*	
33 42 11 00-1094	LF	84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	471.95	87.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*104.03*	
33 42 11 00-1095	LF	90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	500.06	93.19
		For 1/2 Bituminous Coated And 25% Paved, Add	*109.79*	
33 42 11 00-1096	LF	96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	528.94	99.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*115.52*	
33 42 11 00-1097	LF	102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	561.18	104.83
		For 1/2 Bituminous Coated And 25% Paved, Add	*121.32*	

33 42 11 00-1098 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping
(33 42 11 00-1084)

33 42 11 00-1099	LF	54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	281.95	39.60
		For 1/2 Bituminous Coated And 25% Paved, Add	*53.77*	
33 42 11 00-1100	LF	60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	307.64	41.93
		For 1/2 Bituminous Coated And 25% Paved, Add	*58.69*	
33 42 11 00-1101	LF	66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	382.41	51.25
		For 1/2 Bituminous Coated And 25% Paved, Add	*73.90*	
33 42 11 00-1102	LF	72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	449.70	74.55
		For 1/2 Bituminous Coated And 25% Paved, Add	*78.98*	
33 42 11 00-1103	LF	78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	483.91	81.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*84.06*	
33 42 11 00-1104	LF	84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	515.13	87.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*89.19*	
33 42 11 00-1105	LF	90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	546.17	93.19
		For 1/2 Bituminous Coated And 25% Paved, Add	*94.27*	
33 42 11 00-1106	LF	96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	578.06	99.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*99.35*	
33 42 11 00-1107	LF	102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	613.28	104.83
		For 1/2 Bituminous Coated And 25% Paved, Add	*104.46*	
33 42 11 00-1108	LF	108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	651.17	116.48
		For 1/2 Bituminous Coated And 25% Paved, Add	*109.57*	
33 42 11 00-1109	LF	114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	688.26	128.13
		For 1/2 Bituminous Coated And 25% Paved, Add	*114.59*	

33 42 11 00-1110 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping
(33 42 11 00-1084)

33 42 11 00-1111	LF	60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	376.29	41.93
		For 1/2 Bituminous Coated And 25% Paved, Add	*78.73*	
33 42 11 00-1112	LF	66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	458.42	51.25
		For 1/2 Bituminous Coated And 25% Paved, Add	*96.32*	
33 42 11 00-1113	LF	72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	532.32	74.55
		For 1/2 Bituminous Coated And 25% Paved, Add	*103.31*	
33 42 11 00-1114	LF	78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	573.26	81.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*110.34*	
33 42 11 00-1115	LF	84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	611.10	87.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*117.39*	
33 42 11 00-1116	LF	90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	648.86	93.19
		For 1/2 Bituminous Coated And 25% Paved, Add	*124.41*	
33 42 11 00-1117	LF	96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	687.41	99.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*131.42*	
33 42 11 00-1118	LF	102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	729.31	104.83
		For 1/2 Bituminous Coated And 25% Paved, Add	*138.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1119	LF	108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	773.82	116.48
		For 1/2 Bituminous Coated And 25% Paved, Add	*145.49*	
33 42 11 00-1120	LF	114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	817.64	128.13
		For 1/2 Bituminous Coated And 25% Paved, Add	*152.46*	
33 42 11 00-1121	LF	120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	860.30	139.78
		For 1/2 Bituminous Coated And 25% Paved, Add	*159.51*	

33 42 11 00-1122 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping
(33 42 11 00-1084)

33 42 11 00-1123	LF	72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	609.38	74.55
		For 1/2 Bituminous Coated And 25% Paved, Add	*126.81*	
33 42 11 00-1124	LF	78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	656.51	81.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*135.69*	
33 42 11 00-1125	LF	84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	700.71	87.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*144.65*	
33 42 11 00-1126	LF	90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	744.72	93.19
		For 1/2 Bituminous Coated And 25% Paved, Add	*153.55*	
33 42 11 00-1127	LF	96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	789.68	99.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*162.47*	
33 42 11 00-1128	LF	102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	837.94	104.83
		For 1/2 Bituminous Coated And 25% Paved, Add	*171.43*	
33 42 11 00-1129	LF	108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	888.69	116.48
		For 1/2 Bituminous Coated And 25% Paved, Add	*180.33*	
33 42 11 00-1130	LF	114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	938.81	128.13
		For 1/2 Bituminous Coated And 25% Paved, Add	*189.18*	
33 42 11 00-1131	LF	120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	987.83	139.78
		For 1/2 Bituminous Coated And 25% Paved, Add	*198.14*	
33 42 11 00-1132	LF	126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,038.89	151.43
		For 1/2 Bituminous Coated And 25% Paved, Add	*207.02*	
33 42 11 00-1133	LF	132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,093.00	163.08
		For 1/2 Bituminous Coated And 25% Paved, Add	*215.96*	
33 42 11 00-1134	LF	138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,150.68	174.72
		For 1/2 Bituminous Coated And 25% Paved, Add	*224.92*	

33 42 11 00-1135 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping
(33 42 11 00-1042)

33 42 11 00-1136 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1135)*

33 42 11 00-1137	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	212.92	34.94
		For 1/2 Bituminous Coated And 25% Paved, Add	*62.93*	
33 42 11 00-1138	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	255.63	39.60
		For 1/2 Bituminous Coated And 25% Paved, Add	*77.11*	
33 42 11 00-1139	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	278.18	41.93
		For 1/2 Bituminous Coated And 25% Paved, Add	*83.86*	
33 42 11 00-1140	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	345.28	51.25
		For 1/2 Bituminous Coated And 25% Paved, Add	*105.56*	
33 42 11 00-1141	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	409.15	74.55
		For 1/2 Bituminous Coated And 25% Paved, Add	*112.45*	
33 42 11 00-1142	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	439.94	81.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*119.33*	
33 42 11 00-1143	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	467.44	87.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*126.17*	
33 42 11 00-1144	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	494.86	93.19
		For 1/2 Bituminous Coated And 25% Paved, Add	*132.96*	
33 42 11 00-1145	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	523.43	99.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*139.89*	
33 42 11 00-1146	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	555.56	104.83
		For 1/2 Bituminous Coated And 25% Paved, Add	*146.97*	

33 42 11 00-1147 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1135)*

33 42 11 00-1148	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	290.56	39.60
		For 1/2 Bituminous Coated And 25% Paved, Add	*72.70*	
33 42 11 00-1149	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	317.10	41.93
		For 1/2 Bituminous Coated And 25% Paved, Add	*79.38*	
33 42 11 00-1150	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	387.67	51.25
		For 1/2 Bituminous Coated And 25% Paved, Add	*97.69*	
33 42 11 00-1151	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	455.00	74.55
		For 1/2 Bituminous Coated And 25% Paved, Add	*104.30*	
33 42 11 00-1152	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	489.90	81.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*111.12*	
33 42 11 00-1153	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	521.28	87.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*117.83*	
33 42 11 00-1154	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	550.69	93.19
		For 1/2 Bituminous Coated And 25% Paved, Add	*123.87*	
33 42 11 00-1155	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	584.83	99.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*131.23*	
33 42 11 00-1156	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	620.27	104.83
		For 1/2 Bituminous Coated And 25% Paved, Add	*137.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1157	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	658.21	116.48
		For 1/2 Bituminous Coated And 25% Paved, Add	*144.59*	
33 42 11 00-1158	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	696.14	128.13
		For 1/2 Bituminous Coated And 25% Paved, Add	*151.39*	

33 42 11 00-1159 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1135)*

33 42 11 00-1160	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	389.85	41.93
		For 1/2 Bituminous Coated And 25% Paved, Add	*87.58*	
33 42 11 00-1161	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	467.87	51.25
		For 1/2 Bituminous Coated And 25% Paved, Add	*105.11*	
33 42 11 00-1162	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	542.83	74.55
		For 1/2 Bituminous Coated And 25% Paved, Add	*112.85*	
33 42 11 00-1163	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	584.44	81.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*120.51*	
33 42 11 00-1164	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	622.70	87.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*128.13*	
33 42 11 00-1165	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	661.36	93.19
		For 1/2 Bituminous Coated And 25% Paved, Add	*135.85*	
33 42 11 00-1166	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	700.60	99.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*143.49*	
33 42 11 00-1167	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	743.02	104.83
		For 1/2 Bituminous Coated And 25% Paved, Add	*151.14*	
33 42 11 00-1168	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	788.37	116.48
		For 1/2 Bituminous Coated And 25% Paved, Add	*158.85*	
33 42 11 00-1169	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	833.08	128.13
		For 1/2 Bituminous Coated And 25% Paved, Add	*166.51*	
33 42 11 00-1170	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	876.32	139.78
		For 1/2 Bituminous Coated And 25% Paved, Add	*174.17*	

33 42 11 00-1171 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1135)*

33 42 11 00-1172	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	626.92	74.55
		For 1/2 Bituminous Coated And 25% Paved, Add	*136.90*	
33 42 11 00-1173	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	676.36	81.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*146.80*	
33 42 11 00-1174	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	721.93	87.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*156.50*	
33 42 11 00-1175	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	767.20	93.19
		For 1/2 Bituminous Coated And 25% Paved, Add	*166.12*	
33 42 11 00-1176	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	813.58	99.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*175.81*	
33 42 11 00-1177	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	862.99	104.83
		For 1/2 Bituminous Coated And 25% Paved, Add	*185.45*	
33 42 11 00-1178	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	915.27	116.48
		For 1/2 Bituminous Coated And 25% Paved, Add	*195.14*	
33 42 11 00-1179	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	967.02	128.13
		For 1/2 Bituminous Coated And 25% Paved, Add	*204.82*	
33 42 11 00-1180	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,017.14	139.78
		For 1/2 Bituminous Coated And 25% Paved, Add	*214.45*	
33 42 11 00-1181	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,080.39	151.43
		For 1/2 Bituminous Coated And 25% Paved, Add	*227.17*	
33 42 11 00-1182	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,138.59	163.08
		For 1/2 Bituminous Coated And 25% Paved, Add	*237.64*	
33 42 11 00-1183	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,201.74	174.72
		For 1/2 Bituminous Coated And 25% Paved, Add	*248.52*	

33 42 11 00-1184 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1042)*

33 42 11 00-1185 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1184)*

33 42 11 00-1186	LF	18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	73.75	13.00
33 42 11 00-1187	LF	21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	84.83	14.09
33 42 11 00-1188	LF	24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	95.05	15.17
33 42 11 00-1189	LF	30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	123.78	19.50
33 42 11 00-1190	LF	36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	158.68	25.63
33 42 11 00-1191	LF	42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	182.16	30.29
33 42 11 00-1192	LF	48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	205.46	34.94
33 42 11 00-1193	LF	54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	244.50	39.60
33 42 11 00-1194	LF	60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	267.20	41.93

33 42 11 00-1195 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1184)*

33 42 11 00-1196	LF	18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	81.84	13.00
33 42 11 00-1197	LF	21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	94.29	14.09
33 42 11 00-1198	LF	24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	105.77	15.17
33 42 11 00-1199	LF	30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	137.17	19.50
33 42 11 00-1200	LF	36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	174.80	25.63
33 42 11 00-1201	LF	42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	201.02	30.29

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1202	LF	48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	227.00	34.94
33 42 11 00-1203	LF	54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	268.71	39.60
33 42 11 00-1204	LF	60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	294.20	41.93
33 42 11 00-1205	LF	66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	358.10	51.25
33 42 11 00-1206	LF	72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	424.33	74.55
33 42 11 00-1207	LF	78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	457.75	81.54
33 42 11 00-1208		12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1184)*		
33 42 11 00-1209	LF	30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	164.33	19.50
33 42 11 00-1210	LF	36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	207.32	25.63
33 42 11 00-1211	LF	42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	239.10	30.29
33 42 11 00-1212	LF	48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	270.44	34.94
33 42 11 00-1213	LF	54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	317.56	39.60
33 42 11 00-1214	LF	60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	348.56	41.93
33 42 11 00-1215	LF	66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	417.76	51.25
33 42 11 00-1216	LF	72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	489.35	74.55
33 42 11 00-1217	LF	78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	528.19	81.54
33 42 11 00-1218	LF	84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	563.67	87.36
33 42 11 00-1219	LF	90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	599.22	93.19
33 42 11 00-1220	LF	96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	635.47	99.01
33 42 11 00-1221	LF	102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	672.38	104.83
33 42 11 00-1222		Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-0533)*		
33 42 11 00-1223		2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1222)*		
33 42 11 00-1224		16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1223)*		
33 42 11 00-1225	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	58.51	11.92
		For 1/2 Bituminous Coated And 40% Paved, Add	*16.78*	
33 42 11 00-1226	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	66.03	13.00
		For 1/2 Bituminous Coated And 40% Paved, Add	*20.05*	
33 42 11 00-1227	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	76.27	14.09
		For 1/2 Bituminous Coated And 40% Paved, Add	*24.11*	
33 42 11 00-1228	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	86.07	15.17
		For 1/2 Bituminous Coated And 40% Paved, Add	*27.79*	
33 42 11 00-1229	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	111.59	19.50
		For 1/2 Bituminous Coated And 40% Paved, Add	*35.29*	
33 42 11 00-1230	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	146.70	25.63
		For 1/2 Bituminous Coated And 40% Paved, Add	*45.52*	
33 42 11 00-1231		14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1223)*		
33 42 11 00-1232	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	65.39	11.92
		For 1/2 Bituminous Coated And 40% Paved, Add	*17.39*	
33 42 11 00-1233	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	74.38	13.00
		For 1/2 Bituminous Coated And 40% Paved, Add	*20.83*	
33 42 11 00-1234	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	85.67	14.09
		For 1/2 Bituminous Coated And 40% Paved, Add	*24.78*	
33 42 11 00-1235	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	96.94	15.17
		For 1/2 Bituminous Coated And 40% Paved, Add	*28.57*	
33 42 11 00-1236	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	125.14	19.50
		For 1/2 Bituminous Coated And 40% Paved, Add	*36.18*	
33 42 11 00-1237	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	162.83	25.63
		For 1/2 Bituminous Coated And 40% Paved, Add	*46.10*	
33 42 11 00-1238	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	188.51	30.29
		For 1/2 Bituminous Coated And 40% Paved, Add	*54.91*	
33 42 11 00-1239		12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1223)*		
33 42 11 00-1240	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	91.40	13.00
		For 1/2 Bituminous Coated And 40% Paved, Add	*19.08*	
33 42 11 00-1241	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	105.84	14.09
		For 1/2 Bituminous Coated And 40% Paved, Add	*22.68*	
33 42 11 00-1242	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	119.79	15.17
		For 1/2 Bituminous Coated And 40% Paved, Add	*26.03*	
33 42 11 00-1243	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	153.67	19.50
		For 1/2 Bituminous Coated And 40% Paved, Add	*32.85*	
33 42 11 00-1244	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	197.28	25.63
		For 1/2 Bituminous Coated And 40% Paved, Add	*41.30*	
33 42 11 00-1245	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	228.70	30.29
		For 1/2 Bituminous Coated And 40% Paved, Add	*48.96*	
33 42 11 00-1246	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	268.60	34.94
		For 1/2 Bituminous Coated And 40% Paved, Add	*58.29*	
33 42 11 00-1247	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	299.07	39.60
		For 1/2 Bituminous Coated And 40% Paved, Add	*64.26*	

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1248		10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1223)*		
33 42 11 00-1249	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	228.22	25.63
		For 1/2 Bituminous Coated And 40% Paved, Add	*43.47*	
33 42 11 00-1250	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	264.78	30.29
		For 1/2 Bituminous Coated And 40% Paved, Add	*51.37*	
33 42 11 00-1251	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	309.52	34.94
		For 1/2 Bituminous Coated And 40% Paved, Add	*60.66*	
33 42 11 00-1252	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	345.35	39.60
		For 1/2 Bituminous Coated And 40% Paved, Add	*67.16*	
33 42 11 00-1253	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	378.19	41.93
		For 1/2 Bituminous Coated And 40% Paved, Add	*73.64*	
33 42 11 00-1254		3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1222)*		
33 42 11 00-1255		14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1254)*		
33 42 11 00-1256	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	287.46	39.60
		For 1/2 Bituminous Coated And 40% Paved, Add	*96.51*	
33 42 11 00-1257	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	314.21	41.93
		For 1/2 Bituminous Coated And 40% Paved, Add	*105.61*	
33 42 11 00-1258	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	389.98	51.25
		For 1/2 Bituminous Coated And 40% Paved, Add	*132.65*	
33 42 11 00-1259	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	458.73	74.55
		For 1/2 Bituminous Coated And 40% Paved, Add	*142.20*	
33 42 11 00-1260	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	495.52	81.54
		For 1/2 Bituminous Coated And 40% Paved, Add	*152.26*	
33 42 11 00-1261	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	529.16	87.36
		For 1/2 Bituminous Coated And 40% Paved, Add	*162.34*	
33 42 11 00-1262	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	562.72	93.19
		For 1/2 Bituminous Coated And 40% Paved, Add	*172.37*	
33 42 11 00-1263	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	597.17	99.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*182.42*	
33 42 11 00-1264		12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1254)*		
33 42 11 00-1265	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	382.91	41.93
		For 1/2 Bituminous Coated And 40% Paved, Add	*120.02*	
33 42 11 00-1266	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	466.14	51.25
		For 1/2 Bituminous Coated And 40% Paved, Add	*146.68*	
33 42 11 00-1267	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	541.67	74.55
		For 1/2 Bituminous Coated And 40% Paved, Add	*157.76*	
33 42 11 00-1268	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	585.07	81.54
		For 1/2 Bituminous Coated And 40% Paved, Add	*169.22*	
33 42 11 00-1269	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	625.49	87.36
		For 1/2 Bituminous Coated And 40% Paved, Add	*180.76*	
33 42 11 00-1270	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	665.83	93.19
		For 1/2 Bituminous Coated And 40% Paved, Add	*192.26*	
33 42 11 00-1271	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	706.90	99.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*203.72*	
33 42 11 00-1272	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	751.43	104.83
		For 1/2 Bituminous Coated And 40% Paved, Add	*215.28*	
33 42 11 00-1273	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	798.51	116.48
		For 1/2 Bituminous Coated And 40% Paved, Add	*226.79*	
33 42 11 00-1274	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	848.00	128.13
		For 1/2 Bituminous Coated And 40% Paved, Add	*239.45*	
33 42 11 00-1275		10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1254)*		
33 42 11 00-1276	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	618.67	74.55
		For 1/2 Bituminous Coated And 40% Paved, Add	*170.76*	
33 42 11 00-1277	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	668.49	81.54
		For 1/2 Bituminous Coated And 40% Paved, Add	*183.46*	
33 42 11 00-1278	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	715.20	87.36
		For 1/2 Bituminous Coated And 40% Paved, Add	*196.20*	
33 42 11 00-1279	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	761.74	93.19
		For 1/2 Bituminous Coated And 40% Paved, Add	*208.86*	
33 42 11 00-1280	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	813.42	99.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*223.08*	
33 42 11 00-1281	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	860.00	104.83
		For 1/2 Bituminous Coated And 40% Paved, Add	*234.29*	
33 42 11 00-1282	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	913.43	116.48
		For 1/2 Bituminous Coated And 40% Paved, Add	*247.01*	
33 42 11 00-1283	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	968.65	128.13
		For 1/2 Bituminous Coated And 40% Paved, Add	*260.55*	
33 42 11 00-1284	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	1,029.95	139.78
		For 1/2 Bituminous Coated And 40% Paved, Add	*276.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1285		125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1222)*		
33 42 11 00-1286		12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1285)*		
33 42 11 00-1287	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	549.44	74.55
		For 1/2 Bituminous Coated And 40% Paved, Add	*155.26*	
33 42 11 00-1288	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	592.16	81.54
		For 1/2 Bituminous Coated And 40% Paved, Add	*166.05*	
33 42 11 00-1289	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	631.42	87.36
		For 1/2 Bituminous Coated And 40% Paved, Add	*176.75*	
33 42 11 00-1290	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	670.66	93.19
		For 1/2 Bituminous Coated And 40% Paved, Add	*187.42*	
33 42 11 00-1291	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	710.89	99.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*198.15*	
33 42 11 00-1292	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	754.84	104.83
		For 1/2 Bituminous Coated And 40% Paved, Add	*209.09*	
33 42 11 00-1293	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	801.34	116.48
		For 1/2 Bituminous Coated And 40% Paved, Add	*219.96*	
33 42 11 00-1294	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	854.46	128.13
		For 1/2 Bituminous Coated And 40% Paved, Add	*233.59*	
33 42 11 00-1295		10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1285)*		
33 42 11 00-1296	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	634.75	74.55
		For 1/2 Bituminous Coated And 40% Paved, Add	*172.22*	
33 42 11 00-1297	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	684.30	81.54
		For 1/2 Bituminous Coated And 40% Paved, Add	*184.51*	
33 42 11 00-1298	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	730.44	87.36
		For 1/2 Bituminous Coated And 40% Paved, Add	*196.73*	
33 42 11 00-1299	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	776.81	93.19
		For 1/2 Bituminous Coated And 40% Paved, Add	*209.02*	
33 42 11 00-1300	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	822.88	99.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*220.90*	
33 42 11 00-1301	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	874.65	104.83
		For 1/2 Bituminous Coated And 40% Paved, Add	*233.67*	
33 42 11 00-1302	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	928.25	116.48
		For 1/2 Bituminous Coated And 40% Paved, Add	*246.13*	
33 42 11 00-1303	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	988.34	128.13
		For 1/2 Bituminous Coated And 40% Paved, Add	*261.06*	
33 42 11 00-1304	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	1,044.66	139.78
		For 1/2 Bituminous Coated And 40% Paved, Add	*275.17*	
33 42 11 00-1305		Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-0533)*		
33 42 11 00-1306		1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1305)*		
33 42 11 00-1307		18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1306)*		
33 42 11 00-1308	LF	6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	29.62	6.50
		For Bituminous Coated Pipe, Add	*3.19*	
33 42 11 00-1309	LF	8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	38.33	8.12
		For Bituminous Coated Pipe, Add	*4.33*	
33 42 11 00-1310	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	49.74	9.75
		For Bituminous Coated Pipe, Add	*5.71*	
33 42 11 00-1311		16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1306)*		
33 42 11 00-1312	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	33.28	6.50
		For Bituminous Coated Pipe, Add	*3.16*	
33 42 11 00-1313	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	43.51	8.12
		For Bituminous Coated Pipe, Add	*4.33*	
33 42 11 00-1314	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	56.64	9.75
		For Bituminous Coated Pipe, Add	*5.72*	
33 42 11 00-1315		2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1305)*		
33 42 11 00-1316		16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1315)*		
33 42 11 00-1317	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	57.58	11.38
		For Bituminous Coated Pipe, Add	*6.28*	
33 42 11 00-1318	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	67.06	11.92
		For Bituminous Coated Pipe, Add	*7.88*	
33 42 11 00-1319	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	77.13	13.00
		For Bituminous Coated Pipe, Add	*9.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1320	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	89.16	14.09
		For Bituminous Coated Pipe, Add	*11.43*	
33 42 11 00-1321	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	99.77	15.17
		For Bituminous Coated Pipe, Add	*12.96*	

33 42 11 00-1322 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1315)*

33 42 11 00-1323	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	65.43	11.38
		For Bituminous Coated Pipe, Add	*6.14*	
33 42 11 00-1324	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	77.06	11.92
		For Bituminous Coated Pipe, Add	*7.73*	
33 42 11 00-1325	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	89.12	13.00
		For Bituminous Coated Pipe, Add	*9.37*	
33 42 11 00-1326	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	103.05	14.09
		For Bituminous Coated Pipe, Add	*11.12*	
33 42 11 00-1327	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	115.72	15.17
		For Bituminous Coated Pipe, Add	*12.64*	
33 42 11 00-1328	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	150.24	19.50
		For Bituminous Coated Pipe, Add	*16.21*	
33 42 11 00-1329	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	191.43	25.63
		For Bituminous Coated Pipe, Add	*20.15*	

33 42 11 00-1330 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1315)*

33 42 11 00-1331	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	146.22	15.17
		For Bituminous Coated Pipe, Add	*12.00*	
33 42 11 00-1332	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	188.20	19.50
		For Bituminous Coated Pipe, Add	*15.26*	
33 42 11 00-1333	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	237.02	25.63
		For Bituminous Coated Pipe, Add	*18.81*	
33 42 11 00-1334	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	274.13	30.29
		For Bituminous Coated Pipe, Add	*22.13*	
33 42 11 00-1335	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	310.07	34.94
		For Bituminous Coated Pipe, Add	*25.05*	
33 42 11 00-1336	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	365.22	39.60
		For Bituminous Coated Pipe, Add	*29.71*	

33 42 11 00-1337 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1315)*

33 42 11 00-1338	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	285.62	25.63
		For Bituminous Coated Pipe, Add	*18.50*	
33 42 11 00-1339	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	330.74	30.29
		For Bituminous Coated Pipe, Add	*21.72*	
33 42 11 00-1340	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	374.96	34.94
		For Bituminous Coated Pipe, Add	*24.64*	
33 42 11 00-1341	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	438.21	39.60
		For Bituminous Coated Pipe, Add	*28.92*	
33 42 11 00-1342	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	481.95	41.93
		For Bituminous Coated Pipe, Add	*31.87*	

33 42 11 00-1343 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1305)*

33 42 11 00-1344 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1343)*

33 42 11 00-1345	LF	30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	147.76	19.50
33 42 11 00-1346	LF	36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	188.33	25.63
33 42 11 00-1347	LF	42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	216.32	30.29
33 42 11 00-1348	LF	48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	245.03	34.94
33 42 11 00-1349	LF	54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	289.86	39.60

33 42 11 00-1350 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1343)*

33 42 11 00-1351	LF	30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	167.76	19.50
33 42 11 00-1352	LF	36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	216.86	25.63
33 42 11 00-1353	LF	42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	249.43	30.29
33 42 11 00-1354	LF	48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	281.17	34.94
33 42 11 00-1355	LF	54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	332.20	39.60
33 42 11 00-1356	LF	60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	363.29	41.93
33 42 11 00-1357	LF	66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	442.23	51.25
33 42 11 00-1358	LF	72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	514.60	74.55
33 42 11 00-1359	LF	78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	553.96	81.54

33 42 11 00-1360 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1343)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1361	LF	30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	214.44	19.50
33 42 11 00-1362	LF	36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	269.36	25.63
33 42 11 00-1363	LF	42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	312.17	30.29
33 42 11 00-1364	LF	48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	353.12	34.94
33 42 11 00-1365	LF	54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	412.96	39.60
33 42 11 00-1366	LF	60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	452.73	41.93
33 42 11 00-1367	LF	66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	540.32	51.25
33 42 11 00-1368	LF	72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	621.57	74.55
33 42 11 00-1369	LF	78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	669.69	81.54
33 42 11 00-1370	LF	84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	714.74	87.36
33 42 11 00-1371	LF	90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	759.68	93.19
33 42 11 00-1372	LF	96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	805.46	99.01
33 42 11 00-1373		10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1343)*		
33 42 11 00-1374	LF	60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	546.80	41.93
33 42 11 00-1375	LF	66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	639.83	51.25
33 42 11 00-1376	LF	72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	730.02	74.55
33 42 11 00-1377	LF	78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	787.07	81.54
33 42 11 00-1378	LF	84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	840.91	87.36
33 42 11 00-1379	LF	90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	894.76	93.19
33 42 11 00-1380	LF	96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	949.41	99.01
33 42 11 00-1381	LF	102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	1,007.45	104.83
33 42 11 00-1382	LF	108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	1,068.07	116.48
33 42 11 00-1383		Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1305)*		
		Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1384		16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1383)*		
33 42 11 00-1385	LF	18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	104.05	13.00
33 42 11 00-1386	LF	21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	111.88	14.09
33 42 11 00-1387	LF	24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	135.55	15.17
33 42 11 00-1388	LF	27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	156.55	17.33
33 42 11 00-1389	LF	30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	175.15	19.50
33 42 11 00-1390	LF	33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	196.08	21.67
33 42 11 00-1391		14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1383)*		
33 42 11 00-1392	LF	18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	120.97	13.00
33 42 11 00-1393	LF	21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	140.25	14.09
33 42 11 00-1394	LF	24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	158.29	15.17
33 42 11 00-1395	LF	27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	182.08	17.33
33 42 11 00-1396	LF	30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	203.46	19.50
33 42 11 00-1397	LF	33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	227.28	21.67
33 42 11 00-1398	LF	36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	255.69	25.63
33 42 11 00-1399	LF	42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	295.88	30.29
33 42 11 00-1400	LF	48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	334.84	34.94
33 42 11 00-1401		12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1383)*		
33 42 11 00-1402	LF	30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	258.82	19.50
33 42 11 00-1403	LF	33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	288.05	21.67
33 42 11 00-1404	LF	36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	322.08	25.63
33 42 11 00-1405	LF	42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	373.41	30.29
33 42 11 00-1406	LF	48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	423.45	34.94
33 42 11 00-1407	LF	54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	588.96	39.60
33 42 11 00-1408	LF	60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	648.38	41.93
33 42 11 00-1409		10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1383)*		
33 42 11 00-1410	LF	48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	603.98	34.94
33 42 11 00-1411	LF	54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	700.27	39.60
33 42 11 00-1412	LF	60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	772.18	41.93
33 42 11 00-1413	LF	66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	896.49	51.25
33 42 11 00-1414	LF	72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,008.00	74.55
33 42 11 00-1415	LF	78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,087.38	81.54
33 42 11 00-1416	LF	84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,162.88	87.36
33 42 11 00-1417		Spiral Lockseam Aluminum Pipe-Arch *(33 42 11 00-0533)*		
33 42 11 00-1418		2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch *(33 42 11 00-1417)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1419		**16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1418)*		
33 42 11 00-1420	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	70.63	11.92
		For Bituminous Coated Pipe, Add	*7.89*	
33 42 11 00-1421	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	80.51	13.00
		For Bituminous Coated Pipe, Add	*9.43*	
33 42 11 00-1422	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	93.01	14.09
		For Bituminous Coated Pipe, Add	*11.22*	
33 42 11 00-1423		**14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1418)*		
33 42 11 00-1424	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	80.65	11.92
		For Bituminous Coated Pipe, Add	*7.87*	
33 42 11 00-1425	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	90.13	13.00
		For Bituminous Coated Pipe, Add	*9.07*	
33 42 11 00-1426	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	106.91	14.09
		For Bituminous Coated Pipe, Add	*11.14*	
33 42 11 00-1427	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	120.95	15.17
		For Bituminous Coated Pipe, Add	*12.77*	
33 42 11 00-1428	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	155.44	19.50
		For Bituminous Coated Pipe, Add	*16.16*	
33 42 11 00-1429		**12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1418)*		
33 42 11 00-1430	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	151.46	15.17
		For Bituminous Coated Pipe, Add	*12.18*	
33 42 11 00-1431	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	193.50	19.50
		For Bituminous Coated Pipe, Add	*15.35*	
33 42 11 00-1432	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	245.98	25.63
		For Bituminous Coated Pipe, Add	*19.16*	
33 42 11 00-1433	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	285.93	30.29
		For Bituminous Coated Pipe, Add	*22.66*	
33 42 11 00-1434		**10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1418)*		
33 42 11 00-1435	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	294.51	25.63
		For Bituminous Coated Pipe, Add	*18.49*	
33 42 11 00-1436	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	342.63	30.29
		For Bituminous Coated Pipe, Add	*21.82*	
33 42 11 00-1437	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	398.83	34.94
		For Bituminous Coated Pipe, Add	*25.56*	
33 42 11 00-1438	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	446.05	39.60
		For Bituminous Coated Pipe, Add	*28.44*	
33 42 11 00-1439		**3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1417)*		
33 42 11 00-1440		**14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1439)*		
33 42 11 00-1441	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	340.04	39.60
33 42 11 00-1442	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	372.41	41.93
33 42 11 00-1443	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	453.51	51.25
33 42 11 00-1444		**12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1439)*		
33 42 11 00-1445	LF	60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	420.81	39.60
33 42 11 00-1446	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	461.85	41.93
33 42 11 00-1447	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	551.20	51.25
33 42 11 00-1448	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	633.28	74.55
33 42 11 00-1449	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	682.21	81.54
33 42 11 00-1450	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	728.09	87.36
33 42 11 00-1451		**10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1439)*		
33 42 11 00-1452	LF	66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	555.79	41.93
33 42 11 00-1453	LF	73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	650.31	51.25
33 42 11 00-1454	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	741.29	74.55
33 42 11 00-1455	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	799.17	81.54
33 42 11 00-1456	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	853.84	87.36
33 42 11 00-1457	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	908.49	93.19
33 42 11 00-1458		**Corrugated Steel Pipe Fittings** *(33 42 11 00-0533)* Note: Equivalent pipe-arch sizes are approximate.		
33 42 11 00-1459		**Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings** *(33 42 11 00-1458)* Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1460	EA	Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	96.25	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1461	EA	Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	120.71	
33 42 11 00-1462	EA	Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	145.16	
33 42 11 00-1463	EA	Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	171.14	
33 42 11 00-1464	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	207.80	
33 42 11 00-1465	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	244.45	
33 42 11 00-1466	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	281.14	
33 42 11 00-1467	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	317.79	
33 42 11 00-1468	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	414.07	
33 42 11 00-1469	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	493.50	
33 42 11 00-1470	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	572.97	
33 42 11 00-1471	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	741.04	
33 42 11 00-1472	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	835.78	
33 42 11 00-1473	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	933.56	
33 42 11 00-1474	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	1,034.40	
33 42 11 00-1475	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe)	1,260.54	
33 42 11 00-1476	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe)	1,375.12	
33 42 11 00-1477	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe)	1,492.76	
33 42 11 00-1478	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,831.96	
33 42 11 00-1479	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,966.43	
33 42 11 00-1480	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	2,102.41	
33 42 11 00-1481	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	2,238.38	
33 42 11 00-1482	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	2,372.84	
33 42 11 00-1483	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	2,508.83	
33 42 11 00-1484	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,652.21	
33 42 11 00-1485	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,803.77	
33 42 11 00-1486	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,963.97	

33 42 11 00-1487 Fabricate Corrugated Steel Pipe Tees Or Laterals *(33 42 11 00-1458)*

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1488	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	125.29	
33 42 11 00-1489	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	160.43	
33 42 11 00-1490	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	195.55	
33 42 11 00-1491	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	230.72	
33 42 11 00-1492	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	281.14	
33 42 11 00-1493	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	333.07	
33 42 11 00-1494	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	385.05	
33 42 11 00-1495	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	436.96	
33 42 11 00-1496	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	572.97	
33 42 11 00-1497	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	682.98	
33 42 11 00-1498	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	794.51	
33 42 11 00-1499	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	1,031.33	
33 42 11 00-1500	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,161.21	
33 42 11 00-1501	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,295.65	
33 42 11 00-1502	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,433.17	
33 42 11 00-1503	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	1,747.91	
33 42 11 00-1504	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,903.78	
33 42 11 00-1505	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,062.67	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1506	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe)	2,537.83	
33 42 11 00-1507	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe)	2,719.66	
33 42 11 00-1508	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe)	2,901.49	
33 42 11 00-1509	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe)	3,084.82	
33 42 11 00-1510	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe)	3,268.19	
33 42 11 00-1511	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe)	3,449.98	
33 42 11 00-1512	EA	Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe)	3,641.92	
33 42 11 00-1513	EA	Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	3,844.52	
33 42 11 00-1514	EA	Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	4,058.37	

33 42 11 00-1515 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting *(33 42 11 00-1458)*

Note: Applied to pipe tasks.

33 42 11 00-1516	EA	Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting	48.16	
33 42 11 00-1517	EA	Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting	60.59	
33 42 11 00-1518	EA	Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting	76.21	
33 42 11 00-1519	EA	Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting	93.32	
33 42 11 00-1520	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	118.09	
33 42 11 00-1521	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	144.60	
33 42 11 00-1522	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	169.38	
33 42 11 00-1523	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	196.78	
33 42 11 00-1524	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	241.69	
33 42 11 00-1525	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	288.17	
33 42 11 00-1526	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	343.85	
33 42 11 00-1527	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	422.97	
33 42 11 00-1528	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	478.75	
33 42 11 00-1529	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	539.15	
33 42 11 00-1530	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	653.82	
33 42 11 00-1531	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	725.07	
33 42 11 00-1532	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	884.66	
33 42 11 00-1533	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	963.70	
33 42 11 00-1534	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,047.40	
33 42 11 00-1535	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,129.45	
33 42 11 00-1536	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,213.12	
33 42 11 00-1537	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,298.32	
33 42 11 00-1538	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,382.01	
33 42 11 00-1539	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,465.66	
33 42 11 00-1540	EA	Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,554.37	
33 42 11 00-1541	EA	Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,648.43	
33 42 11 00-1542	EA	Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,748.20	

33 42 11 00-1543 Saddles, Corrugated Steel Pipe Fitting *(33 42 11 00-1458)*

33 42 11 00-1544	EA	6" Saddle, Corrugated Steel Pipe Fitting	301.35	
33 42 11 00-1545	EA	8" Saddle, Corrugated Steel Pipe Fitting	340.01	
33 42 11 00-1546	EA	10" Saddle, Corrugated Steel Pipe Fitting	391.02	
33 42 11 00-1547	EA	12" Saddle, Corrugated Steel Pipe Fitting	478.57	
33 42 11 00-1548	EA	15" Saddle, Corrugated Steel Pipe Fitting	590.83	
33 42 11 00-1549	EA	18" Saddle, Corrugated Steel Pipe Fitting	705.47	
33 42 11 00-1550	EA	21" Saddle, Corrugated Steel Pipe Fitting	889.80	
33 42 11 00-1551	EA	24" Saddle, Corrugated Steel Pipe Fitting	1,057.82	
33 42 11 00-1552	EA	30" Saddle, Corrugated Steel Pipe Fitting	1,329.54	
33 42 11 00-1553	EA	36" Saddle, Corrugated Steel Pipe Fitting	1,715.41	
33 42 11 00-1554	EA	42" Saddle, Corrugated Steel Pipe Fitting	2,025.90	
33 42 11 00-1555	EA	48" Saddle, Corrugated Steel Pipe Fitting	2,383.10	
33 42 11 00-1556	EA	54" Saddle, Corrugated Steel Pipe Fitting	2,835.89	
33 42 11 00-1557	EA	60" Saddle, Corrugated Steel Pipe Fitting	3,361.76	
33 42 11 00-1558	EA	66" Saddle, Corrugated Steel Pipe Fitting	3,829.21	
33 42 11 00-1559	EA	72" Saddle, Corrugated Steel Pipe Fitting	4,269.78	
33 42 11 00-1560	EA	78" Saddle, Corrugated Steel Pipe Fitting	5,010.20	
33 42 11 00-1561	EA	84" Saddle, Corrugated Steel Pipe Fitting	5,534.62	
33 42 11 00-1562	EA	90" Saddle, Corrugated Steel Pipe Fitting	6,553.14	
33 42 11 00-1563	EA	96" Saddle, Corrugated Steel Pipe Fitting	7,244.19	
33 42 11 00-1564	EA	102" Saddle, Corrugated Steel Pipe Fitting	8,220.16	
33 42 11 00-1565	EA	108" Saddle, Corrugated Steel Pipe Fitting	9,329.29	
33 42 11 00-1566	EA	114" Saddle, Corrugated Steel Pipe Fitting	10,586.77	
33 42 11 00-1567	EA	120" Saddle, Corrugated Steel Pipe Fitting	12,012.15	

33 42 11 00-1568 Coupling Bands, Corrugated Metal Pipe Fitting *(33 42 11 00-1458)*

33 42 11 00-1569	EA	6" Coupling Band, Corrugated Metal Pipe Fitting	18.28	
		For Bituminous Coated, Add	*5.30*	
33 42 11 00-1570	EA	8" Coupling Band, Corrugated Metal Pipe Fitting	24.27	
		For Bituminous Coated, Add	*7.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1571	EA	10" Coupling Band, Corrugated Metal Pipe Fitting	30.57	
		For Bituminous Coated, Add	*8.87*	
33 42 11 00-1572	EA	12" Coupling Band, Corrugated Metal Pipe Fitting	50.74	
		For Bituminous Coated, Add	*14.71*	
33 42 11 00-1573	EA	15" Coupling Band, Corrugated Metal Pipe Fitting	63.98	
		For Bituminous Coated, Add	*18.55*	
33 42 11 00-1574	EA	18" Coupling Band, Corrugated Metal Pipe Fitting	93.86	
		For Bituminous Coated, Add	*27.22*	
33 42 11 00-1575	EA	21" Coupling Band, Corrugated Metal Pipe Fitting	111.41	
		For Bituminous Coated, Add	*32.31*	
33 42 11 00-1576	EA	24" Coupling Band, Corrugated Metal Pipe Fitting	126.32	
		For Bituminous Coated, Add	*36.63*	
33 42 11 00-1577	EA	30" Coupling Band, Corrugated Metal Pipe Fitting	218.61	
		For Bituminous Coated, Add	*63.40*	
33 42 11 00-1578	EA	36" Coupling Band, Corrugated Metal Pipe Fitting	349.77	
		For Bituminous Coated, Add	*83.94*	
33 42 11 00-1579	EA	42" Coupling Band, Corrugated Metal Pipe Fitting	410.96	
		For Bituminous Coated, Add	*98.63*	
33 42 11 00-1580	EA	48" Coupling Band, Corrugated Metal Pipe Fitting	460.50	
		For Bituminous Coated, Add	*110.52*	
33 42 11 00-1581	EA	54" Coupling Band, Corrugated Metal Pipe Fitting	653.06	
		For Bituminous Coated, Add	*156.73*	
33 42 11 00-1582	EA	60" Coupling Band, Corrugated Metal Pipe Fitting	934.07	
		For Bituminous Coated, Add	*168.13*	
33 42 11 00-1583	EA	66" Coupling Band, Corrugated Metal Pipe Fitting	1,147.96	
		For Bituminous Coated, Add	*206.63*	
33 42 11 00-1584	EA	72" Coupling Band, Corrugated Metal Pipe Fitting	1,474.61	
		For Bituminous Coated, Add	*206.45*	
33 42 11 00-1585	EA	78" Coupling Band, Corrugated Metal Pipe Fitting	1,577.20	
		For Bituminous Coated, Add	*220.81*	
33 42 11 00-1586	EA	84" Coupling Band, Corrugated Metal Pipe Fitting	1,680.36	
		For Bituminous Coated, Add	*235.25*	
33 42 11 00-1587	EA	90" Coupling Band, Corrugated Metal Pipe Fitting	1,783.00	
		For Bituminous Coated, Add	*249.62*	
33 42 11 00-1588	EA	96" Coupling Band, Corrugated Metal Pipe Fitting	1,885.89	
		For Bituminous Coated, Add	*264.02*	
33 42 11 00-1589	EA	102" Coupling Band, Corrugated Metal Pipe Fitting	1,989.05	
		For Bituminous Coated, Add	*278.47*	
33 42 11 00-1590	EA	108" Coupling Band, Corrugated Metal Pipe Fitting	2,091.74	
		For Bituminous Coated, Add	*292.84*	
33 42 11 00-1591	EA	114" Coupling Band, Corrugated Metal Pipe Fitting	2,477.44	
		For Bituminous Coated, Add	*297.29*	
33 42 11 00-1592	EA	120" Coupling Band, Corrugated Metal Pipe Fitting	2,296.96	
		For Bituminous Coated, Add	*275.64*	
33 42 11 00-1593	EA	126" Coupling Band, Corrugated Metal Pipe Fitting	2,399.34	
		For Bituminous Coated, Add	*287.92*	
33 42 11 00-1594	EA	132" Coupling Band, Corrugated Metal Pipe Fitting	2,502.44	
		For Bituminous Coated, Add	*300.29*	
33 42 11 00-1595	EA	138" Coupling Band, Corrugated Metal Pipe Fitting	2,605.66	
		For Bituminous Coated, Add	*312.68*	

33 42 11 00-1596 90 Degree Bends, Galvanized Corrugated Metal Pipe Fitting *(33 42 11 00-1458)*

33 42 11 00-1597	EA	12" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	458.53	130.01
33 42 11 00-1598	EA	15" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	558.84	162.51
33 42 11 00-1599	EA	18" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	655.98	216.68
33 42 11 00-1600	EA	24" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	950.08	303.35
33 42 11 00-1601	EA	30" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	1,155.49	346.68
33 42 11 00-1602	EA	36" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	1,598.05	396.03
33 42 11 00-1603	EA	42" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	1,894.12	465.92
33 42 11 00-1604	EA	48" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	2,169.36	465.92
33 42 11 00-1605	EA	54" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	2,644.87	652.28
33 42 11 00-1606	EA	60" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	3,003.86	652.28
33 42 11 00-1607	EA	66" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	3,622.78	815.36
33 42 11 00-1608	EA	72" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	3,868.97	867.77
33 42 11 00-1609	EA	78" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	4,798.35	1,087.11
33 42 11 00-1610	EA	84" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	5,339.90	1,164.80

33 42 11 00-1611 Wyes Or Tees, Galvanized Corrugated Metal Pipe Fitting *(33 42 11 00-1458)*

33 42 11 00-1612	EA	12" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	667.44	173.34
33 42 11 00-1613	EA	15" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	769.65	216.68
33 42 11 00-1614	EA	18" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	896.49	281.68
33 42 11 00-1615	EA	24" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	1,286.79	390.02
33 42 11 00-1616	EA	30" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	1,693.84	455.02
33 42 11 00-1617	EA	36" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	2,326.29	535.81
33 42 11 00-1618	EA	42" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	2,761.40	628.99
33 42 11 00-1619	EA	48" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	3,220.72	628.99
33 42 11 00-1620	EA	54" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	3,868.30	861.95
33 42 11 00-1621	EA	60" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	4,360.67	861.95
33 42 11 00-1622	EA	66" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	5,144.77	1,094.91
33 42 11 00-1623	EA	72" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	5,431.98	1,164.80
33 42 11 00-1624	EA	78" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	6,992.55	1,450.18

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1625	EA	84" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	8,117.70	1,560.83
33 42 11 00-1626		**Galvanized Culvert-End Bar Grate System** *(33 42 11 00-0533)*		
33 42 11 00-1627	SF	Galvanized Culvert-End Bar Grate System	634.84	2.89
33 42 11 00-1628	SF	Heavy-Duty Galvanized Culvert-End Bar Grate System	38.67	2.89
33 42 11 00-1629		**Galvanized Tapered Adapter Sleeves** *(33 42 11 00-0533)*		
33 42 11 00-1630	EA	12" Galvanized Tapered Adapter Sleeves	506.31	75.84
33 42 11 00-1631	EA	15" Galvanized Tapered Adapter Sleeves	626.25	81.25
33 42 11 00-1632	EA	18" Galvanized Tapered Adapter Sleeves	705.28	86.67
33 42 11 00-1633	EA	21" Galvanized Tapered Adapter Sleeves	797.18	94.79
33 42 11 00-1634	EA	24" Galvanized Tapered Adapter Sleeves	887.81	102.92
33 42 11 00-1635	EA	30" Galvanized Tapered Adapter Sleeves	1,078.58	116.47
33 42 11 00-1636	EA	36" Galvanized Tapered Adapter Sleeves	1,302.03	132.71
33 42 11 00-1637		**Concrete Pipe Collar** *(33 42 11)*		
33 42 11 00-1638	EA	8" Diameter Pipe, Concrete Pipe Collar	705.90	
33 42 11 00-1639	EA	10" Diameter Pipe, Concrete Pipe Collar	789.80	
33 42 11 00-1640	EA	12" Diameter Pipe, Concrete Pipe Collar	879.91	
33 42 11 00-1641	EA	15" Diameter Pipe, Concrete Pipe Collar	986.51	
33 42 11 00-1642	EA	18" Diameter Pipe, Concrete Pipe Collar	1,100.66	
33 42 11 00-1643	EA	21" Diameter Pipe, Concrete Pipe Collar	1,222.76	
33 42 11 00-1644	EA	24" Diameter Pipe, Concrete Pipe Collar	1,352.51	
33 42 11 00-1645	EA	27" Diameter Pipe, Concrete Pipe Collar	1,486.99	
33 42 11 00-1646	EA	30" Diameter Pipe, Concrete Pipe Collar	1,621.45	
33 42 11 00-1647	EA	36" Diameter Pipe, Concrete Pipe Collar	1,890.58	
33 42 11 00-1648	EA	42" Diameter Pipe, Concrete Pipe Collar	2,160.67	
33 42 11 00-1649	EA	48" Diameter Pipe, Concrete Pipe Collar	2,431.75	
33 42 11 00-1650	EA	54" Diameter Pipe, Concrete Pipe Collar	2,700.88	
33 42 11 00-1651	EA	60" Diameter Pipe, Concrete Pipe Collar	2,970.97	
33 42 11 00-1652	EA	66" Diameter Pipe, Concrete Pipe Collar	3,271.99	
33 42 11 00-1653	EA	72" Diameter Pipe, Concrete Pipe Collar	3,573.00	
33 42 11 00-1654	EA	78" Diameter Pipe, Concrete Pipe Collar	3,874.02	
33 42 11 00-1655	EA	84" Diameter Pipe, Concrete Pipe Collar	4,175.05	
33 42 11 00-1656	EA	90" Diameter Pipe, Concrete Pipe Collar	4,476.07	
33 42 11 00-1657	EA	96" Diameter Pipe, Concrete Pipe Collar	4,777.08	
33 42 11 00-1658	EA	102" Diameter Pipe, Concrete Pipe Collar	5,078.10	
33 42 11 00-1659	EA	108" Diameter Pipe, Concrete Pipe Collar	5,379.12	
33 42 11 00-1660	EA	114" Diameter Pipe, Concrete Pipe Collar	5,680.14	
33 42 11 00-1661	EA	120" Diameter Pipe, Concrete Pipe Collar	5,981.15	
33 42 11 00-1662		**Concrete Drainage Pipe Lug** *(33 42 11)*		
33 42 11 00-1663	EA	12" Diameter Pipe, Concrete Pipe Lug	425.96	
33 42 11 00-1664	EA	15" Diameter Pipe, Concrete Pipe Lug	496.80	
33 42 11 00-1665	EA	18" Diameter Pipe, Concrete Pipe Lug	567.32	
33 42 11 00-1666	EA	21" Diameter Pipe, Concrete Pipe Lug	638.18	
33 42 11 00-1667	EA	24" Diameter Pipe, Concrete Pipe Lug	708.68	
33 42 11 00-1668	EA	27" Diameter Pipe, Concrete Pipe Lug	779.45	
33 42 11 00-1669	EA	30" Diameter Pipe, Concrete Pipe Lug	850.21	
33 42 11 00-1670	EA	36" Diameter Pipe, Concrete Pipe Lug	991.58	
33 42 11 00-1671	EA	42" Diameter Pipe, Concrete Pipe Lug	1,131.81	
33 42 11 00-1672	EA	48" Diameter Pipe, Concrete Pipe Lug	1,273.18	
33 42 11 00-1673	EA	54" Diameter Pipe, Concrete Pipe Lug	1,414.54	
33 42 11 00-1674	EA	60" Diameter Pipe, Concrete Pipe Lug	1,555.91	
33 42 11 00-1675	EA	66" Diameter Pipe, Concrete Pipe Lug	1,697.27	

33 42 13 Stormwater Culverts *(33 42)*

33 42 13 13 Precast Concrete Stormwater Culverts *(33 42 13)*

33 42 13 13-0001 Precast Reinforced Concrete Box Culvert *(33 42 13 13)*

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-1187 for crane lifting equipment.

33 42 13 13-0002	LF	3' x 3' Precast Reinforced Concrete Box Culvert	465.86	58.24
		For Each LF Of Cut-Off Section, Add	*18.63*	
33 42 13 13-0003	LF	4' x 2' Precast Reinforced Concrete Box Culvert	525.06	58.24
		For Each LF Of Cut-Off Section, Add	*21.00*	
33 42 13 13-0004	LF	4' x 3' Precast Reinforced Concrete Box Culvert	620.68	58.24
		For Each LF Of Cut-Off Section, Add	*24.83*	
33 42 13 13-0005	LF	5' x 3' Precast Reinforced Concrete Box Culvert	745.11	72.80
		For Each LF Of Cut-Off Section, Add	*29.80*	
33 42 13 13-0006	LF	5' x 4' Precast Reinforced Concrete Box Culvert	763.33	72.80
		For Each LF Of Cut-Off Section, Add	*30.53*	
33 42 13 13-0007	LF	5' x 5' Precast Reinforced Concrete Box Culvert	772.43	72.80
		For Each LF Of Cut-Off Section, Add	*30.90*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0008	LF	6' x 3' Precast Reinforced Concrete Box Culvert	796.41	75.71
		For Each LF Of Cut-Off Section, Add	*31.86*	
33 42 13 13-0009	LF	6' x 4' Precast Reinforced Concrete Box Culvert	800.96	75.71
		For Each LF Of Cut-Off Section, Add	*32.04*	
33 42 13 13-0010	LF	6' x 6' Precast Reinforced Concrete Box Culvert	882.92	75.71
		For Each LF Of Cut-Off Section, Add	*35.32*	
33 42 13 13-0011	LF	7' x 4' Precast Reinforced Concrete Box Culvert	905.97	87.36
		For Each LF Of Cut-Off Section, Add	*36.24*	
33 42 13 13-0012	LF	7' x 6' Precast Reinforced Concrete Box Culvert	968.20	118.81
		For Each LF Of Cut-Off Section, Add	*38.73*	
33 42 13 13-0013	LF	8' x 2' Precast Reinforced Concrete Box Culvert	887.48	75.71
		For Each LF Of Cut-Off Section, Add	*35.50*	
33 42 13 13-0014	LF	8' x 3' Precast Reinforced Concrete Box Culvert	910.53	87.36
		For Each LF Of Cut-Off Section, Add	*36.42*	
33 42 13 13-0015	LF	8' x 4' Precast Reinforced Concrete Box Culvert	924.19	87.36
		For Each LF Of Cut-Off Section, Add	*36.97*	
33 42 13 13-0016	LF	8' x 5' Precast Reinforced Concrete Box Culvert	1,114.77	116.48
		For Each LF Of Cut-Off Section, Add	*44.59*	
33 42 13 13-0017	LF	8' x 6' Precast Reinforced Concrete Box Culvert	1,118.41	116.48
		For Each LF Of Cut-Off Section, Add	*44.74*	
33 42 13 13-0018	LF	8' x 8' Precast Reinforced Concrete Box Culvert	1,237.05	145.60
		For Each LF Of Cut-Off Section, Add	*49.48*	
33 42 13 13-0019	LF	9' x 4' Precast Reinforced Concrete Box Culvert	1,232.25	116.48
		For Each LF Of Cut-Off Section, Add	*49.29*	
33 42 13 13-0020	LF	9' x 6' Precast Reinforced Concrete Box Culvert	1,303.53	145.60
		For Each LF Of Cut-Off Section, Add	*52.14*	
33 42 13 13-0021	LF	10' x 3' Precast Reinforced Concrete Box Culvert	1,308.08	145.60
		For Each LF Of Cut-Off Section, Add	*52.32*	
33 42 13 13-0022	LF	10' x 4' Precast Reinforced Concrete Box Culvert	1,590.40	145.60
		For Each LF Of Cut-Off Section, Add	*63.62*	
33 42 13 13-0023	LF	10' x 5' Precast Reinforced Concrete Box Culvert	1,666.24	174.72
		For Each LF Of Cut-Off Section, Add	*66.65*	
33 42 13 13-0024	LF	10' x 6' Precast Reinforced Concrete Box Culvert	1,684.45	174.72
		For Each LF Of Cut-Off Section, Add	*67.38*	
33 42 13 13-0025	LF	10' x 7' Precast Reinforced Concrete Box Culvert	1,689.00	174.72
		For Each LF Of Cut-Off Section, Add	*67.56*	
33 42 13 13-0026	LF	10' x 8' Precast Reinforced Concrete Box Culvert	1,695.38	174.72
		For Each LF Of Cut-Off Section, Add	*67.82*	
33 42 13 13-0027	LF	12' x 3' Precast Reinforced Concrete Box Culvert	1,760.28	203.84
		For Each LF Of Cut-Off Section, Add	*70.41*	
33 42 13 13-0028	LF	12' x 4' Precast Reinforced Concrete Box Culvert	1,760.28	203.84
		For Each LF Of Cut-Off Section, Add	*70.41*	
33 42 13 13-0029	LF	12' x 6' Precast Reinforced Concrete Box Culvert	1,760.28	203.84
		For Each LF Of Cut-Off Section, Add	*70.41*	
33 42 13 13-0030	LF	12' x 8' Precast Reinforced Concrete Box Culvert	1,760.28	203.84
		For Each LF Of Cut-Off Section, Add	*70.41*	
33 42 13 13-0031	LF	16' x 10' Precast Reinforced Concrete Box Culvert	2,564.68	232.96
		For Each LF Of Cut-Off Section, Add	*102.59*	
33 42 13 13-0032	LF	24' x 10' Precast Reinforced Concrete Box Culvert	3,566.45	232.96
		For Each LF Of Cut-Off Section, Add	*142.66*	

33 42 13 13-0033 Precast Reinforced Concrete Box Culvert For Roadways *(33 42 13 13)*

Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-1187 for crane lifting equipment.

33 42 13 13-0034	LF	3' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,163.00	58.24
		For Each LF Of Cut-Off Section, Add	*46.52*	
33 42 13 13-0035	LF	4' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,250.47	58.24
		For Each LF Of Cut-Off Section, Add	*50.02*	
33 42 13 13-0036	LF	4' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,405.28	58.24
		For Each LF Of Cut-Off Section, Add	*56.21*	
33 42 13 13-0037	LF	5' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,588.87	72.80
		For Each LF Of Cut-Off Section, Add	*63.55*	
33 42 13 13-0038	LF	5' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,743.68	72.80
		For Each LF Of Cut-Off Section, Add	*69.75*	
33 42 13 13-0039	LF	5' x 5' Precast Reinforced Concrete Box Culvert For Roadways	1,898.49	72.80
		For Each LF Of Cut-Off Section, Add	*75.94*	
33 42 13 13-0040	LF	6' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,749.44	75.71
		For Each LF Of Cut-Off Section, Add	*69.98*	
33 42 13 13-0041	LF	6' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,904.25	75.71
		For Each LF Of Cut-Off Section, Add	*76.17*	
33 42 13 13-0042	LF	6' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,213.87	75.71
		For Each LF Of Cut-Off Section, Add	*88.55*	
33 42 13 13-0043	LF	7' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,082.11	87.36
		For Each LF Of Cut-Off Section, Add	*83.28*	
33 42 13 13-0044	LF	7' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,453.92	118.81
		For Each LF Of Cut-Off Section, Add	*98.16*	
33 42 13 13-0045	LF	8' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,904.25	75.71
		For Each LF Of Cut-Off Section, Add	*76.17*	
33 42 13 13-0046	LF	8' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,082.11	87.36
		For Each LF Of Cut-Off Section, Add	*83.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0047	LF	8' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,236.92	87.36
		For Each LF Of Cut-Off Section, Add	*89.48*	
33 42 13 13-0048	LF	8' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,449.31	116.48
		For Each LF Of Cut-Off Section, Add	*97.97*	
33 42 13 13-0049	LF	8' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,604.12	116.48
		For Each LF Of Cut-Off Section, Add	*104.16*	
33 42 13 13-0050	LF	8' x 8' Precast Reinforced Concrete Box Culvert For Roadways	2,971.36	145.60
		For Each LF Of Cut-Off Section, Add	*118.85*	
33 42 13 13-0051	LF	9' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,629.46	116.48
		For Each LF Of Cut-Off Section, Add	*105.18*	
33 42 13 13-0052	LF	9' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,017.95	145.60
		For Each LF Of Cut-Off Section, Add	*120.72*	
33 42 13 13-0053	LF	10' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,984.26	145.60
		For Each LF Of Cut-Off Section, Add	*119.37*	
33 42 13 13-0054	LF	10' x 4' Precast Reinforced Concrete Box Culvert For Roadways	3,168.09	145.60
		For Each LF Of Cut-Off Section, Add	*126.72*	
33 42 13 13-0055	LF	10' x 5' Precast Reinforced Concrete Box Culvert For Roadways	3,409.52	174.72
		For Each LF Of Cut-Off Section, Add	*136.38*	
33 42 13 13-0056	LF	10' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,593.35	174.72
		For Each LF Of Cut-Off Section, Add	*143.73*	
33 42 13 13-0057	LF	10' x 7' Precast Reinforced Concrete Box Culvert For Roadways	3,777.20	174.72
		For Each LF Of Cut-Off Section, Add	*151.09*	
33 42 13 13-0058	LF	10' x 8' Precast Reinforced Concrete Box Culvert For Roadways	3,961.03	174.72
		For Each LF Of Cut-Off Section, Add	*158.44*	
33 42 13 13-0059	LF	12' x 3' Precast Reinforced Concrete Box Culvert For Roadways	3,956.09	203.84
		For Each LF Of Cut-Off Section, Add	*158.24*	
33 42 13 13-0060	LF	12' x 4' Precast Reinforced Concrete Box Culvert For Roadways	4,165.04	203.84
		For Each LF Of Cut-Off Section, Add	*166.60*	
33 42 13 13-0061	LF	12' x 6' Precast Reinforced Concrete Box Culvert For Roadways	4,583.02	203.84
		For Each LF Of Cut-Off Section, Add	*183.32*	
33 42 13 13-0062	LF	12' x 8' Precast Reinforced Concrete Box Culvert For Roadways	5,000.99	203.84
		For Each LF Of Cut-Off Section, Add	*200.04*	
33 42 13 13-0063	LF	16' x 10' Precast Reinforced Concrete Box Culvert For Roadways	5,987.43	232.96
		For Each LF Of Cut-Off Section, Add	*239.50*	
33 42 13 13-0064	LF	24' x 10' Precast Reinforced Concrete Box Culvert For Roadways	7,566.42	232.96
		For Each LF Of Cut-Off Section, Add	*302.66*	

33 42 23 Headwalls and Endwalls for Stormwater Piping *(33 42)*

33 42 23 00-0001 Headwalls *(33 42 23)*

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002 Cast In Place Concrete Headwalls *(33 42 23 00-0001)*

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003 Skewed Wingwall, Cast In Place Concrete Headwall *(33 42 23 00-0002)*

Note: Sized by pipe diameter.

33 42 23 00-0004	EA	12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,730.55	774.81
33 42 23 00-0005	EA	15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,179.84	826.46
33 42 23 00-0006	EA	18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,848.19	1,082.54
33 42 23 00-0007	EA	24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,453.86	1,549.61
33 42 23 00-0008	EA	30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,190.69	2,066.15
33 42 23 00-0009	EA	36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	7,509.50	2,723.40
33 42 23 00-0010	EA	42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	10,337.07	3,756.59
33 42 23 00-0011	EA	48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	12,290.53	4,427.40
33 42 23 00-0012	EA	54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	14,784.41	5,390.00
33 42 23 00-0013	EA	60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	17,739.42	6,524.65

33 42 23 00-0014 Straight, Single Pipe, Cast In Place Concrete Headwall *(33 42 23 00-0002)*

Note: Sized by pipe diameter.

33 42 23 00-0015	EA	12" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	1,099.70	666.60
33 42 23 00-0016	EA	15" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	1,421.87	778.26
33 42 23 00-0017	EA	18" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	1,828.65	1,029.78
33 42 23 00-0018	EA	24" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	2,855.10	1,567.67
33 42 23 00-0019	EA	30" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	3,928.73	2,107.80
33 42 23 00-0020	EA	36" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	5,523.12	2,906.53

33 42 23 00-0021 Straight, Double Pipe, Cast In Place Concrete Headwall *(33 42 23 00-0002)*

Note: Sized by pipe diameter.

33 42 23 00-0022	EA	12" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	1,470.58	833.33
33 42 23 00-0023	EA	15" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	1,886.28	1,074.12
33 42 23 00-0024	EA	18" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	2,507.51	1,411.10
33 42 23 00-0025	EA	24" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	3,861.93	2,124.85
33 42 23 00-0026	EA	30" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	5,348.60	2,867.12
33 42 23 00-0027	EA	36" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	7,531.42	3,964.62

33 42 23 00-0028 Precast Concrete Headwalls *(33 42 23 00-0001)*

33 42 23 00-0029	EA	12" Pipe, Precast Concrete Headwall	944.37	195.01
33 42 23 00-0030	EA	15" Pipe, Precast Concrete Headwall	976.87	205.84
33 42 23 00-0031	EA	18" Pipe, Precast Concrete Headwall	1,075.18	234.01

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 23 00-0032	EA	24" Pipe, Precast Concrete Headwall	1,187.93	249.18
33 42 23 00-0033	EA	30" Pipe, Precast Concrete Headwall	1,596.35	292.51
33 42 23 00-0034	EA	36" Pipe, Precast Concrete Headwall	1,792.97	303.35
33 42 23 00-0035	EA	42" Pipe, Precast Concrete Headwall	2,363.96	359.46
33 42 23 00-0036	EA	48" Pipe, Precast Concrete Headwall	2,610.44	396.03
33 42 23 00-0037	EA	54" Pipe, Precast Concrete Headwall	2,881.24	419.33
33 42 23 00-0038	EA	60" Pipe, Precast Concrete Headwall	3,269.97	419.33
33 42 23 00-0039	EA	72" Pipe, Precast Concrete Headwall	3,954.23	524.16
33 42 23 00-0040	EA	84" Pipe, Precast Concrete Headwall	5,605.21	628.99
33 42 23 00-0041		Precast Concrete Wingwalls *(33 42 23 00-0001)*		
33 42 23 00-0042	EA	18" ID Pipe (26" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	5,904.15	2,075.67
33 42 23 00-0043	EA	24" ID Pipe (32" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	6,253.59	2,306.30
33 42 23 00-0044	EA	30" ID Pipe (42" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	6,835.98	2,690.68
33 42 23 00-0045	EA	33" ID Pipe (46" Hole) Precast Concrete Wingwall Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	7,418.38	3,075.07
33 42 23 00-0046	EA	36" ID Pipe (50" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	7,418.38	3,075.07
33 42 23 00-0047	EA	44" ID Pipe (58" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	7,651.34	3,228.82
33 42 23 00-0048	EA	48" ID Pipe (62" Hole) Precast Concrete Wingwall Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	13,228.79	3,305.69
33 42 23 00-0049	EA	52" ID Pipe (66" Hole) Precast Concrete Wingwall Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	13,578.24	3,536.32
33 42 23 00-0050		Precast Concrete Transverse Drainage Interceptor *(33 42 23 00-0001)*		
33 42 23 00-0051	EA	34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate	3,692.40	815.36
33 42 26		**End Sections for Stormwater Piping** *(33 42)*		
33 42 26 16		**Corrugated Metal End Sections for Stormwater Piping** *(33 42 26)*		
33 42 26 16-0001		Corrugated Metal Pipe End Sections *(33 42 26 16)*		
33 42 26 16-0002		Galvanized Corrugated Steel Pipe End Sections *(33 42 26 16-0001)*		
33 42 26 16-0003		Type 1 Galvanized Corrugated Steel Pipe End Sections *(33 42 26 16-0002)* Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	336.89	75.84
33 42 26 16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	394.15	81.25
33 42 26 16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	464.02	86.67
33 42 26 16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	566.74	94.79
33 42 26 16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	628.78	102.92
33 42 26 16-0009		Type 2 Galvanized Corrugated Steel Pipe End Sections *(33 42 26 16-0002)* Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,037.10	116.47
33 42 26 16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,352.99	139.78
33 42 26 16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,102.31	163.08
33 42 26 16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,573.95	186.37
33 42 26 16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	3,061.33	232.96
33 42 26 16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	3,571.80	279.55
33 42 26 16-0016		Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections *(33 42 26 16-0002)* Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	353.43	75.84
33 42 26 16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	411.17	81.25
33 42 26 16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	490.18	86.67
33 42 26 16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	598.15	94.79
33 42 26 16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	664.39	102.92
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	1,146.46	116.47
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	1,489.91	139.78
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	2,398.82	163.08
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	2,956.60	186.37
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	3,448.29	232.96
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	4,797.39	279.55
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	5,399.92	419.33
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	6,289.07	559.10
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	6,854.48	599.87
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	7,434.10	640.64
33 42 26 16-0032		Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section *(33 42 26 16-0002)*		
33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	45.61	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	51.07	
	33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	57.79	
	33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	62.86	
	33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	70.48	
	33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	124.64	
	33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	134.08	
	33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	185.22	
	33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	197.92	
	33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	242.20	
	33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	247.60	
	33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	263.20	
	33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	295.99	
	33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	331.34	
	33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension	338.71	
	33 42 26 16-0048		Galvanized Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0001)*		
	33 42 26 16-0049		Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0048)*		
			Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
	33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	394.15	81.25
	33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	464.02	86.67
	33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	566.74	94.79
	33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	628.78	102.92
	33 42 26 16-0054		Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0048)*		
			Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
	33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	379.86	81.25
	33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	437.60	86.67
	33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	491.10	94.79
	33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	556.56	102.92
	33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	831.20	116.47
	33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,230.38	139.78
	33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,939.53	163.08
	33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	2,465.48	186.37
	33 42 26 16-0063		Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0048)*		
			Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
	33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	387.11	81.25
	33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	453.36	86.67
	33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	515.73	94.79
	33 42 26 16-0067	EA	28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	585.76	102.92
	33 42 26 16-0068	EA	35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	880.84	116.47
	33 42 26 16-0069	EA	42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,298.08	139.78
	33 42 26 16-0070	EA	49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,047.84	163.08
	33 42 26 16-0071	EA	57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,590.13	186.37
	33 42 26 16-0072	EA	64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,112.55	232.96
	33 42 26 16-0073	EA	71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	4,103.55	279.55
	33 42 26 16-0074	EA	77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	5,714.44	419.33
	33 42 26 16-0075	EA	83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	6,284.88	559.10
	33 42 26 16-0076		Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section *(33 42 26 16-0048)*		
	33 42 26 16-0077	EA	Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	51.07	
	33 42 26 16-0078	EA	Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	57.79	
	33 42 26 16-0079	EA	Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	62.86	
	33 42 26 16-0080	EA	Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	70.48	
	33 42 26 16-0081	EA	Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	124.64	
	33 42 26 16-0082	EA	Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	134.08	
	33 42 26 16-0083	EA	Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	185.22	
	33 42 26 16-0084	EA	Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	206.12	
	33 42 26 16-0085	EA	Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	242.20	
	33 42 26 16-0086	EA	Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	250.86	
	33 42 26 16-0087	EA	Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	289.78	
	33 42 26 16-0088	EA	Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	325.25	
	33 42 26 16-0089		Corrugated Aluminum Pipe End Sections *(33 42 26 16-0001)*		
	33 42 26 16-0090		Corrugated Aluminum Pipe End Sections *(33 42 26 16-0089)*		
	33 42 26 16-0091	EA	12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	529.21	75.84
	33 42 26 16-0092	EA	15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	613.13	81.25
	33 42 26 16-0093	EA	18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	732.00	86.67
	33 42 26 16-0094	EA	21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	914.14	94.79
	33 42 26 16-0095	EA	24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,204.95	102.92
	33 42 26 16-0096	EA	30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,826.93	116.47
	33 42 26 16-0097	EA	36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	2,497.03	139.78
	33 42 26 16-0098	EA	36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,126.24	139.78

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0099	EA	42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,995.31	163.08
33 42 26 16-0100	EA	48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	5,726.74	186.37
33 42 26 16-0101	EA	54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	6,329.52	232.96
33 42 26 16-0102	EA	60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,549.19	279.55
33 42 26 16-0103	EA	66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	9,629.62	419.33
33 42 26 16-0104	EA	72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,227.15	559.10
33 42 26 16-0105	EA	78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,267.58	599.87
33 42 26 16-0106	EA	84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,940.53	640.64
33 42 26 16-0107	EA	90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	17,796.70	698.88
33 42 26 16-0108	EA	96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	19,710.34	757.12
33 42 26 16-0109		**Toe Plate Extensions For Corrugated Aluminum Pipe End Section** *(33 42 26 16-0089)*		
33 42 26 16-0110	EA	Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	82.86	
33 42 26 16-0111	EA	Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	88.03	
33 42 26 16-0112	EA	Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	95.86	
33 42 26 16-0113	EA	Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	108.26	
33 42 26 16-0114	EA	Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	114.64	
33 42 26 16-0115	EA	Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	148.05	
33 42 26 16-0116	EA	Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	175.70	
33 42 26 16-0117	EA	Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	186.20	
33 42 26 16-0118	EA	Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	204.32	
33 42 26 16-0119	EA	Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	230.99	
33 42 26 16-0120	EA	Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	273.75	
33 42 26 16-0121	EA	Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	389.27	
33 42 26 16-0122	EA	Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	416.69	
33 42 26 16-0123	EA	Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	522.66	
33 42 26 16-0124	EA	Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	564.93	
33 42 26 16-0125	EA	Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	601.69	
33 42 26 16-0126	EA	Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	640.51	
33 42 26 16-0127	EA	Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	679.59	
33 42 26 16-0128		**Corrugated Aluminum Pipe-Arch End Sections** *(33 42 26 16-0001)*		
33 42 26 16-0129		**Corrugated Aluminum Pipe-Arch End Sections** *(33 42 26 16-0128)*		
33 42 26 16-0130	EA	17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	633.46	81.25
33 42 26 16-0131	EA	21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	781.58	86.67
33 42 26 16-0132	EA	24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	848.39	94.79
33 42 26 16-0133	EA	28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	915.13	102.92
33 42 26 16-0134	EA	35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,392.20	116.47
33 42 26 16-0135	EA	42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,525.95	139.78
33 42 26 16-0136	EA	42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,685.48	139.78
33 42 26 16-0137	EA	49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,601.84	163.08
33 42 26 16-0138	EA	57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	5,573.51	186.37
33 42 26 16-0139	EA	64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	6,371.12	232.96
33 42 26 16-0140	EA	71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,704.35	279.55
33 42 26 16-0141	EA	77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	12,931.95	419.33
33 42 26 16-0142	EA	83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	13,511.03	559.10
33 42 26 16-0143	EA	87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	14,715.77	599.87
33 42 26 16-0144	EA	95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	15,351.98	640.64
33 42 26 16-0145	EA	103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	16,733.46	698.88
33 42 26 16-0146	EA	112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	17,718.36	757.12
33 42 26 16-0147		**Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section** *(33 42 26 16-0128)*		
33 42 26 16-0148	EA	Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	88.03	
33 42 26 16-0149	EA	Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	95.86	
33 42 26 16-0150	EA	Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	100.91	
33 42 26 16-0151	EA	Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	110.60	
33 42 26 16-0152	EA	Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	124.93	
33 42 26 16-0153	EA	Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	162.41	
33 42 26 16-0154	EA	Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	179.16	
33 42 26 16-0155	EA	Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	204.32	
33 42 26 16-0156	EA	Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	230.99	
33 42 26 16-0157	EA	Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	273.75	
33 42 26 16-0158	EA	Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	352.00	
33 42 26 16-0159	EA	Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	447.89	
33 42 26 16-0160	EA	Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	600.66	
33 42 26 16-0161	EA	Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	683.67	
33 42 26 16-0162	EA	Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	714.94	
33 42 26 16-0163	EA	Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	739.89	
33 42 26 16-0164	EA	Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	770.88	
33 42 26 16-0165		**Low Slope Corrugated Steel Pipe End Sections And Accessories** *(33 42 26 16-0001)*		
33 42 26 16-0166		**4:1 Corrugated Steel Pipe End Sections** *(33 42 26 16-0165)*		
33 42 26 16-0167	EA	15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	828.78	81.25
33 42 26 16-0168	EA	18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,077.68	86.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0169	EA	21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,326.10	94.79
33 42 26 16-0170	EA	24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,592.46	102.92
33 42 26 16-0171	EA	30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,680.44	116.47
33 42 26 16-0172	EA	36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,204.75	139.78
33 42 26 16-0173	EA	42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	3,523.24	163.08
33 42 26 16-0174		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections *(33 42 26 16-0165)*		
		Note: Includes nut and bolt set.		
33 42 26 16-0175	EA	3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	600.69	
33 42 26 16-0176	EA	3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	1,226.67	
33 42 26 16-0177	EA	3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	1,346.21	
33 42 26 16-0178	EA	3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	1,398.31	
33 42 26 16-0179		6:1 Corrugated Steel Pipe End Sections *(33 42 26 16-0165)*		
33 42 26 16-0180	EA	15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	870.10	81.25
33 42 26 16-0181	EA	18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,151.99	86.67
33 42 26 16-0182	EA	21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,544.79	94.79
33 42 26 16-0183	EA	24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,819.75	102.92
33 42 26 16-0184	EA	30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,162.95	116.47
33 42 26 16-0185	EA	36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,630.63	139.78
33 42 26 16-0186	EA	42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	4,056.09	163.08
33 42 26 16-0187		3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections *(33 42 26 16-0165)*		
		Note: Includes nut and bolt set.		
33 42 26 16-0188	EA	3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	1,185.76	
33 42 26 16-0189	EA	3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	1,256.47	
33 42 26 16-0190	EA	3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	1,381.43	
33 42 26 16-0191	EA	3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	1,447.07	
33 42 26 16-0192		Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section *(33 42 26 16-0165)*		
33 42 26 16-0193	EA	Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	98.97	
33 42 26 16-0194	EA	Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	111.74	
33 42 26 16-0195	EA	Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	121.68	
33 42 26 16-0196	EA	Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	136.12	
33 42 26 16-0197	EA	Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	209.80	
33 42 26 16-0198	EA	Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	225.22	
33 42 26 16-0199	EA	Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section	305.05	
33 42 26 16-0200		Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories *(33 42 26 16-0001)*		
33 42 26 16-0201		4:1 Corrugated Steel Pipe-Arch End Section *(33 42 26 16-0200)*		
33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	990.65	86.67
33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,251.12	94.79
33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,486.29	102.92
33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	2,846.16	116.47
33 42 26 16-0206		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0200)*		
		Note: Includes nut and bolt set.		
33 42 26 16-0207	EA	3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section	718.67	
33 42 26 16-0208	EA	3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section	1,328.01	
33 42 26 16-0209	EA	3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section	1,398.31	
33 42 26 16-0210	EA	3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section	2,068.48	
33 42 26 16-0211		Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section *(33 42 26 16-0200)*		
33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section	99.87	
33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section	113.74	
33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section	124.02	
33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section	146.41	
33 42 26 19		**Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping** *(33 42 26)*		
33 42 26 19-0001		Corrugated High-Density Polyethylene (HDPE) Pipe End Sections *(33 42 26 19)*		
33 42 26 19-0002	EA	4" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	50.75	21.73
33 42 26 19-0003	EA	6" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	84.14	32.60
33 42 26 19-0004	EA	8" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	109.61	40.74

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 19-0005	EA	10" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	173.97	65.19
33 42 26 19-0006	EA	12" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	201.23	73.34
33 42 26 19-0007	EA	15" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	214.82	78.77
33 42 26 19-0008	EA	18" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	246.80	86.92
33 42 26 19-0009	EA	24" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	306.90	103.21
33 42 26 19-0010	EA	30" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	506.28	116.80
33 42 26 19-0011	EA	36" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	601.62	130.37

33 42 26 23 Concrete End Sections for Stormwater Piping *(33 42 26)*

33 42 26 23-0001 Precast Concrete End Sections *(33 42 26 23)*

33 42 26 23-0002 Precast Concrete End Sections *(33 42 26 23-0001)*

33 42 26 23-0003	EA	12" Diameter Pipe, Precast Concrete End Section	766.77	127.08
33 42 26 23-0004	EA	15" Diameter Pipe, Precast Concrete End Section	1,029.63	157.31
33 42 26 23-0005	EA	18" Diameter Pipe, Precast Concrete End Section	1,274.75	199.13
33 42 26 23-0006	EA	21" Diameter Pipe, Precast Concrete End Section	1,462.65	238.13
33 42 26 23-0007	EA	24" Diameter Pipe, Precast Concrete End Section	1,553.99	275.62
33 42 26 23-0008	EA	27" Diameter Pipe, Precast Concrete End Section	1,958.06	347.11
33 42 26 23-0009	EA	30" Diameter Pipe, Precast Concrete End Section	2,426.86	521.37
33 42 26 23-0010	EA	36" Diameter Pipe, Precast Concrete End Section	2,996.27	657.88
33 42 26 23-0011	EA	42" Diameter Pipe, Precast Concrete End Section	3,624.76	825.26
33 42 26 23-0012	EA	48" Diameter Pipe, Precast Concrete End Section	3,972.41	930.67
33 42 26 23-0013	EA	54" Diameter Pipe, Precast Concrete End Section	4,332.59	1,042.50
33 42 26 23-0014	EA	60" Diameter Pipe, Precast Concrete End Section	4,701.84	1,158.97
33 42 26 23-0015	EA	66" Diameter Pipe Precast Concrete End Section	4,677.05	923.59
33 42 26 23-0016	EA	72" Diameter Pipe Precast Concrete End Section	5,354.63	1,154.46
33 42 26 23-0017	EA	78" Diameter Pipe Precast Concrete End Section	6,364.79	1,443.08
33 42 26 23-0018	EA	84" Diameter Pipe Precast Concrete End Section	7,530.68	1,731.69

33 42 26 23-0019 Flared Precast Concrete End Sections *(33 42 26 23-0001)*

33 42 26 23-0020	EA	12" Diameter Pipe, Flared Precast Concrete End Section	966.35	135.70
33 42 26 23-0021	EA	15" Diameter Pipe, Flared Precast Concrete End Section	1,163.66	169.13
33 42 26 23-0022	EA	18" Diameter Pipe, Flared Precast Concrete End Section	1,412.66	214.09
33 42 26 23-0023	EA	21" Diameter Pipe, Flared Precast Concrete End Section	1,614.10	256.02
33 42 26 23-0024	EA	24" Diameter Pipe, Flared Precast Concrete End Section	1,969.71	296.32
33 42 26 23-0025	EA	27" Diameter Pipe, Flared Precast Concrete End Section	2,374.41	473.26
33 42 26 23-0026	EA	30" Diameter Pipe, Flared Precast Concrete End Section	2,469.00	651.59
33 42 26 23-0027	EA	36" Diameter Pipe, Flared Precast Concrete End Section	3,336.39	822.35
33 42 26 23-0028	EA	42" Diameter Pipe, Flared Precast Concrete End Section	4,003.25	1,031.77
33 42 26 23-0029	EA	48" Diameter Pipe, Flared Precast Concrete End Section	4,331.29	1,163.63
33 42 26 23-0030	EA	54" Diameter Pipe, Flared Precast Concrete End Section	4,844.60	1,303.30
33 42 26 23-0031	EA	60" Diameter Pipe, Flared Precast Concrete End Section	5,367.53	1,447.61
33 42 26 23-0032	EA	66" Diameter Pipe, Flared Precast Concrete End Section	6,260.77	1,667.87
33 42 26 23-0033	EA	72" Diameter Pipe, Flared Precast Concrete End Section	7,303.12	1,861.58
33 42 26 23-0034	EA	78" Diameter Pipe, Flared Precast Concrete End Section	8,281.61	2,094.19
33 42 26 23-0035	EA	84" Diameter Pipe, Flared Precast Concrete End Section	9,554.04	2,326.57

33 42 26 23-0036 Elliptical Precast Concrete End Sections *(33 42 26 23-0001)*

33 42 26 23-0037	EA	14" x 23" Elliptical Precast Concrete End Section	1,685.46	214.09
33 42 26 23-0038	EA	18" x 24" Elliptical Precast Concrete End Section	1,921.53	256.02
33 42 26 23-0039	EA	19" x 30" Elliptical Precast Concrete End Section	2,350.91	296.32
33 42 26 23-0040	EA	22" x 34" Elliptical Precast Concrete End Section	2,790.38	473.26
33 42 26 23-0041	EA	24" x 38" Elliptical Precast Concrete End Section	2,841.63	651.59
33 42 26 23-0042	EA	27" x 42" Elliptical Precast Concrete End Section	3,351.73	737.32
33 42 26 23-0043	EA	29" x 45" Elliptical Precast Concrete End Section	3,861.83	822.35
33 42 26 23-0044	EA	34" x 53" Elliptical Precast Concrete End Section	4,616.83	1,031.77
33 42 26 23-0045	EA	38" x 60" Elliptical Precast Concrete End Section	4,977.35	1,163.63
33 42 26 23-0046	EA	43" x 68" Elliptical Precast Concrete End Section	5,566.57	1,303.30
33 42 26 23-0047	EA	48" x 76" Elliptical Precast Concrete End Section	6,165.84	1,447.61

33 42 26 23-0048 Mitered Precast Concrete End Sections *(33 42 26 23-0001)*

33 42 26 23-0049	EA	12" Round Mitered Precast Concrete End Sections	549.27	135.70
33 42 26 23-0050	EA	15" Round Mitered Precast Concrete End Sections	598.19	169.13
33 42 26 23-0051	EA	18" Round Mitered Precast Concrete End Sections	721.12	214.09
33 42 26 23-0052	EA	24" Round Mitered Precast Concrete End Sections	1,044.42	296.32
33 42 26 23-0053	EA	12" x 18" Elliptical Mitered Precast Concrete End Sections	641.53	169.13
33 42 26 23-0054	EA	14" x 23" Elliptical Mitered Precast Concrete End Sections	798.17	214.09
33 42 26 23-0055	EA	19" x 30" Elliptical Mitered Precast Concrete End Sections	1,138.30	296.32

33 42 31 Stormwater Area Drains and Inlets *(33 42)*

33 42 31 00-0001 Storm Drains *(33 42 31)*

33 42 31 00-0002 Catch Basins And Inlet Basins *(33 42 31 00-0001)*

Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0003		Cast In Place, Grate Drop Inlet Basins *(33 42 31 00-0002)* Note: Inside dimensions.		
33 42 31 00-0004		3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins *(33 42 31 00-0003)*		
33 42 31 00-0005	EA	2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,975.67	381.09
33 42 31 00-0006	EA	3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,354.42	446.52
33 42 31 00-0007	EA	4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,733.18	511.83
33 42 31 00-0008	EA	5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,111.94	577.26
33 42 31 00-0009	EA	6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,490.69	642.57
33 42 31 00-0010		3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins *(33 42 31 00-0003)*		
33 42 31 00-0011	EA	2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,482.51	378.79
33 42 31 00-0012	EA	3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,085.82	505.06
33 42 31 00-0013	EA	4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,961.79	688.72
33 42 31 00-0014	EA	5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,808.78	803.50
33 42 31 00-0015	EA	6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,503.40	918.29
33 42 31 00-0016		4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins *(33 42 31 00-0003)*		
33 42 31 00-0017	EA	2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,665.02	413.23
33 42 31 00-0018	EA	3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,689.30	573.93
33 42 31 00-0019	EA	4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,532.91	746.10
33 42 31 00-0020	EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,235.31	860.89
33 42 31 00-0021	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	6,646.04	1,101.94
33 42 31 00-0022		Cast In Place, Catch Basin *(33 42 31 00-0002)* Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
33 42 31 00-0023		3' x 3', Cast In Place, Catch Basins *(33 42 31 00-0022)*		
33 42 31 00-0024	EA	3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,486.59	460.75
33 42 31 00-0025	EA	3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,637.32	489.90
33 42 31 00-0026	EA	4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,885.87	526.18
33 42 31 00-0027	EA	4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,235.87	582.43
33 42 31 00-0028	EA	5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,493.81	619.96
33 42 31 00-0029	EA	5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,658.38	650.15
33 42 31 00-0030	EA	6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,916.54	687.68
33 42 31 00-0031	EA	6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,077.16	717.99
33 42 31 00-0032	EA	7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,337.44	755.41
33 42 31 00-0033	EA	7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,499.90	785.71
33 42 31 00-0034	EA	8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,757.94	823.24
33 42 31 00-0035	VLF	>8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	594.77	102.85
33 42 31 00-0036		3'-6" x 3'-6", Cast In Place, Catch Basins *(33 42 31 00-0022)*		
33 42 31 00-0037	EA	3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,860.50	532.61
33 42 31 00-0038	EA	3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,051.82	570.03
33 42 31 00-0039	EA	4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,310.15	607.56
33 42 31 00-0040	EA	4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,719.07	672.88
33 42 31 00-0041	EA	5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,002.14	715.35
33 42 31 00-0042	EA	5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,191.65	750.59
33 42 31 00-0043	EA	6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,478.46	793.05
33 42 31 00-0044	EA	6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,667.95	828.29
33 42 31 00-0045	EA	7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,953.03	870.76
33 42 31 00-0046	EA	7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,142.14	906.00
33 42 31 00-0047	EA	8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,427.34	948.48
33 42 31 00-0048	VLF	>8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	678.44	118.58
33 42 31 00-0049		4' x 4', Cast In Place, Catch Basins *(33 42 31 00-0022)*		
33 42 31 00-0050	EA	3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,261.00	609.28
33 42 31 00-0051	EA	3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,462.08	647.96
33 42 31 00-0052	EA	4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,758.87	693.77
33 42 31 00-0053	EA	4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,227.41	768.26
33 42 31 00-0054	EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,539.26	815.67
33 42 31 00-0055	EA	5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,755.30	855.95
33 42 31 00-0056	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,067.14	903.37
33 42 31 00-0057	EA	6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,283.58	943.66
33 42 31 00-0058	EA	7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,595.42	991.06
33 42 31 00-0059	EA	7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,811.45	1,031.35
33 42 31 00-0060	EA	8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	6,123.30	1,078.87
33 42 31 00-0061	VLF	>8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	765.37	134.87
33 42 31 00-0062		4'-6" x 4'-6", Cast In Place, Catch Basins *(33 42 31 00-0022)*		
33 42 31 00-0063	EA	3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,776.48	706.51
33 42 31 00-0064	EA	3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,012.19	746.46
33 42 31 00-0065	EA	4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,341.99	798.10
33 42 31 00-0066	EA	4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,876.45	882.82

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0067	EA	5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,223.73	936.31
33 42 31 00-0068	EA	5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,475.29	982.56
33 42 31 00-0069	EA	6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,822.17	1,036.06
33 42 31 00-0070	EA	6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,073.74	1,082.43
33 42 31 00-0071	EA	7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,421.02	1,135.92
33 42 31 00-0072	EA	7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,670.47	1,182.18
33 42 31 00-0073	EA	8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,019.47	1,235.67
33 42 31 00-0074	VLF	>8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	877.50	154.50
33 42 31 00-0075		**5' x 5', Cast In Place, Catch Basins** *(33 42 31 00-0022)*		
33 42 31 00-0076	EA	4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	4,860.26	896.13
33 42 31 00-0077	EA	4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,455.59	990.26
33 42 31 00-0078	EA	5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,832.09	1,048.91
33 42 31 00-0079	EA	5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,110.76	1,100.33
33 42 31 00-0080	EA	6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,483.41	1,158.88
33 42 31 00-0081	EA	6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,764.22	1,210.30
33 42 31 00-0082	EA	7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,138.60	1,268.96
33 42 31 00-0083	EA	7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,415.55	1,320.39
33 42 31 00-0084	EA	8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,792.05	1,378.92
33 42 31 00-0085	VLF	>8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,384.47	172.41
33 42 31 00-0086		**5'-6" x 5'-6", Cast In Place, Catch Basins** *(33 42 31 00-0022)*		
33 42 31 00-0087	EA	4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,403.95	999.32
33 42 31 00-0088	EA	4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,287.96	1,131.23
33 42 31 00-0089	EA	5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,706.04	1,196.41
33 42 31 00-0090	EA	5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,026.28	1,254.84
33 42 31 00-0091	EA	6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,446.08	1,320.50
33 42 31 00-0092	EA	6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,768.44	1,378.92
33 42 31 00-0093	EA	7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,186.52	1,444.58
33 42 31 00-0094	EA	7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,506.76	1,503.01
33 42 31 00-0095	EA	8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,924.83	1,568.67
33 42 31 00-0096	VLF	>8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,115.60	196.06
33 42 31 00-0097		**6' x 6', Cast In Place, Catch Basins** *(33 42 31 00-0022)*		
33 42 31 00-0098	EA	4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	5,976.43	1,107.33
33 42 31 00-0099	EA	4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,950.94	1,252.08
33 42 31 00-0100	EA	5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,398.92	1,323.02
33 42 31 00-0101	EA	5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,749.48	1,386.73
33 42 31 00-0102	EA	6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,195.35	1,457.66
33 42 31 00-0103	EA	6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,547.64	1,521.37
33 42 31 00-0104	EA	7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,993.90	1,592.31
33 42 31 00-0105	EA	7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	9,344.07	1,656.02
33 42 31 00-0106	EA	8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	9,792.05	1,726.95
33 42 31 00-0107	VLF	>8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	1,224.06	215.91
33 42 31 00-0108		**6'-6" x 6'-6", Cast In Place, Catch Basins** *(33 42 31 00-0022)*		
33 42 31 00-0109	EA	4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	6,573.82	1,220.52
33 42 31 00-0110	EA	4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,929.52	1,414.05
33 42 31 00-0111	EA	5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,423.38	1,492.56
33 42 31 00-0112	EA	5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,821.43	1,563.84
33 42 31 00-0113	EA	6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,315.28	1,642.24
33 42 31 00-0114	EA	6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,713.32	1,713.63
33 42 31 00-0115	EA	7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,207.18	1,792.03
33 42 31 00-0116	EA	7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,605.23	1,863.32
33 42 31 00-0117	EA	8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,100.80	1,941.83
33 42 31 00-0118	VLF	>8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,387.54	242.77
33 42 31 00-0119		**7' x 7', Cast In Place, Catch Basins** *(33 42 31 00-0022)*		
33 42 31 00-0120	EA	4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	7,198.49	1,338.63
33 42 31 00-0121	EA	4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,683.32	1,549.83
33 42 31 00-0122	EA	5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,207.79	1,633.86
33 42 31 00-0123	EA	5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,634.83	1,710.54
33 42 31 00-0124	EA	6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,161.30	1,794.45
33 42 31 00-0125	EA	6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,588.33	1,871.24
33 42 31 00-0126	EA	7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	11,112.80	1,955.14
33 42 31 00-0127	EA	7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	11,541.96	2,031.94
33 42 31 00-0128	EA	8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	12,066.32	2,115.84
33 42 31 00-0129	VLF	>8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,508.35	264.47
33 42 31 00-0130		**7'-6" x 7'-6", Cast In Place, Catch Basins** *(33 42 31 00-0022)*		
33 42 31 00-0131	EA	4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	8,178.00	1,502.43
33 42 31 00-0132	EA	4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,467.83	1,691.13
33 42 31 00-0133	EA	5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,021.18	1,780.56
33 42 31 00-0134	EA	5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,480.95	1,862.74

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0135	EA	6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,036.31	1,952.16
33 42 31 00-0136	EA	6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,496.08	2,034.35
33 42 31 00-0137	EA	7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	12,049.42	2,123.76
33 42 31 00-0138	EA	7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	12,509.19	2,205.95
33 42 31 00-0139	EA	8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	13,064.67	2,295.37
33 42 31 00-0140	VLF	>8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,633.04	286.96
33 42 31 00-0141		**8' x 8', Cast In Place, Catch Basins** *(33 42 31 00-0022)*		
33 42 31 00-0142	EA	4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	8,888.03	1,634.67
33 42 31 00-0143	EA	4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,281.10	1,837.95
33 42 31 00-0144	EA	5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,865.57	1,932.77
33 42 31 00-0145	EA	5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,355.94	2,020.46
33 42 31 00-0146	EA	6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,940.30	2,115.28
33 42 31 00-0147	EA	6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,426.43	2,202.97
33 42 31 00-0148	EA	7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	13,015.02	2,297.79
33 42 31 00-0149	EA	7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	13,505.41	2,385.48
33 42 31 00-0150	EA	8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	14,079.57	2,480.30
33 42 31 00-0151	VLF	>8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,761.22	310.04
33 42 31 00-0152		**3' x 6', Cast In Place, Catch Basins** *(33 42 31 00-0022)*		
33 42 31 00-0153	EA	6' Deep, 3' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,240.32	942.50
33 42 31 00-0154	EA	7' Deep, 3' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,805.83	1,038.70
33 42 31 00-0155	EA	8' Deep, 3' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,369.21	1,134.89
33 42 31 00-0156	EA	9' Deep, 3' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,926.67	1,231.20
33 42 31 00-0157	EA	10' Deep, 3' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,499.73	1,327.39
33 42 31 00-0158		**Cast In Place, Storm Drain Cleanout** *(33 42 31 00-0002)* Note: Inside span.		
33 42 31 00-0159	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,209.31	908.87
33 42 31 00-0160	EA	6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,949.40	1,037.20
33 42 31 00-0161	EA	6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	6,785.08	1,177.13
33 42 31 00-0162	EA	7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	8,139.48	1,412.09
33 42 31 00-0163	EA	8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	9,907.06	1,704.80
33 42 31 00-0164		**Precast Concrete Catch Basins** *(33 42 31 00-0002)* Note: Inside dimensions.		
33 42 31 00-0165		**1'-6" Diameter Precast Catch Basins** *(33 42 31 00-0164)*		
33 42 31 00-0166	EA	4' Deep, 1'-6" Diameter Precast Catch Basins	738.29	237.44
33 42 31 00-0167	EA	6' Deep, 1'-6" Diameter Precast Catch Basins	1,031.40	356.16
33 42 31 00-0168	EA	8' Deep, 1'-6" Diameter Precast Catch Basins	1,310.75	463.01
33 42 31 00-0169	EA	10' Deep, 1'-6" Diameter Precast Catch Basins	1,567.80	547.30
33 42 31 00-0170	EA	12' Deep, 1'-6" Diameter Precast Catch Basins	1,934.50	694.51
33 42 31 00-0171	EA	14' Deep, 1'-6" Diameter Precast Catch Basins	2,214.35	801.36
33 42 31 00-0172	VLF	Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins	154.58	53.42
33 42 31 00-0173		**2' Diameter Precast Catch Basins** *(33 42 31 00-0164)*		
33 42 31 00-0174	EA	4' Deep, 2' Diameter Precast Catch Basin	840.15	264.15
33 42 31 00-0175	EA	6' Deep, 2' Diameter Precast Catch Basin	1,167.33	391.77
33 42 31 00-0176	EA	8' Deep, 2' Diameter Precast Catch Basin	1,477.56	516.44
33 42 31 00-0177	EA	10' Deep, 2' Diameter Precast Catch Basin	1,761.40	602.51
33 42 31 00-0178	EA	12' Deep, 2' Diameter Precast Catch Basin	2,187.09	771.68
33 42 31 00-0179	EA	14' Deep, 2' Diameter Precast Catch Basin	2,500.30	890.40
33 42 31 00-0180	VLF	Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	174.61	64.11
33 42 31 00-0181		**3' Diameter Precast Catch Basins** *(33 42 31 00-0164)*		
33 42 31 00-0182	EA	4' Deep, 3' Diameter Precast Catch Basin	1,101.59	311.64
33 42 31 00-0183	EA	6' Deep, 3' Diameter Precast Catch Basin	1,510.24	460.63
33 42 31 00-0184	EA	8' Deep, 3' Diameter Precast Catch Basin	1,903.16	608.44
33 42 31 00-0185	EA	10' Deep, 3' Diameter Precast Catch Basin	2,370.15	759.81
33 42 31 00-0186	EA	12' Deep, 3' Diameter Precast Catch Basin	2,801.80	905.83
33 42 31 00-0187	EA	14' Deep, 3' Diameter Precast Catch Basin	3,219.54	1,054.24
33 42 31 00-0188	VLF	Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	222.02	75.30
33 42 31 00-0189		**4' Diameter Precast Catch Basins** *(33 42 31 00-0164)*		
33 42 31 00-0190	EA	4' Deep, 4' Diameter Precast Catch Basin	1,326.83	346.66
33 42 31 00-0191	EA	6' Deep, 4' Diameter Precast Catch Basin	1,730.25	474.88
33 42 31 00-0192	EA	8' Deep, 4' Diameter Precast Catch Basin	2,331.53	712.32
33 42 31 00-0193	EA	10' Deep, 4' Diameter Precast Catch Basin	2,909.58	890.40
33 42 31 00-0194	EA	12' Deep, 4' Diameter Precast Catch Basin	3,442.22	1,068.48
33 42 31 00-0195	EA	14' Deep, 4' Diameter Precast Catch Basin	3,959.61	1,246.56
33 42 31 00-0196	VLF	Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	272.41	89.04

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0197		**5' Diameter Precast Catch Basins** *(33 42 31 00-0164)*		
33 42 31 00-0198	EA	4' Deep, 5' Diameter Precast Catch Basin	1,787.78	474.88
33 42 31 00-0199	EA	6' Deep, 5' Diameter Precast Catch Basin	2,459.39	712.32
33 42 31 00-0200	EA	8' Deep, 5' Diameter Precast Catch Basin	3,134.48	949.76
33 42 31 00-0201	EA	10' Deep, 5' Diameter Precast Catch Basin	3,837.44	1,187.20
33 42 31 00-0202	EA	12' Deep, 5' Diameter Precast Catch Basin	4,531.12	1,424.64
33 42 31 00-0203	EA	14' Deep, 5' Diameter Precast Catch Basin	5,275.98	1,662.08
33 42 31 00-0204	VLF	Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	362.49	118.72
33 42 31 00-0205		**6' Diameter Precast Catch Basins** *(33 42 31 00-0164)*		
33 42 31 00-0206	EA	4' Deep, 6' Diameter Precast Catch Basin	2,619.20	712.32
33 42 31 00-0207	EA	6' Deep, 6' Diameter Precast Catch Basin	3,570.08	1,068.48
33 42 31 00-0208	EA	8' Deep, 6' Diameter Precast Catch Basin	4,584.10	1,424.64
33 42 31 00-0209	EA	10' Deep, 6' Diameter Precast Catch Basin	5,714.14	1,780.80
33 42 31 00-0210	EA	12' Deep, 6' Diameter Precast Catch Basin	6,812.23	2,136.96
33 42 31 00-0211	EA	14' Deep, 6' Diameter Precast Catch Basin	7,887.63	2,493.13
33 42 31 00-0212	VLF	Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	540.54	178.08
33 42 31 00-0213		**Precast Catch Basins Accessories** *(33 42 31 00-0164)*		
33 42 31 00-0214	EA	Single Or Double Wing Slab Top With Throat	1,646.11	771.68
33 42 31 00-0215	EA	4' x 4' Weir Box, Precast Catch Basin	706.62	94.97
33 42 31 00-0216	EA	4' Diameter Inlet Round To Square Adapter, Precast Catch Basin	406.69	100.92
33 42 31 00-0217	EA	3' Diameter, Up To 6" High, Precast Extension Ring	511.07	148.40
		For Each Additional Inch In Height, Add	*60.42*	
33 42 31 00-0218	EA	4' Diameter, Up To 6" High, Precast Extension Ring	603.44	178.08
		For Each Additional Inch In Height, Add	*70.87*	
33 42 31 00-0219	EA	5' Diameter, Up To 6" High, Precast Extension Ring	703.77	207.76
		For Each Additional Inch In Height, Add	*82.71*	
33 42 31 00-0220	EA	6' Diameter, Up To 6" High, Precast Extension Ring	888.12	296.80
		For Each Additional Inch In Height, Add	*98.60*	
33 42 31 00-0221	EA	Adjust Existing Catch Basin Inlet Grate To Match Grade	712.28	
33 42 31 00-0222		**Catch Basin Risers** *(33 42 31 00-0164)*		
33 42 31 00-0223	EA	Up To 860 Square Inch, Up to 2" Rise, Catch Basin Riser	438.99	
33 42 31 00-0224	EA	>860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser	490.21	
33 42 31 00-0225	EA	>1140 Square Inch, Up To 2" Rise, Catch Basin Riser	551.11	
33 42 31 00-0226	EA	Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser	472.62	
33 42 31 00-0227	EA	>860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	527.27	
33 42 31 00-0228	EA	>1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	594.78	
33 42 31 00-0229	EA	Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser	522.87	
33 42 31 00-0230	EA	>860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	571.41	
33 42 31 00-0231	EA	>1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	639.14	
33 42 31 00-0232		**Precast Concrete Inlet Boxes** *(33 42 31 00-0002)* Note: Inside dimensions.		
33 42 31 00-0233		**Precast Concrete Inlet Boxes** *(33 42 31 00-0232)*		
33 42 31 00-0234		**24" x 24" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0233)* Note: Yard inlet.		
33 42 31 00-0235		**24" x 24" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0234)*		
33 42 31 00-0236	EA	24" Height, 24" x 24" ID, Precast Concrete Inlet Box	924.97	83.10
33 42 31 00-0237	EA	30" Height, 24" x 24" ID, Precast Concrete Inlet Box	1,087.05	100.92
33 42 31 00-0238	EA	36" Height, 24" x 24" ID, Precast Concrete Inlet Box	1,249.13	118.72
33 42 31 00-0239	EA	42" Height, 24" x 24" ID, Precast Concrete Inlet Box	1,412.69	137.27
33 42 31 00-0240		**24" x 24" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0234)*		
33 42 31 00-0241	EA	6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	227.38	
33 42 31 00-0242	EA	12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	371.64	
33 42 31 00-0243	EA	18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	527.78	
33 42 31 00-0244	EA	24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	683.92	
33 42 31 00-0245	EA	30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	840.06	
33 42 31 00-0246	EA	36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	996.21	
33 42 31 00-0247		**22" x 48" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0233)*		
33 42 31 00-0248		**22" x 48" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0247)*		
33 42 31 00-0249	EA	36" Height, 22" x 48" ID, Precast Concrete Inlet Box	1,887.87	232.96
33 42 31 00-0250	EA	42" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,122.73	269.36
33 42 31 00-0251	EA	48" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,357.59	305.76
33 42 31 00-0252	EA	54" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,592.63	342.25
33 42 31 00-0253	EA	60" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,827.65	378.73
33 42 31 00-0254	EA	66" Height, 22" x 48" ID, Precast Concrete Inlet Box	3,062.69	415.23
33 42 31 00-0255	EA	72" Height, 22" x 48" ID, Precast Concrete Inlet Box	3,297.73	451.71

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0256		**22" x 48" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0247)*		
33 42 31 00-0257	EA	6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	444.88	
33 42 31 00-0258	EA	12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	723.57	
33 42 31 00-0259	EA	18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	782.98	
33 42 31 00-0260	EA	24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,004.40	
33 42 31 00-0261	EA	30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,225.82	
33 42 31 00-0262	EA	36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,438.28	
33 42 31 00-0263	EA	42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,673.14	
33 42 31 00-0264	EA	48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,908.00	
33 42 31 00-0265	EA	54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,143.04	
33 42 31 00-0266	EA	60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,378.06	
33 42 31 00-0267	EA	66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,613.10	
33 42 31 00-0268	EA	72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,848.14	
33 42 31 00-0269		**30" x 48" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0233)*		
33 42 31 00-0270		**30" x 48" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0269)*		
33 42 31 00-0271	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box	1,816.06	256.25
33 42 31 00-0272	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box	2,050.83	296.29
33 42 31 00-0273	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box	2,285.59	336.33
33 42 31 00-0274	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box	2,520.55	376.47
33 42 31 00-0275	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box	2,755.52	416.61
33 42 31 00-0276	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box	2,990.47	456.75
33 42 31 00-0277	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box	3,225.43	496.88
33 42 31 00-0278		**30" x 48" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0269)*		
33 42 31 00-0279	EA	6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	440.52	
33 42 31 00-0280	EA	12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	708.64	
33 42 31 00-0281	EA	18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	769.24	
33 42 31 00-0282	EA	24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	985.66	
33 42 31 00-0283	EA	30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,202.08	
33 42 31 00-0284	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,417.34	
33 42 31 00-0285	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,648.89	
33 42 31 00-0286	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,879.30	
33 42 31 00-0287	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,110.85	
33 42 31 00-0288	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,341.25	
33 42 31 00-0289	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,572.82	
33 42 31 00-0290	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,804.37	
33 42 31 00-0291		**42" x 48" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0233)*		
33 42 31 00-0292		**42" x 48" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0291)*		
33 42 31 00-0293	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,163.55	279.55
33 42 31 00-0294	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,439.42	324.98
33 42 31 00-0295	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,715.30	371.57
33 42 31 00-0296	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,990.01	417.00
33 42 31 00-0297	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box	3,265.88	463.59
33 42 31 00-0298	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box	3,541.76	509.02
33 42 31 00-0299	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box	3,816.47	554.44
33 42 31 00-0300		**42" x 48" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0291)*		
33 42 31 00-0301	EA	6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	487.77	
33 42 31 00-0302	EA	12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	800.82	
33 42 31 00-0303	EA	18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	863.15	
33 42 31 00-0304	EA	24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,109.32	
33 42 31 00-0305	EA	30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,355.50	
33 42 31 00-0306	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,601.67	
33 42 31 00-0307	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,863.57	
33 42 31 00-0308	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,125.46	
33 42 31 00-0309	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,387.36	
33 42 31 00-0310	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,649.26	
33 42 31 00-0311	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,911.15	
33 42 31 00-0312	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	3,173.05	
33 42 31 00-0313		**42" x 48" ID, Precast Concrete Inlet Box Tops** *(33 42 31 00-0291)*		
33 42 31 00-0314	EA	42" x 48" ID, Precast Concrete Inlet Box Top Slab	1,225.05	174.72
33 42 31 00-0315		**48" x 54" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0233)*		
33 42 31 00-0316		**48" x 54" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0315)*		
33 42 31 00-0317	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,081.98	310.61
33 42 31 00-0318	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,452.17	361.67
33 42 31 00-0319	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,822.39	412.72

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0320	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box	4,192.21	463.59
33 42 31 00-0321	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box	4,562.05	514.47
33 42 31 00-0322	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box	4,931.90	565.33
33 42 31 00-0323	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box	5,301.72	616.20
33 42 31 00-0324		**48" x 54" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0315)*		
33 42 31 00-0325	EA	6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	489.41	
33 42 31 00-0326	EA	12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	788.56	
33 42 31 00-0327	EA	18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,153.73	
33 42 31 00-0328	EA	24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,518.88	
33 42 31 00-0329	EA	30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,864.64	
33 42 31 00-0330	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,229.81	
33 42 31 00-0331	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,600.00	
33 42 31 00-0332	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,970.22	
33 42 31 00-0333	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	3,340.05	
33 42 31 00-0334	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	3,709.88	
33 42 31 00-0335	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	4,079.73	
33 42 31 00-0336	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	4,449.55	
33 42 31 00-0337		**48" x 54" ID, Precast Concrete Inlet Box Tops** *(33 42 31 00-0315)*		
33 42 31 00-0338	EA	48" x 54" ID, Precast Concrete Inlet Box Top Slab	1,331.51	189.28
33 42 31 00-0339		**48" x 66" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0233)*		
33 42 31 00-0340		**48" x 66" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0339)*		
33 42 31 00-0341	EA	36" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,548.15	391.37
33 42 31 00-0342	EA	42" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,953.87	456.76
33 42 31 00-0343	EA	48" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,359.59	522.15
33 42 31 00-0344	EA	54" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,764.58	587.18
33 42 31 00-0345	EA	60" Height, 48" x 66" ID, Precast Concrete Inlet Box	5,169.59	652.21
33 42 31 00-0346	EA	66" Height, 48" x 66" ID, Precast Concrete Inlet Box	5,574.59	717.24
33 42 31 00-0347	EA	72" Height, 48" x 66" ID, Precast Concrete Inlet Box	5,979.58	782.27
33 42 31 00-0348		**48" x 66" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0339)*		
33 42 31 00-0349	EA	6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	535.85	
33 42 31 00-0350	EA	12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	843.42	
33 42 31 00-0351	EA	18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,248.82	
33 42 31 00-0352	EA	24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,654.21	
33 42 31 00-0353	EA	30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,027.00	
33 42 31 00-0354	EA	36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,432.41	
33 42 31 00-0355	EA	42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,838.12	
33 42 31 00-0356	EA	48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,243.85	
33 42 31 00-0357	EA	54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,648.84	
33 42 31 00-0358	EA	60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	4,053.84	
33 42 31 00-0359	EA	66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	4,458.85	
33 42 31 00-0360	EA	72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	4,863.84	
33 42 31 00-0361		**48" x 66" ID, Precast Concrete Inlet Box Tops** *(33 42 31 00-0339)*		
33 42 31 00-0362	EA	48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,480.12	211.99
33 42 31 00-0363		**42" x 102" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0233)*		
33 42 31 00-0364		**42" x 102" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0363)*		
33 42 31 00-0365	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,438.31	527.65
33 42 31 00-0366	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,951.10	615.01
33 42 31 00-0367	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,463.89	701.21
33 42 31 00-0368	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,975.52	788.56
33 42 31 00-0369	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box	6,488.30	874.76
33 42 31 00-0370	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box	6,999.94	960.96
33 42 31 00-0371	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box	7,513.88	1,048.32
33 42 31 00-0372		**42" x 102" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0363)*		
33 42 31 00-0373	EA	6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	715.46	
33 42 31 00-0374	EA	12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,107.12	
33 42 31 00-0375	EA	18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,611.75	
33 42 31 00-0376	EA	24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,116.39	
33 42 31 00-0377	EA	30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,587.25	
33 42 31 00-0378	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,091.88	
33 42 31 00-0379	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,604.68	
33 42 31 00-0380	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,117.47	
33 42 31 00-0381	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,629.09	
33 42 31 00-0382	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	5,141.88	
33 42 31 00-0383	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	5,653.51	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0384	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	6,166.30	
33 42 31 00-0385		**42" x 102" ID, Precast Concrete Inlet Box Tops** *(33 42 31 00-0363)*		
33 42 31 00-0386	EA	42" x 102" ID, Precast Concrete Inlet Box Top Slab	2,026.71	232.96
33 42 31 00-0387		**Frames And Grates For Inlets** *(33 42 31 00-0232)*		
33 42 31 00-0388		**Inlet Frames And Grates** *(33 42 31 00-0387)*		
33 42 31 00-0389	EA	24" x 24", Heavy-Duty Inlet Grate Note: For type A, B, D, or E inlets.	436.58	54.17
33 42 31 00-0390	EA	47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT) Note: For type A, B, D, or E inlets.	567.08	54.17
33 42 31 00-0391	EA	47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT) Note: Includes legend: Dump No Waste "Drains To Waterways".	567.08	54.17
33 42 31 00-0392	EA	Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT Note: Legend: Dump No Waste "Drains to Waterways"	567.08	54.17
33 42 31 00-0393	EA	Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362)	621.70	54.17
33 42 31 00-0394	EA	Type B Inlet Dirt Plate (US Foundry 5217 BK)	456.97	108.34
33 42 31 00-0395	EA	Back Plate For Type B Inlets (Campbell Foundry 2548-1942)	533.43	108.34
33 42 31 00-0396	EA	Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4) Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".	664.06	135.42
33 42 31 00-0397	EA	1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	565.76	135.42
33 42 31 00-0398	EA	2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	576.68	135.42
33 42 31 00-0399	EA	2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	598.52	135.42
33 42 31 00-0400	EA	3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	620.37	135.42
33 42 31 00-0401	EA	2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	598.52	135.42
33 42 31 00-0402	EA	2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	620.37	135.42
33 42 31 00-0403	EA	3" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	642.21	135.42
33 42 31 00-0404	EA	2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	926.20	135.42
33 42 31 00-0405	EA	2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	969.89	135.42
33 42 31 00-0406	EA	3" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	1,013.58	135.42
33 42 31 00-0407	EA	2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701)	685.90	135.42
33 42 31 00-0408	EA	6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6)	620.37	135.42
33 42 31 00-0409	EA	8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8)	620.37	135.42
33 42 31 00-0410	EA	6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6)	1,277.60	135.42
33 42 31 00-0411	EA	8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8)	1,277.60	135.42
33 42 31 00-0412	EA	Safety Bars For Type B And D Inlets (General Foundries 5218 SB)	516.38	148.97
33 42 31 00-0413	EA	6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648) Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	723.91	148.97
33 42 31 00-0414	EA	8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848) Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	723.91	148.97
33 42 31 00-0415	EA	10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048) Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	800.36	148.97
33 42 31 00-0416	EA	Type B Inlet Frame (US Foundry 5216 FRM)	920.51	148.97
33 42 31 00-0417	EA	Type D Inlet Frame (US Foundry 2999 FRM)	789.44	148.97
33 42 31 00-0418	EA	Type B Inlet Frame (Campbell Foundry 2618-0202)	1,128.04	148.97
33 42 31 00-0419	EA	Type D Inlet Frame (Campbell Foundry 2617-0002)	996.97	148.97
33 42 31 00-0420	EA	Type A Inlet, Single Frame And Grate (US Foundry 52340)	1,285.31	216.68
33 42 31 00-0421	EA	Type E Inlet, Single Frame And Grate (US Foundry 52342)	2,071.73	216.68
33 42 31 00-0422	EA	Type A Inlet, Single Frame And Grate (General Foundries 52340)	1,252.54	216.68
33 42 31 00-0423	EA	Type E Inlet, Double Frame And Grate (General Foundries 52342)	1,969.06	216.68
33 42 31 00-0424	EA	Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340)	2,102.73	325.02
33 42 31 00-0425	EA	Heavy-Duty Rectangular Frame And Grate (Campbell Foundry 3084)	2,154.42	433.36
33 42 31 00-0426	EA	6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186)	2,363.09	433.36
33 42 31 00-0427	EA	8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198)	2,363.09	433.36
33 42 31 00-0428	EA	6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266)	2,090.02	433.36
33 42 31 00-0429	EA	8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268)	2,090.02	433.36
33 42 31 00-0430	EA	Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198)	2,450.47	433.36
33 42 31 00-0431		**Catch Basin Frames And Covers** *(33 42 31 00-0001)*		
33 42 31 00-0432		**Cast Iron Frames And Covers** *(33 42 31 00-0431)*		
33 42 31 00-0433	EA	18" Diameter Cast Iron Catch Basin Frame And Cover	1,187.38	118.72
33 42 31 00-0434	EA	22" Diameter Cast Iron Catch Basin Frame And Cover	1,513.63	134.16
33 42 31 00-0435	EA	24" Diameter Cast Iron Catch Basin Frame And Cover	1,723.90	138.90
33 42 31 00-0436	EA	26" Diameter Cast Iron Catch Basin Frame And Cover	1,946.85	161.46
33 42 31 00-0437	EA	28" Diameter Cast Iron Catch Basin Frame And Cover	2,296.29	184.02
33 42 31 00-0438	EA	32" Diameter Cast Iron Catch Basin Frame And Cover	3,712.05	192.33
33 42 31 00-0439	EA	16" x 16" Cast Iron Catch Basin Frame And Cover	1,993.43	146.03
33 42 31 00-0440	EA	18" x 24" Cast Iron Catch Basin Frame And Cover	2,614.37	168.58
33 42 31 00-0441	EA	20" x 27" Cast Iron Catch Basin Frame And Cover	2,966.33	175.71
33 42 31 00-0442	EA	23" x 23" Cast Iron Catch Basin Frame And Cover	2,796.21	175.71
33 42 31 00-0443	EA	24" x 24" Cast Iron Catch Basin Frame And Cover	2,889.10	182.82
33 42 31 00-0444	EA	26" x 26" Cast Iron Catch Basin Frame And Cover	3,106.74	189.95
33 42 31 00-0445	EA	24" x 36" Cast Iron Catch Basin Frame And Cover	3,751.02	204.20

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0446		**Area Yard Drain** *(33 42 31 00-0001)* See CSI section 22 14 26 16-0001 for drains.		
33 42 31 00-0447		**Ductile Iron Grates** *(33 42 31 00-0446)* Note: Not for traffic loading.		
33 42 31 00-0448	EA	8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe	169.97	40.74
33 42 31 00-0449	EA	10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe	207.97	43.46
33 42 31 00-0450	EA	12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	481.03	54.32
33 42 31 00-0451	EA	15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	574.79	65.19
33 42 31 00-0452		**Concrete Drainage Inlet Structures (CALTRANS)** *(33 42 31 00-0001)*		
33 42 31 00-0453		**Type OS Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0454	EA	3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,768.52	
33 42 31 00-0455	EA	4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,216.19	
33 42 31 00-0456	EA	5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,631.77	
33 42 31 00-0457	EA	6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,015.24	
33 42 31 00-0458	EA	7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,366.62	
33 42 31 00-0459	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,685.89	
33 42 31 00-0460	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	6,376.15	
33 42 31 00-0461	EA	10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,433.03	
33 42 31 00-0462	EA	12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,408.41	
33 42 31 00-0463	EA	14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,304.65	
33 42 31 00-0464	EA	16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	10,166.69	
33 42 31 00-0465	EA	18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	10,959.00	
33 42 31 00-0466	EA	20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	11,681.60	
33 42 31 00-0467		**Type OL-7 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0468	EA	3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,769.89	
33 42 31 00-0469	EA	4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,188.23	
33 42 31 00-0470	EA	5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,574.47	
33 42 31 00-0471	EA	6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,928.61	
33 42 31 00-0472	EA	7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,249.45	
33 42 31 00-0473	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,539.38	
33 42 31 00-0474	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,179.45	
33 42 31 00-0475	EA	10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,211.58	
33 42 31 00-0476	EA	12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,162.20	
33 42 31 00-0477	EA	14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,032.51	
33 42 31 00-0478	EA	16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,873.08	
33 42 31 00-0479	EA	18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,643.94	
33 42 31 00-0480	EA	20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,345.08	
33 42 31 00-0481		**Type OL-10 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0482	EA	3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,692.73	
33 42 31 00-0483	EA	4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,084.28	
33 42 31 00-0484	EA	5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,442.55	
33 42 31 00-0485	EA	6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,769.91	
33 42 31 00-0486	EA	7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,063.98	
33 42 31 00-0487	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,325.95	
33 42 31 00-0488	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,982.74	
33 42 31 00-0489	EA	10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,988.93	
33 42 31 00-0490	EA	12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,915.99	
33 42 31 00-0491	EA	14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,761.55	
33 42 31 00-0492	EA	16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,579.48	
33 42 31 00-0493	EA	18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,328.88	
33 42 31 00-0494	EA	20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,007.37	
33 42 31 00-0495		**Type OL-14 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0496	EA	3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,008.27	
33 42 31 00-0497	EA	4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,360.26	
33 42 31 00-0498	EA	5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,680.14	
33 42 31 00-0499	EA	6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,967.94	
33 42 31 00-0500	EA	7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,223.63	
33 42 31 00-0501	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,447.21	
33 42 31 00-0502	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,120.74	
33 42 31 00-0503	EA	10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,091.77	
33 42 31 00-0504	EA	12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,982.49	
33 42 31 00-0505	EA	14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,792.89	
33 42 31 00-0506	EA	16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,581.50	
33 42 31 00-0507	EA	18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,299.21	
33 42 31 00-0508	EA	20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,947.19	
33 42 31 00-0509		**Type OL-21 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0510	EA	3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,678.61	
33 42 31 00-0511	EA	4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,951.96	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0512	EA	5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,193.22	
33 42 31 00-0513	EA	6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,402.39	
33 42 31 00-0514	EA	7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,578.26	
33 42 31 00-0515	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,723.21	
33 42 31 00-0516	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,346.53	
33 42 31 00-0517	EA	10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,248.28	
33 42 31 00-0518	EA	12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,069.71	
33 42 31 00-0519	EA	14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,810.80	
33 42 31 00-0520	EA	16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,539.23	
33 42 31 00-0521	EA	18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,196.76	
33 42 31 00-0522	EA	20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,784.57	
33 42 31 00-0523		**Type GOL-7 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0524	EA	3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,574.92	
33 42 31 00-0525	EA	4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,036.65	
33 42 31 00-0526	EA	5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,461.50	
33 42 31 00-0527	EA	6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,849.48	
33 42 31 00-0528	EA	7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,201.79	
33 42 31 00-0529	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,518.40	
33 42 31 00-0530	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,300.71	
33 42 31 00-0531	EA	10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,450.22	
33 42 31 00-0532	EA	12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,509.41	
33 42 31 00-0533	EA	14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,477.09	
33 42 31 00-0534	EA	16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,413.38	
33 42 31 00-0535	EA	18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,271.26	
33 42 31 00-0536	EA	20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,049.52	
33 42 31 00-0537		**Type GOL-10 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0538	EA	3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,576.30	
33 42 31 00-0539	EA	4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,007.50	
33 42 31 00-0540	EA	5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,403.01	
33 42 31 00-0541	EA	6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,762.85	
33 42 31 00-0542	EA	7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,085.82	
33 42 31 00-0543	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,371.90	
33 42 31 00-0544	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,154.22	
33 42 31 00-0545	EA	10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,276.76	
33 42 31 00-0546	EA	12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,308.98	
33 42 31 00-0547	EA	14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,250.89	
33 42 31 00-0548	EA	16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,163.71	
33 42 31 00-0549	EA	18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,998.12	
33 42 31 00-0550	EA	20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,754.08	
33 42 31 00-0551		**Type G-1 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0552	EA	3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,865.31	
33 42 31 00-0553	EA	4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,229.90	
33 42 31 00-0554	EA	5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,567.56	
33 42 31 00-0555	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,880.64	
33 42 31 00-0556	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,169.16	
33 42 31 00-0557	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,430.74	
33 42 31 00-0558		**Type G-2 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0559	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,572.16	
33 42 31 00-0560	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,981.86	
33 42 31 00-0561	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,362.22	
33 42 31 00-0562	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,713.24	
33 42 31 00-0563	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,034.92	
33 42 31 00-0564	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,326.08	
33 42 31 00-0565	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,857.36	
33 42 31 00-0566	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,832.43	
33 42 31 00-0567	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,733.68	
33 42 31 00-0568	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,561.09	
33 42 31 00-0569	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,357.00	
33 42 31 00-0570	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,088.86	
33 42 31 00-0571	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,755.48	
33 42 31 00-0572		**Type G-3 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0573	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,022.39	
33 42 31 00-0574	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,381.87	
33 42 31 00-0575	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,715.60	
33 42 31 00-0576	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,024.75	
33 42 31 00-0577	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,306.97	
33 42 31 00-0578	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,564.61	
33 42 31 00-0579		**Type G-4_24 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0580	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,493.62	
33 42 31 00-0581	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,905.88	
33 42 31 00-0582	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,288.80	
33 42 31 00-0583	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,641.19	
33 42 31 00-0584	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,965.42	
33 42 31 00-0585	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,259.13	
33 42 31 00-0586	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,823.88	
33 42 31 00-0587	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,800.84	
33 42 31 00-0588	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,702.76	
33 42 31 00-0589	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,530.86	
33 42 31 00-0590	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,327.32	
33 42 31 00-0591	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,059.73	
33 42 31 00-0592	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,728.08	
33 42 31 00-0593		**Type G-4_18 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0594	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,572.16	
33 42 31 00-0595	EA	4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,981.86	
33 42 31 00-0596	EA	5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,362.22	
33 42 31 00-0597	EA	6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,713.24	
33 42 31 00-0598	EA	7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,034.92	
33 42 31 00-0599	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,326.08	
33 42 31 00-0600	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,857.36	
33 42 31 00-0601	EA	10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,832.43	
33 42 31 00-0602	EA	12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,733.68	
33 42 31 00-0603	EA	14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,561.09	
33 42 31 00-0604	EA	16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,357.00	
33 42 31 00-0605	EA	18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,088.86	
33 42 31 00-0606	EA	20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,755.48	
33 42 31 00-0607		**Type G-5 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0608	EA	3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,002.75	
33 42 31 00-0609	EA	4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,362.58	
33 42 31 00-0610	EA	5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,697.83	
33 42 31 00-0611	EA	6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,006.14	
33 42 31 00-0612	EA	7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,289.89	
33 42 31 00-0613	EA	8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,547.89	
33 42 31 00-0614		**Type G-6 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0615	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,042.02	
33 42 31 00-0616	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,401.16	
33 42 31 00-0617	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,734.55	
33 42 31 00-0618	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,042.18	
33 42 31 00-0619	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,324.05	
33 42 31 00-0620	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,581.35	
33 42 31 00-0621		**Type GT1 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0622	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,416.46	
33 42 31 00-0623	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,978.38	
33 42 31 00-0624	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,538.03	
33 42 31 00-0625	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,982.05	
33 42 31 00-0626	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,422.60	
33 42 31 00-0627	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,823.88	
33 42 31 00-0628		**Type GT2 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0629	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,142.96	
33 42 31 00-0630	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,754.69	
33 42 31 00-0631	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,321.05	
33 42 31 00-0632	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,843.24	
33 42 31 00-0633	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,320.05	
33 42 31 00-0634	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,752.69	
33 42 31 00-0635	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,037.06	
33 42 31 00-0636	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,474.60	
33 42 31 00-0637	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,801.57	
33 42 31 00-0638	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,019.12	
33 42 31 00-0639	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,192.10	
33 42 31 00-0640	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,269.00	
33 42 31 00-0641	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,249.82	
33 42 31 00-0642		**Type GT3 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0643	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,396.83	
33 42 31 00-0644	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,959.10	
33 42 31 00-0645	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,482.09	
33 42 31 00-0646	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,964.64	
33 42 31 00-0647	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,405.53	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0648	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,807.16	
33 42 31 00-0649		**Type GT4 Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0650	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,280.40	
33 42 31 00-0651	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,887.36	
33 42 31 00-0652	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,450.13	
33 42 31 00-0653	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,967.56	
33 42 31 00-0654	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,440.79	
33 42 31 00-0655	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,869.84	
33 42 31 00-0656	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,053.80	
33 42 31 00-0657	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,491.01	
33 42 31 00-0658	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,817.61	
33 42 31 00-0659	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,033.64	
33 42 31 00-0660	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,206.34	
33 42 31 00-0661	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,282.97	
33 42 31 00-0662	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,263.53	
33 42 31 00-0663		**Type GO Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0664	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,434.72	
33 42 31 00-0665	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,829.89	
33 42 31 00-0666	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,196.42	
33 42 31 00-0667	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,534.29	
33 42 31 00-0668	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,843.50	
33 42 31 00-0669	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,125.25	
33 42 31 00-0670	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,673.27	
33 42 31 00-0671	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,619.37	
33 42 31 00-0672	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,491.96	
33 42 31 00-0673	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,293.41	
33 42 31 00-0674	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,065.89	
33 42 31 00-0675	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,774.34	
33 42 31 00-0676	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,421.11	
33 42 31 00-0677		**Type GDO Concrete Drainage Inlet Structure** *(33 42 31 00-0452)*		
33 42 31 00-0678	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,180.85	
33 42 31 00-0679	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,700.28	
33 42 31 00-0680	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,182.23	
33 42 31 00-0681	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,627.88	
33 42 31 00-0682	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,034.85	
33 42 31 00-0683	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,405.50	
33 42 31 00-0684	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,296.59	
33 42 31 00-0685	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,515.96	
33 42 31 00-0686	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,642.19	
33 42 31 00-0687	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,676.44	
33 42 31 00-0688	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,671.85	
33 42 31 00-0689	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	12,586.32	
33 42 31 00-0690	EA	20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	13,419.86	
33 42 33		**Stormwater Curbside Drains and Inlets** *(33 42)*		
33 42 33 00-0001		Curb Inlet Frames And Covers *(33 42 33)*		
33 42 33 00-0002		Cast Iron Curb Inlet Frames And Covers *(33 42 33 00-0001)*		
33 42 33 00-0003	EA	20" x 22" Cast Iron Curb Inlet Frame And Cover	2,504.95	138.90
33 42 33 00-0004	EA	22" x 24" Cast Iron Curb Inlet Frame And Cover	2,676.10	161.46
33 42 33 00-0005	EA	24" x 24" Cast Iron Curb Inlet Frame And Cover	2,787.56	161.46
33 42 33 00-0006	EA	27" x 27" Cast Iron Curb Inlet Frame And Cover	3,052.00	189.95
33 42 33 00-0007	EA	36" x 24" Cast Iron Curb Inlet Frame And Cover	3,012.80	203.01
33 42 36		**Stormwater Trench Drains** *(33 42)*		
33 42 36 00-0001		Modular Trench Drains *(33 42 36)*		
33 42 36 00-0002		Modular Trench Drains *(33 42 36 00-0001)* Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		
33 42 36 00-0003		4" Wide, Modular Trench Drains *(33 42 36 00-0002)*		
33 42 36 00-0004		4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains *(33 42 36 00-0003)*		
33 42 36 00-0005		4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains *(33 42 36 00-0004)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0006	LF	4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain (Zurn Z844-C)	73.14	19.00
		For Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*109.19*	
		For Galvanized Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*218.38*	
		For Stainless Steel Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*349.41*	
		For Type 304 Stainless Steel Top Veneer Frame, Add	*87.35*	
		For Aluminum Veneer Bronze Anodized Frame, Add	*43.68*	
33 42 36 00-0007		Outlet Adapters For 4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains *(33 42 36 00-0004)*		
33 42 36 00-0008	EA	Closed End Cap For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain	55.52	
33 42 36 00-0009	EA	No-Hub End Outlet For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain	67.39	
33 42 36 00-0010	EA	No-Hub Bottom Outlet For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain	67.39	
33 42 36 00-0011		6" Wide, Modular Trench Drains *(33 42 36 00-0002)*		
33 42 36 00-0012		6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0011)*		
33 42 36 00-0013		6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0012)*		
33 42 36 00-0014	LF	6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain	224.80	19.00
		For Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*109.19*	
		For Galvanized Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*218.38*	
		For Stainless Steel Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*349.41*	
		For Type 304 Stainless Steel Top Veneer Frame, Add	*87.35*	
		For Aluminum Veneer Bronze Anodized Frame, Add	*43.68*	
33 42 36 00-0015		Outlet Adapters For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0012)*		
33 42 36 00-0016	EA	Closed End Cap For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	102.37	
33 42 36 00-0017	EA	No-Hub End Outlet For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	114.24	
33 42 36 00-0018	EA	No-Hub Bottom Outlet For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	114.24	
33 42 36 00-0019		Other Fittings For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0012)*		
33 42 36 00-0020	EA	Bottom Dome Strainer For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	196.87	
33 42 36 00-0021	EA	Joint Connector For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	196.87	
33 42 36 00-0022	EA	90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	932.88	
33 42 36 00-0023	EA	Cross For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	1,806.40	
33 42 36 00-0024	EA	Cutting Charge For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	218.38	
33 42 36 00-0025		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0011)*		
33 42 36 00-0026		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0025)*		
33 42 36 00-0027	LF	6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	327.44	19.00
		For Black Acid Resistant Coated Frame, Add	*82.98*	
		For Galvanized Top Frame Assembly, Add	*82.98*	
		For Type 304 Stainless Steel Top Frame Assembly, Add	*305.73*	
33 42 36 00-0028		Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0025)*		
33 42 36 00-0029	EA	Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	111.10	
33 42 36 00-0030	EA	No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	122.97	
33 42 36 00-0031	EA	No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	122.97	
33 42 36 00-0032		Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0025)*		
33 42 36 00-0033	EA	Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	196.87	
33 42 36 00-0034	EA	Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	196.87	
33 42 36 00-0035	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	932.88	
33 42 36 00-0036	EA	Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,806.40	
33 42 36 00-0037	EA	Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	218.38	
33 42 36 00-0038		6" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0011)*		
33 42 36 00-0039		6" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0038)*		
33 42 36 00-0040	LF	6" Wide, Vinylester Fiberglass, Modular Trench Drain	423.53	19.00
		For Black Acid Resistant Coated Frame, Add	*82.98*	
		For Galvanized Top Frame Assembly, Add	*82.98*	
		For Type 304 Stainless Steel Top Frame Assembly, Add	*305.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0041		Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0038)*		
33 42 36 00-0042	EA	Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	180.98	
33 42 36 00-0043	EA	No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	192.85	
33 42 36 00-0044	EA	No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	192.85	
33 42 36 00-0045		Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0038)*		
33 42 36 00-0046	EA	Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	196.87	
33 42 36 00-0047	EA	Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	196.87	
33 42 36 00-0048	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	932.88	
33 42 36 00-0049	EA	Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	1,806.40	
33 42 36 00-0050	EA	Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	218.38	
33 42 36 00-0051		6" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0011)*		
33 42 36 00-0052		6" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0051)*		
33 42 36 00-0053	LF	6" Wide, Polymer Concrete, Modular Trench Drain	506.38	
33 42 36 00-0054		Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0051)*		
33 42 36 00-0055	EA	Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain	200.78	
33 42 36 00-0056	EA	No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	244.60	
33 42 36 00-0057	EA	No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	77.42	
33 42 36 00-0058		12" Wide, Modular Trench Drains *(33 42 36 00-0002)*		
33 42 36 00-0059		12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0058)*		
33 42 36 00-0060		12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0059)*		
33 42 36 00-0061	LF	12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain	423.49	26.11
		For Acid Resistant Coated Top Frame, Add	*113.56*	
		For Galvanized Welded Frame Assembly, Add	*119.02*	
		For Type 304 Stainless Steel Top Frame, Add	*681.35*	
33 42 36 00-0062		Outlet Adapters For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0059)*		
33 42 36 00-0063	EA	End Cap For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	210.73	
33 42 36 00-0064	EA	No-Hub End Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	226.56	
33 42 36 00-0065	EA	No-Hub Bottom Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	226.56	
33 42 36 00-0066		Other Fittings For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0059)*		
33 42 36 00-0067	EA	Bottom Dome Strainer For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	351.92	
33 42 36 00-0068	EA	Joint Connector For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	461.11	
33 42 36 00-0069	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	1,838.36	
33 42 36 00-0070	EA	Cross For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	3,585.40	
33 42 36 00-0071	EA	Cutting Charges For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	436.76	
33 42 36 00-0072		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0058)*		
33 42 36 00-0073		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0072)*		
33 42 36 00-0074	LF	12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	532.68	26.11
		For Acid Resistant Coated Top Frame, Add	*113.56*	
		For Galvanized Welded Frame Assembly, Add	*119.02*	
		For Type 304 Stainless Steel Top Frame, Add	*681.35*	
33 42 36 00-0075		Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0072)*		
33 42 36 00-0076	EA	End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	219.47	
33 42 36 00-0077	EA	No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	235.30	
33 42 36 00-0078	EA	No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	235.30	
33 42 36 00-0079		Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0072)*		
33 42 36 00-0080	EA	Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	351.92	
33 42 36 00-0081	EA	Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	461.11	
33 42 36 00-0082	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,838.36	
33 42 36 00-0083	EA	Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	3,585.40	
33 42 36 00-0084	EA	Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	436.76	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0085		12" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0058)*		
33 42 36 00-0086		12" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0085)*		
33 42 36 00-0087	LF	12" Wide, Vinylester Fiberglass, Modular Trench Drain	751.06	26.11
		For Acid Resistant Coated Top Frame, Add	*113.56*	
		For Galvanized Welded Frame Assembly, Add	*119.02*	
		For Type 304 Stainless Steel Top Frame, Add	*681.35*	
33 42 36 00-0088		Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0085)*		
33 42 36 00-0089	EA	End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	547.04	
33 42 36 00-0090	EA	No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	562.87	
33 42 36 00-0091	EA	No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	562.87	
33 42 36 00-0092		Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0085)*		
33 42 36 00-0093	EA	Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	351.92	
33 42 36 00-0094	EA	Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	461.11	
33 42 36 00-0095	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,838.36	
33 42 36 00-0096	EA	Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	3,585.40	
33 42 36 00-0097	EA	Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	436.76	
33 42 36 00-0098		12" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0058)*		
33 42 36 00-0099		12" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0098)*		
33 42 36 00-0100	LF	12" Wide, Polymer Concrete, Modular Trench Drain	679.19	
33 42 36 00-0101		Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0098)*		
33 42 36 00-0102	EA	Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain	341.52	
33 42 36 00-0103	EA	No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	588.44	
33 42 36 00-0104	EA	No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	135.90	
33 42 36 00-0105		23" Wide, Modular Trench Drains *(33 42 36 00-0002)*		
33 42 36 00-0106		23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0105)*		
33 42 36 00-0107		23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0106)*		
33 42 36 00-0108	LF	23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain	593.76	35.62
		For Acid Resistant Coated Frame, Add	*170.34*	
		For Galvanized Frame Assembly, Add	*170.34*	
		For Type 304 Stainless Steel Top Frame, Add	*1,048.22*	
33 42 36 00-0109		Outlet Adapters For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0106)*		
33 42 36 00-0110	EA	End Cap For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	671.14	
33 42 36 00-0111	EA	No-Hub End Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	979.04	
33 42 36 00-0112	EA	No-Hub Bottom Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	979.04	
33 42 36 00-0113		Other Fittings For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains *(33 42 36 00-0106)*		
33 42 36 00-0114	EA	Bottom Dome Strainer For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	799.95	
33 42 36 00-0115	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	3,642.46	
33 42 36 00-0116	EA	Cross For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	7,136.54	
33 42 36 00-0117	EA	Cutting Charges For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	873.52	
33 42 36 00-0118		Modular Trench Drain Grates *(33 42 36 00-0001)*		
33 42 36 00-0119		4" Wide, Modular Trench Drain Grates *(33 42 36 00-0118)*		
33 42 36 00-0120	LF	4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	46.44	3.56
33 42 36 00-0121	LF	4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG)	48.83	3.56
33 42 36 00-0122	LF	4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG)	39.29	3.56
33 42 36 00-0123	LF	4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS)	104.83	3.56
33 42 36 00-0124	LF	4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG)	39.29	3.56
33 42 36 00-0125	LF	4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	104.83	3.56
33 42 36 00-0126		6" Wide, Modular Trench Drain Grates *(33 42 36 00-0118)*		
33 42 36 00-0127	LF	6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	215.57	3.56

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0128	LF	6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate	182.60	3.56
33 42 36 00-0129	LF	6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	191.77	3.56
33 42 36 00-0130	LF	6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	167.53	3.56
33 42 36 00-0131	LF	6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	180.63	3.56
33 42 36 00-0132	LF	6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	182.82	3.56
33 42 36 00-0133	LF	6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	182.82	3.56
33 42 36 00-0134	LF	6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	180.63	3.56
33 42 36 00-0135	LF	6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate	158.80	3.56
33 42 36 00-0136	LF	6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	158.80	3.56
33 42 36 00-0137	LF	6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	168.84	3.56
33 42 36 00-0138	LF	6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	168.84	3.56
33 42 36 00-0139	LF	6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	219.94	3.56
33 42 36 00-0140	LF	6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	219.94	3.56
33 42 36 00-0141	LF	6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	403.38	3.56
33 42 36 00-0142	LF	6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	403.38	3.56
33 42 36 00-0143	LF	6" Wide, Stainless Steel Bar, Modular Trench Drain Grate	1,124.04	3.56
33 42 36 00-0144	LF	6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	150.06	3.56
33 42 36 00-0145	LF	6" Wide, Fiberglass, Modular Trench Drain Grate	324.76	3.56
33 42 36 00-0146		12" Wide, Modular Trench Drain Grates *(33 42 36 00-0118)*		
33 42 36 00-0147	LF	12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate	596.16	3.86
33 42 36 00-0148	LF	12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	569.95	3.86
33 42 36 00-0149	LF	12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	495.70	3.86
33 42 36 00-0150	LF	12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	520.81	3.86
33 42 36 00-0151	LF	12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	449.84	3.86
33 42 36 00-0152	LF	12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	881.14	3.86
33 42 36 00-0153	LF	12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	881.14	3.86
33 42 36 00-0154	LF	12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	1,124.64	3.86
33 42 36 00-0155	LF	12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	1,124.64	3.86
33 42 36 00-0156	LF	12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	1,435.83	3.86
33 42 36 00-0157	LF	12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	1,435.83	3.86
33 42 36 00-0158	LF	12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	1,362.67	3.86
33 42 36 00-0159	LF	12" Wide, Fiberglass, Modular Trench Drain Grate	643.11	3.86
33 42 36 00-0160		23" Wide, Modular Trench Drain Grates *(33 42 36 00-0118)*		
33 42 36 00-0161	LF	23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	941.80	4.16
33 42 36 00-0162	LF	23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	793.30	4.16
33 42 36 00-0163	LF	23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	1,230.06	4.16
33 42 36 00-0164	LF	23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate	911.22	4.16

33 44 Storm Utility Water Drains *(33 40)*

33 44 33 Stormwater Trash and Debris Guards *(33 44)*

33 44 33 00-0001 Storm Water Trash Collection *(33 44 33)*

33 44 33 00-0002 Trash Racks And Debris Cages For Storm Water Structures *(33 44 33 00-0001)*

33 44 33 00-0003 High-Density Polyethylene (HDPE) Structural Trash Rack And Debris Cage *(33 44 33 00-0002)*

33 44 33 00-0004	EA	30" Diameter High-Density Polyethylene (HDPE) Pyramid Trash Rack Note: For 24" inside diameter concrete pipe.	2,388.51	147.44
33 44 33 00-0005	EA	44" Diameter High-Density Polyethylene (HDPE) Pyramid Trash Rack Note: For 36" inside diameter concrete pipe.	2,815.80	162.18
33 44 33 00-0006	EA	58" Diameter High-Density Polyethylene (HDPE) Pyramid Trash Rack Note: For 48" inside diameter concrete pipe.	3,953.46	184.30
33 44 33 00-0007	EA	72" Diameter High-Density Polyethylene (HDPE) Pyramid Trash Rack Note: For 60" inside diameter concrete pipe.	5,049.74	221.15
33 44 33 00-0008	SF	Up To 4 SF Opening Flat Roof High-Density Polyethylene (HDPE) Trash Rack	210.77	22.11
33 44 33 00-0009	SF	>4 To 8 SF Opening Flat Roof High-Density Polyethylene (HDPE) Trash Rack	150.73	18.43
33 44 33 00-0010	SF	>8 To 12 SF Opening Flat Roof High-Density Polyethylene (HDPE) Trash Rack	119.90	14.74
33 44 33 00-0011	SF	>12 To 20 SF Opening Flat Roof High-Density Polyethylene (HDPE) Trash Rack	106.16	12.90
33 44 33 00-0012	SF	>20 To 35 SF Opening Flat Roof High-Density Polyethylene (HDPE) Trash Rack	100.08	11.06
33 44 33 00-0013	SF	>35 To 55 SF Opening Flat Roof High-Density Polyethylene (HDPE) Trash Rack	90.57	9.23
33 44 33 00-0014	SF	Up To 4 SF Opening Arched Roof High-Density Polyethylene (HDPE) Trash Rack	256.10	22.11
33 44 33 00-0015	SF	>4 To 8 SF Opening Arched Roof High-Density Polyethylene (HDPE) Trash Rack	182.27	18.43
33 44 33 00-0016	SF	>8 To 12 SF Opening Arched Roof High-Density Polyethylene (HDPE) Trash Rack	144.96	14.74
33 44 33 00-0017	SF	>12 To 20 SF Opening Arched Roof High-Density Polyethylene (HDPE) Trash Rack	128.41	12.90
33 44 33 00-0018	SF	>20 To 35 SF Opening Arched Roof High-Density Polyethylene (HDPE) Trash Rack	121.42	11.06
33 44 33 00-0019	SF	>35 To 55 SF Opening Arched Roof High-Density Polyethylene (HDPE) Trash Rack	110.15	9.23

33 44 33 00-0020 Galvanized Steel Structural Trash Rack And Debris Cage *(33 44 33 00-0002)*

33 44 33 00-0021	EA	30" Diameter Galvanized Steel Pyramid Trash Rack With Baffle Note: For 24" inside diameter concrete pipe.	4,188.11	221.15
33 44 33 00-0022	EA	44" Diameter Galvanized Steel Pyramid Trash Rack With Baffle Note: For 36" inside diameter concrete pipe.	5,193.96	245.73
33 44 33 00-0023	EA	58" Diameter Galvanized Steel Pyramid Trash Rack With Baffle Note: For 48" inside diameter concrete pipe.	5,921.64	275.22

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 33 00-0024	EA	72" Diameter Galvanized Steel Pyramid Trash Rack With Baffle Note: For 60" inside diameter concrete pipe.	6,571.41	331.73
33 44 33 00-0025	SF	Up To 4 SF Opening Flat Roof Galvanized Steel Trash Rack	252.71	33.17
33 44 33 00-0026	SF	>4 To 8 SF Opening Flat Roof Galvanized Steel Trash Rack	181.94	27.64
33 44 33 00-0027	SF	>8 To 12 SF Opening Flat Roof Galvanized Steel Trash Rack	144.77	22.11
33 44 33 00-0028	SF	>12 To 20 SF Opening Flat Roof Galvanized Steel Trash Rack	128.12	19.35
33 44 33 00-0029	SF	>20 To 35 SF Opening Flat Roof Galvanized Steel Trash Rack	120.25	16.58
33 44 33 00-0030	SF	>35 To 55 SF Opening Flat Roof Galvanized Steel Trash Rack	108.46	13.82

33 44 36 Oil and Stormwater Separators *(33 44)*

33 44 36 00-0001 Oil Water Separator *(33 44 36)*

Note: Complete with internal sensors and detectors.

33 44 36 00-0002 Coalescing Oil Water Separator *(33 44 36 00-0001)*

Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.

33 44 36 00-0003 Single Wall Steel Coalescing Oil Water Separator *(33 44 36 00-0002)*

33 44 36 00-0004	EA	550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.	20,226.04
		For Interior Polyurethane Coating, Add	*711.00*
33 44 36 00-0005	EA	1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank.	24,721.49
		For Interior Polyurethane Coating, Add	*893.70*
33 44 36 00-0006	EA	2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank.	29,583.82
		For Interior Polyurethane Coating, Add	*1,340.10*

33 44 36 00-0007 Double Wall Steel Coalescing Oil Water Separator *(33 44 36 00-0002)*

33 44 36 00-0008	EA	550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.	31,353.29
		For Interior Polyurethane Coating, Add	*711.00*
33 44 36 00-0009	EA	1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank.	36,045.79
		For Interior Polyurethane Coating, Add	*893.70*
33 44 36 00-0010	EA	2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank.	43,991.25
		For Interior Polyurethane Coating, Add	*1,340.10*
33 44 36 00-0011	EA	3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.	51,181.42
		For Interior Polyurethane Coating, Add	*1,550.70*
33 44 36 00-0012	EA	5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 5000. 6' diameter x 28'-8" long tank.	67,945.29
		For Interior Polyurethane Coating, Add	*2,057.80*

33 44 36 00-0013 Accessories For Coalescing Oil Water Separators *(33 44 36 00-0002)*

33 44 36 00-0014	EA	Single Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP1.	1,214.16
33 44 36 00-0015	EA	Two Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP2.	1,655.01
33 44 36 00-0016	EA	Float Interface Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	991.52
33 44 36 00-0017	EA	1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	727.91
33 44 36 00-0018	EA	Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	233.62
33 44 36 00-0019	EA	550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	4,311.90
33 44 36 00-0020	EA	3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	8,623.80
33 44 36 00-0021	EA	5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	12,935.81
33 44 36 00-0022	EA	550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	779.64
33 44 36 00-0023	EA	2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	920.23
33 44 36 00-0024	EA	3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,840.47
33 44 36 00-0025	EA	5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	4,078.80
33 44 36 00-0026	EA	30" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	1,109.16
33 44 36 00-0027	EA	36" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	1,444.96
33 44 36 00-0028	EA	48" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	2,000.46
33 44 36 00-0029	EA	54" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	3,643.67
33 44 36 00-0030	EA	66" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	4,684.96
33 44 36 00-0031	EA	66" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	5,880.02

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0032	EA	78" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	7,413.40	
33 44 36 00-0033	EA	550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,465.27	
33 44 36 00-0034	EA	1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,786.01	
33 44 36 00-0035	EA	2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	2,805.33	
33 44 36 00-0036	EA	550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,397.17	
33 44 36 00-0037	EA	1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,695.94	
33 44 36 00-0038	EA	2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	2,012.28	
33 44 36 00-0039	EA	18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	118.63	
33 44 36 00-0040	EA	24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	134.01	
33 44 36 00-0041		Oil Skimmers *(33 44 36)*		
33 44 36 00-0042		Oil Skimmers, 12" And 24" Models *(33 44 36 00-0041)*		
33 44 36 00-0043	EA	Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,285.10	717.99
33 44 36 00-0044	EA	Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,520.90	717.99
33 44 36 00-0045	EA	Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,306.94	717.99
33 44 36 00-0046	EA	Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,609.32	717.99
33 44 36 00-0047	EA	Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,554.74	717.99
33 44 36 00-0048	EA	Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,754.51	717.99
33 44 36 00-0049	EA	Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,606.04	717.99
33 44 36 00-0050	EA	Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,907.34	717.99
33 44 36 00-0051	EA	Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	6,017.32	957.53
33 44 36 00-0052	EA	Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	6,269.49	957.53
33 44 36 00-0053	EA	Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,083.91	957.53
33 44 36 00-0054	EA	Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,446.34	957.53
33 44 36 00-0055	EA	Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,654.84	957.53
33 44 36 00-0056	EA	Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,907.01	957.53
33 44 36 00-0057	EA	Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,708.33	957.53
33 44 36 00-0058	EA	Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	7,071.85	957.53
33 44 36 00-0059		Oil Skimmers, Add-Ons *(33 44 36 00-0041)*		
33 44 36 00-0060	LF	Add For Belt Projection, 12" Width	16.37	
33 44 36 00-0061	LF	Add For Belt Projection, 24" Width	30.57	
33 44 36 00-0062	LF	Add For Spacer Stands, 12" Models	281.21	
33 44 36 00-0063	LF	Add For Spacer Stands, 24" Models	329.24	
33 44 36 00-0064		Inclined Plate Hydrodynamic Separator *(33 44 36)* Note: Includes precast base, riser and lid slab, aluminum incline plate assembly, sludge dispersion manifold, oil sorbent booms, two manhole frames and covers, and joint sealer. Terre Kleen as manufactured by Terre Hill Storm Water Systems, Terre Hill, PA.		
33 44 36 00-0065	EA	4'-6" x 6'-0" x 8'-10" Inclined Plate Hydrodynamic Separator (Terre Hill TK09)	48,648.72	
		For Each VLF Of Riser, Add	*450.00*	
33 44 36 00-0066	EA	6'-6" x 6'-0" x 8'-10" Inclined Plate Hydrodynamic Separator (Terre Hill TK18)	75,498.62	
		For Each VLF Of Riser, Add	*525.00*	
33 44 36 00-0067	EA	8'-6" x 6'-0" x 8'-10" Inclined Plate Hydrodynamic Separator (Terre Hill TK27)	90,144.02	
		For Each VLF Or Riser, Add	*600.00*	

33 46 Stormwater Management *(33 40)*

33 46 23 Modular Buried Stormwater Storage Units *(33 46)*

33 46 23 00-0001		Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) *(33 46 23)* Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.		
33 46 23 00-0002		85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) *(33 46 23 00-0001)*		
33 46 23 00-0003	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	618.11	
33 46 23 00-0004	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	571.03	
33 46 23 00-0005	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	536.72	
33 46 23 00-0006	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	503.54	
33 46 23 00-0007	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	254.63	
33 46 23 00-0008	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	225.72	
33 46 23 00-0009	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	208.68	
33 46 23 00-0010	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	191.90	
33 46 23 00-0011		85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) *(33 46 23 00-0001)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0012	EA	Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	350.41	
33 46 23 00-0013	EA	>10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	321.37	
33 46 23 00-0014	EA	>20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	300.98	
33 46 23 00-0015	EA	>30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	282.29	
33 46 23 00-0016	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	198.71	
33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	177.25	
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	164.04	
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	152.20	
33 46 23 00-0020		90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) *(33 46 23 00-0001)*		
33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	1,055.06	
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	984.14	
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	926.99	
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	874.87	
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	887.84	
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	825.26	
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	776.07	
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	731.49	
33 46 23 00-0029		85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) *(33 46 23 00-0001)*		
33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	642.09	
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	593.83	
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	558.36	
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	524.09	
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	254.63	
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	221.19	
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	208.68	
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	191.90	
33 46 23 00-0038		52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) *(33 46 23 00-0001)*		
33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	1,096.33	
33 46 23 00-0040	EA	>10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	1,021.34	
33 46 23 00-0041	EA	>20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	960.15	
33 46 23 00-0042	EA	>30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	906.96	
33 46 23 00-0043	EA	Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	1,367.07	
33 46 23 00-0044	EA	>10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	1,278.52	
33 46 23 00-0045	EA	>20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	1,204.49	
33 46 23 00-0046	EA	>30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	1,139.08	
33 46 23 00-0047		Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers *(33 46 23 00-0001)*		
33 46 23 00-0048	EA	Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	64.82	
33 46 23 00-0049	EA	Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	82.35	
33 46 23 00-0050	EA	Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	107.54	
33 46 23 00-0051	EA	Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	135.87	
33 46 23 00-0052	EA	12" x 6" Inspection Port Kit Note: (2712AG6IPKIT)	776.12	

33 46 53 Stormwater Leaching Pits *(33 46)*

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 53 00-0001		Drainage Wells *(33 46 53)*		
		Note: Includes augering hole.		
33 46 53 00-0002	LF	12" Diameter Drainage Well With Corrugated Metal Liner	35.62	
33 46 53 00-0003	LF	18" Diameter Drainage Well With Corrugated Metal Liner	43.86	
33 46 53 00-0004	LF	24" Diameter Drainage Well With Corrugated Metal Liner	59.26	
33 46 53 00-0005		Dry Well Hole Augering In Soil *(33 46 53)*		
33 46 53 00-0006	VLF	Up To 2-1/2" Diameter Dry Well Hole, Augering In Soil	9.80	
33 46 53 00-0007	VLF	2-1/2" Diameter Dry Well Hole, Augering In Soil	12.25	
33 46 53 00-0008	VLF	3" Diameter Dry Well Hole, Augering In Soil	14.52	
33 46 53 00-0009	VLF	4" Diameter Dry Well Hole, Augering In Soil	16.34	
33 46 53 00-0010	VLF	6" Diameter Dry Well Hole, Augering In Soil	17.82	
33 46 53 00-0011	VLF	8" Diameter Dry Well Hole, Augering In Soil	19.61	
33 46 53 00-0012	VLF	10" Diameter Dry Well Hole, Augering In Soil	21.79	
33 46 53 00-0013	VLF	12" Diameter Dry Well Hole, Augering In Soil	24.51	
33 46 53 00-0014	VLF	18" Diameter Dry Well Hole, Augering In Soil	28.01	
33 46 53 00-0015	VLF	24" Diameter Dry Well Hole, Augering In Soil	32.68	
33 46 53 00-0016	VLF	30" Diameter Dry Well Hole, Augering In Soil	39.22	
33 46 53 00-0017	VLF	36" Diameter Dry Well Hole, Augering In Soil	49.02	

33 50 Hydrocarbon Utilities *(33)*

33 52 Hydrocarbon Transmission and Distribution *(33 50)*

33 52 16 Gas Hydrocarbon Piping *(33 52)*

33 52 16 13 Steel Natural Gas Piping *(33 52 16)*

33 52 16 13-0001		Gas Distribution Lines *(33 52 16 13)*		
		Note: Excludes excavation and backfill.		
33 52 16 13-0002		Steel, Schedule 40, Plain End, Coal Tar Enamel And Wrapped *(33 52 16 13-0001)*		
33 52 16 13-0003	LF	1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	20.58	3.18
33 52 16 13-0004	LF	3/4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	23.71	3.50
33 52 16 13-0005	LF	1" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	27.14	3.59
33 52 16 13-0006	LF	1-1/4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	27.84	3.68
33 52 16 13-0007	LF	1-1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	28.90	3.73
33 52 16 13-0008	LF	2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	30.61	3.99
33 52 16 13-0009	LF	2-1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	42.83	4.76
33 52 16 13-0010	LF	3" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	53.39	6.00
33 52 16 13-0011	LF	4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	71.91	7.25
33 52 16 13-0012	LF	5" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	97.07	8.41
33 52 16 13-0013	LF	6" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	122.04	10.27
33 52 16 13-0014	LF	8" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	177.54	13.20
33 52 16 13-0015		Gas Line Taps *(33 52 16 13-0001)*		
		Note: Includes material to tap into main and gas valve.		
33 52 16 13-0016		Polyethylene, 60 PSI *(33 52 16 13-0015)*		
33 52 16 13-0017	EA	2" Polyethylene Hot Tap, With Valve	2,616.40	
33 52 16 13-0018	EA	2-1/2" Polyethylene Hot Tap, With Valve	3,707.22	
33 52 16 13-0019	EA	3" Polyethylene Hot Tap, With Valve	3,881.44	
33 52 16 13-0020	EA	4" Polyethylene Hot Tap, With Valve	4,580.51	
33 52 16 13-0021	EA	6" Polyethylene Hot Tap, With Valve	7,104.55	
33 52 16 13-0022		Steel, Schedule 40 *(33 52 16 13-0015)*		
		Note: For punch steel service tee.		
33 52 16 13-0023	EA	1/2" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	3,058.09	
33 52 16 13-0024	EA	3/4" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	3,109.92	
33 52 16 13-0025	EA	3/4" Iron Pipe Size Weld Base, 3/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	3,180.54	
33 52 16 13-0026	EA	3/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	3,248.98	
33 52 16 13-0027	EA	1" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	3,300.64	
33 52 16 13-0028	EA	1-1/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Value Steel Service Tee	3,593.89	
33 52 16 13-0029	EA	1-1/4" Iron Pipe Size Weld Base, 1-1/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	3,683.65	
33 52 16 13-0030		Protective Pipe And Fitting Wrap *(33 52 16 13-0001)*		
		Note: Includes cleaning and priming pipe.		
33 52 16 13-0031		Corrosion Protection Pipe Wrap For Pipe *(33 52 16 13-0030)*		
		Note: Field applied.		
33 52 16 13-0032	LF	1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	4.95	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 13-0033	LF	3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	5.16	
33 52 16 13-0034	LF	1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	5.41	
33 52 16 13-0035	LF	1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	6.11	
33 52 16 13-0036	LF	1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	6.47	
33 52 16 13-0037	LF	2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	7.50	
33 52 16 13-0038	LF	2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	9.30	
33 52 16 13-0039	LF	3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	11.75	
33 52 16 13-0040	LF	4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	15.01	
33 52 16 13-0041	LF	6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	20.23	

33 52 16 13-0042 Corrosion Resistance Wrap And Coat - Fittings *(33 52 16 13-0030)*

Note: Field applied.

33 52 16 13-0043	EA	1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	23.12	
33 52 16 13-0044	EA	3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	23.12	
33 52 16 13-0045	EA	1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	28.32	
33 52 16 13-0046	EA	1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	32.38	
33 52 16 13-0047	EA	1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	32.38	
33 52 16 13-0048	EA	2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	38.37	
33 52 16 13-0049	EA	2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	50.97	
33 52 16 13-0050	EA	3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	73.16	
33 52 16 13-0051	EA	4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	74.47	
33 52 16 13-0052	EA	6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	86.28	

33 52 16 13-0053 Service Fittings *(33 52 16 13-0001)*

33 52 16 13-0054 Brass Fittings *(33 52 16 13-0053)*

33 52 16 13-0055	EA	1/2" X 2" Long Nipples, Threaded Both Ends, Brass	41.56	
33 52 16 13-0056	EA	3/4" X 2" Long Nipples, Threaded Both Ends, Brass	48.39	
33 52 16 13-0057	EA	1" X 2" Long Nipples, Threaded Both Ends, Brass	61.53	
33 52 16 13-0058	EA	1-1/4" X 2" Long Nipples, Threaded Both Ends, Brass	76.58	
33 52 16 13-0059	EA	1-1/2" X 2" Long Nipples, Threaded Both Ends, Brass	86.04	
33 52 16 13-0060	EA	2" X 2" Long Nipples, Threaded Both Ends, Brass	112.43	
33 52 16 13-0061	EA	1/2" 90 Degree Elbow, Brass	35.85	
33 52 16 13-0062	EA	3/4" 90 Degree Elbow, Brass	41.31	
33 52 16 13-0063	EA	1" 90 Degree Elbow, Brass	53.79	
33 52 16 13-0064	EA	1-1/4" 90 Degree Elbow, Brass	69.84	
33 52 16 13-0065	EA	1-1/2" 90 Degree Elbow, Brass	80.00	
33 52 16 13-0066	EA	2" 90 Degree Elbow, Brass	107.46	
33 52 16 13-0067	EA	1/2" Diameter Chrome Plated Nipple	28.85	
33 52 16 13-0068	EA	3/4" Diameter Chrome Plated Nipple	37.08	
33 52 16 13-0069	EA	1" Diameter Chrome Plated Nipple	48.30	
33 52 16 13-0070	EA	1-1/4" Diameter Chrome Plated Nipple	68.70	
33 52 16 13-0071	EA	1-1/2" Diameter Chrome Plated Nipple	83.09	
33 52 16 13-0072	EA	2" Diameter Chrome Plated Nipple	111.50	

33 52 16 13-0073 Anodeless Gas Riser *(33 52 16 13-0053)*

33 52 16 13-0074	EA	3/4" Anodeless Gas Riser	106.99	
33 52 16 13-0075	EA	1" Anodeless Gas Riser	132.55	
33 52 16 13-0076	EA	1-1/4" Anodeless Gas Riser	155.90	
33 52 16 13-0077	EA	1-1/2" Anodeless Gas Riser	195.82	
33 52 16 13-0078	EA	2" Anodeless Gas Riser	225.29	

33 52 16 13-0079 Brass Service Adapter *(33 52 16 13-0053)*

33 52 16 13-0080	EA	1/2" Brass Service Adapter	75.94	
33 52 16 13-0081	EA	3/4" Brass Service Adapter	83.56	
33 52 16 13-0082	EA	1" Brass Service Adapter	100.14	
33 52 16 13-0083	EA	1-1/4" Brass Service Adapter	120.44	
33 52 16 13-0084	EA	1-1/2" Brass Service Adapter	143.52	
33 52 16 13-0085	EA	2" Brass Service Adapter	171.35	
33 52 16 13-0086	EA	2-1/2" Brass Service Adapter	313.74	
33 52 16 13-0087	EA	3" Brass Service Adapter	383.35	
33 52 16 13-0088	EA	4" Brass Service Adapter	552.90	

33 52 16 23 Medium Density Polyethylene Piping for Natural Gas *(33 52 16)*

33 52 16 23-0001 Medium Density Polyethylene (MDPE) Gas Distribution Piping *(33 52 16 23)*

Note: PE2406/PE2708. Includes couplings, #12 tracer wire, helically wrapped around piping.

33 52 16 23-0002	LF	1/2" Diameter, SDR 9, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	4.65	1.98
		For Colors, Add	*0.07*	
33 52 16 23-0003	LF	3/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	5.21	2.13
		For SDR 13.5, Deduct	*-0.15*	
		For Colors, Add	*0.10*	
33 52 16 23-0004	LF	1" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	5.77	2.27
		For SDR 13.5, Deduct	*-0.18*	
		For Colors, Add	*0.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 23-0005	LF	1-1/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	6.34	2.41
		For SDR 13.5, Deduct	*-0.22*	
		For Colors, Add	*0.14*	
33 52 16 23-0006	LF	1-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	7.38	2.91
		For SDR 13.5, Deduct	*-0.31*	
		For Colors, Add	*0.20*	
33 52 16 23-0007	LF	2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	8.42	3.16
		For SDR 13.5, Deduct	*-0.40*	
		For SDR 15.5, Deduct	*-0.74*	
		For Colors, Add	*0.26*	
33 52 16 23-0008	LF	2-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	10.89	3.70
		For SDR 13.5, Deduct	*-0.67*	
		For SDR 15.5, Deduct	*-1.24*	
		For Colors, Add	*0.43*	
33 52 16 23-0009	LF	3" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	13.45	4.40
		For SDR 13.5, Deduct	*-0.92*	
		For SDR 15.5, Deduct	*-1.69*	
		For Colors, Add	*0.59*	
33 52 16 23-0010	LF	4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	22.07	5.07
		For SDR 13.5, Deduct	*-1.70*	
		For SDR 15.5, Deduct	*-3.13*	
		For Colors, Add	*1.10*	
33 52 16 23-0011	LF	5" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	28.21	5.07
		For SDR 13.5, Deduct	*-2.36*	
		For SDR 15.5, Deduct	*-4.34*	
		For Colors, Add	*1.52*	
33 52 16 23-0012	LF	6" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	34.47	5.07
		For SDR 13.5, Deduct	*-3.02*	
		For SDR 15.5, Deduct	*-5.55*	
		For Colors, Add	*1.95*	
33 52 16 23-0013	LF	8" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	51.90	6.33
		For SDR 13.5, Deduct	*-5.02*	
		For SDR 15.5, Deduct	*-9.24*	
		For Colors, Add	*3.24*	

33 52 16 26 High-Density Polyethylene (HDPE) Piping for Natural Gas *(33 52 16)*

33 52 16 26-0001 High-Density Polyethylene (HDPE) Gas Distribution Piping *(33 52 16 26)*

Note: ASTM F2619, ASTM D2513, API 15 LE. Includes couplings, #12 tracer wire, helically wrapped around piping.

33 52 16 26-0002	LF	1/2" Diameter, SDR 9 High-Density Polyethylene (HDPE) Gas Distribution Pipe	4.75	1.98
33 52 16 26-0003	LF	3/4" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	5.34	2.13
		For SDR 13.5, Deduct	*-0.16*	
33 52 16 26-0004	LF	1" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	5.91	2.27
		For SDR 13.5, Deduct	*-0.20*	
33 52 16 26-0005	LF	1-1/4" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	6.52	2.41
		For SDR 13.5, Deduct	*-0.24*	
33 52 16 26-0006	LF	1-1/2" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	7.63	2.91
		For SDR 13.5, Deduct	*-0.34*	
33 52 16 26-0007	LF	2" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	8.75	3.16
		For SDR 13.5, Deduct	*-0.45*	
		For SDR 15.5, Deduct	*-0.82*	
		For SDR 17, Deduct	*-1.19*	
33 52 16 26-0008	LF	2-1/2" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	11.44	3.70
		For SDR 13.5, Deduct	*-0.74*	
		For SDR 15.5, Deduct	*-1.36*	
		For SDR 17, Deduct	*-1.98*	
33 52 16 26-0009	LF	3" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	14.19	4.40
		For SDR 13.5, Deduct	*-1.01*	
		For SDR 15.5, Deduct	*-1.86*	
		For SDR 17, Deduct	*-2.70*	
		For SDR 21, Deduct	*-3.70*	
33 52 16 26-0010	LF	4" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	23.45	5.07
		For SDR 13.5, Deduct	*-1.87*	
		For SDR 15.5, Deduct	*-3.44*	
		For SDR 17, Deduct	*-4.99*	
		For SDR 21, Deduct	*-6.84*	
33 52 16 26-0011	LF	6" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	36.90	5.07
		For SDR 13.5, Deduct	*-3.32*	
		For SDR 15.5, Deduct	*-6.10*	
		For SDR 17, Deduct	*-8.86*	
		For SDR 21, Deduct	*-12.13*	
33 52 16 26-0012	LF	8" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe	55.96	6.33
		For SDR 13.5, Deduct	*-5.53*	
		For SDR 15.5, Deduct	*-10.16*	
		For SDR 17, Deduct	*-14.75*	
		For SDR 21, Deduct	*-20.19*	

33 53 Hydrocarbon Utility Pressure Regulation *(33 50)*

33 53 16 Gas Hydrocarbon Pressure Regulation *(33 53)*

33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends *(33 53 16)*

33 53 16 00-0002	EA	3/4" Gas Pressure Regulator, Screwed End	263.76	20.79

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 53 16 00-0003	EA	1" Gas Pressure Regulator, Screwed End	268.48	20.79
33 53 16 00-0004	EA	1-1/4" Gas Pressure Regulator, Screwed End	279.81	24.69
33 53 16 00-0005	EA	1-1/2" Gas Pressure Regulator, Screwed End	948.03	28.58
33 53 16 00-0006	EA	2" Gas Pressure Regulator, Screwed End	1,007.71	44.27
33 53 16 00-0007	EA	3" Gas Pressure Regulator, Screwed End	2,833.30	99.31
33 53 16 00-0008	EA	4" Gas Pressure Regulator, Screwed End	3,938.19	131.61

33 59 Hydrocarbon Utility Metering *(33 50)*

33 59 11 Diaphragm/Bellows Hydrocarbons Meters *(33 59)*

33 59 11 00-0001 Diaphragm Meters *(33 59 11)*

Note: With standard direct-digital reading maximum working pressures 5 lb. to 100 lb., threaded connections. Excludes pressure and temperature compensation.

33 59 11 00-0002	EA	250 CF/Hour Gas Diaphragm Meter At 5 Lb., Direct Digital, Threaded	640.64	81.36
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0003	EA	425 CF/Hour Gas Diaphragm Meter At 10 Lb., Direct Digital, Threaded	1,265.55	124.43
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0004	EA	425 CF/Hour Gas Diaphragm Meter At 25 Lb., Direct Digital, Threaded	1,492.17	124.43
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0005	EA	800 CF/Hour Gas Diaphragm Meter At 20 Lb., Direct Digital, Threaded	3,284.74	155.53
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0006	EA	1,000 CF/Hour Gas Diaphragm Meter At 25 Lb., Direct Digital, Threaded	3,711.99	191.43
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0007	EA	800 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	4,904.03	155.53
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0008	EA	1,000 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	5,454.54	191.43
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0009	EA	1,400 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	7,210.06	203.40
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0010	EA	2,300 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	10,210.80	239.29
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0011	EA	5,000 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	15,590.53	394.83
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	

33 59 16 Hydrocarbons Turbine Meters *(33 59)*

33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading *(33 59 16)*

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002	EA	4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	12,506.05	418.58
33 59 16 00-0003	EA	6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	13,438.50	486.10
33 59 16 00-0004	EA	8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	20,799.83	519.67
33 59 16 00-0005	EA	10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	40,457.30	632.64
33 59 16 00-0006	EA	12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	66,677.94	790.79

33 60 Hydronic and Steam Energy Utilities *(33)*

33 61 Hydronic Energy Distribution *(33 60)*

33 61 13 Buried Hydronic Energy Distribution *(33 61)*

33 61 13 00-0001 Glass Lined Steel Piping *(33 61 13)*

33 61 13 00-0002 Glass Lined Steel Pipe *(33 61 13 00-0001)*

Note: 150 PSIG

33 61 13 00-0003	EA	4" X 1' Glass Lined Steel Pipe	1,673.09	
33 61 13 00-0004	EA	4" X 2' Glass Lined Steel Pipe	1,847.30	
33 61 13 00-0005	EA	4" X 3' Glass Lined Steel Pipe	1,847.30	
33 61 13 00-0006	EA	4" X 4' Glass Lined Steel Pipe	2,195.72	
33 61 13 00-0007	EA	4" X 5' Glass Lined Steel Pipe	3,121.23	
33 61 13 00-0008	EA	4" X 10' Glass Lined Steel Pipe	3,614.84	
33 61 13 00-0009	EA	6" X 1' Glass Lined Steel Pipe	1,400.88	
33 61 13 00-0010	EA	6" X 2' Glass Lined Steel Pipe	3,034.13	
33 61 13 00-0011	EA	6" X 3' Glass Lined Steel Pipe	3,034.13	
33 61 13 00-0012	EA	6" X 4' Glass Lined Steel Pipe	3,436.99	
33 61 13 00-0013	EA	6" X 5' Glass Lined Steel Pipe	5,545.70	
33 61 13 00-0014	EA	6" X 10' Glass Lined Steel Pipe	6,418.20	
33 61 13 00-0015	EA	8" X 1' Glass Lined Steel Pipe	3,461.30	
33 61 13 00-0016	EA	8" X 2' Glass Lined Steel Pipe	4,169.04	
33 61 13 00-0017	EA	8" X 3' Glass Lined Steel Pipe	4,169.04	
33 61 13 00-0018	EA	8" X 4' Glass Lined Steel Pipe	4,794.57	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0019	EA	8" X 5' Glass Lined Steel Pipe	6,494.42	
33 61 13 00-0020	EA	8" X 10' Glass Lined Steel Pipe	7,381.28	
33 61 13 00-0021	EA	12" X 1' Glass Lined Steel Pipe	9,392.56	
33 61 13 00-0022	EA	12" X 2' Glass Lined Steel Pipe	9,392.56	
33 61 13 00-0023	EA	12" X 3' Glass Lined Steel Pipe	9,733.72	
33 61 13 00-0024	EA	12" X 4' Glass Lined Steel Pipe	10,380.96	
33 61 13 00-0025	EA	12" X 5' Glass Lined Steel Pipe	11,648.82	
33 61 13 00-0026	EA	12" X 10' Glass Lined Steel Pipe	14,390.25	
33 61 13 00-0027	EA	16" X 10' Glass Lined Steel Pipe	19,601.96	
33 61 13 00-0028		90 Degree Elbow, Glass Lined Steel Fittings *(33 61 13 00-0001)*		
		Note: 150 PSIG		
33 61 13 00-0029	EA	4" 90 Degree Elbow, Glass Lined Steel Fittings	2,006.68	
33 61 13 00-0030	EA	6" 90 Degree Elbow, Glass Lined Steel Fittings	3,281.85	
33 61 13 00-0031	EA	8" 90 Degree Elbow, Glass Lined Steel Fittings	6,051.60	
33 61 13 00-0032	EA	10" 90 Degree Elbow, Glass Lined Steel Fittings	10,744.08	
33 61 13 00-0033	EA	12" 90 Degree Elbow, Glass Lined Steel Fittings	15,902.75	
33 61 13 00-0034	EA	14" 90 Degree Elbow, Glass Lined Steel Fittings	18,680.97	
33 61 13 00-0035	EA	16" 90 Degree Elbow, Glass Lined Steel Fittings	21,458.79	
33 61 13 00-0036		45 Degree Elbow, Glass Lined Steel Fittings *(33 61 13 00-0001)*		
		Note: 150 PSIG		
33 61 13 00-0037	EA	4" 45 Degree Elbow, Glass Lined Steel Fittings	1,966.76	
33 61 13 00-0038	EA	6" 45 Degree Elbow, Glass Lined Steel Fittings	3,281.85	
33 61 13 00-0039	EA	8" 45 Degree Elbow, Glass Lined Steel Fittings	6,327.43	
33 61 13 00-0040	EA	10" 45 Degree Elbow, Glass Lined Steel Fittings	17,843.26	
33 61 13 00-0041	EA	12" 45 Degree Elbow, Glass Lined Steel Fittings	15,902.75	
33 61 13 00-0042	EA	14" 45 Degree Elbow, Glass Lined Steel Fittings	18,680.97	
33 61 13 00-0043	EA	16" 45 Degree Elbow, Glass Lined Steel Fittings	21,458.79	
33 61 13 00-0044		Tee, Glass Lined Steel Fittings *(33 61 13 00-0001)*		
		Note: 150 PSIG		
33 61 13 00-0045	EA	4" Tee, Glass Lined Steel Fittings	3,119.22	
33 61 13 00-0046	EA	6" Tee, Glass Lined Steel Fittings	5,357.77	
33 61 13 00-0047	EA	8" Tee, Glass Lined Steel Fittings	7,935.77	
33 61 13 00-0048	EA	10" Tee, Glass Lined Steel Fittings	13,690.29	
33 61 13 00-0049	EA	12" Tee, Glass Lined Steel Fittings	19,487.99	
33 61 13 00-0050	EA	14" Tee, Glass Lined Steel Fittings	22,964.74	
33 61 13 00-0051	EA	16" Tee, Glass Lined Steel Fittings	26,381.84	
33 61 13 00-0052		Prefabricated/Preinsulated Pipe *(33 61 13)*		
		Note: Includes coupling per full length of pipe. Insulation and jacketing sealed for seamless system including all fittings. Excludes excavation and backfill.		
33 61 13 00-0053		Preinsulated Schedule 40 Black Steel Pipe *(33 61 13 00-0052)*		
		Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0054		Standard Black Steel Carrier Pipe *(33 61 13 00-0053)*		
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0055	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	204.37	21.54
		For Schedule 80 Pipe, Add	*35.13*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*3.51*	
33 61 13 00-0056	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	224.16	23.25
		For Schedule 80 Pipe, Add	*38.63*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*3.86*	
33 61 13 00-0057	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	250.49	24.68
		For Schedule 80 Pipe, Add	*43.52*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.35*	
33 61 13 00-0058	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	268.27	26.06
		For Schedule 80 Pipe, Add	*46.70*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.67*	
33 61 13 00-0059	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	281.01	27.67
		For Schedule 80 Pipe, Add	*48.82*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.88*	
33 61 13 00-0060	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	310.97	34.21
		For Schedule 80 Pipe, Add	*53.07*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.31*	
33 61 13 00-0061	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	342.24	41.75
		For Schedule 80 Pipe, Add	*57.32*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0062	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	431.76	53.17
		For Schedule 80 Pipe, Add	*72.17*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.22*	
33 61 13 00-0063	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	548.53	65.12
		For Schedule 80 Pipe, Add	*92.34*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.23*	
33 61 13 00-0064	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	637.73	76.29
		For Schedule 80 Pipe, Add	*107.20*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.72*	
33 61 13 00-0065	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	903.04	92.19
		For Schedule 80 Pipe, Add	*156.03*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*15.60*	
33 61 13 00-0066	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,175.81	109.70
		For Schedule 80 Pipe, Add	*205.91*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*20.59*	
33 61 13 00-0067	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,464.29	135.00
		For Schedule 80 Pipe, Add	*256.86*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*25.69*	

33 61 13 00-0068 Standard Black Steel Carrier Pipe *(33 61 13 00-0053)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0069	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	221.94	21.54
		For Schedule 80 Pipe, Add	*38.65*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*3.86*	
33 61 13 00-0070	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	243.48	23.25
		For Schedule 80 Pipe, Add	*42.50*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.25*	
33 61 13 00-0071	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	272.25	24.68
		For Schedule 80 Pipe, Add	*47.87*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.79*	
33 61 13 00-0072	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	291.62	26.06
		For Schedule 80 Pipe, Add	*51.37*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.14*	
33 61 13 00-0073	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	305.42	27.67
		For Schedule 80 Pipe, Add	*53.71*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.37*	
33 61 13 00-0074	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pip With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	337.50	34.21
		For Schedule 80 Pipe, Add	*58.38*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.84*	
33 61 13 00-0075	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	370.90	41.75
		For Schedule 80 Pipe, Add	*63.05*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.30*	
33 61 13 00-0076	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	467.85	53.17
		For Schedule 80 Pipe, Add	*79.39*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.94*	
33 61 13 00-0077	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	594.70	65.12
		For Schedule 80 Pipe, Add	*101.58*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.16*	
33 61 13 00-0078	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	691.33	76.29
		For Schedule 80 Pipe, Add	*117.92*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.79*	
33 61 13 00-0079	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	981.05	92.19
		For Schedule 80 Pipe, Add	*171.63*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*17.16*	
33 61 13 00-0080	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,278.77	109.70
		For Schedule 80 Pipe, Add	*226.50*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*22.65*	
33 61 13 00-0081	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,592.72	135.00
		For Schedule 80 Pipe, Add	*282.54*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*28.25*	

33 61 13 00-0082 Standard Black Steel Carrier Pipe *(33 61 13 00-0053)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0083	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	230.72	21.54
		For Schedule 80 Pipe, Add	*40.40*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.04*	
33 61 13 00-0084	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	253.14	23.25
		For Schedule 80 Pipe, Add	*44.43*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.44*	
33 61 13 00-0085	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	283.12	24.68
		For Schedule 80 Pipe, Add	*50.04*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.00*	
33 61 13 00-0086	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	303.29	26.06
		For Schedule 80 Pipe, Add	*53.71*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.37*	
33 61 13 00-0087	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	317.63	27.67
		For Schedule 80 Pipe, Add	*56.15*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.61*	
33 61 13 00-0088	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	350.77	34.21
		For Schedule 80 Pipe, Add	*61.03*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.10*	
33 61 13 00-0089	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	385.22	41.75
		For Schedule 80 Pipe, Add	*65.91*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.59*	
33 61 13 00-0090	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	485.90	53.17
		For Schedule 80 Pipe, Add	*83.00*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.30*	
33 61 13 00-0091	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	617.78	65.12
		For Schedule 80 Pipe, Add	*106.19*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.62*	
33 61 13 00-0092	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	718.13	76.29
		For Schedule 80 Pipe, Add	*123.28*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*12.33*	
33 61 13 00-0093	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,020.06	92.19
		For Schedule 80 Pipe, Add	*179.43*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*17.94*	
33 61 13 00-0094	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,330.25	109.70
		For Schedule 80 Pipe, Add	*236.80*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*23.68*	
33 61 13 00-0095	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,656.93	135.00
		For Schedule 80 Pipe, Add	*295.39*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*29.54*	

33 61 13 00-0096 Standard Black Steel Carrier Pipe *(33 61 13 00-0053)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0097	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	243.90	21.54
		For Schedule 80 Pipe, Add	*43.04*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.30*	
33 61 13 00-0098	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	267.63	23.25
		For Schedule 80 Pipe, Add	*47.33*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.73*	
33 61 13 00-0099	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	299.44	24.68
		For Schedule 80 Pipe, Add	*53.31*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.33*	
33 61 13 00-0100	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	320.81	26.06
		For Schedule 80 Pipe, Add	*57.21*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.72*	
33 61 13 00-0101	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	335.94	27.67
		For Schedule 80 Pipe, Add	*59.81*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.98*	
33 61 13 00-0102	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	370.67	34.21
		For Schedule 80 Pipe, Add	*65.01*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.50*	
33 61 13 00-0103	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	406.72	41.75
		For Schedule 80 Pipe, Add	*70.21*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0104	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	512.96	53.17
		For Schedule 80 Pipe, Add	*88.41*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.84*	
33 61 13 00-0105	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	652.41	65.12
		For Schedule 80 Pipe, Add	*113.12*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.31*	
33 61 13 00-0106	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	758.33	76.29
		For Schedule 80 Pipe, Add	*131.32*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*13.13*	
33 61 13 00-0107	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,078.57	92.19
		For Schedule 80 Pipe, Add	*191.13*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*19.11*	
33 61 13 00-0108	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,407.46	109.70
		For Schedule 80 Pipe, Add	*252.24*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*25.22*	
33 61 13 00-0109	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,753.25	135.00
		For Schedule 80 Pipe, Add	*314.65*	
		For High-Density Polyethylene (HDPE) Jacket, Add	*31.47*	

33 61 13 00-0110 Preinsulated Black Steel Fittings *(33 61 13 00-0052)*

Note: No excavation or backfill.

33 61 13 00-0111 Elbows *(33 61 13 00-0110)*

33 61 13 00-0112 Elbows *(33 61 13 00-0111)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0113	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,469.46	
		For High-Density Polyethylene (HDPE) Jacket, Add	*26.76*	
33 61 13 00-0114	EA	1" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,511.10	
		For High-Density Polyethylene (HDPE) Jacket, Add	*27.39*	
33 61 13 00-0115	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,725.74	
		For High-Density Polyethylene (HDPE) Jacket, Add	*31.17*	
33 61 13 00-0116	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,904.59	
		For High-Density Polyethylene (HDPE) Jacket, Add	*34.00*	
33 61 13 00-0117	EA	2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,077.65	
		For High-Density Polyethylene (HDPE) Jacket, Add	*35.42*	
33 61 13 00-0118	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,290.22	
		For High-Density Polyethylene (HDPE) Jacket, Add	*36.84*	
33 61 13 00-0119	EA	3" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,650.53	
		For High-Density Polyethylene (HDPE) Jacket, Add	*42.50*	
33 61 13 00-0120	EA	4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,092.71	
		For High-Density Polyethylene (HDPE) Jacket, Add	*49.59*	
33 61 13 00-0121	EA	5" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,844.22	
		For High-Density Polyethylene (HDPE) Jacket, Add	*63.76*	
33 61 13 00-0122	EA	6" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,309.83	
		For High-Density Polyethylene (HDPE) Jacket, Add	*72.41*	
33 61 13 00-0123	EA	8" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,154.24	
		For High-Density Polyethylene (HDPE) Jacket, Add	*104.68*	
33 61 13 00-0124	EA	10" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	8,072.47	
		For High-Density Polyethylene (HDPE) Jacket, Add	*133.81*	
33 61 13 00-0125	EA	12" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	10,514.20	
		For High-Density Polyethylene (HDPE) Jacket, Add	*177.10*	

33 61 13 00-0126 Elbows *(33 61 13 00-0111)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0127	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,569.81	
		For High-Density Polyethylene (HDPE) Jacket, Add	*28.77*	
33 61 13 00-0128	EA	1" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,613.82	
		For High-Density Polyethylene (HDPE) Jacket, Add	*29.45*	
33 61 13 00-0129	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,842.62	
		For High-Density Polyethylene (HDPE) Jacket, Add	*33.51*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0130		EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,032.11	
			For High-Density Polyethylene (HDPE) Jacket, Add	*36.55*	
33 61 13 00-0131		EA	2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,210.48	
			For High-Density Polyethylene (HDPE) Jacket, Add	*38.08*	
33 61 13 00-0132		EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,428.36	
			For High-Density Polyethylene (HDPE) Jacket, Add	*39.60*	
33 61 13 00-0133		EA	3" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,809.92	
			For High-Density Polyethylene (HDPE) Jacket, Add	*45.69*	
33 61 13 00-0134		EA	4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,278.66	
			For High-Density Polyethylene (HDPE) Jacket, Add	*53.31*	
33 61 13 00-0135		EA	5" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,083.31	
			For High-Density Polyethylene (HDPE) Jacket, Add	*68.54*	
33 61 13 00-0136		EA	6" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,581.38	
			For High-Density Polyethylene (HDPE) Jacket, Add	*77.84*	
33 61 13 00-0137		EA	8" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,546.81	
			For High-Density Polyethylene (HDPE) Jacket, Add	*112.54*	
33 61 13 00-0138		EA	10" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	8,574.25	
			For High-Density Polyethylene (HDPE) Jacket, Add	*143.84*	
33 61 13 00-0139		EA	12" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	11,178.33	
			For High-Density Polyethylene (HDPE) Jacket, Add	*190.38*	

33 61 13 00-0140 Elbows *(33 61 13 00-0111)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0141		EA	3/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,670.17	
			For High-Density Polyethylene (HDPE) Jacket, Add	*30.78*	
33 61 13 00-0142		EA	1" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,716.54	
			For High-Density Polyethylene (HDPE) Jacket, Add	*31.50*	
33 61 13 00-0143		EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,959.51	
			For High-Density Polyethylene (HDPE) Jacket, Add	*35.84*	
33 61 13 00-0144		EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,159.62	
			For High-Density Polyethylene (HDPE) Jacket, Add	*39.10*	
33 61 13 00-0145		EA	2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,343.30	
			For High-Density Polyethylene (HDPE) Jacket, Add	*40.73*	
33 61 13 00-0146		EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,566.50	
			For High-Density Polyethylene (HDPE) Jacket, Add	*42.36*	
33 61 13 00-0147		EA	3" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,969.31	
			For High-Density Polyethylene (HDPE) Jacket, Add	*48.88*	
33 61 13 00-0148		EA	4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,464.62	
			For High-Density Polyethylene (HDPE) Jacket, Add	*57.03*	
33 61 13 00-0149		EA	5" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,322.39	
			For High-Density Polyethylene (HDPE) Jacket, Add	*73.32*	
33 61 13 00-0150		EA	6" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,852.94	
			For High-Density Polyethylene (HDPE) Jacket, Add	*83.28*	
33 61 13 00-0151		EA	8" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,939.39	
			For High-Density Polyethylene (HDPE) Jacket, Add	*120.39*	
33 61 13 00-0152		EA	10" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	9,076.02	
			For High-Density Polyethylene (HDPE) Jacket, Add	*153.88*	
33 61 13 00-0153		EA	12" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	11,842.44	
			For High-Density Polyethylene (HDPE) Jacket, Add	*203.66*	

33 61 13 00-0154 Elbows *(33 61 13 00-0111)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0155		EA	3/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,770.52	
			For High-Density Polyethylene (HDPE) Jacket, Add	*32.78*	
33 61 13 00-0156		EA	1" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,819.25	
			For High-Density Polyethylene (HDPE) Jacket, Add	*33.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0157	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,076.39	
		For High-Density Polyethylene (HDPE) Jacket, Add	*38.18*	
33 61 13 00-0158	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,287.13	
		For High-Density Polyethylene (HDPE) Jacket, Add	*41.65*	
33 61 13 00-0159	EA	2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,476.13	
		For High-Density Polyethylene (HDPE) Jacket, Add	*43.39*	
33 61 13 00-0160	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,704.63	
		For High-Density Polyethylene (HDPE) Jacket, Add	*45.12*	
33 61 13 00-0161	EA	3" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,128.70	
		For High-Density Polyethylene (HDPE) Jacket, Add	*52.07*	
33 61 13 00-0162	EA	4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,650.57	
		For High-Density Polyethylene (HDPE) Jacket, Add	*60.74*	
33 61 13 00-0163	EA	5" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,561.47	
		For High-Density Polyethylene (HDPE) Jacket, Add	*78.10*	
33 61 13 00-0164	EA	6" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,124.48	
		For High-Density Polyethylene (HDPE) Jacket, Add	*88.71*	
33 61 13 00-0165	EA	8" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	7,331.95	
		For High-Density Polyethylene (HDPE) Jacket, Add	*128.24*	
33 61 13 00-0166	EA	10" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	9,577.80	
		For High-Density Polyethylene (HDPE) Jacket, Add	*163.91*	
33 61 13 00-0167	EA	12" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	12,506.56	
		For High-Density Polyethylene (HDPE) Jacket, Add	*216.95*	

33 61 13 00-0168 Tees *(33 61 13 00-0110)*

33 61 13 00-0169 Tees *(33 61 13 00-0168)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0170	EA	3/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,184.04	
		For High-Density Polyethylene (HDPE) Jacket, Add	*39.74*	
33 61 13 00-0171	EA	1" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,245.90	
		For High-Density Polyethylene (HDPE) Jacket, Add	*40.68*	
33 61 13 00-0172	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,565.00	
		For High-Density Polyethylene (HDPE) Jacket, Add	*46.29*	
33 61 13 00-0173	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,831.14	
		For High-Density Polyethylene (HDPE) Jacket, Add	*50.49*	
33 61 13 00-0174	EA	2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,089.34	
		For High-Density Polyethylene (HDPE) Jacket, Add	*52.60*	
33 61 13 00-0175	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,406.91	
		For High-Density Polyethylene (HDPE) Jacket, Add	*54.70*	
33 61 13 00-0176	EA	3" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,943.92	
		For High-Density Polyethylene (HDPE) Jacket, Add	*63.12*	
33 61 13 00-0177	EA	4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,601.88	
		For High-Density Polyethylene (HDPE) Jacket, Add	*73.64*	
33 61 13 00-0178	EA	5" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,721.99	
		For High-Density Polyethylene (HDPE) Jacket, Add	*94.68*	
33 61 13 00-0179	EA	6" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,411.39	
		For High-Density Polyethylene (HDPE) Jacket, Add	*107.53*	
33 61 13 00-0180	EA	8" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	9,151.16	
		For High-Density Polyethylene (HDPE) Jacket, Add	*155.46*	
33 61 13 00-0181	EA	10" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	12,010.79	
		For High-Density Polyethylene (HDPE) Jacket, Add	*198.70*	
33 61 13 00-0182	EA	12" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	15,638.49	
		For High-Density Polyethylene (HDPE) Jacket, Add	*262.99*	

33 61 13 00-0183 Tees *(33 61 13 00-0168)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0184	EA	3/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,333.07	
		For High-Density Polyethylene (HDPE) Jacket, Add	*42.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0185	EA	1" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,398.43	
		For High-Density Polyethylene (HDPE) Jacket, Add	*43.73*	
33 61 13 00-0186	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,738.58	
		For High-Density Polyethylene (HDPE) Jacket, Add	*49.76*	
33 61 13 00-0187	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,020.49	
		For High-Density Polyethylene (HDPE) Jacket, Add	*54.28*	
33 61 13 00-0188	EA	2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,286.59	
		For High-Density Polyethylene (HDPE) Jacket, Add	*56.54*	
33 61 13 00-0189	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,612.04	
		For High-Density Polyethylene (HDPE) Jacket, Add	*58.80*	
33 61 13 00-0190	EA	3" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,180.61	
		For High-Density Polyethylene (HDPE) Jacket, Add	*67.85*	
33 61 13 00-0191	EA	4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,878.02	
		For High-Density Polyethylene (HDPE) Jacket, Add	*79.16*	
33 61 13 00-0192	EA	5" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,077.03	
		For High-Density Polyethylene (HDPE) Jacket, Add	*101.78*	
33 61 13 00-0193	EA	6" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,814.64	
		For High-Density Polyethylene (HDPE) Jacket, Add	*115.60*	
33 61 13 00-0194	EA	8" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	9,734.13	
		For High-Density Polyethylene (HDPE) Jacket, Add	*167.12*	
33 61 13 00-0195	EA	10" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	12,755.94	
		For High-Density Polyethylene (HDPE) Jacket, Add	*213.61*	
33 61 13 00-0196	EA	12" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	16,624.71	
		For High-Density Polyethylene (HDPE) Jacket, Add	*282.72*	

33 61 13 00-0197 Tees *(33 61 13 00-0168)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0198	EA	3/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,482.10	
		For High-Density Polyethylene (HDPE) Jacket, Add	*45.70*	
33 61 13 00-0199	EA	1" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,550.97	
		For High-Density Polyethylene (HDPE) Jacket, Add	*46.78*	
33 61 13 00-0200	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,912.15	
		For High-Density Polyethylene (HDPE) Jacket, Add	*53.23*	
33 61 13 00-0201	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,209.84	
		For High-Density Polyethylene (HDPE) Jacket, Add	*58.07*	
33 61 13 00-0202	EA	2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,483.83	
		For High-Density Polyethylene (HDPE) Jacket, Add	*60.49*	
33 61 13 00-0203	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,817.18	
		For High-Density Polyethylene (HDPE) Jacket, Add	*62.91*	
33 61 13 00-0204	EA	3" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,417.30	
		For High-Density Polyethylene (HDPE) Jacket, Add	*72.59*	
33 61 13 00-0205	EA	4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,154.16	
		For High-Density Polyethylene (HDPE) Jacket, Add	*84.68*	
33 61 13 00-0206	EA	5" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,432.07	
		For High-Density Polyethylene (HDPE) Jacket, Add	*108.88*	
33 61 13 00-0207	EA	6" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	7,217.90	
		For High-Density Polyethylene (HDPE) Jacket, Add	*123.66*	
33 61 13 00-0208	EA	8" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	10,317.10	
		For High-Density Polyethylene (HDPE) Jacket, Add	*178.78*	
33 61 13 00-0209	EA	10" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	13,501.07	
		For High-Density Polyethylene (HDPE) Jacket, Add	*228.51*	
33 61 13 00-0210	EA	12" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	17,610.93	
		For High-Density Polyethylene (HDPE) Jacket, Add	*302.44*	

33 61 13 00-0211 Tees *(33 61 13 00-0168)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0212	EA	3/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,631.13	
		For High-Density Polyethylene (HDPE) Jacket, Add	*48.68*	
33 61 13 00-0213	EA	1" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,703.50	
		For High-Density Polyethylene (HDPE) Jacket, Add	*49.83*	
33 61 13 00-0214	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,085.73	
		For High-Density Polyethylene (HDPE) Jacket, Add	*56.70*	
33 61 13 00-0215	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,399.20	
		For High-Density Polyethylene (HDPE) Jacket, Add	*61.86*	
33 61 13 00-0216	EA	2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,681.07	
		For High-Density Polyethylene (HDPE) Jacket, Add	*64.43*	
33 61 13 00-0217	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,022.31	
		For High-Density Polyethylene (HDPE) Jacket, Add	*67.01*	
33 61 13 00-0218	EA	3" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,653.99	
		For High-Density Polyethylene (HDPE) Jacket, Add	*77.32*	
33 61 13 00-0219	EA	4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,430.30	
		For High-Density Polyethylene (HDPE) Jacket, Add	*90.21*	
33 61 13 00-0220	EA	5" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,787.11	
		For High-Density Polyethylene (HDPE) Jacket, Add	*115.98*	
33 61 13 00-0221	EA	6" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	7,621.15	
		For High-Density Polyethylene (HDPE) Jacket, Add	*131.73*	
33 61 13 00-0222	EA	8" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	10,900.06	
		For High-Density Polyethylene (HDPE) Jacket, Add	*190.44*	
33 61 13 00-0223	EA	10" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	14,246.22	
		For High-Density Polyethylene (HDPE) Jacket, Add	*243.41*	
33 61 13 00-0224	EA	12" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	18,597.15	
		For High-Density Polyethylene (HDPE) Jacket, Add	*322.16*	

33 61 13 00-0225 Reducers *(33 61 13 00-0110)*

33 61 13 00-0226 Reducers *(33 61 13 00-0225)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0227	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,228.88	
		For High-Density Polyethylene (HDPE) Jacket, Add	*22.21*	
33 61 13 00-0228	EA	1" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,264.09	
		For High-Density Polyethylene (HDPE) Jacket, Add	*22.73*	
33 61 13 00-0229	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,444.08	
		For High-Density Polyethylene (HDPE) Jacket, Add	*25.87*	
33 61 13 00-0230	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,595.03	
		For High-Density Polyethylene (HDPE) Jacket, Add	*28.22*	
33 61 13 00-0231	EA	2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,745.79	
		For High-Density Polyethylene (HDPE) Jacket, Add	*29.40*	
33 61 13 00-0232	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,942.35	
		For High-Density Polyethylene (HDPE) Jacket, Add	*30.57*	
33 61 13 00-0233	EA	3" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,240.94	
		For High-Density Polyethylene (HDPE) Jacket, Add	*35.28*	
33 61 13 00-0234	EA	4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,609.61	
		For High-Density Polyethylene (HDPE) Jacket, Add	*41.16*	
33 61 13 00-0235	EA	5" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,236.87	
		For High-Density Polyethylene (HDPE) Jacket, Add	*52.92*	
33 61 13 00-0236	EA	6" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,625.63	
		For High-Density Polyethylene (HDPE) Jacket, Add	*60.10*	
33 61 13 00-0237	EA	8" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,172.63	
		For High-Density Polyethylene (HDPE) Jacket, Add	*86.89*	
33 61 13 00-0238	EA	10" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,797.48	
		For High-Density Polyethylene (HDPE) Jacket, Add	*111.06*	
33 61 13 00-0239	EA	12" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	8,840.41	
		For High-Density Polyethylene (HDPE) Jacket, Add	*146.99*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0240			**Reducers** *(33 61 13 00-0225)*		
			Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0241		EA	3/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,312.18	
			For High-Density Polyethylene (HDPE) Jacket, Add	*23.88*	
33 61 13 00-0242		EA	1" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,349.34	
			For High-Density Polyethylene (HDPE) Jacket, Add	*24.44*	
33 61 13 00-0243		EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,541.09	
			For High-Density Polyethylene (HDPE) Jacket, Add	*27.81*	
33 61 13 00-0244		EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,700.86	
			For High-Density Polyethylene (HDPE) Jacket, Add	*30.34*	
33 61 13 00-0245		EA	2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,856.03	
			For High-Density Polyethylene (HDPE) Jacket, Add	*31.60*	
33 61 13 00-0246		EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,057.01	
			For High-Density Polyethylene (HDPE) Jacket, Add	*32.87*	
33 61 13 00-0247		EA	3" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,373.23	
			For High-Density Polyethylene (HDPE) Jacket, Add	*37.92*	
33 61 13 00-0248		EA	4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,763.96	
			For High-Density Polyethylene (HDPE) Jacket, Add	*44.24*	
33 61 13 00-0249		EA	5" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,435.31	
			For High-Density Polyethylene (HDPE) Jacket, Add	*56.89*	
33 61 13 00-0250		EA	6" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,851.02	
			For High-Density Polyethylene (HDPE) Jacket, Add	*64.61*	
33 61 13 00-0251		EA	8" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,498.47	
			For High-Density Polyethylene (HDPE) Jacket, Add	*93.41*	
33 61 13 00-0252		EA	10" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	7,213.96	
			For High-Density Polyethylene (HDPE) Jacket, Add	*119.39*	
33 61 13 00-0253		EA	12" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	9,391.64	
			For High-Density Polyethylene (HDPE) Jacket, Add	*158.02*	
33 61 13 00-0254			**Reducers** *(33 61 13 00-0225)*		
			Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0255		EA	3/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,395.47	
			For High-Density Polyethylene (HDPE) Jacket, Add	*25.54*	
33 61 13 00-0256		EA	1" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,434.60	
			For High-Density Polyethylene (HDPE) Jacket, Add	*26.15*	
33 61 13 00-0257		EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,638.11	
			For High-Density Polyethylene (HDPE) Jacket, Add	*29.75*	
33 61 13 00-0258		EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,806.70	
			For High-Density Polyethylene (HDPE) Jacket, Add	*32.46*	
33 61 13 00-0259		EA	2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,966.28	
			For High-Density Polyethylene (HDPE) Jacket, Add	*33.81*	
33 61 13 00-0260		EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,171.66	
			For High-Density Polyethylene (HDPE) Jacket, Add	*35.16*	
33 61 13 00-0261		EA	3" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,505.53	
			For High-Density Polyethylene (HDPE) Jacket, Add	*40.57*	
33 61 13 00-0262		EA	4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,918.30	
			For High-Density Polyethylene (HDPE) Jacket, Add	*47.33*	
33 61 13 00-0263		EA	5" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,633.75	
			For High-Density Polyethylene (HDPE) Jacket, Add	*60.85*	
33 61 13 00-0264		EA	6" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,076.41	
			For High-Density Polyethylene (HDPE) Jacket, Add	*69.12*	
33 61 13 00-0265		EA	8" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,824.29	
			For High-Density Polyethylene (HDPE) Jacket, Add	*99.92*	
33 61 13 00-0266		EA	10" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	7,630.43	
			For High-Density Polyethylene (HDPE) Jacket, Add	*127.72*	
33 61 13 00-0267		EA	12" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	9,942.86	
			For High-Density Polyethylene (HDPE) Jacket, Add	*169.04*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0268			**Reducers** *(33 61 13 00-0225)*		
			Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0269		EA	3/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,478.77	
			For High-Density Polyethylene (HDPE) Jacket, Add	*27.21*	
33 61 13 00-0270		EA	1" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,519.85	
			For High-Density Polyethylene (HDPE) Jacket, Add	*27.85*	
33 61 13 00-0271		EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,735.12	
			For High-Density Polyethylene (HDPE) Jacket, Add	*31.69*	
33 61 13 00-0272		EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,912.53	
			For High-Density Polyethylene (HDPE) Jacket, Add	*34.57*	
33 61 13 00-0273		EA	2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,076.52	
			For High-Density Polyethylene (HDPE) Jacket, Add	*36.01*	
33 61 13 00-0274		EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,286.31	
			For High-Density Polyethylene (HDPE) Jacket, Add	*37.45*	
33 61 13 00-0275		EA	3" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,637.82	
			For High-Density Polyethylene (HDPE) Jacket, Add	*43.22*	
33 61 13 00-0276		EA	4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,072.64	
			For High-Density Polyethylene (HDPE) Jacket, Add	*50.42*	
33 61 13 00-0277		EA	5" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,832.19	
			For High-Density Polyethylene (HDPE) Jacket, Add	*64.82*	
33 61 13 00-0278		EA	6" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,301.79	
			For High-Density Polyethylene (HDPE) Jacket, Add	*73.63*	
33 61 13 00-0279		EA	8" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,150.12	
			For High-Density Polyethylene (HDPE) Jacket, Add	*106.44*	
33 61 13 00-0280		EA	10" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	8,046.91	
			For High-Density Polyethylene (HDPE) Jacket, Add	*136.05*	
33 61 13 00-0281		EA	12" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	10,494.08	
			For High-Density Polyethylene (HDPE) Jacket, Add	*180.07*	
33 61 13 00-0282			**Preinsulated Type K Copper Pipe** *(33 61 13 00-0052)*		
			Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0283			**Type K Copper Carrier Pipe** *(33 61 13 00-0282)*		
			Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0284		LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	50.99	19.72
			For High-Density Polyethylene (HDPE) Jacket, Add	*0.43*	
33 61 13 00-0285		LF	1" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	55.48	21.29
			For High-Density Polyethylene (HDPE) Jacket, Add	*0.47*	
33 61 13 00-0286		LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	60.42	22.61
			For High-Density Polyethylene (HDPE) Jacket, Add	*0.53*	
33 61 13 00-0287		LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	64.28	23.89
			For High-Density Polyethylene (HDPE) Jacket, Add	*0.57*	
33 61 13 00-0288		LF	2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	67.77	25.35
			For High-Density Polyethylene (HDPE) Jacket, Add	*0.60*	
33 61 13 00-0289		LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	79.35	31.35
			For High-Density Polyethylene (HDPE) Jacket, Add	*0.65*	
33 61 13 00-0290		LF	3" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	92.29	38.26
			For High-Density Polyethylene (HDPE) Jacket, Add	*0.70*	
33 61 13 00-0291		LF	4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	117.04	48.73
			For High-Density Polyethylene (HDPE) Jacket, Add	*0.88*	
33 61 13 00-0292		LF	5" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	145.73	59.67
			For High-Density Polyethylene (HDPE) Jacket, Add	*1.13*	
33 61 13 00-0293		LF	6" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	170.15	69.91
			For High-Density Polyethylene (HDPE) Jacket, Add	*1.31*	
33 61 13 00-0294		LF	8" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	221.73	84.81
			For High-Density Polyethylene (HDPE) Jacket, Add	*1.90*	
33 61 13 00-0295		LF	10" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	276.20	100.53
			For High-Density Polyethylene (HDPE) Jacket, Add	*2.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0296	LF	12" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	342.01	123.70
		For High-Density Polyethylene (HDPE) Jacket, Add	*3.13*	

33 61 13 00-0297 Type K Copper Carrier Pipe *(33 61 13 00-0282)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0298	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	53.13	19.72
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.47*	
33 61 13 00-0299	LF	1" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	57.83	21.29
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.52*	
33 61 13 00-0300	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	63.08	22.61
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.58*	
33 61 13 00-0301	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	67.13	23.89
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.63*	
33 61 13 00-0302	LF	2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	70.74	25.35
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.65*	
33 61 13 00-0303	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	82.58	31.35
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.71*	
33 61 13 00-0304	LF	3" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	95.79	38.26
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.77*	
33 61 13 00-0305	LF	4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	121.44	48.73
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.97*	
33 61 13 00-0306	LF	5" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	151.36	59.67
		For High-Density Polyethylene (HDPE) Jacket, Add	*1.24*	
33 61 13 00-0307	LF	6" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	176.68	69.91
		For High-Density Polyethylene (HDPE) Jacket, Add	*1.44*	
33 61 13 00-0308	LF	8" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	231.24	84.81
		For High-Density Polyethylene (HDPE) Jacket, Add	*2.09*	
33 61 13 00-0309	LF	10" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	288.75	100.53
		For High-Density Polyethylene (HDPE) Jacket, Add	*2.76*	
33 61 13 00-0310	LF	12" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	357.67	123.70
		For High-Density Polyethylene (HDPE) Jacket, Add	*3.44*	

33 61 13 00-0311 Type K Copper Carrier Pipe *(33 61 13 00-0282)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0312	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	54.20	19.72
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.49*	
33 61 13 00-0313	LF	1" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	59.01	21.29
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.54*	
33 61 13 00-0314	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	64.40	22.61
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.61*	
33 61 13 00-0315	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	68.55	23.89
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.65*	
33 61 13 00-0316	LF	2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	72.23	25.35
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.68*	
33 61 13 00-0317	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	84.20	31.35
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.74*	
33 61 13 00-0318	LF	3" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	97.53	38.26
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.80*	
33 61 13 00-0319	LF	4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	123.64	48.73
		For High-Density Polyethylene (HDPE) Jacket, Add	*1.01*	
33 61 13 00-0320	LF	5" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	154.17	59.67
		For High-Density Polyethylene (HDPE) Jacket, Add	*1.29*	
33 61 13 00-0321	LF	6" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	179.95	69.91
		For High-Density Polyethylene (HDPE) Jacket, Add	*1.50*	
33 61 13 00-0322	LF	8" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	235.99	84.47
		For High-Density Polyethylene (HDPE) Jacket, Add	*2.19*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0323	LF	10" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	295.03	100.53
		For High-Density Polyethylene (HDPE) Jacket, Add	*2.89*	
33 61 13 00-0324	LF	12" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	365.50	123.70
		For High-Density Polyethylene (HDPE) Jacket, Add	*3.60*	

33 61 13 00-0325 Type K Copper Carrier Pipe *(33 61 13 00-0282)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0326	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	55.81	19.72
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.52*	
33 61 13 00-0327	LF	1" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	60.78	21.29
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.58*	
33 61 13 00-0328	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	66.39	22.61
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.65*	
33 61 13 00-0329	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	70.69	23.89
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.70*	
33 61 13 00-0330	LF	2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	74.46	25.35
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.73*	
33 61 13 00-0331	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	86.62	31.35
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.79*	
33 61 13 00-0332	LF	3" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	100.15	38.26
		For High-Density Polyethylene (HDPE) Jacket, Add	*0.86*	
33 61 13 00-0333	LF	4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	126.94	48.73
		For High-Density Polyethylene (HDPE) Jacket, Add	*1.08*	
33 61 13 00-0334	LF	5" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	158.40	59.67
		For High-Density Polyethylene (HDPE) Jacket, Add	*1.38*	
33 61 13 00-0335	LF	6" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	184.85	69.91
		For High-Density Polyethylene (HDPE) Jacket, Add	*1.60*	
33 61 13 00-0336	LF	8" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	243.12	84.47
		For High-Density Polyethylene (HDPE) Jacket, Add	*2.33*	
33 61 13 00-0337	LF	10" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	304.44	100.53
		For High-Density Polyethylene (HDPE) Jacket, Add	*3.07*	
33 61 13 00-0338	LF	12" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	377.24	123.70
		For High-Density Polyethylene (HDPE) Jacket, Add	*3.84*	

33 61 13 00-0339 Preinsulated Copper Fittings *(33 61 13 00-0052)*

33 61 13 00-0340 Elbows *(33 61 13 00-0339)*

33 61 13 00-0341 Elbows *(33 61 13 00-0340)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0342	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	358.32	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.88*	
33 61 13 00-0343	EA	1" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	372.89	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.00*	
33 61 13 00-0344	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	429.71	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.69*	
33 61 13 00-0345	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	487.88	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.20*	
33 61 13 00-0346	EA	2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	589.70	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.46*	
33 61 13 00-0347	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	725.85	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.72*	
33 61 13 00-0348	EA	3" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	844.42	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.75*	
33 61 13 00-0349	EA	4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	985.53	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.04*	
33 61 13 00-0350	EA	5" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,152.23	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.63*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0351	EA	6" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,259.68	
		For High-Density Polyethylene (HDPE) Jacket, Add	*13.21*	
33 61 13 00-0352	EA	8" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,754.74	
		For High-Density Polyethylene (HDPE) Jacket, Add	*19.09*	
33 61 13 00-0353	EA	10" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,422.02	
		For High-Density Polyethylene (HDPE) Jacket, Add	*24.41*	
33 61 13 00-0354	EA	12" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,057.99	
		For High-Density Polyethylene (HDPE) Jacket, Add	*32.30*	

33 61 13 00-0355 Elbows *(33 61 13 00-0340)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0356	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	376.62	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.25*	
33 61 13 00-0357	EA	1" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	391.62	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.37*	
33 61 13 00-0358	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	451.03	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.11*	
33 61 13 00-0359	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	511.13	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.67*	
33 61 13 00-0360	EA	2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	613.93	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.95*	
33 61 13 00-0361	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	751.05	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.22*	
33 61 13 00-0362	EA	3" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	873.50	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.33*	
33 61 13 00-0363	EA	4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,019.45	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.72*	
33 61 13 00-0364	EA	5" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,195.84	
		For High-Density Polyethylene (HDPE) Jacket, Add	*12.50*	
33 61 13 00-0365	EA	6" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,309.21	
		For High-Density Polyethylene (HDPE) Jacket, Add	*14.20*	
33 61 13 00-0366	EA	8" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,826.34	
		For High-Density Polyethylene (HDPE) Jacket, Add	*20.53*	
33 61 13 00-0367	EA	10" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,513.54	
		For High-Density Polyethylene (HDPE) Jacket, Add	*26.24*	
33 61 13 00-0368	EA	12" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,179.13	
		For High-Density Polyethylene (HDPE) Jacket, Add	*34.73*	

33 61 13 00-0369 Elbows *(33 61 13 00-0340)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0370	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	394.93	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.61*	
33 61 13 00-0371	EA	1" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	410.36	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.75*	
33 61 13 00-0372	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	472.35	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.54*	
33 61 13 00-0373	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	534.39	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.13*	
33 61 13 00-0374	EA	2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	638.15	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.43*	
33 61 13 00-0375	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	776.24	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.73*	
33 61 13 00-0376	EA	3" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	902.57	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.92*	
33 61 13 00-0377	EA	4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,053.37	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0378	EA	5" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,239.45	
		For High-Density Polyethylene (HDPE) Jacket, Add	*13.37*	
33 61 13 00-0379	EA	6" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,359.03	
		For High-Density Polyethylene (HDPE) Jacket, Add	*15.19*	
33 61 13 00-0380	EA	8" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,897.77	
		For High-Density Polyethylene (HDPE) Jacket, Add	*21.96*	
33 61 13 00-0381	EA	10" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,604.58	
		For High-Density Polyethylene (HDPE) Jacket, Add	*28.07*	
33 61 13 00-0382	EA	12" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,300.62	
		For High-Density Polyethylene (HDPE) Jacket, Add	*37.15*	

33 61 13 00-0383 Elbows *(33 61 13 00-0340)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0384	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	413.23	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.98*	
33 61 13 00-0385	EA	1" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	429.10	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.12*	
33 61 13 00-0386	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	493.67	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.96*	
33 61 13 00-0387	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	557.65	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.60*	
33 61 13 00-0388	EA	2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	662.38	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.91*	
33 61 13 00-0389	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	801.44	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.23*	
33 61 13 00-0390	EA	3" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	931.64	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.50*	
33 61 13 00-0391	EA	4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,087.28	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.08*	
33 61 13 00-0392	EA	5" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,283.06	
		For High-Density Polyethylene (HDPE) Jacket, Add	*14.25*	
33 61 13 00-0393	EA	6" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,408.55	
		For High-Density Polyethylene (HDPE) Jacket, Add	*16.18*	
33 61 13 00-0394	EA	8" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,969.37	
		For High-Density Polyethylene (HDPE) Jacket, Add	*23.39*	
33 61 13 00-0395	EA	10" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,696.10	
		For High-Density Polyethylene (HDPE) Jacket, Add	*29.90*	
33 61 13 00-0396	EA	12" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,421.76	
		For High-Density Polyethylene (HDPE) Jacket, Add	*39.57*	

33 61 13 00-0397 Tees *(33 61 13 00-0339)*

33 61 13 00-0398 Tees *(33 61 13 00-0397)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0399	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	533.75	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.25*	
33 61 13 00-0400	EA	1" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	555.41	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.42*	
33 61 13 00-0401	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	640.11	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.44*	
33 61 13 00-0402	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	726.95	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.21*	
33 61 13 00-0403	EA	2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	879.18	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.59*	
33 61 13 00-0404	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,083.05	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.98*	
33 61 13 00-0405	EA	3" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,260.87	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0406	EA	4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,471.58	
		For High-Density Polyethylene (HDPE) Jacket, Add	*13.43*	
33 61 13 00-0407	EA	5" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,722.71	
		For High-Density Polyethylene (HDPE) Jacket, Add	*17.27*	
33 61 13 00-0408	EA	6" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,880.33	
		For High-Density Polyethylene (HDPE) Jacket, Add	*19.61*	
33 61 13 00-0409	EA	8" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,616.11	
		For High-Density Polyethylene (HDPE) Jacket, Add	*28.36*	
33 61 13 00-0410	EA	10" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,616.76	
		For High-Density Polyethylene (HDPE) Jacket, Add	*36.24*	
33 61 13 00-0411	EA	12" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,562.76	
		For High-Density Polyethylene (HDPE) Jacket, Add	*47.97*	

33 61 13 00-0412 Tees *(33 61 13 00-0397)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0413	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	560.93	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.79*	
33 61 13 00-0414	EA	1" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	583.23	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.98*	
33 61 13 00-0415	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	671.77	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.08*	
33 61 13 00-0416	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	761.49	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.90*	
33 61 13 00-0417	EA	2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	915.15	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.31*	
33 61 13 00-0418	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,120.47	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.73*	
33 61 13 00-0419	EA	3" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,304.04	
		For High-Density Polyethylene (HDPE) Jacket, Add	*12.38*	
33 61 13 00-0420	EA	4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,521.95	
		For High-Density Polyethylene (HDPE) Jacket, Add	*14.44*	
33 61 13 00-0421	EA	5" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,787.47	
		For High-Density Polyethylene (HDPE) Jacket, Add	*18.56*	
33 61 13 00-0422	EA	6" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,953.89	
		For High-Density Polyethylene (HDPE) Jacket, Add	*21.09*	
33 61 13 00-0423	EA	8" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,722.44	
		For High-Density Polyethylene (HDPE) Jacket, Add	*30.48*	
33 61 13 00-0424	EA	10" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,752.67	
		For High-Density Polyethylene (HDPE) Jacket, Add	*38.96*	
33 61 13 00-0425	EA	12" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,742.65	
		For High-Density Polyethylene (HDPE) Jacket, Add	*51.57*	

33 61 13 00-0426 Tees *(33 61 13 00-0397)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0427	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	588.11	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.34*	
33 61 13 00-0428	EA	1" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	611.05	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.53*	
33 61 13 00-0429	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	703.43	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.71*	
33 61 13 00-0430	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	796.02	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.59*	
33 61 13 00-0431	EA	2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	951.13	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.03*	
33 61 13 00-0432	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,157.89	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0433	EA	3" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,347.21	
		For High-Density Polyethylene (HDPE) Jacket, Add	*13.24*	
33 61 13 00-0434	EA	4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,572.32	
		For High-Density Polyethylene (HDPE) Jacket, Add	*15.45*	
33 61 13 00-0435	EA	5" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,852.23	
		For High-Density Polyethylene (HDPE) Jacket, Add	*19.86*	
33 61 13 00-0436	EA	6" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,027.87	
		For High-Density Polyethylene (HDPE) Jacket, Add	*22.56*	
33 61 13 00-0437	EA	8" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,827.62	
		For High-Density Polyethylene (HDPE) Jacket, Add	*32.61*	
33 61 13 00-0438	EA	10" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,885.81	
		For High-Density Polyethylene (HDPE) Jacket, Add	*41.68*	
33 61 13 00-0439	EA	12" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,925.74	
		For High-Density Polyethylene (HDPE) Jacket, Add	*55.17*	

33 61 13 00-0440 Tees *(33 61 13 00-0397)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0441	EA	3/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	615.30	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.88*	
33 61 13 00-0442	EA	1" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	638.87	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.09*	
33 61 13 00-0443	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	735.09	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.34*	
33 61 13 00-0444	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	830.56	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.28*	
33 61 13 00-0445	EA	2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	987.11	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.75*	
33 61 13 00-0446	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,195.30	
		For High-Density Polyethylene (HDPE) Jacket, Add	*12.22*	
33 61 13 00-0447	EA	3" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,390.38	
		For High-Density Polyethylene (HDPE) Jacket, Add	*14.10*	
33 61 13 00-0448	EA	4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,622.69	
		For High-Density Polyethylene (HDPE) Jacket, Add	*16.45*	
33 61 13 00-0449	EA	5" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,916.99	
		For High-Density Polyethylene (HDPE) Jacket, Add	*21.15*	
33 61 13 00-0450	EA	6" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,101.42	
		For High-Density Polyethylene (HDPE) Jacket, Add	*24.03*	
33 61 13 00-0451	EA	8" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,933.95	
		For High-Density Polyethylene (HDPE) Jacket, Add	*34.74*	
33 61 13 00-0452	EA	10" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,021.73	
		For High-Density Polyethylene (HDPE) Jacket, Add	*44.40*	
33 61 13 00-0453	EA	12" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,105.62	
		For High-Density Polyethylene (HDPE) Jacket, Add	*58.76*	

33 61 13 00-0454 Reducers *(33 61 13 00-0339)*

33 61 13 00-0455 Reducers *(33 61 13 00-0454)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0456	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	305.42	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.05*	
33 61 13 00-0457	EA	1" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	318.08	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.15*	
33 61 13 00-0458	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	366.85	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.72*	
33 61 13 00-0459	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	417.30	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.15*	
33 61 13 00-0460	EA	2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	507.99	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0461	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	638.52	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.58*	
33 61 13 00-0462	EA	3" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	736.54	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.43*	
33 61 13 00-0463	EA	4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	855.09	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.51*	
33 61 13 00-0464	EA	5" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	996.53	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.65*	
33 61 13 00-0465	EA	6" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,087.68	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.96*	
33 61 13 00-0466	EA	8" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,512.53	
		For High-Density Polyethylene (HDPE) Jacket, Add	*15.85*	
33 61 13 00-0467	EA	10" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,095.01	
		For High-Density Polyethylene (HDPE) Jacket, Add	*20.26*	
33 61 13 00-0468	EA	12" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,636.94	
		For High-Density Polyethylene (HDPE) Jacket, Add	*26.81*	

33 61 13 00-0469 Reducers *(33 61 13 00-0454)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0470	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	320.62	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.36*	
33 61 13 00-0471	EA	1" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	333.63	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.46*	
33 61 13 00-0472	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	384.55	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.07*	
33 61 13 00-0473	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	436.60	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.53*	
33 61 13 00-0474	EA	2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	528.10	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.76*	
33 61 13 00-0475	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	659.43	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.00*	
33 61 13 00-0476	EA	3" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	760.67	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.92*	
33 61 13 00-0477	EA	4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	883.24	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.07*	
33 61 13 00-0478	EA	5" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,032.73	
		For High-Density Polyethylene (HDPE) Jacket, Add	*10.38*	
33 61 13 00-0479	EA	6" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,128.79	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.79*	
33 61 13 00-0480	EA	8" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,571.97	
		For High-Density Polyethylene (HDPE) Jacket, Add	*17.04*	
33 61 13 00-0481	EA	10" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,170.98	
		For High-Density Polyethylene (HDPE) Jacket, Add	*21.78*	
33 61 13 00-0482	EA	12" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,737.48	
		For High-Density Polyethylene (HDPE) Jacket, Add	*28.82*	

33 61 13 00-0483 Reducers *(33 61 13 00-0454)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0484	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	335.81	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.66*	
33 61 13 00-0485	EA	1" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	349.18	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.77*	
33 61 13 00-0486	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	402.24	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.43*	
33 61 13 00-0487	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	455.91	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0488	EA	2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	548.21	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.17*	
33 61 13 00-0489	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	680.34	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.41*	
33 61 13 00-0490	EA	3" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	784.80	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.40*	
33 61 13 00-0491	EA	4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	911.39	
		For High-Density Polyethylene (HDPE) Jacket, Add	*8.63*	
33 61 13 00-0492	EA	5" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,068.92	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.10*	
33 61 13 00-0493	EA	6" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,170.13	
		For High-Density Polyethylene (HDPE) Jacket, Add	*12.61*	
33 61 13 00-0494	EA	8" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,630.99	
		For High-Density Polyethylene (HDPE) Jacket, Add	*18.23*	
33 61 13 00-0495	EA	10" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,246.54	
		For High-Density Polyethylene (HDPE) Jacket, Add	*23.30*	
33 61 13 00-0496	EA	12" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,838.31	
		For High-Density Polyethylene (HDPE) Jacket, Add	*30.83*	

33 61 13 00-0497 Reducers *(33 61 13 00-0454)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0498	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	351.00	
		For High-Density Polyethylene (HDPE) Jacket, Add	*4.96*	
33 61 13 00-0499	EA	1" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	364.73	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.08*	
33 61 13 00-0500	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	419.94	
		For High-Density Polyethylene (HDPE) Jacket, Add	*5.78*	
33 61 13 00-0501	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	475.21	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.31*	
33 61 13 00-0502	EA	2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	568.32	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.57*	
33 61 13 00-0503	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	701.26	
		For High-Density Polyethylene (HDPE) Jacket, Add	*6.83*	
33 61 13 00-0504	EA	3" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	808.93	
		For High-Density Polyethylene (HDPE) Jacket, Add	*7.88*	
33 61 13 00-0505	EA	4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	939.54	
		For High-Density Polyethylene (HDPE) Jacket, Add	*9.20*	
33 61 13 00-0506	EA	5" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,105.12	
		For High-Density Polyethylene (HDPE) Jacket, Add	*11.82*	
33 61 13 00-0507	EA	6" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,211.24	
		For High-Density Polyethylene (HDPE) Jacket, Add	*13.43*	
33 61 13 00-0508	EA	8" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,690.42	
		For High-Density Polyethylene (HDPE) Jacket, Add	*19.41*	
33 61 13 00-0509	EA	10" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,322.51	
		For High-Density Polyethylene (HDPE) Jacket, Add	*24.82*	
33 61 13 00-0510	EA	12" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,938.85	
		For High-Density Polyethylene (HDPE) Jacket, Add	*32.84*	

33 61 13 00-0511 Preinsulated Ductile Iron Carrier Pipe *(33 61 13 00-0052)*

Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.

33 61 13 00-0512 Ductile Iron Carrier Pipe *(33 61 13 00-0511)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0513	LF	4" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	444.28	62.95
33 61 13 00-0514	LF	6" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	655.65	90.40
33 61 13 00-0515	LF	8" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	924.48	109.22
33 61 13 00-0516	LF	10" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	1,201.17	129.98

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0517	LF	12" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	1,495.46	159.97
33 61 13 00-0518		**Ductile Iron Carrier Pipe** *(33 61 13 00-0511)*		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0519	LF	4" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	485.22	63.00
33 61 13 00-0520	LF	6" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	716.46	90.40
33 61 13 00-0521	LF	8" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	1,012.98	109.23
33 61 13 00-0522	LF	10" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	1,317.97	129.98
33 61 13 00-0523	LF	12" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	1,641.16	159.98
33 61 13 00-0524	LF	14" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	1,809.03	170.69
33 61 13 00-0525	LF	16" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	2,067.30	182.88
33 61 13 00-0526	LF	18" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	2,359.70	195.08
33 61 13 00-0527	LF	20" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	2,619.77	207.27
33 61 13 00-0528	LF	24" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	3,162.92	225.56
33 61 13 00-0529		**Preinsulated Ductile Iron Fittings** *(33 61 13 00-0052)*		
33 61 13 00-0530		**Elbows** *(33 61 13 00-0529)*		
33 61 13 00-0531		**Elbows** *(33 61 13 00-0530)*		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0532	EA	4" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	4,237.80	
33 61 13 00-0533	EA	6" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	5,982.04	
33 61 13 00-0534	EA	8" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	8,571.67	
33 61 13 00-0535	EA	10" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	11,162.41	
33 61 13 00-0536	EA	12" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	14,603.84	
33 61 13 00-0537		**Elbows** *(33 61 13 00-0530)*		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0538	EA	4" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	4,743.54	
33 61 13 00-0539	EA	6" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	6,720.57	
33 61 13 00-0540	EA	8" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	9,639.35	
33 61 13 00-0541	EA	10" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	12,527.10	
33 61 13 00-0542	EA	12" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	16,410.05	
33 61 13 00-0543	EA	14" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	20,093.78	
33 61 13 00-0544	EA	16" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	24,032.50	
33 61 13 00-0545	EA	18" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	30,081.57	
33 61 13 00-0546	EA	20" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	37,957.44	
33 61 13 00-0547	EA	24" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	48,039.33	
33 61 13 00-0548		**Tees** *(33 61 13 00-0529)*		
33 61 13 00-0549		**Tees** *(33 61 13 00-0548)*		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0550	EA	4" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	6,302.34	
33 61 13 00-0551	EA	6" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	8,894.61	
33 61 13 00-0552	EA	8" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	12,741.04	
33 61 13 00-0553	EA	10" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	16,599.36	
33 61 13 00-0554	EA	12" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	21,711.59	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0555		**Tees** *(33 61 13 00-0548)*		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0556	EA	4" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	7,053.36	
33 61 13 00-0557	EA	6" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	9,991.35	
33 61 13 00-0558	EA	8" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	14,326.54	
33 61 13 00-0559	EA	10" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	18,625.93	
33 61 13 00-0560	EA	12" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	24,393.83	
33 61 13 00-0561	EA	14" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	29,676.89	
33 61 13 00-0562	EA	16" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	35,500.12	
33 61 13 00-0563	EA	18" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	44,436.17	
33 61 13 00-0564	EA	20" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	56,082.92	
33 61 13 00-0565	EA	24" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	70,950.63	
33 61 13 00-0566		**Reducers** *(33 61 13 00-0529)*		
33 61 13 00-0567		**Reducers** *(33 61 13 00-0566)*		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0568	EA	4" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	3,560.05	
33 61 13 00-0569	EA	6" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	5,013.56	
33 61 13 00-0570	EA	8" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	7,179.10	
33 61 13 00-0571	EA	10" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	9,362.14	
33 61 13 00-0572	EA	12" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	12,234.81	
33 61 13 00-0573		**Reducers** *(33 61 13 00-0566)*		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0574	EA	4" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	3,979.81	
33 61 13 00-0575	EA	6" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	5,626.54	
33 61 13 00-0576	EA	8" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	8,065.25	
33 61 13 00-0577	EA	10" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	10,494.83	
33 61 13 00-0578	EA	12" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	13,733.98	
33 61 13 00-0579	EA	14" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	16,692.13	
33 61 13 00-0580	EA	16" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	19,954.24	
33 61 13 00-0581	EA	18" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	24,899.03	
33 61 13 00-0582	EA	20" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	31,525.51	
33 61 13 00-0583	EA	24" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	39,937.74	
33 61 13 00-0584		**Tempered Water Piping Pre-Insulated** *(33 61 13 00-0052)*		
33 61 13 00-0585		**Fiberglass Reinforced Polyester (FRP) Carrier And Casing, 1" Polyurethane Insulation** *(33 61 13 00-0584)*		
33 61 13 00-0586	LF	4" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	150.82	25.26
33 61 13 00-0587	LF	6" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	196.18	28.59
33 61 13 00-0588	LF	8" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	273.81	31.50
33 61 13 00-0589	LF	10" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	377.15	39.38
33 61 13 00-0590	LF	12" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	483.84	48.57
33 61 13 00-0591		**Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing, 1" Polyurethane Insulation** *(33 61 13 00-0584)*		
33 61 13 00-0592	LF	4" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	73.77	28.59
33 61 13 00-0593	LF	6" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	88.54	28.59

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0594	LF	8" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	102.60	28.59
33 61 13 00-0595	LF	10" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	122.65	33.80
33 61 13 00-0596	LF	12" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	148.45	42.90

33 61 13 00-0597 Polyvinyl Chloride (PVC) Carrier And Casing, 1" Polyurethane Insulation *(33 61 13 00-0584)*

33 61 13 00-0598	LF	4" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	73.76	28.59
33 61 13 00-0599	LF	6" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	88.54	28.59
33 61 13 00-0600	LF	8" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	101.30	28.59
33 61 13 00-0601	LF	10" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	122.64	33.80
33 61 13 00-0602	LF	12" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	148.44	42.90

33 70 Electrical Utilities *(33)*

33 71 Electrical Utility Transmission and Distribution *(33 70)*

33 71 19 Electrical Underground Ducts, Ductbanks and Manholes *(33 71)*

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes *(33 71 19)*

33 71 19 13-0001 Electrical Handholes And Pull Boxes *(33 71 19 13)*

33 71 19 13-0002 Electrical Pull Boxes *(33 71 19 13-0001)*

See CSI section 33 05 63 00-0427 for handholes.

33 71 19 13-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete	2,735.89	589.41
33 71 19 13-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete	3,308.76	653.32
33 71 19 13-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,858.72	710.13
33 71 19 13-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete	6,153.52	852.15
33 71 19 13-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete	6,598.43	852.15
33 71 19 13-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete	7,114.27	887.67
33 71 19 13-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete	8,197.24	994.19
33 71 19 13-0010	EA	18" x 28" x 34", Electric Pull Boxes, Precast Concrete	2,885.24	653.32
33 71 19 13-0011	EA	14" x 20" x 12", Electric Pull Boxes, Precast Concrete	1,429.68	426.08
33 71 19 13-0012	EA	18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,814.70	852.15
33 71 19 13-0013	EA	24" x 36" x 12", Electric Pull Boxes, Precast Concrete	2,470.10	994.19
33 71 19 13-0014	EA	24" x 3', Round Electric Pull Boxes, Precast Concrete	1,575.14	248.54
33 71 19 13-0015	EA	30" x 3', Round Electric Pull Boxes, Precast Concrete	1,661.98	266.30

33 71 19 13-0016 Electrical Pull Boxes (CALTRANS) *(33 71 19 13-0001)*

33 71 19 13-0017	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box	147.64	
33 71 19 13-0018	EA	Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	59.11	
33 71 19 13-0019	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	90.75	
33 71 19 13-0020	EA	Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	192.47	
33 71 19 13-0021	EA	Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	297.94	
		For Galvanized Steel Cover, Add	*51.06*	
33 71 19 13-0022	EA	12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	74.53	
33 71 19 13-0023	EA	Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	74.53	
33 71 19 13-0024	EA	Body, CALTRANS 5 Precast Concrete Pull Box	211.16	
33 71 19 13-0025	EA	Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	79.08	
33 71 19 13-0026	EA	Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	110.72	
33 71 19 13-0027	EA	Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	395.29	
		For Galvanized Steel Cover, Add	*93.61*	
33 71 19 13-0028	EA	12" Extension, CALTRANS 5 Precast Concrete Pull Box	105.73	
33 71 19 13-0029	EA	Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	98.86	
33 71 19 13-0030	EA	Body, CALTRANS 6 Precast Concrete Pull Box	231.13	
33 71 19 13-0031	EA	Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	105.91	
33 71 19 13-0032	EA	Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	137.56	
33 71 19 13-0033	EA	Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	542.57	
		For Galvanized Steel Cover, Add	*131.05*	
33 71 19 13-0034	EA	12" Extension, CALTRANS 6 Precast Concrete Pull Box	125.70	
33 71 19 13-0035	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	118.21	
33 71 19 13-0036	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	163.14	
33 71 19 13-0037	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	330.49	
33 71 19 13-0038	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	475.17	
33 71 19 13-0039	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	150.66	
33 71 19 13-0040	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	138.18	
33 71 19 13-0041	EA	Body, CALTRANS 5-T Precast Concrete Pull Box	430.83	
33 71 19 13-0042	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	687.35	
33 71 19 13-0043	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box	180.62	
33 71 19 13-0044	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	175.62	
33 71 19 13-0045	EA	Body, CALTRANS 6-T Precast Concrete Pull Box	613.05	
33 71 19 13-0046	EA	Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	961.94	
33 71 19 13-0047	EA	12" Extension, CALTRANS 6-T Precast Concrete Pull Box	305.43	
33 71 19 13-0048	EA	Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	238.03	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0049		**Precast Concrete Box Extensions** *(33 71 19 13-0001)*		
33 71 19 13-0050	EA	14" x 20" x 12", Precast Concrete Extension	234.71	45.44
33 71 19 13-0051	EA	18" x 28" x 12", Precast Concrete Extension	294.91	57.55
33 71 19 13-0052	EA	24" x 36" x 12", Precast Concrete Extension	385.25	78.76
33 71 19 13-0053	EA	30" x 48" x 12", Precast Concrete Extension	477.00	109.05
33 71 19 13-0054	EA	36" x 60" x 12", Precast Concrete Extension	758.01	133.28
33 71 19 13-0055	EA	36" x 72" x 12", Precast Concrete Extension	1,010.11	151.46
33 71 19 13-0056	EA	48" x 48" x 12", Precast Concrete Extension	1,141.71	139.33
33 71 19 13-0057	EA	48" x 60" x 12", Precast Concrete Extension	1,400.00	163.57
33 71 19 13-0058		**Electrical Property Line Boxes** *(33 71 19 13)*		
33 71 19 13-0059	EA	3'-6" x 2'-9" x 2' Deep Property Line Box	5,845.49	479.34
33 71 19 13-0060	EA	4'-6" x 3'-6" x 4' Deep Property Line Box	6,879.04	497.09
33 71 19 13-0061	EA	6' x 4' x 5' Deep Property Line Box	7,539.46	603.61
33 71 19 13-0062	EA	11'-6" x 4'-6" x 6' Deep Property Line Box	11,549.01	887.67
33 71 19 13-0063		**Manhole Accessories** *(33 71 19 13)*		
33 71 19 13-0064	EA	6" Precast Grade Ring Riser Casting	482.22	135.36
33 71 19 13-0065	EA	12" Precast Grade Ring Riser Casting	522.23	146.64
33 71 19 13-0066	EA	36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D)	2,206.86	225.60
33 71 19 13-0067	EA	42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1)	2,881.87	282.00
33 71 19 13-0068	EA	Cast Iron Adjusting Ring (NEENAH #R-1979)	922.58	150.59
33 71 19 13-0069	EA	Cast Iron Frame And Cover (NEENAH #R-1640-B)	1,176.79	169.20

33 71 19 23 Trenched Electrical Underground Duct and Ductbanks *(33 71 19)*

33 71 19 23-0001 Underground Ductbank *(33 71 19 23)*

Note: Installation of single or multiple configuration underground utility raceways assembly to have minimum 3" concrete leveling base and encased in concrete envelope. Based on minimum 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations. See CSI section 03 30 53 00-0001 for concrete.

33 71 19 23-0002 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank *(33 71 19 23-0001)*

Note: Includes appropriate spacers and fittings.

33 71 19 23-0003	LF	2 At 2", Rigid Galvanized Conduit Duct Bank	36.15
33 71 19 23-0004	LF	4 At 2", Rigid Galvanized Conduit Duct Bank	72.34
33 71 19 23-0005	LF	2 At 3", Rigid Galvanized Conduit Duct Bank	74.99
33 71 19 23-0006	LF	4 At 3", Rigid Galvanized Conduit Duct Bank	150.45
33 71 19 23-0007	LF	2 At 4", Rigid Galvanized Conduit Duct Bank	110.51
33 71 19 23-0008	LF	4 At 4", Rigid Galvanized Conduit Duct Bank	222.07
33 71 19 23-0009	LF	6 At 4", Rigid Galvanized Conduit Duct Bank	333.45
33 71 19 23-0010	LF	2 At 5", Rigid Galvanized Conduit Duct Bank	210.42
33 71 19 23-0011	LF	4 At 5", Rigid Galvanized Conduit Duct Bank	419.79
33 71 19 23-0012	LF	6 At 5", Rigid Galvanized Conduit Duct Bank	644.64
33 71 19 23-0013	LF	2 At 6", Rigid Galvanized Conduit Duct Bank	298.72
33 71 19 23-0014	LF	4 At 6", Rigid Galvanized Conduit Duct Bank	599.69
33 71 19 23-0015	LF	6 At 6", Rigid Galvanized Conduit Duct Bank	893.30

33 71 19 23-0016 Polyvinyl Chloride (PVC), Type EB-20 Duct Bank System *(33 71 19 23-0001)*

Note: Includes appropriate spacers and fittings.

33 71 19 23-0017	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	7.48
33 71 19 23-0018	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	16.39
33 71 19 23-0019	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	31.49
33 71 19 23-0020	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	9.92
33 71 19 23-0021	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	19.78
33 71 19 23-0022	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	40.18
33 71 19 23-0023	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	13.32
33 71 19 23-0024	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	26.66
33 71 19 23-0025	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	53.36
33 71 19 23-0026	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	80.03
33 71 19 23-0027	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	16.94
33 71 19 23-0028	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	33.85
33 71 19 23-0029	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	65.62
33 71 19 23-0030	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	93.26
33 71 19 23-0031	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	29.83
33 71 19 23-0032	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	45.96
33 71 19 23-0033	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	92.12
33 71 19 23-0034	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	148.50

33 71 19 23-0035 Polyvinyl Chloride (PVC), Type DB-60 Duct Bank System *(33 71 19 23-0001)*

Note: Includes appropriate spacers and fittings.

33 71 19 23-0036	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	8.30
33 71 19 23-0037	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	18.12

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 23-0038	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	34.73	
33 71 19 23-0039	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	10.31	
33 71 19 23-0040	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	20.60	
33 71 19 23-0041	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	41.07	
33 71 19 23-0042	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	13.68	
33 71 19 23-0043	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	27.38	
33 71 19 23-0044	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	54.80	
33 71 19 23-0045	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	82.19	
33 71 19 23-0046	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	17.48	
33 71 19 23-0047	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	34.94	
33 71 19 23-0048	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	67.78	
33 71 19 23-0049	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	96.51	
33 71 19 23-0050	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	30.58	
33 71 19 23-0051	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	47.52	
33 71 19 23-0052	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	95.24	
33 71 19 23-0053	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	153.17	
33 71 19 23-0054		**Male Or Female Adapters** *(33 71 19 23-0001)*		
33 71 19 23-0055	EA	2" Adapter	39.57	
33 71 19 23-0056	EA	3" Adapter	58.02	
33 71 19 23-0057	EA	4" Adapter	75.33	
33 71 19 23-0058	EA	5" Adapter	118.27	
33 71 19 23-0059	EA	6" Adapter	145.61	
33 71 19 23-0060		**Underground Electrical Concrete Markers** *(33 71 19 23)*		
33 71 19 23-0061	EA	36" x 6" x 6", Underground Electric Concrete Marker	339.77	

END OF SECTION 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 Transportation

34 01 Operation and Maintenance of Transportation *(34)*

34 01 23 Operation and Maintenance of Railways *(34 01)*

34 01 23 33 Track Realignment *(34 01 23)*

34 01 23 33-0001 Realign Railroad Track *(34 01 23 33)*

34 01 23 33-0002	LF	Removal Of Track Rails and Ties And Re-Install Including New Bolts And Spikes	109.19
34 01 23 33-0003	EA	Removal Of Railroad Track Turnouts And Re-install Including New Bolts And Spikes	5,344.67

34 01 43 Operation and Maintenance of Bridges *(34 01)*

34 01 43 00-0001 Repair Of Bridge Posts *(34 01 43)*

34 01 43 00-0002	SF	Chipping Of Concrete To Expose Rebar	39.18
34 01 43 00-0003	EA	Removal And Replacement Of Concrete Post, 20" x 20" Square, 36" To 42" High	2,339.23
		Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.	
34 01 43 00-0004	EA	Repair Bearing Pad	833.71

34 01 43 00-0005 Repair Of Bridge Rails *(34 01 43)*

34 01 43 00-0006	EA	Repair Concrete Rail Supports	417.33
34 01 43 00-0007	LF	Repair Guardrail	156.50
		For Up To 5, Add	*78.25*
		For >5 To 10, Add	*46.95*
		For >10 To 20, Add	*23.48*
34 01 43 00-0008	LF	Repair Bridge Parapet Wall	260.83
		For Up To 5, Add	*130.42*
		For >5 To 10, Add	*78.25*
		For >10 To 20, Add	*39.12*
34 01 43 00-0009	LF	Repair Bridge Rail	101.80
		For Up To 5, Add	*50.90*
		For >5 To 10, Add	*30.54*
		For >10 To 20, Add	*15.27*
34 01 43 00-0010	LF	Repair Damaged Metal Rail And Posts	53.89
34 01 43 00-0011	LF	Removal And Replacement Of 1-1/2" Galvanized Metal Rail	63.61
34 01 43 00-0012	LF	Removal And Replacement Of 2-1/2" Galvanized Metal Rail	86.58
34 01 43 00-0013	LF	Removal And Replacement Of 3" Galvanized Metal Rail	98.97

34 01 43 00-0014 Repair Of Bridge *(34 01 43)*

34 01 43 00-0015	LF	Repair Of Expansion Joints On Bridge	24.06
		For Up To 20, Add	*7.95*
		For >20 To 40, Add	*3.97*
		For 41 LF To 60 LF, Add	*1.99*

34 01 43 00-0016 Repair Of Bridge Parapet *(34 01 43)*

34 01 43 00-0017	DAY	Minimum for Stone Bridge Parapet Repair	2,889.31
		Note: Includes removing and resetting of extisting stone, new stone, including Capstone. Wet or Dry Mortar. Includes chipping, sandblasting and Jackhammer.	
34 01 43 00-0018	CF	Stone Bridge Parapet Repair Removing And Resetting Existing Stone And Capstone	398.09
		Note: Includes removing loose stones and mortar, chipping, sandblasting Jackhammer.	
		For Mortar, Add Per CF	*50.00*
34 01 43 00-0019	CF	Stone Bridge Parapet Repair Using New Stone And Masonry	482.89
		Note: Includes removing loose stones and mortar, chipping, sandblasting Jackhammer.	
		For Mortar, Add Per CF	*50.00*
34 01 43 00-0020	SF	Removing and Resetting Existing 24" Capstones	128.42
		Note: Includes chipping, jackhammering, sandblasting, cleaning.	
		For Mortar, Add Per CF	*50.00*
34 01 43 00-0021	SF	Removing and Resetting Existing 30" Capstones	160.52
		Note: Includes chipping, jackhammering, sandblasting, cleaning.	
		For Mortar, Add Per CF	*50.00*
34 01 43 00-0022	SF	Removing and Resetting Existing 36" Capstones	192.62
		Note: Includes chipping, jackhammering, sandblasting, cleaning.	
		For Mortar, Add Per CF	*50.00*

34 05 Common Work Results for Transportation *(34)*

34 05 43 Common Work Results for Bridges *(34 05)*

34 05 43 00-0001 Mobilize Bridge Crew *(34 05 43)*

Note: Excludes mobilize jacking crew.

34 05 43 00-0002	EA	Mobilize Bridge Crew	1,467.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0003		**Remove And Patch Bridge And Structures Concrete** *(34 05 43)* Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork, cement/concrete as listed, finish and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.		
34 05 43 00-0004		**Remove And Patch Decks Or Floors** *(34 05 43 00-0003)* Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0005	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material	2,577.30	
34 05 43 00-0006	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material	109.31	
34 05 43 00-0007	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	2,659.31	
34 05 43 00-0008	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	114.44	
34 05 43 00-0009	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	2,641.17	
34 05 43 00-0010	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	113.30	
34 05 43 00-0011	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	4,031.24	
		For Owner Furnished Material, Deduct	*-1,703.78*	
34 05 43 00-0012	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	200.18	
		For Owner Furnished Material, Deduct	*-106.47*	
34 05 43 00-0013		**Remove And Patch Verticals Or Overheads** *(34 05 43 00-0003)* Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0014	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	3,037.43	
34 05 43 00-0015	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	132.32	
34 05 43 00-0016	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	3,119.44	
34 05 43 00-0017	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	137.45	
34 05 43 00-0018	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	3,101.30	
34 05 43 00-0019	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	136.31	
34 05 43 00-0020	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	4,491.37	
		For Owner Furnished Material, Deduct	*-1,703.78*	
34 05 43 00-0021	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	223.19	
		For Owner Furnished Material, Deduct	*-106.47*	
34 05 43 00-0022		**Remove And Patch Pier Caps And Pedestals** *(34 05 43 00-0003)* Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0023	EA	Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material	3,497.55	
34 05 43 00-0024	SF	Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material	149.58	
34 05 43 00-0025	EA	Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	3,579.56	
34 05 43 00-0026	SF	Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	154.71	
34 05 43 00-0027	EA	Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	3,561.42	
34 05 43 00-0028	SF	Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	153.57	
34 05 43 00-0029	EA	Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)	4,951.49	
		For Owner Furnished Material, Deduct	*-1,703.78*	
34 05 43 00-0030	SF	Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)	240.45	
		For Owner Furnished Material, Deduct	*-106.47*	
34 05 43 00-0031		**Remove And Patch Circular Piers** *(34 05 43 00-0003)* Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0032	EA	Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	4,187.73	
34 05 43 00-0033	SF	Remove And Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	166.83	
34 05 43 00-0034	EA	Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	4,269.74	
34 05 43 00-0035	SF	Remove And Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	171.96	
34 05 43 00-0036	EA	Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	4,251.60	
34 05 43 00-0037	SF	Remove And Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	191.13	
34 05 43 00-0038	EA	Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	5,641.67	
		For Owner Furnished Material, Deduct	*-1,703.78*	
34 05 43 00-0039	SF	Remove And Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	257.70	
		For Owner Furnished Material, Deduct	*-106.47*	
34 05 43 00-0040		**Fiber Reinforced Shotcrete Repair For Bridges** *(34 05 43)*		
34 05 43 00-0041	EA	Mobilize Fiber Reinforced Shotcrete Repair Crew	939.92	
34 05 43 00-0042	SF	Up to 2" Thick, Fiber Reinforced Shotcrete Repair	58.00	
		For Up To 25, Add	*28.20*	
		For >25 To 50, Add	*14.10*	
		For >50 To 150, Add	*5.64*	
34 05 43 00-0043	SF	>2" To 4" Thick, Fiber Reinforced Shotcrete Repair	69.00	
		For Up To 25, Add	*32.90*	
		For >25 To 50, Add	*16.45*	
		For >50 To 150, Add	*6.58*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0044	SF	>4" To 6" Thick, Fiber Reinforced Shotcrete Repair	79.99	
		For Up To 25, Add	*37.60*	
		For >25 To 50, Add	*18.80*	
		For >50 To 150, Add	*7.52*	

34 05 43 00-0045 Bridge Railing *(34 05 43)*

34 05 43 00-0046 Remove And Store Bridge Railings *(34 05 43 00-0045)*

See CSI section 34 82 23 00-0007 for posts.

34 05 43 00-0047	LF	Removal And Storage Of One Rail Bridge Railing	8.21	
34 05 43 00-0048	LF	Removal And Storage Of Two Rail Bridge Railing	16.42	
34 05 43 00-0049	LF	Removal And Storage Of Three Rail Bridge Railing	24.63	
34 05 43 00-0050	LF	Removal And Storage Of Four Rail Bridge Railing	32.83	

34 05 43 00-0051 Install Stored Or Supplied Bridge Railings *(34 05 43 00-0045)*

See CSI section 34 82 23 00-0007 for posts.

34 05 43 00-0052	LF	Install Stored Or Supplied One Rail Bridge Railing	69.16	
34 05 43 00-0053	LF	Install Stored Or Supplied Two Rail Bridge Railing	138.33	
34 05 43 00-0054	LF	Install Stored Or Supplied Three Rail Bridge Railing	207.49	
34 05 43 00-0055	LF	Install Stored Or Supplied Four Rail Bridge Railing	276.66	

34 05 43 00-0056 Bridge Bearings *(34 05 43)*

Note: Excludes drilling and anchor bolts.

34 05 43 00-0057 Elastomeric Bearings *(34 05 43 00-0056)*

34 05 43 00-0058	EA	Plain Elastomeric, Type EP Bearing, 716-10, All Loads	1,279.64	352.16
34 05 43 00-0059	EA	Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K	1,925.47	704.31
		For >100K To 250K Load, Add	*95.70*	
		For >250K To 500K Load, Add	*191.41*	
		For >500K To 750K Load, Add	*287.11*	
34 05 43 00-0060	EA	Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K	4,355.69	1,056.48
		For >100K To 250K Load, Add	*290.30*	
		For >250K To 500K Load, Add	*580.61*	
		For >500K To 750K Load, Add	*870.91*	

34 05 43 00-0061 Fixed Structural Pot Bearings *(34 05 43 00-0056)*

34 05 43 00-0062	EA	100K To 250K Fixed Structural Pot Bearing	3,801.96
34 05 43 00-0063	EA	>250K To 500K Fixed Structural Pot Bearing	5,817.45
34 05 43 00-0064	EA	>500K To 750K Fixed Structural Pot Bearing	7,832.93

34 05 43 00-0065 Universal Structural Expansion Pot Bearings *(34 05 43 00-0056)*

34 05 43 00-0066	EA	100K To 250K Universal Structural Pot Bearing	4,727.95
34 05 43 00-0067	EA	>250K To 500K Universal Structural Pot Bearing	7,240.21
34 05 43 00-0068	EA	>500K To 750K Universal Structural Pot Bearing	9,756.84

34 05 43 00-0069 Guided Structural Expansion Pot Bearings *(34 05 43 00-0056)*

34 05 43 00-0070	EA	100K To 250K Guided Structural Pot Bearing	4,895.77
34 05 43 00-0071	EA	>250K To 500K Guided Structural Pot Bearing	7,491.89
34 05 43 00-0072	EA	>500K To 750K Guided Structural Pot Bearing	10,092.41

34 05 43 00-0073 Remove, Repair And Install Bridge Bearings *(34 05 43 00-0056)*

34 05 43 00-0074 Remove Structural Bearings *(34 05 43 00-0073)*

34 05 43 00-0075	EA	100K To 250K Structural Bearing Removal	506.23
34 05 43 00-0076	EA	>250K To 500K Structural Bearing Removal	1,012.46
34 05 43 00-0077	EA	>500K To 750K Structural Bearing Removal	1,518.68

34 05 43 00-0078 Install And Set Supplied Or Restored Structural Bearings *(34 05 43 00-0073)*

34 05 43 00-0079	EA	100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing	759.35
34 05 43 00-0080	EA	>250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,518.68
34 05 43 00-0081	EA	>500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing	2,278.03

34 05 43 00-0082 Power Wash And Paint Structural Bearings *(34 05 43 00-0073)*

Note: Includes bearing plates.

34 05 43 00-0083	EA	100K To 250K Structural Bearing - Power Wash And Paint	1,184.32
34 05 43 00-0084	EA	>250K To 500K Structural Bearing - Power Wash And Paint	1,337.81
34 05 43 00-0085	EA	>500K To 750K Structural Bearing - Power Wash And Paint	1,491.28

34 05 43 00-0086 Power Wash, Mechanically Clean And Paint Structural Bearings *(34 05 43 00-0073)*

Note: Includes bearing plates. Excludes paint removal.

34 05 43 00-0087	EA	100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,575.65	
		For Vacuum Contained Cleaning, Add	*391.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0088	EA	>250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,778.00	
		For Vacuum Contained Cleaning, Add	*440.20*	
34 05 43 00-0089	EA	>500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,979.90	
		For Vacuum Contained Cleaning, Add	*488.99*	
34 05 43 00-0090		**Power Wash And Paint Only Bearing Plates** *(34 05 43 00-0073)*		
34 05 43 00-0091	EA	100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates	738.89	
34 05 43 00-0092	EA	>250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates	888.99	
34 05 43 00-0093	EA	>500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates	1,039.10	
34 05 43 00-0094		**Power Wash, Mechanically Clean And Paint Only Bearing Plates** *(34 05 43 00-0073)*		
34 05 43 00-0095	EA	100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	985.36	
		For Vacuum Contained Cleaning, Add	*244.57*	
34 05 43 00-0096	EA	>250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	1,182.46	
		For Vacuum Contained Cleaning, Add	*293.47*	
34 05 43 00-0097	EA	>500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	1,379.13	
		For Vacuum Contained Cleaning, Add	*342.26*	
34 05 43 00-0098		**Sand Blast And Paint Structural Bearings** *(34 05 43 00-0073)*		
		Note: Includes bearing plates.		
34 05 43 00-0099	EA	100K To 250K Structural Bearing - Sand Blast And Paint	1,888.64	
		For Vacuum Contained Cleaning, Add	*469.55*	
34 05 43 00-0100	EA	>250K To 500K Structural Bearing - Sand Blast And Paint	2,130.16	
		For Vacuum Contained Cleaning, Add	*528.24*	
34 05 43 00-0101	EA	>500K To 750K Structural Bearing - Sand Blast And Paint	2,371.68	
		For Vacuum Contained Cleaning, Add	*586.93*	
34 05 43 00-0102		**Sand Blast And Paint Only Bearing Plates** *(34 05 43 00-0073)*		
34 05 43 00-0103	EA	100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates	1,180.95	
		For Vacuum Contained Cleaning, Add	*293.47*	
34 05 43 00-0104	EA	>250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates	1,417.24	
		For Vacuum Contained Cleaning, Add	*352.16*	
34 05 43 00-0105	EA	>500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates	1,653.51	
		For Vacuum Contained Cleaning, Add	*410.85*	
34 05 43 00-0106		**Grease Structural Bearings** *(34 05 43 00-0073)*		
34 05 43 00-0107	EA	100K To 250K Structural Bearing - Grease	73.37	
34 05 43 00-0108	EA	>250K To 500K Structural Bearing - Grease	110.05	
34 05 43 00-0109	EA	>500K To 750K Structural Bearing - Grease	146.73	
34 05 43 00-0110		**Replace Bronze Plate Wearing Pad** *(34 05 43 00-0073)*		
34 05 43 00-0111	SF	Removal And Replacement Of Bronze Plate Wearing Pad	492.60	
34 05 43 00-0112		**Bridge Bearing Rivet Removal** *(34 05 43 00-0073)*		
		See CSI section 02 41 19 13-0080 for reaming of hole, 34 05 43 00-0327 for anchors and grouting.		
34 05 43 00-0113	EA	Bridge Bearing Rivet Removal	293.47	
34 05 43 00-0114		**Bridge Pintels, Side Keeper, And Shim Plates** *(34 05 43)*		
34 05 43 00-0115	EA	Removal And Replacement Of Bridge Pintel	295.17	
34 05 43 00-0116	EA	Removal And Replacement Of Bridge Side Keeper	301.53	
34 05 43 00-0117	EA	Refabricate And Install Shim Plates At One Bearing	182.61	
34 05 43 00-0118	EA	Refabricate And Install Beveled Shim Plates At One Bearing	182.61	
34 05 43 00-0119	EA	Refabricate And Install Finger Shim Plates At One Bearing	182.61	
34 05 43 00-0120		**Vertical Jacking And Lifting For Bridges** *(34 05 43)*		
		Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 05 12 23 00-0002 for temporary steel members.		
34 05 43 00-0121		**Mobilize Jacking Crew And Equipment** *(34 05 43 00-0120)*		
		Note: Includes removing equipment after completion.		
34 05 43 00-0122	EA	Mobilize Bridge Jacking Crew and Equipment	2,641.20	
		For Temporary Support Mobilization, Add	*5,282.40*	
34 05 43 00-0123		**Vertical Jacking And Lifting Per Point of Contact** *(34 05 43 00-0120)*		
		Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.		
34 05 43 00-0124	EA	Up To 10 Ton Jack, Per Point Of Contact	440.20	
		For Synchronized Lift, Add	*88.04*	
		For Jacking From Temporary Support, Add	*176.08*	
34 05 43 00-0125	EA	>10 To 20 Ton Jack, Per Point Of Contact	513.57	
		For Synchronized Lift, Add	*102.71*	
		For Jacking From Temporary Support, Add	*205.43*	

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0126	EA	>20 To 40 Ton Jack, Per Point Of Contact		586.93	
		For Synchronized Lift, Add		*117.39*	
		For Jacking From Temporary Support, Add		*234.77*	
34 05 43 00-0127	EA	>40 To 60 Ton Jack, Per Point Of Contact		660.29	
		For Synchronized Lift, Add		*132.06*	
		For Jacking From Temporary Support, Add		*264.12*	
34 05 43 00-0128	EA	>60 To 80 Ton Jack, Per Point Of Contact		733.66	
		For Synchronized Lift, Add		*146.73*	
		For Jacking From Temporary Support, Add		*293.46*	
34 05 43 00-0129	EA	>80 To 100 Ton Jack, Per Point Of Contact		807.03	
		For Synchronized Lift, Add		*161.41*	
		For Jacking From Temporary Support, Add		*322.81*	
34 05 43 00-0130	EA	>100 To 120 Ton Jack, Per Point Of Contact		880.39	
		For Synchronized Lift, Add		*176.08*	
		For Jacking From Temporary Support, Add		*352.16*	
34 05 43 00-0131	EA	>120 To 140 Ton Jack, Per Point Of Contact		917.08	
		For Synchronized Lift, Add		*183.42*	
		For Jacking From Temporary Support, Add		*366.83*	
34 05 43 00-0132	EA	>140 To 160 Ton Jack, Per Point Of Contact		953.76	
		For Synchronized Lift, Add		*190.75*	
		For Jacking From Temporary Support, Add		*381.50*	
34 05 43 00-0133	EA	>160 To 250 Ton Jack, Per Point Of Contact		953.76	
		For Synchronized Lift, Add		*190.75*	
		For Jacking From Temporary Support, Add		*381.50*	
34 05 43 00-0134	EA	>250 To 300 Ton Jack, Per Point Of Contact		1,027.13	
		For Synchronized Lift, Add		*205.43*	
		For Jacking From Temporary Support, Add		*410.85*	
34 05 43 00-0135	EA	>300 To 400 Ton Jack, Per Point Of Contact		1,100.50	
		For Synchronized Lift, Add		*220.10*	
		For Jacking From Temporary Support, Add		*440.20*	
34 05 43 00-0136	EA	>400 To 500 Ton Jack, Per Point Of Contact		1,173.86	
		For Synchronized Lift, Add		*234.77*	
		For Jacking From Temporary Support, Add		*469.54*	
34 05 43 00-0137	EA	>500 To 600 Ton Jack, Per Point Of Contact		1,247.23	
		For Synchronized Lift, Add		*249.45*	
		For Jacking From Temporary Support, Add		*498.89*	

34 05 43 00-0138 Daily Charge For Vertical Jacking Equipment *(34 05 43 00-0120)*

Note: Includes hydraulics and synchronizing equipment.

34 05 43 00-0139	DAY	Up To 10 Ton Jacking Equipment Charge By The Day	22.31
34 05 43 00-0140	DAY	>10 To 20 Ton Jacking Equipment Charge By The Day	44.62
34 05 43 00-0141	DAY	>20 To 40 Ton Jacking Equipment Charge By The Day	89.24
34 05 43 00-0142	DAY	>40 To 60 Ton Jacking Equipment Charge By The Day	133.87
34 05 43 00-0143	DAY	>60 To 80 Ton Jacking Equipment Charge By The Day	178.49
34 05 43 00-0144	DAY	>80 To 100 Ton Jacking Equipment Charge By The Day	223.11
34 05 43 00-0145	DAY	>100 To 120 Ton Jacking Equipment Charge By The Day	267.73
34 05 43 00-0146	DAY	>120 To 140 Ton Jacking Equipment Charge By The Day	312.35
34 05 43 00-0147	DAY	>140 To 160 Ton Jacking Equipment Charge By The Day	356.97
34 05 43 00-0148	DAY	>160 To 250 Ton Jacking Equipment Charge By The Day	407.34
34 05 43 00-0149	DAY	>250 To 300 Ton Jacking Equipment Charge By The Day	464.37
34 05 43 00-0150	DAY	>300 To 400 Ton Jacking Equipment Charge By The Day	588.20
34 05 43 00-0151	DAY	>400 To 500 Ton Jacking Equipment Charge By The Day	698.48
34 05 43 00-0152	DAY	>500 To 600 Ton Jacking Equipment Charge By The Day	796.29

34 05 43 00-0153 Temporary Shoring *(34 05 43 00-0120)*

Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.

34 05 43 00-0154 HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring *(34 05 43 00-0153)*

34 05 43 00-0155	EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	3,074.31
34 05 43 00-0156	EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,163.72
34 05 43 00-0157	EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	470.67

34 05 43 00-0158 HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring *(34 05 43 00-0153)*

34 05 43 00-0159	EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	3,188.49
34 05 43 00-0160	EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,033.53
34 05 43 00-0161	EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	451.51

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0162		HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring *(34 05 43 00-0153)*		
34 05 43 00-0163	EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	2,020.17	
34 05 43 00-0164	EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	850.40	
34 05 43 00-0165	EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	287.43	
34 05 43 00-0166		HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring *(34 05 43 00-0153)*		
34 05 43 00-0167	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	5,832.61	
34 05 43 00-0168	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	3,338.15	
34 05 43 00-0169	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	773.67	
34 05 43 00-0170		Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring *(34 05 43 00-0153)*		
		Note: Excludes mats. See CSI section 01 22 23 00-0615 for mats.		
34 05 43 00-0171	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Set-up	6,285.92	
		Note: Excludes mats.		
34 05 43 00-0172	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Relocation	2,337.36	
		Note: Excludes mats.		
34 05 43 00-0173	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Take Down And Removal	1,180.87	
		Note: Excludes mats.		
34 05 43 00-0174		Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring *(34 05 43 00-0153)*		
		Note: Excludes mats. See CSI section 01 22 23 00-0615 for mats.		
34 05 43 00-0175	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	2,607.13	
34 05 43 00-0176	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	715.29	
		Note: Excludes mats.		
34 05 43 00-0177	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	404.80	
		Note: Excludes mats.		
34 05 43 00-0178		MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring *(34 05 43 00-0153)*		
34 05 43 00-0179	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Set-up	2,861.64	
34 05 43 00-0180	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation	2,608.46	
34 05 43 00-0181	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal	395.22	
34 05 43 00-0182		MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring *(34 05 43 00-0153)*		
34 05 43 00-0183	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Set-up	2,129.94	
34 05 43 00-0184	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Relocation	1,922.08	
34 05 43 00-0185	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal	325.76	
34 05 43 00-0186		Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring *(34 05 43 00-0153)*		
34 05 43 00-0187	EA	Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Set-up	1,523.54	
		Note: Left in place.		
34 05 43 00-0188		Temporary Bridge Shoring Components *(34 05 43 00-0153)*		
		Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0048 for temporary lumber.		
34 05 43 00-0189		Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring *(34 05 43 00-0188)*		
		Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.		
34 05 43 00-0190	LF	Fabricate And Install MC7 x 19.1 For Temporary Bridge Shoring	100.48	
		Note: Remove after use.		

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0191	LF	Fabricate And Install MC18 x 51.9 For Temporary Bridge Shoring Note: Remove after use.	245.84	
34 05 43 00-0192	LF	Fabricate And Install HP12 x 53 For Temporary Bridge Shoring Note: Remove after use.	194.22	
34 05 43 00-0193	LF	Fabricate And Install HP12 x 63 For Temporary Bridge Shoring Note: Remove after use.	217.87	
34 05 43 00-0194	LF	Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	27.18	
		For Galvanized Steel, Add	*6.62*	
34 05 43 00-0195	LF	Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	34.58	
		For Galvanized Steel, Add	*9.01*	
34 05 43 00-0196	LF	Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	69.83	
		For Galvanized Steel, Add	*20.36*	
34 05 43 00-0197	LF	Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	60.54	
		For Galvanized Steel, Add	*18.24*	
34 05 43 00-0198	LF	Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	80.12	
		For Galvanized Steel, Add	*24.14*	
34 05 43 00-0199	SF	Fabricate And Install 5/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	104.15	
		For A50 Grade Steel, Add	*2.95*	
34 05 43 00-0200	SF	Fabricate And Install 7/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	145.81	
		For A50 Grade Steel, Add	*4.12*	
34 05 43 00-0201	SF	Fabricate And Install 1-3/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	229.14	
		For A50 Grade Steel, Add	*6.48*	
34 05 43 00-0202	SF	Fabricate And Install 1-1/2" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	249.97	
		For A50 Grade Steel, Add	*7.07*	

34 05 43 00-0203 Relocate Temporary Steel Bridge Shoring *(34 05 43 00-0188)*

Note: Includes removal after use.

34 05 43 00-0204	EA	Relocate Complete Temporary Steel Bridge Shoring Note: Remove after use. Includes relocating support matts. Excludes anchors, bolts or additional steel if required.	5,158.57	
34 05 43 00-0205	SF	Relocate 1-3/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	99.53	
34 05 43 00-0206	LF	Relocate HP12 x 63 For Temporary Bridge Shoring Note: Remove after use.	82.54	
34 05 43 00-0207	LF	Relocate 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	16.51	
34 05 43 00-0208	LF	Relocate 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	20.05	
34 05 43 00-0209	LF	Relocate 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	41.19	
34 05 43 00-0210	SF	Relocate 7/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	63.33	
34 05 43 00-0211	LF	Relocate MC7 x 19.1 For Temporary Bridge Shoring Note: Remove after use.	47.86	
34 05 43 00-0212	LF	Relocate HP12 x 53 For Temporary Bridge Shoring Note: Remove after use.	80.82	
34 05 43 00-0213	SF	Relocate 5/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	45.24	
34 05 43 00-0214	LF	Relocate 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	36.99	
34 05 43 00-0215	SF	Relocate 1-1/2" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	108.58	
34 05 43 00-0216	LF	Relocate MC18 x 51.9 For Temporary Bridge Shoring Note: Remove after use.	138.13	
34 05 43 00-0217	LF	Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring Note: Remove after use.	31.12	

34 05 43 00-0218 Pier Caps And Pedestal Replacement For Bridges *(34 05 43)*

See CSI section 03 15 19 00-0001 for anchor bolts.

34 05 43 00-0219	SF	Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas For Bridges	33.01	
34 05 43 00-0220	CWT	Rebar For Pier Cap Or Pedestals For Bridges	528.56	
34 05 43 00-0221	CY	Pour Pedestals For Bridges	430.19	
34 05 43 00-0222	CY	Demolish Concrete Pedestals For Bridges	4,820.61	
34 05 43 00-0223	CY	Pour Pier Cap For Bridges	508.76	
34 05 43 00-0224	CY	Demolish Concrete Pier Cap For Bridges	5,543.17	

34 05 43 00-0225 Bridge Deck Repair *(34 05 43)*

34 05 43 00-0226 Bridge Expansion Joint Repair *(34 05 43 00-0225)*

Note: Replace header with semi-flexible polymer nosing system. Includes saw cutting, chipping, sandblasting, forming, backer rod cleaning, primer and debris removal. Excludes disposal.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0227	CF	Removal And Replacement Of Header With Semi-Flexible Polymer Nosing System For Bridge Expansion Joint Repair	1,007.05	
		For Owner Furnished Material, Deduct	*-631.45*	
34 05 43 00-0228	CF	Removal And Replacement Of Header With Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Expansion Joint Repair Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.	239.40	
		For Up To 24, Add	*41.73*	
34 05 43 00-0229	CF	Removal And Replacement Of Header With Polyester-Based Polymer Patch For Bridge Expansion Joint Repair Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.	244.50	
		For Up To 24, Add	*42.24*	
34 05 43 00-0230	CI	Seal Expansion Joints With Rapid Cure Silicone For Bridge Expansion Joint Repair	7.66	
34 05 43 00-0231	CI	Seal Expansion Joints With Closed Cell Foam/EVA For Bridge Expansion Joint Repair	0.89	
34 05 43 00-0232	LF	Seal Expansion Joints With "V" Shape Preformed Silicone For Bridge Expansion Joint Repair	100.59	
		For >1,000 To 2,500, Deduct	*-10.06*	
		For >2,500, Deduct	*-16.41*	
34 05 43 00-0233	LF	Seal Expansion Joints With "W" Shape Preformed Silicone For Bridge Expansion Joint Repair	106.60	
		For >1,000 To 2,500, Deduct	*-10.66*	
		For >2,500, Deduct	*-17.31*	

34 05 43 00-0234 Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck *(34 05 43 00-0225)*

Note: Includes steel profile and neoprene seal element. Demolition includes saw cutting and disposal of existing strip seal but excludes concrete removal.

34 05 43 00-0235	LF	1-1/4" x 3-3/4" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	206.09	
		For >1,000 To 2,500, Deduct	*-20.61*	
		For >2,500, Deduct	*-35.00*	
34 05 43 00-0236	LF	1-7/8" x 8" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	234.16	
		For >1,000 To 2,500, Deduct	*-23.42*	
		For >2,500, Deduct	*-39.38*	
34 05 43 00-0237	LF	1-1/4" x 2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	183.87	
		For >1,000 To 2,500, Deduct	*-18.39*	
		For >2,500, Deduct	*-31.51*	
34 05 43 00-0238	LF	1" x 1-1/2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	181.57	
		For >1,000 To 2,500, Deduct	*-18.16*	
		For >2,500, Deduct	*-31.16*	

34 05 43 00-0239 Silicone Joint Sealant For Concrete Bridge Deck *(34 05 43 00-0225)*

Note: Installation includes saw cutting, high pressure water wash, sand blast, sweeping, cleaning area, backer rod and silicone sealant.

34 05 43 00-0240	LF	1" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	29.93	
		For >1,000 To 2,500, Deduct	*-2.99*	
		For >2,500, Deduct	*-5.38*	
34 05 43 00-0241	LF	1-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	39.00	
		For >1,000 To 2,500, Deduct	*-3.90*	
		For >2,500, Deduct	*-6.76*	
34 05 43 00-0242	LF	2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	54.81	
		For >1,000 To 2,500, Deduct	*-5.48*	
		For >2,500, Deduct	*-9.15*	
34 05 43 00-0243	LF	2-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	58.67	
		For >1,000 To 2,500, Deduct	*-5.87*	
		For >2,500, Deduct	*-9.74*	

34 05 43 00-0244 V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck *(34 05 43 00-0225)*

Note: Includes saw cutting, sand blasting, conditioner, epoxy, and backer rod.

34 05 43 00-0245	LF	3" Remove And Replace V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck	98.75	
		For >1,000 To 2,500, Deduct	*-9.88*	
		For >2,500, Deduct	*-17.46*	
34 05 43 00-0246	LF	4" Remove And Replace V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck	104.29	
		For >1,000 To 2,500, Deduct	*-10.43*	
		For >2,500, Deduct	*-18.42*	

34 05 43 00-0247 J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck *(34 05 43 00-0225)*

Note: Includes saw cutting, sand blasting, conditioner, and epoxy.

34 05 43 00-0248	LF	2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	100.13	
		For >1,000 To 2,500, Deduct	*-10.01*	
		For >2,500, Deduct	*-17.44*	
34 05 43 00-0249	LF	2-1/2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	119.01	
		For >1,000 To 2,500, Deduct	*-11.90*	
		For >2,500, Deduct	*-20.38*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0250	LF	3" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	147.06	
		For >1,000 To 2,500, Deduct	*-14.71*	
		For >2,500, Deduct	*-24.71*	
34 05 43 00-0251	LF	3-1/2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	178.27	
		For >1,000 To 2,500, Deduct	*-17.83*	
		For >2,500, Deduct	*-29.52*	
34 05 43 00-0252	LF	4" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	199.01	
		For >1,000 To 2,500, Deduct	*-19.90*	
		For >2,500, Deduct	*-32.76*	
34 05 43 00-0253	LF	5" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	366.11	
		For >1,000 To 2,500, Deduct	*-36.61*	
		For >2,500, Deduct	*-58.10*	

34 05 43 00-0254 Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck *(34 05 43 00-0225)*

Note: Includes saw cutting, sand blasting, and lubricant adhesive.

34 05 43 00-0255	LF	1-1/4" x 1-1/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	53.15	
		For >1,000 To 2,500, Deduct	*-5.32*	
		For >2,500, Deduct	*-10.17*	
34 05 43 00-0256	LF	1-5/8" x 1-7/8" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	57.70	
		For >1,000 To 2,500, Deduct	*-5.77*	
		For >2,500, Deduct	*-10.96*	
34 05 43 00-0257	LF	1-3/4" x 1-3/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	60.40	
		For >1,000 To 2,500, Deduct	*-6.04*	
		For >2,500, Deduct	*-11.42*	
34 05 43 00-0258	LF	2" x 2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	63.66	
		For >1,000 To 2,500, Deduct	*-6.37*	
		For >2,500, Deduct	*-11.97*	
34 05 43 00-0259	LF	2-1/2" x 2-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	71.67	
		For >1,000 To 2,500, Deduct	*-7.17*	
		For >2,500, Deduct	*-13.28*	
34 05 43 00-0260	LF	3" x 3-1/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	82.01	
		For >1,000 To 2,500, Deduct	*-8.20*	
		For >2,500, Deduct	*-14.95*	
34 05 43 00-0261	LF	3-1/2" x 3-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	96.31	
		For >1,000 To 2,500, Deduct	*-9.63*	
		For >2,500, Deduct	*-17.22*	
34 05 43 00-0262	LF	4" x 4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	110.86	
		For >1,000 To 2,500, Deduct	*-11.09*	
		For >2,500, Deduct	*-19.54*	
34 05 43 00-0263	LF	4-1/2" x 4-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	116.96	
		For >1,000 To 2,500, Deduct	*-11.70*	
		For >2,500, Deduct	*-20.59*	
34 05 43 00-0264	LF	5" x 5" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	133.63	
		For >1,000 To 2,500, Deduct	*-13.36*	
		For >2,500, Deduct	*-23.23*	
34 05 43 00-0265	LF	6" x 6" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	190.20	
		For >1,000 To 2,500, Deduct	*-19.02*	
		For >2,500, Deduct	*-31.87*	

34 05 43 00-0266 Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck *(34 05 43 00-0225)*

Note: Includes saw cutting, sand blasting and epoxy.

34 05 43 00-0267	LF	1/2" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	46.34	
		For >1,000 To 2,500, Deduct	*-4.63*	
		For >2,500, Deduct	*-8.95*	
34 05 43 00-0268	LF	5/8" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	47.65	
		For >1,000 To 2,500, Deduct	*-4.77*	
		For >2,500, Deduct	*-9.20*	
34 05 43 00-0269	LF	3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	48.95	
		For >1,000 To 2,500, Deduct	*-4.90*	
		For >2,500, Deduct	*-9.44*	
34 05 43 00-0270	LF	1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	50.62	
		For >1,000 To 2,500, Deduct	*-5.06*	
		For >2,500, Deduct	*-9.74*	
34 05 43 00-0271	LF	1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	52.33	
		For >1,000 To 2,500, Deduct	*-5.23*	
		For >2,500, Deduct	*-10.05*	
34 05 43 00-0272	LF	1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	71.04	
		For >1,000 To 2,500, Deduct	*-7.10*	
		For >2,500, Deduct	*-12.91*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0273	LF	1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	75.58	
		For >1,000 To 2,500, Deduct	*-7.56*	
		For >2,500, Deduct	*-13.70*	
34 05 43 00-0274	LF	2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	78.38	
		For >1,000 To 2,500, Deduct	*-7.84*	
		For >2,500, Deduct	*-14.18*	
34 05 43 00-0275	LF	2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	82.68	
		For >1,000 To 2,500, Deduct	*-8.27*	
		For >2,500, Deduct	*-14.88*	
34 05 43 00-0276	LF	2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	87.53	
		For >1,000 To 2,500, Deduct	*-8.75*	
		For >2,500, Deduct	*-15.66*	
34 05 43 00-0277	LF	2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	92.61	
		For >1,000 To 2,500, Deduct	*-9.26*	
		For >2,500, Deduct	*-16.48*	
34 05 43 00-0278	LF	3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	95.32	
		For >1,000 To 2,500, Deduct	*-9.53*	
		For >2,500, Deduct	*-16.95*	
34 05 43 00-0279	LF	3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	103.85	
		For >1,000 To 2,500, Deduct	*-10.39*	
		For >2,500, Deduct	*-18.29*	
34 05 43 00-0280	LF	3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	110.96	
		For >1,000 To 2,500, Deduct	*-11.10*	
		For >2,500, Deduct	*-19.42*	
34 05 43 00-0281	LF	3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	117.08	
		For >1,000 To 2,500, Deduct	*-11.71*	
		For >2,500, Deduct	*-20.40*	
34 05 43 00-0282	LF	4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	119.92	
		For >1,000 To 2,500, Deduct	*-11.99*	
		For >2,500, Deduct	*-20.90*	
34 05 43 00-0283	EA	3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	154.89	
34 05 43 00-0284	EA	1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	159.69	
34 05 43 00-0285	EA	1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	182.58	
34 05 43 00-0286	EA	1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	190.18	
34 05 43 00-0287	EA	1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	196.89	
34 05 43 00-0288	EA	2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	223.26	
34 05 43 00-0289	EA	2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	229.24	
34 05 43 00-0290	EA	2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	236.16	
34 05 43 00-0291	EA	2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	243.48	
34 05 43 00-0292	EA	3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	277.40	
34 05 43 00-0293	EA	3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	290.64	
34 05 43 00-0294	EA	3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	301.44	
34 05 43 00-0295	EA	3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	310.57	
34 05 43 00-0296	EA	4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	314.98	

34 05 43 00-0297 Remove Existing Steel Joint System *(34 05 43 00-0225)*

34 05 43 00-0298	LF	Removal Of Existing Steel Joint System	71.86	

34 05 43 00-0299 Break-Up And Remove Bridge Decking By Machine *(34 05 43 00-0225)*

Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting, See CSI section 02 41 19 13-0057 for saw cutting.

34 05 43 00-0300	SY	Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine	23.35	
		For >500 To 1,000, Deduct	*-2.34*	
		For >1,000 To 2,500, Deduct	*-4.20*	
		For >2,500 To 5,000, Deduct	*-6.07*	
		For >5,000 To 10,000, Deduct	*-7.94*	
		For >10,000, Deduct	*-9.81*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0301	SY	Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine	31.88	
		For >500 To 1,000, Deduct	*-3.19*	
		For >1,000 To 2,500, Deduct	*-5.74*	
		For >2,500 To 5,000, Deduct	*-8.29*	
		For >5,000 To 10,000, Deduct	*-10.84*	
		For >10,000, Deduct	*-13.39*	
34 05 43 00-0302	SY	Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine	38.68	
		For >500 To 1,000, Deduct	*-3.87*	
		For >1,000 To 2,500, Deduct	*-6.96*	
		For >2,500 To 5,000, Deduct	*-10.06*	
		For >5,000 To 10,000, Deduct	*-13.15*	
		For >10,000, Deduct	*-16.25*	
34 05 43 00-0303	SY	Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine	49.72	
		For >500 To 1,000, Deduct	*-4.97*	
		For >1,000 To 2,500, Deduct	*-8.95*	
		For >2,500 To 5,000, Deduct	*-12.93*	
		For >5,000 To 10,000, Deduct	*-16.90*	
		For >10,000, Deduct	*-20.88*	
34 05 43 00-0304	SY	Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine	88.89	
		For >500 To 1,000, Deduct	*-8.89*	
		For >1,000 To 2,500, Deduct	*-16.00*	
		For >2,500 To 5,000, Deduct	*-23.11*	
		For >5,000 To 10,000, Deduct	*-30.22*	
		For >10,000, Deduct	*-37.33*	
34 05 43 00-0305	SY	Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine	116.02	
		For >500 To 1,000, Deduct	*-11.60*	
		For >1,000 To 2,500, Deduct	*-20.88*	
		For >2,500 To 5,000, Deduct	*-30.17*	
		For >5,000 To 10,000, Deduct	*-39.45*	
		For >10,000, Deduct	*-48.73*	
34 05 43 00-0306	SY	Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine	151.68	
		For >500 To 1,000, Deduct	*-15.17*	
		For >1,000 To 2,500, Deduct	*-27.30*	
		For >2,500 To 5,000, Deduct	*-39.44*	
		For >5,000 To 10,000, Deduct	*-51.57*	
		For >10,000, Deduct	*-63.71*	
34 05 43 00-0307	SY	Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine	184.08	
		For >500 To 1,000, Deduct	*-18.41*	
		For >1,000 To 2,500, Deduct	*-33.13*	
		For >2,500 To 5,000, Deduct	*-47.86*	
		For >5,000 To 10,000, Deduct	*-62.59*	
		For >10,000, Deduct	*-77.31*	

34 05 43 00-0308 Break-Up And Remove Bridge Decking By Hand *(34 05 43 00-0225)*

Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.

34 05 43 00-0309	SF	Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand Note: Includes jackhammer and hand tools.	14.92
34 05 43 00-0310	SF	Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand Note: Includes jackhammer and hand tools.	19.63
34 05 43 00-0311	SF	Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand Note: Includes jackhammer and hand tools.	25.52
34 05 43 00-0312	SF	Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand Note: Includes jackhammer and hand tools.	18.65
34 05 43 00-0313	SF	Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand Note: Includes jackhammer and hand tools.	23.31
34 05 43 00-0314	SF	Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand Note: Includes jackhammer and hand tools.	27.97
34 05 43 00-0315	SF	Chipping And Cleaning Of Bridge Deck After Break-up And Removals	6.33

34 05 43 00-0316 Galvanic Anodes For Bridges *(34 05 43)*

34 05 43 00-0317	EA	2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP) Note: Corrosion prevention only (preventing the initiation of corrosion).	61.65
34 05 43 00-0318	EA	4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT) Note: Corrosion prevention only (preventing the initiation of corrosion).	61.65
34 05 43 00-0319	EA	2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2) Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	70.46
34 05 43 00-0320	EA	4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4) Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	77.15
34 05 43 00-0321	EA	2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+) Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	70.46

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0322	EA	1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65) Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	72.69	
34 05 43 00-0323	EA	1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100) Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	88.30	
34 05 43 00-0324	EA	1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135) Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	81.61	

34 05 43 00-0325 Bridge Netting Panels *(34 05 43)*

34 05 43 00-0326	SF	Bridge Netting Panel Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.	10.52	
		For Up To 160, Add	*10.56*	
		For >160 To 320, Add	*5.28*	
		For >320 To 480, Add	*2.64*	
		For >2,000 To 10,000, Deduct	*-0.46*	
		For >10,000 To 25,000, Deduct	*-0.92*	
		For >25,000, Deduct	*-1.38*	

34 05 43 00-0327 Anchors For Bridges *(34 05 43)*

Note: Excludes core drilling. See CSI section 02 41 19 13-0080 for core drilling.

34 05 43 00-0328 Threaded Rod, A449 *(34 05 43 00-0327)*

34 05 43 00-0329	LF	7/8" Diameter Continuous Threaded Rod, A449	22.30	
34 05 43 00-0330	LF	1" Diameter Continuous Threaded Rod, A449	26.53	
34 05 43 00-0331	LF	1-1/8" Diameter Continuous Threaded Rod, A449	30.72	
34 05 43 00-0332	LF	1-1/4" Diameter Continuous Threaded Rod, A449	38.79	

34 05 43 00-0333 Flat Washers, F436 *(34 05 43 00-0327)*

34 05 43 00-0334	EA	7/8" Flat Washer, F436	2.43	
34 05 43 00-0335	EA	1" Flat Washer, F436	2.83	
34 05 43 00-0336	EA	1-1/8" Flat Washer, F436	3.11	
34 05 43 00-0337	EA	1-1/4" Flat Washer, F436	3.54	

34 05 43 00-0338 Heavy Hex Nut, A194 *(34 05 43 00-0327)*

34 05 43 00-0339	EA	7/8" Hex Nut, A194	4.89	
34 05 43 00-0340	EA	1" Hex Nut, A194	6.62	
34 05 43 00-0341	EA	1-1/8" Hex Nut, A194	7.85	
34 05 43 00-0342	EA	1-1/4" Hex Nut, A194	9.38	

34 05 43 00-0343 Grout For Threaded Rod *(34 05 43 00-0327)*

34 05 43 00-0344	IN	Grout 7/8" Rod In Hole	3.31	
34 05 43 00-0345	IN	Grout 1" Rod In Hole	3.77	
34 05 43 00-0346	IN	Grout 1-1/8" Rod In Hole	4.41	
34 05 43 00-0347	IN	Grout 1-1/4" Rod In Hole	5.28	

34 05 43 00-0348 Test Grouted Anchor *(34 05 43 00-0327)*

34 05 43 00-0349	EA	Test Grouted Anchor	37.55	

34 05 43 00-0350 Removal Of Fasteners Or Anchors In Concrete *(34 05 43 00-0327)*

Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.

34 05 43 00-0351	EA	Drill Out 3/8" Diameter Fastener/Anchor In Concrete	30.96	
34 05 43 00-0352	EA	Drill Out 1/2" Diameter Fastener/Anchor In Concrete	33.31	
34 05 43 00-0353	EA	Drill Out 9/16" Diameter Fastener/Anchor In Concrete	34.92	
34 05 43 00-0354	EA	Drill Out 5/8" Diameter Fastener/Anchor In Concrete	38.00	
34 05 43 00-0355	EA	Drill Out 3/4" Diameter Fastener/Anchor In Concrete	41.56	
34 05 43 00-0356	EA	Drill Out 7/8" Diameter Fastener/Anchor In Concrete	46.00	
34 05 43 00-0357	EA	Drill Out 1" Diameter Fastener/Anchor In Concrete	48.65	
34 05 43 00-0358	EA	Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete	51.79	
34 05 43 00-0359	EA	Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete	55.72	
34 05 43 00-0360	EA	Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete	62.52	

34 05 43 00-0361 Bridge Surfacing *(34 05 43)*

34 05 43 00-0362 Bridge Coatings *(34 05 43 00-0361)*

Note: Includes sweeping of bridge deck.

34 05 43 00-0363	SF	Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats) Note: Includes power washing and drying after power washing.	1.29	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0364	SF	Protective Seal Coat For Existing Bridge Decks	2.36	
34 05 43 00-0365	SF	Penetrating Sealer For Existing Bridge Decks	3.89	
34 05 43 00-0366		**Bridge Membranes** *(34 05 43 00-0361)*		
		Note: Excludes abrasive blasting of deck.		
34 05 43 00-0367	SF	Spray Applied Waterproofing Membrane For Bridge Decks	14.86	
34 05 43 00-0368	SF	Sheet Applied Waterproofing Membrane For Bridge Decks	4.30	
34 05 43 00-0369		**Sealer And Overlay For Bridge Deck** *(34 05 43 00-0361)*		
		Note: Excludes sweeping, cleaning and abrasive blasting.		
34 05 43 00-0370	SY	Shot Blasting Bridge Decks	15.86	
		Note: Includes steel ball media. Includes air cleaning of deck surface after shot blasting.		
34 05 43 00-0371	SY	Thin Polymer (Epoxy) Overlay For Bridge Deck	99.15	
		Note: Includes epoxy overlay applied in two coats with aggregate.		
34 05 43 00-0372	SY	3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	179.98	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0373	SY	1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	205.46	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0374	SY	1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	262.65	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0375	SY	2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	319.82	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0376	SY	2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	376.99	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0377	SY	3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	434.18	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0378		**Broadcast Silica Sand** *(34 05 43 00-0361)*		
		Note: Includes removing loose sand.		
34 05 43 00-0379	SF	Broadcast Silica Sand	0.33	
34 05 43 00-0380		**Sweeping And Cleaning Of Bridge Deck** *(34 05 43 00-0361)*		
		See CSI section 01 22 23 00-1731 for water trucks, 01 22 23 00-1758 for vacuum sweeper trucks.		
34 05 43 00-0381		**Concrete Overlay For Bridge Deck** *(34 05 43 00-0361)*		
		Note: Includes sweeping and cleaning. Excludes abrasive blasting.		
34 05 43 00-0382	SY	3" Concrete Overlay For Bridge Deck	194.41	
		For DOT Class DP, Add	*35.06*	
		For DOT Class E, Add	*11.44*	
		For DOT Class HP, Add	*33.47*	
34 05 43 00-0383		**Bridge Roadway Grooving** *(34 05 43 00-0361)*		
34 05 43 00-0384	EA	Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	4,564.17	
34 05 43 00-0385	SY	Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	7.39	
34 05 43 00-0386	EA	Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	5,084.65	
34 05 43 00-0387	SY	Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	9.63	
34 05 43 00-0388		**Gravity Fed Concrete Crack Repair** *(34 05 43 00-0361)*		
		Note: Includes removing loose materials and cleaning.		
34 05 43 00-0389	LF	Epoxy Low Viscosity Gravity Fed Concrete Crack Repair	3.95	
34 05 43 00-0390	LF	HMWM Low Viscosity Gravity Fed Concrete Crack Repair	4.62	
34 05 43 00-0391		**Concrete Pumping With Boom Truck** *(34 05 43 00-0361)*		
		See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 37 16 00-0001 for concrete pump truck.		
34 05 43 00-0392		**Bridge Girder Repair** *(34 05 43)*		
34 05 43 00-0393		**Bridge Girder Repair** *(34 05 43 00-0392)*		
		Note: Excludes mobilization of bridge jacking crew. See CSI section 05 05 23 00-0033 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.		
34 05 43 00-0394	HR	UT, MT, PT Testing	75.00	
		Note: Excludes mileage to job site.		
34 05 43 00-0395	EA	Mobilization of Bridge Girder Repair Crew	2,780.13	
34 05 43 00-0396	LF	3" x 3" x 1/4" Angle Iron For Bridge Repair	15.65	6.29
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*23.23*	
		For Aluminum, Add	*1.31*	
		For Galvanized Steel, Add	*4.50*	
34 05 43 00-0397	LF	4" x 4" x 1/4" Angle Iron For Bridge Repair	20.04	7.67
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*31.39*	
		For Aluminum, Add	*1.77*	
		For Galvanized Steel, Add	*6.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0398	LF	3" x 3" x 3/8" Angle Iron For Bridge Repair	20.10	7.08
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*34.14*	
		For Aluminum, Add	*1.92*	
		For Galvanized Steel, Add	*6.62*	
34 05 43 00-0399	LF	4" x 4" x 3/8" Angle Iron For Bridge Repair	25.99	8.60
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*46.50*	
		For Aluminum, Add	*2.62*	
		For Galvanized Steel, Add	*9.01*	
34 05 43 00-0400	LF	6" x 4" x 3/8" Angle Iron For Bridge Repair	33.24	11.23
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*58.50*	
		For Aluminum, Add	*3.29*	
		For Galvanized Steel, Add	*11.33*	
34 05 43 00-0401	LF	6" x 6" x 3/8" Angle Iron For Bridge Repair	37.10	11.23
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*70.85*	
		For Aluminum, Add	*3.99*	
		For Galvanized Steel, Add	*13.73*	
34 05 43 00-0402	LF	6" x 6" x 1/2" Angle Iron For Bridge Repair	49.21	15.07
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*93.18*	
		For Aluminum, Add	*5.24*	
		For Galvanized Steel, Add	*18.05*	
34 05 43 00-0403	LF	7" x 4" x 5/8" Angle Iron For Bridge Repair	54.01	15.88
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*105.09*	
		For Aluminum, Add	*5.91*	
		For Galvanized Steel, Add	*20.36*	
34 05 43 00-0404	LF	5" x 3-1/2" x 3/4" Angle Iron For Bridge Repair	47.21	13.34
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*94.14*	
		For Aluminum, Add	*5.30*	
		For Galvanized Steel, Add	*18.24*	
34 05 43 00-0405	LF	6" x 4" x 3/4" Angle Iron For Bridge Repair	56.27	15.90
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*112.22*	
		For Aluminum, Add	*6.31*	
		For Galvanized Steel, Add	*21.74*	
34 05 43 00-0406	LF	7" x 4" x 3/4" Angle Iron For Bridge Repair	62.47	17.65
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*124.58*	
		For Aluminum, Add	*7.01*	
		For Galvanized Steel, Add	*24.14*	
34 05 43 00-0407	LF	8" x 6" x 7/8" Angle Iron For Bridge Repair	90.89	24.58
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*185.95*	
		For Aluminum, Add	*10.46*	
		For Galvanized Steel, Add	*36.03*	
34 05 43 00-0408	LF	C4 x 5.4 - 4" Wide Channels For Bridge Repair	18.80	8.08
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*25.66*	
		For Aluminum, Add	*1.44*	
		For Galvanized Steel, Add	*4.97*	
34 05 43 00-0409	LF	C6 x 8.2 - 6" Wide Channels For Bridge Repair	27.27	11.32
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*38.98*	
		For Aluminum, Add	*2.19*	
		For Galvanized Steel, Add	*7.55*	
34 05 43 00-0410	LF	C8 x 11.5 - 8" Wide Channels For Bridge Repair	36.85	14.82
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*54.69*	
		For Aluminum, Add	*3.08*	
		For Galvanized Steel, Add	*10.60*	
34 05 43 00-0411	LF	C10 x 15.3 - 10" Wide Channels For Bridge Repair	49.02	19.71
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*72.74*	
		For Aluminum, Add	*4.09*	
		For Galvanized Steel, Add	*14.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0412	LF	C12 x 20.7 - 12" Wide Channels For Bridge Repair	66.33	26.68
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*98.43*	
		For Aluminum, Add	*5.54*	
		For Galvanized Steel, Add	*19.07*	
34 05 43 00-0413	LF	C15 x 33.9 - 15" Wide Channels For Bridge Repair	108.62	43.69
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
		For Fractured Critical, Add	*20.00*	
		For Stainless Steel, Add	*161.18*	
		For Aluminum, Add	*9.07*	
		For Galvanized Steel, Add	*31.23*	
34 05 43 00-0414	SF	1/2" A36 Steel Plates For Bridge Repair	65.23	17.20
		For A50 Grade Steel, Add	*2.36*	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	*30.00*	
		For Fractured Critical, Add	*20.00*	
34 05 43 00-0415	SF	5/8" A36 Steel Plates For Bridge Repair	81.53	21.49
		For A50 Grade Steel, Add	*2.95*	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	*30.00*	
		For Fractured Critical, Add	*20.00*	
34 05 43 00-0416	SF	3/4" A36 Steel Plates For Bridge Repair	97.84	25.66
		For A50 Grade Steel, Add	*3.54*	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	*30.00*	
		For Fractured Critical, Add	*20.00*	
34 05 43 00-0417	SF	7/8" A36 Steel Plates For Bridge Repair	114.15	30.08
		For A50 Grade Steel, Add	*4.12*	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	*30.00*	
		For Fractured Critical, Add	*20.00*	
34 05 43 00-0418	SF	1" A36 Steel Plates For Bridge Repair	130.45	34.38
		For A50 Grade Steel, Add	*4.71*	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	*30.00*	
		For Fractured Critical, Add	*20.00*	
34 05 43 00-0419	SF	1-1/4" A36 Steel Plates For Bridge Repair	163.07	42.98
		For A50 Grade Steel, Add	*5.89*	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	*30.00*	
		For Fractured Critical, Add	*20.00*	
34 05 43 00-0420	SF	1-3/8" A36 Steel Plates For Bridge Repair	179.37	47.28
		For A50 Grade Steel, Add	*6.48*	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	*30.00*	
		For Fractured Critical, Add	*20.00*	
34 05 43 00-0421	SF	1-1/2" A36 Steel Plates For Bridge Repair	195.68	51.58
		For A50 Grade Steel, Add	*7.07*	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	*30.00*	
		For Fractured Critical, Add	*20.00*	
34 05 43 00-0422	CWT	Removal Of Existing Steel For Bridge Repair A36 Note: For use with angles, channels and steel plates up to 5' x 5'.	74.44	
		For Removal Over 30' To 50', Add	*14.89*	
		For Removal Over 50' To 75', Add	*26.05*	
		For Removal Over 75', Add	*37.22*	
34 05 43 00-0423	TON	Removal Of Existing Steel For Bridge Repair A36 Note: For use with I-beams, floor beams and plates over 5' x 5'.	992.54	
		For Removal Over 30' To 50', Add	*198.51*	
		For Removal Over 50' To 75', Add	*347.39*	
		For Removal Over 75', Add	*496.27*	
34 05 43 00-0424	CWT	Miscellaneous Steel For Bridge Repair A36 Note: For use with angles, channels and steel plates up to 5' x 5'.	498.42	
		For A50 Grade Steel, Add	*84.80*	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	*30.00*	
		Cutting Fee For Channels And Angles, Add Per Each Piece	*20.00*	
34 05 43 00-0425	TON	Miscellaneous Steel For Bridge Repair A36 Note: For use with I-beams, floor beams and plates over 5' x 5'.	7,951.83	
		For A50 Grade Steel, Add	*1,391.86*	
		Cutting Fee For I-beams, Floor Beams And Plates Over 5' x 5', Add Per Each Piece	*30.00*	
34 05 43 00-0426	EA	Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter Note: Per each hole drilled per steel member.	42.50	
34 05 43 00-0427	EA	Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter Note: Per each hole drilled per steel member.	55.25	
34 05 43 00-0428	EA	Bolts A325 For Steel Repair Connections Up To 7/8"	34.29	2.40
34 05 43 00-0429	EA	Bridge Girder Rivet Removal	371.30	
34 05 43 00-0430	LF	Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting Note: Includes rust or scale removal.	7.96	
34 05 43 00-0431	LF	>1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting Note: Includes rust or scale removal.	13.95	
34 05 43 00-0432	LF	>1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting Note: Includes rust or scale removal.	19.93	
34 05 43 00-0433	LF	>1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting Note: Includes rust or scale removal.	25.92	
34 05 43 00-0434	LF	>2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting Note: Includes rust or scale removal.	31.91	
34 05 43 00-0435	LF	>2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting Note: Includes rust or scale removal.	37.90	

34 05 43 00-0436 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces *(34 05 43 00-0392)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0437	SF	Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.23	
		For Up To 100, Add	*0.76*	
		For >100 To 250, Add	*0.35*	
		For >250 To 500, Add	*0.15*	
		For >5,000 To 10,000, Deduct	*-0.06*	
		For >10,000 To 15,000, Deduct	*-0.11*	
		For >15,000 To 30,000, Deduct	*-0.18*	
		For >30,000, Deduct	*-0.24*	
34 05 43 00-0438	SF	Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.69	
		For Up To 100, Add	*1.02*	
		For >100 To 250, Add	*0.48*	
		For >250 To 500, Add	*0.20*	
		For >5,000 To 10,000, Deduct	*-0.08*	
		For >10,000 To 15,000, Deduct	*-0.16*	
		For >15,000 To 30,000, Deduct	*-0.24*	
		For >30,000, Deduct	*-0.32*	
34 05 43 00-0439	SF	Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	2.48	
		For Up To 100, Add	*1.53*	
		For >100 To 250, Add	*0.71*	
		For >250 To 500, Add	*0.31*	
		For >5,000 To 10,000, Deduct	*-0.12*	
		For >10,000 To 15,000, Deduct	*-0.23*	
		For >15,000 To 30,000, Deduct	*-0.36*	
		For >30,000, Deduct	*-0.47*	
34 05 43 00-0440	SF	Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair	4.13	
		For Up To 100, Add	*2.54*	
		For >100 To 250, Add	*1.19*	
		For >250 To 500, Add	*0.51*	
		For >5,000 To 10,000, Deduct	*-0.19*	
		For >10,000 To 15,000, Deduct	*-0.38*	
		For >15,000 To 30,000, Deduct	*-0.60*	
		For >30,000, Deduct	*-0.79*	
34 05 43 00-0441	SF	Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.14	
		For Up To 100, Add	*1.91*	
		For >100 To 250, Add	*0.89*	
		For >250 To 500, Add	*0.38*	
		For >5,000 To 10,000, Deduct	*-0.15*	
		For >10,000 To 15,000, Deduct	*-0.29*	
		For >15,000 To 30,000, Deduct	*-0.45*	
		For >30,000, Deduct	*-0.60*	
34 05 43 00-0442	SF	Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.90	
		For Up To 100, Add	*2.35*	
		For >100 To 250, Add	*1.10*	
		For >250 To 500, Add	*0.47*	
		For >5,000 To 10,000, Deduct	*-0.18*	
		For >10,000 To 15,000, Deduct	*-0.36*	
		For >15,000 To 30,000, Deduct	*-0.56*	
		For >30,000, Deduct	*-0.74*	
34 05 43 00-0443	SF	Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	5.04	
		For Up To 100, Add	*3.05*	
		For >100 To 250, Add	*1.42*	
		For >250 To 500, Add	*0.61*	
		For >5,000 To 10,000, Deduct	*-0.23*	
		For >10,000 To 15,000, Deduct	*-0.46*	
		For >15,000 To 30,000, Deduct	*-0.73*	
		For >30,000, Deduct	*-0.96*	
34 05 43 00-0444	SF	Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair	6.31	
		For Up To 100, Add	*3.81*	
		For >100 To 250, Add	*1.78*	
		For >250 To 500, Add	*0.76*	
		For >5,000 To 10,000, Deduct	*-0.29*	
		For >10,000 To 15,000, Deduct	*-0.58*	
		For >15,000 To 30,000, Deduct	*-0.91*	
		For >30,000, Deduct	*-1.20*	

34 05 43 00-0445 Galvanized Anchor Bolts For Bridge Bearings *(34 05 43 00-0392)*

34 05 43 00-0446	EA	1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	17.93
34 05 43 00-0447	EA	1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings	29.07
34 05 43 00-0448	EA	1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	36.82
34 05 43 00-0449	EA	5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	44.47
34 05 43 00-0450	EA	5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	56.47
34 05 43 00-0451	EA	5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	63.99
34 05 43 00-0452	EA	3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	63.63
34 05 43 00-0453	EA	3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	73.39
34 05 43 00-0454	EA	3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	91.55
34 05 43 00-0455	EA	3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	112.89
34 05 43 00-0456	EA	7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	85.33
34 05 43 00-0457	EA	7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	101.20
34 05 43 00-0458	EA	7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	131.51
34 05 43 00-0459	EA	1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	107.69
34 05 43 00-0460	EA	1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	128.84
34 05 43 00-0461	EA	1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	160.26
34 05 43 00-0462	EA	1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	196.61
34 05 43 00-0463	EA	1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	131.53

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0464	EA	1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	157.47	
34 05 43 00-0465	EA	1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	196.03	
34 05 43 00-0466	EA	1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	240.35	
34 05 43 00-0467	EA	1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	161.22	
34 05 43 00-0468	EA	1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	193.17	
34 05 43 00-0469	EA	1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	240.64	
34 05 43 00-0470	EA	1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	294.85	
34 05 43 00-0471	EA	1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	198.37	
34 05 43 00-0472	EA	1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	237.74	
34 05 43 00-0473	EA	1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	296.40	
34 05 43 00-0474	EA	1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	363.04	

34 05 43 00-0475 Welding For Bridge Repair *(34 05 43 00-0392)*

34 05 43 00-0476	EA	Minimum Charge For Welding For Bridge Repair Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.	2,607.08	
34 05 43 00-0477	LF	3/16" Fillet Welding For Bridge Repair	17.71	
		For Full Penetration Weld, Add	*6.54*	
34 05 43 00-0478	LF	1/4" Fillet Welding For Bridge Repair	26.62	
		For Full Penetration Weld, Add	*9.81*	
34 05 43 00-0479	LF	5/16" Fillet Welding For Bridge Repair	35.51	
		For Full Penetration Weld, Add	*13.08*	
34 05 43 00-0480	LF	3/8" Fillet Welding For Bridge Repair	44.33	
		For Full Penetration Weld, Add	*16.34*	
34 05 43 00-0481	LF	7/16" Fillet Welding For Bridge Repair	51.78	
		For Full Penetration Weld, Add	*19.61*	
34 05 43 00-0482	LF	1/2" Fillet Welding For Bridge Repair	61.60	
		For Full Penetration Weld, Add	*22.70*	
34 05 43 00-0483	LF	9/16" Fillet Welding For Bridge Repair	71.21	
		For Full Penetration Weld, Add	*26.75*	
34 05 43 00-0484	LF	5/8" Fillet Welding For Bridge Repair	78.69	
		For Full Penetration Weld, Add	*29.42*	
34 05 43 00-0485	LF	3/4" Fillet Welding For Bridge Repair	109.35	
		For Full Penetration Weld, Add	*40.21*	
34 05 43 00-0486	LF	7/8" Fillet Welding For Bridge Repair	143.09	
		For Full Penetration Weld, Add	*53.30*	
34 05 43 00-0487	LF	1" Fillet Welding For Bridge Repair	200.37	
		For Full Penetration Weld, Add	*73.55*	

34 05 43 00-0488 Bridge Trough Repair *(34 05 43)*

34 05 43 00-0489	EA	New Bridge Trough Hanger	326.86	29.94
34 05 43 00-0490	EA	Reattach By Welding Existing Bridge Trough Hanger, Top And/or Bottom	80.85	
34 05 43 00-0491	EA	Removal And Replacement Of All Thread For Existing Bridge Trough Hanger	140.21	
34 05 43 00-0492	EA	Removal And Replacement Of Steel Angle Attachment For Existing Bridge Trough Hanger	77.92	

34 05 43 00-0493 Spot Paint Removal And Painting, Bridge Structural Steel *(34 05 43)*

34 05 43 00-0494	HR	Testing For Lead And Asbestos Paint Removal By Asbestos Contractor	130.82	
34 05 43 00-0495	EA	Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal	220.94	
34 05 43 00-0496	SF	>4 SF, Flat Surfaces, Non-Contaminated Paint Removal	55.24	
34 05 43 00-0497	EA	Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal Note: Includes high efficiency particulate air (HEPA) vacuuming.	291.64	
34 05 43 00-0498	SF	>4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal Note: Includes high efficiency particulate air (HEPA) vacuuming.	72.91	
34 05 43 00-0499	CF	Treat and Dispose of Removed Paint Waste	6.62	
34 05 43 00-0500	SF	Flat Surfaces Spot Painting Note: Includes 1 coat epoxy rust inhibiting primer and 2 coats epoxy paint finish.	58.45	
34 05 43 00-0501	EA	Minimum Charge For Plastic Barrier Enclosure for Paint Removal Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.	1,374.13	
34 05 43 00-0502	SF	Plastic Barrier Enclosure For Paint Removal Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.	4.29	

34 05 43 00-0503 End Beam Cleaning And Painting For Bridges *(34 05 43)*

34 05 43 00-0504	SF	End Beam Cleaning and Painting Note: Includes high-pressure wash at minimum 3,003 to 5,000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC – SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.	4.31	
		For Up To 100, Add	*4.31*	
		For >100 To 500, Add	*2.84*	
		For >500 To 3,000, Add	*1.42*	
		For >5,000 To 7,500, Deduct	*-0.69*	
		For >7,500 To 10,000, Deduct	*-1.04*	
		For >10,000, Deduct	*-1.48*	

34 05 43 00-0505 Pedestrian Fences For Bridges *(34 05 43)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0506		**Pedestrian Fence Assembly For Bridges** *(34 05 43 00-0505)*		
		Note: Includes 1", 11 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' on-center. Posts exclude installation onto bridge. Heights indicated are for mesh to top.		
34 05 43 00-0507		**Galvanized Pedestrian Fence Assembly For Bridges** *(34 05 43 00-0506)*		
34 05 43 00-0508	LF	4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	60.27	14.15
		For Posts 8' On Centers, Add	*3.29*	
		For Posts 5' On Centers, Add	*12.36*	
		For Up To 100, Add	*11.37*	
		For >100 To 250, Add	*4.18*	
34 05 43 00-0509	LF	>4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	65.61	14.85
		For Posts 8' On Centers, Add	*3.57*	
		For Posts 5' On Centers, Add	*13.40*	
		For Up To 100, Add	*12.29*	
		For >100 To 250, Add	*4.50*	
34 05 43 00-0510	LF	>5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	70.99	15.57
		For Posts 8' On Centers, Add	*3.86*	
		For Posts 5' On Centers, Add	*14.44*	
		For Up To 100, Add	*13.21*	
		For >100 To 250, Add	*4.83*	
34 05 43 00-0511	LF	>6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	74.50	16.27
		For Posts 8' On Centers, Add	*4.05*	
		For Posts 5' On Centers, Add	*15.15*	
		For Up To 100, Add	*13.86*	
		For >100 To 250, Add	*5.07*	
34 05 43 00-0512	LF	>7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	84.70	17.69
		For Posts 8' On Centers, Add	*4.58*	
		For Posts 5' On Centers, Add	*17.14*	
		For Up To 100, Add	*15.62*	
		For >100 To 250, Add	*5.69*	
34 05 43 00-0513		**Vinyl Coated Pedestrian Fence Assembly For Bridges** *(34 05 43 00-0506)*		
34 05 43 00-0514	LF	4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	63.27	14.15
		For Powder Coated, Add	*7.99*	
		For Aluminum Coated, Add	*15.98*	
		For Posts 8' On Centers, Add	*3.44*	
		For Posts 5' On Centers, Add	*12.90*	
		For Up To 100, Add	*11.82*	
		For >100 To 250, Add	*4.33*	
34 05 43 00-0515	LF	>4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	69.40	14.85
		For Powder Coated, Add	*8.98*	
		For Aluminum Coated, Add	*17.97*	
		For Posts 8' On Centers, Add	*3.76*	
		For Posts 5' On Centers, Add	*14.08*	
		For Up To 100, Add	*12.86*	
		For >100 To 250, Add	*4.69*	
34 05 43 00-0516	LF	>5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	78.68	15.57
		For Powder Coated, Add	*10.61*	
		For Aluminum Coated, Add	*21.22*	
		For Posts 8' On Centers, Add	*4.24*	
		For Posts 5' On Centers, Add	*15.83*	
		For Up To 100, Add	*14.37*	
		For >100 To 250, Add	*5.22*	
34 05 43 00-0517	LF	>6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	83.45	16.27
		For Powder Coated, Add	*11.33*	
		For Aluminum Coated, Add	*22.66*	
		For Posts 8' On Centers, Add	*4.49*	
		For Posts 5' On Centers, Add	*16.76*	
		For Up To 100, Add	*15.20*	
		For >100 To 250, Add	*5.51*	
34 05 43 00-0518	LF	>7' To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	95.13	17.69
		For Powder Coated, Add	*13.20*	
		For Aluminum Coated, Add	*26.40*	
		For Posts 8' On Centers, Add	*5.11*	
		For Posts 5' On Centers, Add	*19.02*	
		For Up To 100, Add	*17.18*	
		For >100 To 250, Add	*6.21*	
34 05 43 00-0519		**Bridge Connection Mounting For Pedestrian Fence Assembly** *(34 05 43 00-0506)*		
34 05 43 00-0520	EA	Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts Note: Includes drilling into steel post.	68.83	
34 05 43 00-0521	EA	Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint	36.53	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0522	EA	Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint	99.99	
34 05 43 00-0523	EA	Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts Note: Includes drilling into steel post.	114.78	
34 05 43 00-0524	EA	Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts Note: Includes drilling into steel post.	153.61	
34 05 43 00-0525		**Bridge Drainage Pipe** *(34 05 43)* Note: Concrete gray.		
34 05 43 00-0526		**FRP Bridge Drain Pipe** *(34 05 43 00-0525)*		
34 05 43 00-0527	LF	6" IPS FRP Bridge Drain Piping	173.01	20.24
34 05 43 00-0528	LF	8" IPS FRP Bridge Drain Piping	219.33	25.27
34 05 43 00-0529	LF	10" IPS FRP Bridge Drain Piping	282.18	30.30
34 05 43 00-0530	LF	12" IPS FRP Bridge Drain Piping	351.90	35.33
34 05 43 00-0531		**FRP Bridge Drain Tee Saddles** *(34 05 43 00-0525)*		
34 05 43 00-0532	EA	6" x 6" FRP Bridge Drain Tee Saddle	1,465.66	302.76
34 05 43 00-0533	EA	8" x 8" FRP Bridge Drain Tee Saddle	1,860.43	378.45
34 05 43 00-0534	EA	10" x 10" FRP Bridge Drain Tee Saddle	2,726.51	454.14
34 05 43 00-0535	EA	12" x 12" FRP Bridge Drain Tee Saddle	3,293.72	529.84
34 05 43 00-0536	EA	8" x 6" FRP Bridge Drain Tee Saddle	1,730.29	340.61
34 05 43 00-0537	EA	10" x 6" FRP Bridge Drain Tee Saddle	2,472.36	378.45
34 05 43 00-0538	EA	10" x 8" FRP Bridge Drain Tee Saddle	2,599.46	416.29
34 05 43 00-0539	EA	12" x 6" FRP Bridge Drain Tee Saddle	2,932.87	416.29
34 05 43 00-0540	EA	12" x 8" FRP Bridge Drain Tee Saddle	3,038.56	454.14
34 05 43 00-0541	EA	12" x 10" FRP Bridge Drain Tee Saddle	3,170.52	491.99
34 05 43 00-0542		**FRP Bridge Drain 45 Degree Lateral Saddles** *(34 05 43 00-0525)*		
34 05 43 00-0543	EA	6" x 6" FRP Bridge Drain 45 Degree Lateral Saddle	1,565.71	302.76
34 05 43 00-0544	EA	8" x 8" FRP Bridge Drain 45 Degree Lateral Saddle	1,976.49	378.45
34 05 43 00-0545	EA	10" x 10" FRP Bridge Drain 45 Degree Lateral Saddle	2,945.91	454.14
34 05 43 00-0546	EA	12" x 12" FRP Bridge Drain 45 Degree Lateral Saddle	3,725.21	529.84
34 05 43 00-0547	EA	8" x 6" FRP Bridge Drain 45 Degree Lateral Saddle	1,846.99	340.61
34 05 43 00-0548	EA	10" x 6" FRP Bridge Drain 45 Degree Lateral Saddle	2,698.15	378.45
34 05 43 00-0549	EA	10" x 8" FRP Bridge Drain 45 Degree Lateral Saddle	2,821.99	416.29
34 05 43 00-0550	EA	12" x 6" FRP Bridge Drain 45 Degree Lateral Saddle	3,362.94	416.29
34 05 43 00-0551	EA	12" x 8" FRP Bridge Drain 45 Degree Lateral Saddle	3,486.86	454.14
34 05 43 00-0552		**FRP Bridge Drain Couplings** *(34 05 43 00-0525)*		
34 05 43 00-0553	EA	6" FRP Bridge Drain Coupling	668.57	161.44
34 05 43 00-0554	EA	8" FRP Bridge Drain Coupling	863.70	201.80
34 05 43 00-0555	EA	10" FRP Bridge Drain Coupling	1,043.88	242.17
34 05 43 00-0556	EA	12" FRP Bridge Drain Coupling	1,477.45	282.64
34 05 43 00-0557		**FRP Bridge Drain Flanges** *(34 05 43 00-0525)*		
34 05 43 00-0558	EA	6" FRP Bridge Drain Flange	812.84	80.72
34 05 43 00-0559	EA	6", 8 Hole FRP Bridge Drain Flange	955.59	100.96
34 05 43 00-0560	EA	8" FRP Bridge Drain Flange	1,001.76	100.96
34 05 43 00-0561	EA	8", 8 Hole FRP Bridge Drain Flange	1,159.73	126.11
34 05 43 00-0562	EA	10" FRP Bridge Drain Flange	1,350.82	121.08
34 05 43 00-0563	EA	10", 12 Hole FRP Bridge Drain Flange	1,559.08	151.38
34 05 43 00-0564		**FRP Bridge Drain Socket Cleanouts With Plug** *(34 05 43 00-0525)*		
34 05 43 00-0565	EA	6" x 4" FRP Bridge Drain Socket Cleanout With 4" Plug	655.33	100.96
34 05 43 00-0566	EA	8" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug	877.51	126.11
34 05 43 00-0567	EA	10" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug	1,011.89	151.38
34 05 43 00-0568	EA	12" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug	1,300.88	176.66
34 05 43 00-0569		**FRP Bridge Drain Concentric Reducers** *(34 05 43 00-0525)*		
34 05 43 00-0570	EA	8" x 6" FRP Bridge Drain Concentric Reducer	1,128.42	126.11
34 05 43 00-0571	EA	10" x 6" FRP Bridge Drain Concentric Reducer	1,084.50	143.84
34 05 43 00-0572	EA	10" x 8" FRP Bridge Drain Concentric Reducer	1,068.66	151.38
34 05 43 00-0573	EA	12" x 6" FRP Bridge Drain Concentric Reducer	1,285.98	158.93
34 05 43 00-0574	EA	12" x 8" FRP Bridge Drain Concentric Reducer	1,292.37	167.79
34 05 43 00-0575	EA	12" x 10" FRP Bridge Drain Concentric Reducer	1,370.01	176.66
34 05 43 00-0576	EA	14" x 8" FRP Bridge Drain Concentric Reducer	2,140.57	185.39
34 05 43 00-0577	EA	14" x 10" FRP Bridge Drain Concentric Reducer	2,168.61	194.74
34 05 43 00-0578	EA	14" x 12" FRP Bridge Drain Concentric Reducer	2,198.06	204.43
34 05 43 00-0579	EA	16" x 12" FRP Bridge Drain Concentric Reducer	2,604.06	214.73
34 05 43 00-0580	EA	18" x 12" FRP Bridge Drain Concentric Reducer	2,957.49	225.39

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0581		**FRP Bridge Drain 90 Degree Socket Elbows** *(34 05 43 00-0525)*		
34 05 43 00-0582	EA	6" FRP Bridge Drain 90 Degree Socket Elbow	1,486.86	201.80
34 05 43 00-0583	EA	8" FRP Bridge Drain 90 Degree Socket Elbow	1,746.33	252.34
34 05 43 00-0584	EA	10" FRP Bridge Drain 90 Degree Socket Elbow	2,734.13	302.76
34 05 43 00-0585	EA	12" FRP Bridge Drain 90 Degree Socket Elbow	3,732.12	353.18
34 05 43 00-0586		**FRP Bridge Drain 45 Degree Socket Elbows** *(34 05 43 00-0525)*		
34 05 43 00-0587	EA	6" FRP Bridge Drain 45 Degree Socket Elbow	1,141.15	201.80
34 05 43 00-0588	EA	8" FRP Bridge Drain 45 Degree Socket Elbow	1,502.46	252.34
34 05 43 00-0589	EA	10" FRP Bridge Drain 45 Degree Socket Elbow	2,038.80	302.76
34 05 43 00-0590	EA	12" FRP Bridge Drain 45 Degree Socket Elbow	2,663.20	353.18
34 05 43 00-0591		**FRP Bridge Drain 22-1/2 Degree Socket Elbows** *(34 05 43 00-0525)*		
34 05 43 00-0592	EA	6" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,008.79	201.80
34 05 43 00-0593	EA	8" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,310.49	252.34
34 05 43 00-0594	EA	10" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,673.34	302.76
34 05 43 00-0595	EA	12" FRP Bridge Drain 22-1/2 Degree Socket Elbow	3,117.21	353.18
34 05 43 00-0596		**FRP Bridge Drain Debris Covers** *(34 05 43 00-0525)*		
34 05 43 00-0597	EA	8" x 6" FRP Bridge Drain Debris Cover	894.58	105.16
34 05 43 00-0598	EA	10" x 6" FRP Bridge Drain Debris Cover	920.16	110.42
34 05 43 00-0599	EA	10" x 8" FRP Bridge Drain Debris Cover	954.38	121.68
34 05 43 00-0600	EA	12" x 10" FRP Bridge Drain Debris Cover	1,001.48	134.13
34 05 43 00-0601	EA	12" x 6" FRP Bridge Drain Debris Cover	936.86	115.93
34 05 43 00-0602	EA	12" x 8" FRP Bridge Drain Debris Cover	982.17	127.79
34 05 43 00-0603	EA	14" x 10" FRP Bridge Drain Debris Cover	1,053.10	140.85
34 05 43 00-0604	EA	14" x 12" FRP Bridge Drain Debris Cover	1,074.39	147.90
34 05 43 00-0605	EA	16" x 12" FRP Bridge Drain Debris Cover	1,147.26	155.33

34 40 Transportation Signaling and Control Equipment *(34)*

34 41 Roadway Signaling and Control Equipment *(34 40)*

34 41 13 Traffic Signals *(34 41)*

34 41 13 00-0001		**Traffic Signals** *(34 41 13)*		
34 41 13 00-0002	EA	Single Traffic Signal Head, 4 Way Pattern	8,169.80	779.84
34 41 13 00-0003		**Traffic Detector Induction Loop** *(34 41 13)*		
34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	421.33	
34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	525.34	
34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	594.50	
34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	513.59	
34 41 13 00-0008	EA	6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	891.21	
34 41 13 00-0009	EA	6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,093.59	
34 41 13 00-0010	EA	6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,165.56	
34 41 13 00-0011	EA	6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,458.11	
34 41 13 00-0012	EA	6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,563.28	
34 41 13 00-0013	EA	6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,664.79	
34 41 13 00-0014	EA	6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,793.23	
34 41 13 00-0015	LF	In Pavement, Lead Wire For Traffic Signal Detector Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.	8.83	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0016	LF	In Earthwork, Lead Wire For Traffic Signal Detector Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.	3.96	
34 41 13 00-0017	EA	2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222)	286.17	
34 41 13 00-0018	EA	4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100)	831.06	
34 41 13 00-0019	EA	2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100)	511.35	
34 41 13 00-0020		**Overhead Traffic Signals** *(34 41 13)*		
34 41 13 00-0021	EA	Vehicle Signal Face, LED, 1 - 12" Section	574.59	165.71
34 41 13 00-0022	EA	Vehicle Signal Face, LED, 2 - 12" Sections	946.99	233.96
34 41 13 00-0023	EA	Vehicle Signal Face, LED, 3 - 12" Sections	1,342.29	285.94
34 41 13 00-0024	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank	1,270.07	285.94
34 41 13 00-0025	EA	Vehicle Signal Face, LED, 4 - 12" Sections	1,720.25	318.44
34 41 13 00-0026	EA	Vehicle Signal Face, LED, 5 - 12" Sections	2,072.21	337.93
34 41 13 00-0027	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Cluster	2,211.84	337.93
34 41 13 00-0028	EA	Vehicle Signal Face, LED, 1 - 8" Section	538.47	165.71
34 41 13 00-0029	EA	Vehicle Signal Face, LED, 2 - 8" Sections	874.77	233.96
34 41 13 00-0030	EA	Vehicle Signal Face, LED, 3 - 8" Sections	1,166.54	285.94
34 41 13 00-0031	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section	1,255.62	285.94
34 41 13 00-0032	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections	1,566.17	318.44
34 41 13 00-0033	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section	1,515.61	318.44
34 41 13 00-0034	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections	1,807.38	337.93
34 41 13 00-0035	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster	1,920.54	337.93
34 41 13 00-0036	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed	2,834.94	285.94
34 41 13 00-0037	EA	Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed	3,725.69	318.44
34 41 13 00-0038	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed	4,888.98	337.93
34 41 13 00-0039	EA	Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed	5,310.30	337.93
34 41 13 00-0040	EA	Bracket Signal Mounting Assembly	563.29	129.97
34 41 13 00-0041	EA	Mast Arm Signal Mounting Assembly	986.95	259.95
34 41 13 00-0042	EA	Top Pole Signal Mounting Assembly	344.22	97.48
34 41 13 00-0043	EA	Pedestrian Signal Head	1,039.94	194.96
34 41 13 00-0044	EA	Pedestrian Signal Insert	649.98	97.48
34 41 13 00-0045	EA	Audible Pedestrian Signal	1,437.37	
34 41 13 00-0046	EA	Junction Box, Pole Or Post Mounted	600.36	
34 41 13 00-0047	EA	Pedestrian Push Button	526.39	
34 41 13 00-0048	EA	Illuminated Sign, Bracket Mounted, Symbolic	4,447.15	
34 41 13 00-0049	EA	Illuminated Sign, Mast Arm Mounted, Symbolic	4,631.98	
34 41 13 00-0050	EA	Sign, Message, "BLANK OUT", Bracket Mounted	4,910.58	
34 41 13 00-0051	EA	Sign, Message, "BLANK OUT", Mast Arm Mounted	5,214.22	
34 41 13 00-0052	EA	Sign, Fiber Optic, Bracket Mounted	5,613.88	
34 41 13 00-0053	EA	Sign, Fiber Optic, Mast Arm Mounted	5,923.82	
34 41 13 00-0054	EA	30' Type 15TS Signal And Lighting Standard Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.	8,393.64	
34 41 13 00-0055	EA	35' Type 21TS Signal And Lighting Standard Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.	9,807.39	
34 41 13 00-0056	EA	17' Type 18-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.	4,648.44	
34 41 13 00-0057	EA	17' Type 18-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.	5,194.29	
34 41 13 00-0058	EA	17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.	5,403.53	
34 41 13 00-0059	EA	17' Type 23-3-100 Signal And Lighting Standard Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	5,403.53	
34 41 13 00-0060	EA	17' Type 23-4-100 Signal And Lighting Standard Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	5,513.38	
34 41 13 00-0061	EA	17' Type 27-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	6,062.66	
34 41 13 00-0062	EA	17' Type 27-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	6,188.97	
34 41 13 00-0063	EA	17' Type 28-5-100 Signal And Lighting Standard Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.	6,447.96	
34 41 13 00-0064	EA	17' Type 60-5-100 Signal And Lighting Standard Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.	6,855.86	
34 41 13 00-0065	EA	18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.	4,969.55	
34 41 13 00-0066	EA	30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.	8,966.78	
34 41 13 00-0067	EA	30' Type 19-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.	10,113.06	
34 41 13 00-0068	EA	30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.	10,552.47	
34 41 13 00-0069	EA	30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.	10,552.47	
34 41 13 00-0070	EA	30' Type 26-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.	11,936.60	
34 41 13 00-0071	EA	30' Type 26-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.	12,467.21	
34 41 13 00-0072	EA	30' Type 29-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.	13,024.30	
34 41 13 00-0073	EA	30' Type 61-5-100 Signal And Lighting Standard Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.	13,901.77	
34 41 13 00-0074	EA	35' Type 17A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.	10,429.71	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0075	EA	35' Type 19A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.	11,767.04	
34 41 13 00-0076	EA	35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.	12,279.70	
34 41 13 00-0077	EA	35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.	12,279.70	
34 41 13 00-0078	EA	35' Type 26A-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	13,894.51	
34 41 13 00-0079	EA	35' Type 26A-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	14,513.54	
34 41 13 00-0080	EA	35' Type 29A-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.	15,163.50	
34 41 13 00-0081	EA	35' Type 61A-5-100 Signal And Lighting Standard Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.	16,187.19	
34 41 13 00-0082	EA	15' Steel Straight Mast Arm, MONOTUBE	3,297.71	
34 41 13 00-0083	EA	20' Steel Straight Mast Arm, MONOTUBE	3,459.40	
34 41 13 00-0084	EA	25' Steel Straight Mast Arm, MONOTUBE	3,714.96	
34 41 13 00-0085	EA	30' Steel Straight Mast Arm, MONOTUBE	5,093.15	
34 41 13 00-0086	EA	35' Steel Straight Mast Arm, MONOTUBE	6,166.99	
34 41 13 00-0087	EA	40' Steel Straight Mast Arm, MONOTUBE	6,631.18	
34 41 13 00-0088	EA	45' Steel Straight Mast Arm, MONOTUBE	7,277.39	
34 41 13 00-0089	EA	50' Steel Straight Mast Arm, MONOTUBE	8,263.45	
34 41 13 00-0090	EA	55' Steel Straight Mast Arm, MONOTUBE	9,380.79	
34 41 13 00-0091	EA	60' Steel Straight Mast Arm, MONOTUBE	10,080.22	
34 41 13 00-0092	EA	65' Steel Straight Mast Arm, MONOTUBE	11,707.41	
34 41 13 00-0093	EA	4' Steel Curved Luminaire Mast Arm	1,115.90	
		For High Rise Arm, Add	*102.07*	
34 41 13 00-0094	EA	6' Steel Curved Luminaire Mast Arm	1,455.64	
		For High Rise Arm, Add	*136.46*	
34 41 13 00-0095	EA	8' Steel Curved Luminaire Mast Arm	1,821.37	
		For High Rise Arm, Add	*170.85*	
34 41 13 00-0096	EA	10' Steel Curved Luminaire Mast Arm	2,453.46	
		For High Rise Arm, Add	*200.87*	
34 41 13 00-0097	EA	12' Steel Curved Luminaire Mast Arm	2,729.59	
		For High Rise Arm, Add	*236.90*	
34 41 13 00-0098	EA	15' Steel Curved Luminaire Mast Arm	2,875.59	
		For High Rise Arm, Add	*264.19*	
34 41 13 00-0099	EA	18' Steel Curved Luminaire Mast Arm	3,082.57	
		For High Rise Arm, Add	*289.85*	
34 41 13 00-0100	EA	15' Tubular Aluminum Post	1,169.20	
34 41 13 00-0101	EA	17' Tubular Aluminum Post	1,240.38	
34 41 13 00-0102	EA	20' Tubular Aluminum Post	1,374.27	
34 41 13 00-0103	EA	20' Steel Curved Luminaire Mast Arm	3,288.36	
		For High Rise Arm, Add	*315.50*	
34 41 13 00-0104	EA	CUT-OFF POLE AND CAPPED	182.76	
34 41 13 00-0105	EA	PAINT EXISTING SL/TS CONTROLLER COMPLETE	55.52	
34 41 13 00-0106	EA	PAINT EXISTING TS POST COMPLETE	258.96	
34 41 13 00-0107	EA	Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000)	6,615.43	
34 41 13 00-0108	EA	Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100)	6,820.07	
34 41 13 00-0109	EA	Traffic Signal Controller Unit, TS 2 Type 2 Econolite Model ASC/2S-2100	62,710.18	
34 41 13 00-0110	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way	1,217.14	225.60
34 41 13 00-0111	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way	1,337.51	225.60
34 41 13 00-0112	EA	Optical Detector For Mast Arm Mounting, 2 Channel	1,732.34	225.60
34 41 13 00-0113	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way	1,217.14	225.60
34 41 13 00-0114	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way	1,337.51	225.60
34 41 13 00-0115	EA	Optical Detector For Pole-Side Mounting, 2 Channel	1,732.34	225.60
34 41 13 00-0116	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way	1,217.14	225.60
34 41 13 00-0117	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way	1,337.51	225.60
34 41 13 00-0118	EA	Optical Detector For Pedestal Or Pipe Mounting, 2 Channel	1,732.34	225.60
34 41 13 00-0119	EA	Optical Detector For Span Wire Mounting, 1 Channel, 1 Way	1,217.14	225.60
34 41 13 00-0120	EA	Optical Detector For Span Wire Mounting, 1 Channel, 2 Way	1,337.51	225.60
34 41 13 00-0121	EA	Optical Detector For Span Wire Mounting, 2 Channel	1,732.34	225.60
34 41 13 00-0122	EA	Optical Detector For Signal Top Mounting, 1 Channel, 1 Way	1,217.14	225.60
34 41 13 00-0123	EA	Optical Detector For Signal Top Mounting, 1 Channel, 2 Way	1,337.51	225.60
34 41 13 00-0124	EA	Optical Detector For Signal Top Mounting, 2 Channel	1,732.34	225.60
34 41 13 00-0125	EA	2 Channel Phase Selector	4,088.96	
34 41 13 00-0126	EA	4 Channel Phase Selector	6,364.05	
34 41 13 00-0127	EA	Malfunction Management Unit For Use With NEMA Controller	2,038.80	
34 41 13 00-0128	EA	Time Switch, 1-Circuit	317.56	33.84
34 41 13 00-0129	EA	Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal	408.58	14.10
34 41 13 00-0130	EA	Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay	536.18	14.10
34 41 13 00-0131	EA	Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal	764.90	14.10
34 41 13 00-0132	EA	Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay	962.31	14.10
34 41 13 00-0133	EA	Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Controller Cabinet	2,623.48	14.10
34 41 13 00-0134	EA	Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet	2,623.48	14.10
34 41 13 00-0135	EA	Power Line Surge Protector	239.35	8.46
34 41 13 00-0136	EA	Loop Detector Surge Protector	120.08	8.46
34 41 13 00-0137	EA	1 Channel Loop Detector Amplifier	1,908.56	
34 41 13 00-0138	EA	4 Channel Loop Detector Amplifier	3,646.29	
34 41 13 00-0139	LF	Loop Detector Note: Includes saw cutting, sealing and splicing into leads in street.	8.08	
34 41 13 00-0140	LF	Detector Loop Cable (Lead Wire)	7.96	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0141	LF	Detector Loop Cable, Loop Type B	7.78	
34 41 13 00-0142	EA	FLASHING BEACON WITH DOWNLIGHT	2,562.90	
34 41 13 00-0143	EA	Flashing Beacon, Bracket Mounted	811.99	
34 41 13 00-0144	EA	Flashing Beacon, Mast Arm Mounted	811.99	
34 41 13 00-0145	EA	Flashing Beacon, Solar Powered, Bracket Mounted	23,643.54	
34 41 13 00-0146	EA	7-WIRE MASTER INTERCONNECT	1,704.75	
34 41 13 00-0147	EA	7-WIRE SLAVE INTERCONNECT	1,631.97	
34 41 13 00-0148	EA	Service Equipment Enclosure, Type III-AF	1,509.37	
34 41 13 00-0149	EA	12", 3 Section Signal, Mast Arm Mounted	1,622.85	
34 41 13 00-0150	EA	8", 3 Section Signal, Mast Arm Mounted	1,445.94	
34 41 13 00-0151	EA	12" FCV Visor	105.57	
34 41 13 00-0152	EA	8" FCV Visor	73.46	
34 41 13 00-0153	EA	Eggcrate Visor	101.59	
34 41 13 00-0154	EA	Pedestrian H/M	1,111.20	
34 41 13 00-0155	EA	Pedestrian Audio	1,229.48	
34 41 13 00-0156	EA	Adjustable Pushbutton	288.52	
34 41 13 00-0157	EA	ADA Cap And Switch	376.89	
34 41 13 00-0158	EA	3 Section 12" Backplate	169.14	
34 41 13 00-0159	EA	3 Section 12" MAS Mount Backplate	248.94	
34 41 13 00-0160	EA	3 Section 8" Backplate	135.38	
34 41 13 00-0161	EA	12" Red LED Lenses	289.31	
34 41 13 00-0162	EA	12" Amber LED Lenses	311.40	
34 41 13 00-0163	EA	12" Green LED Lenses	553.78	
34 41 13 00-0164	EA	12" Red Arrow	287.53	
34 41 13 00-0165	EA	12" Amber Arrow	271.35	
34 41 13 00-0166	EA	12" Green Arrow	413.12	
34 41 13 00-0167	EA	8" Red	284.26	
34 41 13 00-0168	EA	8" Amber	272.30	
34 41 13 00-0169	EA	8" Green	331.27	
34 41 13 00-0170	EA	Hand/Man	502.77	
34 41 13 00-0171	EA	Frameworks, 8" TV-1-T	612.29	
34 41 13 00-0172	EA	Frameworks, 8" TV-2-T	698.12	
34 41 13 00-0173	EA	Frameworks, MAT MT	180.26	
34 41 13 00-0174	EA	Frameworks, MAS MT	197.42	
34 41 13 00-0175	EA	Frameworks, 3W PT TC	420.83	
34 41 13 00-0176	EA	Frameworks, 2W PT TC	396.13	
34 41 13 00-0177	EA	Frameworks, 2W SM TC	373.24	
34 41 13 00-0178	EA	Frameworks, SV-1	246.08	
34 41 13 00-0179	EA	Frameworks, TV-1	237.50	
34 41 13 00-0180	EA	Type III Service Pedestal	4,901.87	
34 41 13 00-0181	EA	Single Fuse Holder	43.91	
34 41 13 00-0182	EA	Double Fuse Holder	115.97	
34 41 13 00-0183	EA	Pullbox, 1-1/2" x 20" x 14"	100.00	
34 41 13 00-0184	EA	Pullbox, 5" x 28" x 18"	137.01	
34 41 13 00-0185	EA	Pullbox, 6" x 36" x 23"	179.01	
34 41 13 00-0186	EA	Pullbox Lids, FL9D	115.18	
34 41 13 00-0187	EA	Pullbox Lids, FL30D	217.28	
34 41 13 00-0188	EA	Pullbox Lids, FL36D	60.06	
34 41 13 00-0189	EA	LED Enhanced Pedestrian Crossing Symbol Sign Note: 2 required per system.	2,046.30	103.05
34 41 13 00-0190	EA	42" Height, 8-1/2" Diameter Automatic Bollard Activation System Note: 4 required per system.	5,833.14	618.31
34 41 13 00-0191	EA	Power Control Unit With Enclosure (Solar) Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).	21,199.88	412.20
34 41 13 00-0192	EA	Power Control Unit With Enclosure (A/C)	13,539.21	412.20
34 41 13 00-0193	EA	Push Button Assembly With Sign	1,127.41	206.10
34 41 13 00-0194	EA	Advanced Warning Signs	2,303.53	206.10
34 41 13 00-0195	EA	30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm	7,387.74	
34 41 13 00-0196	EA	30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm	8,961.60	
34 41 13 00-0197	EA	30' High Galvanized Steel Traffic Signal Pole, Octaflute	6,558.30	
34 41 13 00-0198	EA	30' (High Spun Aluminum Traffic Signal Pole, Tapered	5,303.76	
34 41 13 00-0199	EA	Type 26-6-70 Signal Pole With 55' SMA And 20' LMA	26,531.89	
34 41 13 00-0200	EA	Type 29-6-70 Signal Pole With 65' SMA And 20' LMA	30,550.40	
34 41 13 00-0201	EA	Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US)	4,373.38	
34 41 13 00-0202	EA	Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US)	2,341.21	
34 41 13 00-0203	EA	Smart Sensor HD (Wavetronix HD125)	12,530.14	
34 41 13 00-0204	EA	Access Point (Sensys AP240-ES) Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.	5,785.38	
34 41 13 00-0205	EA	Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA	10,018.99	
34 41 13 00-0206	EA	Mounting Kit for Access Points and Repeaters (KIT-MTG)	346.97	
34 41 13 00-0207	EA	Repeater (Sensys RP240-B-LL) Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.	2,649.87	
34 41 13 00-0208	EA	Wireless Flush Mounted Sensor (Sensys VSN240-F) Note: Excludes coring.	1,172.98	
34 41 13 00-0209	EA	Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	2,923.10	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0210	EA	Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles	7,886.33	1.64
34 41 13 00-0211	EA	Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 And 26-4-80 Poles	10,314.81	1.64
34 41 13 00-0212	EA	Pole Base Foundation for Type 15 and 21 Poles	6,158.83	1.64
34 41 13 00-0213	EA	Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles	7,886.33	1.64
34 41 13 00-0214	EA	Pole Base Foundation for 26-4-100 And 27-4-100 Poles	10,314.81	1.64
34 41 13 00-0215	EA	Controller Cabinet (Econolite Type "O")	35,798.03	
34 41 13 00-0216	EA	Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay	15,389.65	
34 41 13 00-0217	EA	Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays	16,761.93	
34 41 13 00-0218	EA	Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay	18,411.06	
34 41 13 00-0219	EA	Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays	18,916.64	
34 41 13 00-0220	EA	Speed Limit Beacon Control Cabinet	7,578.43	
34 41 13 00-0221	EA	Remote Detector Cabinet	3,846.80	
34 41 13 00-0222	EA	Traffic Signal Hand Control	1,102.57	
34 41 13 00-0223	EA	Extra Pedestrian Detector Isolation Assembly	861.83	
34 41 13 00-0224	EA	Fiber Optic Transceivers-Repeater Module	1,560.08	
34 41 13 00-0225	EA	Field Transceiver-Repeater	836.47	
34 41 13 00-0226	EA	Load Switch	110.81	
34 41 13 00-0227	EA	30" Pedestal With Base Plate And Cover	964.51	
34 41 13 00-0228	EA	8' Pedestal With Base Plate And Cover	1,426.70	
34 41 13 00-0229	EA	11' Pedestal With Base Plate And Cover	1,588.69	
34 41 13 00-0230	EA	15' Pedestal With Base Plate And Cover	1,762.31	
34 41 13 00-0231	LF	6-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.62	
34 41 13 00-0232	LF	12-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.72	
34 41 13 00-0233	LF	24-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.09	
34 41 13 00-0234	LF	36-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.47	
34 41 13 00-0235	LF	48-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.84	
34 41 13 00-0236	LF	72-Fiber Interconnect Cable, Fiber Optic, Single Mode	3.53	
34 41 13 00-0237	LF	96-Fiber Interconnect Cable, Fiber Optic, Single Mode	4.19	
34 41 13 00-0238	LF	144-Fiber Interconnect Cable, Fiber Optic, Single Mode	5.50	
34 41 13 00-0239	LF	3/16" Diameter Messenger Cable	0.77	0.12
34 41 13 00-0240	LF	1/4" Diameter Messenger Cable	0.92	0.12
34 41 13 00-0241	LF	3/8" Diameter Messenger Cable	1.70	0.12
34 41 13 00-0242	LF	1/2" Diameter Messenger Cable	3.55	0.24
34 41 13 00-0243	EA	4' Diameter x 10' Concrete Base For Poles Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	3,035.43	
34 41 13 00-0244	EA	4' Diameter x 16' Concrete Base For Poles Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	4,788.18	
34 41 13 00-0245	EA	Internally Illuminated Street Name Sign, 1 Line, 4'	3,023.69	259.95
34 41 13 00-0246	EA	Internally Illuminated Street Name Sign, 1 Line, 6'	3,731.47	324.93
34 41 13 00-0247	EA	Internally Illuminated Street Name Sign, 1 Line, 8'	4,054.04	389.92
34 41 13 00-0248	EA	Internally Illuminated Street Name Sign, 1 Line, 10'	4,569.22	454.90
34 41 13 00-0249	EA	Internally Illuminated Street Name Sign, 1 Line, 12'	4,891.79	519.89
34 41 13 00-0250	EA	Internally Illuminated Street Name Sign, 2 Line, 4'	4,843.76	259.95
34 41 13 00-0251	EA	Internally Illuminated Street Name Sign, 2 Line, 6'	5,965.63	324.93
34 41 13 00-0252	EA	Internally Illuminated Street Name Sign, 2 Line, 8'	6,423.02	389.92
34 41 13 00-0253	EA	Internally Illuminated Street Name Sign, 2 Line, 10'	7,169.32	454.90
34 41 13 00-0254	EA	Internally Illuminated Street Name Sign, 2 Line, 12'	7,684.49	519.89
34 41 13 00-0255	EA	Photoelectric Controller, Multi-Volt	94.77	29.33
34 41 13 00-0256	EA	Photoelectric Controller, 120 Volt	95.26	29.33
34 41 13 00-0257	EA	Photoelectric Controller, 480 Volt	95.26	29.33
34 41 13 00-0258	EA	Wi-Fi Communication Unit	1,581.67	129.97
34 41 13 00-0259	EA	Wi-Fi Communication Unit Mounting Bracket	315.34	97.48
34 41 13 00-0260	EA	Wi-Fi Communication Unit Power Supply / POE Injector	296.09	64.98
34 41 13 00-0261	EA	Wi-Fi Communication Unit Packet	2,193.09	194.96
34 41 13 00-0262	LF	Preemptor Detector Cable	1.65	
34 41 13 00-0263	EA	Sno-Shoe Cable Storage Assembly	278.28	

34 41 13 00-0264 Traffic Signal Cable *(34 41 13)*

34 41 13 00-0265	LF	16 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.25	0.91
34 41 13 00-0266	LF	16 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.57	0.97
34 41 13 00-0267	LF	16 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.87	1.04
34 41 13 00-0268	LF	16 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.17	1.10
34 41 13 00-0269	LF	16 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.52	1.17
34 41 13 00-0270	LF	16 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.17	1.30
34 41 13 00-0271	LF	16 AWG, 10-Conductor, Solid, Traffic Signal Cable	4.92	1.49
34 41 13 00-0272	LF	16 AWG, 12-Conductor, Solid, Traffic Signal Cable	5.68	1.69
34 41 13 00-0273	LF	16 AWG, 16-Conductor, Solid, Traffic Signal Cable	6.84	1.88
34 41 13 00-0274	LF	16 AWG, 20-Conductor, Solid, Traffic Signal Cable	8.26	2.07
34 41 13 00-0275	LF	14 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.36	0.91
34 41 13 00-0276	LF	14 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.72	0.97
34 41 13 00-0277	LF	14 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.07	1.04
34 41 13 00-0278	LF	14 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.41	1.10
34 41 13 00-0279	LF	14 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.82	1.17
34 41 13 00-0280	LF	14 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.56	1.30
34 41 13 00-0281	LF	14 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.40	1.49
34 41 13 00-0282	LF	14 AWG, 12-Conductor, Solid, Traffic Signal Cable	6.26	1.69
34 41 13 00-0283	LF	14 AWG, 16-Conductor, Solid, Traffic Signal Cable	7.61	1.88
34 41 13 00-0284	LF	14 AWG, 20-Conductor, Solid, Traffic Signal Cable	9.28	2.07
34 41 13 00-0285	LF	12 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.62	0.91
34 41 13 00-0286	LF	12 AWG, 3-Conductor, Solid, Traffic Signal Cable	3.10	0.97

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0287	LF	12 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.55	1.04
34 41 13 00-0288	LF	12 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.98	1.10
34 41 13 00-0289	LF	12 AWG, 6-Conductor, Solid, Traffic Signal Cable	4.54	1.17
34 41 13 00-0290	LF	12 AWG, 8-Conductor, Solid, Traffic Signal Cable	5.50	1.30
34 41 13 00-0291	LF	12 AWG, 10-Conductor, Solid, Traffic Signal Cable	6.56	1.49
34 41 13 00-0292	LF	12 AWG, 12-Conductor, Solid, Traffic Signal Cable	7.64	1.69
34 41 13 00-0293	LF	12 AWG, 16-Conductor, Solid, Traffic Signal Cable	9.46	1.88
34 41 13 00-0294	LF	12 AWG, 20-Conductor, Solid, Traffic Signal Cable	11.75	2.07

34 41 13 00-0295 School Zone Flasher Beacons *(34 41 13)*

34 41 13 00-0296	EA	One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	6,337.01	193.55
34 41 13 00-0297	EA	One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	6,382.74	193.55
34 41 13 00-0298	EA	Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	7,159.25	193.55
34 41 13 00-0299	EA	Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	7,305.61	193.55
34 41 13 00-0300	EA	10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.	13,486.97	193.55
34 41 13 00-0301	EA	10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	14,060.55	193.55

34 41 13 00-0302 Traffic Light Control Synchronization *(34 41 13)*

34 41 13 00-0303	EA	ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput	5,474.11	
34 41 13 00-0304	EA	ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	4,060.18	
34 41 13 00-0305	EA	ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24)	9,144.63	
34 41 13 00-0306	EA	5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	6,316.27	
34 41 13 00-0307	EA	2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	6,316.27	
34 41 13 00-0308	EA	Solar Cabinet Assembly	16,795.44	
34 41 13 00-0309	EA	Data Controller Interface Cable Assembly	646.95	
34 41 13 00-0310	EA	900 MHZ Splitter	798.56	
34 41 13 00-0311	EA	900 MHz Surge Suppressor	290.44	
34 41 13 00-0312	EA	Surge-Radio Lead in Cable	182.93	
34 41 13 00-0313	EA	12DB GAIN YAGI Antenna	791.27	
34 41 13 00-0314	EA	PELCO Antenna Mounting Bracket	512.24	
34 41 13 00-0315	MLF	Coaxial Cable, LMR-400	4,423.27	
34 41 13 00-0316	EA	Perle 16 Port Serial Server	4,336.14	
34 41 13 00-0317	EA	Serial to Ethernet Card	2,412.44	
34 41 13 00-0318	EA	404 Stand-Alone Modem (GDI 404)	2,234.55	

34 41 13 00-0319 Traffic Signal Controls *(34 41 13)*

34 41 13 00-0320	EA	Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2)	1,883.92	
34 41 13 00-0321	EA	Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2)	820.28	
34 41 13 00-0322	EA	Access Box for contract closure master card (CC-ACC)	287.00	
34 41 13 00-0323	EA	Flush Mount Wireless Sensor (ATT VSN240-F)	1,101.40	
34 41 13 00-0324	EA	Flush Mount Wireless Sensor (Speed And Count VSN240-F)	1,101.40	
34 41 13 00-0325	EA	Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	168.99	
34 41 13 00-0326	EA	SNAPS License for each enabled AP (SNAPS-PER-AP)	470.81	

34 41 13 00-0327 Traffic Signal Devices *(34 41 13)*

34 41 13 00-0328	EA	12" Polycarbonate Signal Head Housing (McCain)	1,009.54	92.74
34 41 13 00-0329	EA	16" Polycarbonate Pedestrian Signal Housing (McCain)	504.79	72.14
34 41 13 00-0330	EA	Pedestrian Push Button Cap And Switch (McCain M31334)	350.33	133.97
34 41 13 00-0331	EA	Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	474.00	195.79
34 41 13 00-0332	EA	Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793)	362.71	154.57
34 41 13 00-0333	EA	16 Channel Conflict Monitor (McCain 2010 ECLip)	1,545.14	66.98
34 41 13 00-0334	EA	LED Countdown Head (McCain GTX PS7-CFF1-VLA)	313.15	25.76
34 41 13 00-0335	EA	Traffic signal Video Detection Camera (Iteris RZ4-awdr)	3,512.57	113.36
34 41 13 00-0336	EA	Camera processor card (Iteris Edge Connect)	8,055.14	164.88
34 41 13 00-0337	EA	Wireless Broadband Radio (Encom BB58)	7,607.05	154.57
34 41 13 00-0338	EA	24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900)	5,016.45	123.66
34 41 13 00-0339	EA	Power Adapter (Mean Well DR-120-48)	163.01	38.65
34 41 13 00-0340	LF	14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452)	0.91	
34 41 13 00-0341	EA	Radar Detection System (Wavetronix Matrix)	14,441.89	391.60
34 41 13 00-0342	EA	Pedestrian Audio Push Button (Polara APS)	401.35	97.90
34 41 13 00-0343	EA	Opticom Infrared System - Detector (GTT 711)	1,102.64	91.92
34 41 13 00-0344	EA	Opticom Infrared System - Detector (GTT 721)	1,233.68	102.84
34 41 13 00-0345	EA	Opticom Infrared System - Detector (GTT 722)	1,718.25	143.24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0346	EA	Opticom Multimode Phase Selector (GTT 764)	5,836.84	84.75
34 41 13 00-0347	LF	Opticom GPS Installation Cable (GTT 1070)	1.09	
34 41 13 00-0348	EA	Precast Concrete Traffic Pull Box, 5-T, with steel frame and diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324)	961.08	
34 41 13 00-0349	EA	Precast Concrete Traffic Pull Box, 6-T, with steel frame and diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730)	1,019.53	
34 41 13 00-0350	EA	UPS Module (Alpha Technologies FXM 350) Note: For battery backup in traffic signal control cabinet	1,571.23	56.40
34 41 13 00-0351	EA	Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual) Note: To control flashing "School" signs	484.06	46.38
34 41 13 00-0352	LF	Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR)	11.09	0.47
34 41 13 00-0353	LF	Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber)	2.60	0.41
34 41 13 00-0354	EA	12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA)	134.97	46.38
34 41 13 00-0355	EA	12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA)	134.97	46.38
34 41 13 00-0356	EA	12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA)	134.97	46.38
34 41 13 00-0357	EA	12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA)	134.97	46.38
34 41 13 00-0358	EA	12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA)	134.97	46.38
34 41 13 00-0359	EA	12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA)	134.97	46.38
34 41 13 00-0360	EA	LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA)	403.87	118.51
34 41 13 00-0361	EA	EOC Switch (Actellis ML688)	5,688.02	366.60
34 41 13 00-0362	EA	Ethernet Extender Kit (ENABLE-IT 860 Pro)	1,537.49	84.60
34 41 13 00-0363	EA	#5 pull box lid (Concrete, Bolt down) (Christy N30T)	123.18	24.97
34 41 13 00-0364	EA	#5 pull box lid (Steel, Bolt down) (Christy N30-61J)	446.98	36.15
34 41 13 00-0365	EA	#6 pull box lid (Concrete, Bolt down) (Christy N36T)	153.90	24.97
34 41 13 00-0366	EA	#6 pull box lid (Steel, Bolt down) (Christy N36-61J)	542.06	36.15
34 41 13 00-0367	EA	Battery Back-up (Alpha FXM110 UPS)	3,730.14	112.80
34 41 13 00-0368	EA	Battery (Alpha AlphaCell 220GXL)	523.66	28.20
34 41 13 00-0369	EA	BBS Cabinet (Alpha SE48-1616)	4,245.76	253.80
34 41 13 00-0370	LF	Fiber 72 Strands (Corning 072ZU4-T3F22D20)	5.81	2.20
34 41 13 00-0371	LF	Fiber 12 Strands (Corning 012ZU4-T3F22D20)	2.55	1.01
34 41 13 00-0372	EA	FDU And Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE)	1,316.99	84.60
34 41 13 00-0373	EA	12" THREE SECTION HOUSING (McCain M22435)	907.16	56.40
34 41 13 00-0374	EA	12" FOUR SECTION HOUSING (McCain M30883)	1,162.15	84.60
34 41 13 00-0375	EA	12" FIVE SECTION HOUSING (McCain M31769)	1,360.74	84.60
34 41 13 00-0376	EA	12" CLUSTER, WITHOUT MAS (McCain M30987)	1,460.04	84.60
34 41 13 00-0377	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650)	907.16	56.40
34 41 13 00-0378	EA	NAVIGATOR iN2 APS 2 WIRE PPB #iN250N0-B (Polara iN250N0-B)	907.16	56.40
34 41 13 00-0379	EA	NAVIGATOR iN2 CONTROLLER RACK MOUNT iCCU-C (Polara iCCU-C)	5,359.55	197.40
34 41 13 00-0380	EA	NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polara iN2-ICB-C)	254.99	28.20
34 41 13 00-0381	EA	NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polara iN2-150-WPS-C)	254.99	28.20
34 41 13 00-0382	EA	NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polara iN2-c4cable-C)	581.08	42.30
34 41 13 00-0383	EA	12" Visor (McCain M19302)	42.42	11.28
34 41 13 00-0384	EA	LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256)	481.78	42.30
34 41 13 00-0385	EA	SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258)	807.86	56.40
34 41 13 00-0386	EA	CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259)	1,509.68	84.60
34 41 13 00-0387	EA	ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487)	807.86	56.40
34 41 13 00-0388	EA	HARN, SB1/SB2,COMM EXTENSION (McCain M48062)	155.70	28.20
34 41 13 00-0389	EA	ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489)	481.78	42.30
34 41 13 00-0390	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650)	907.16	56.40
34 41 13 00-0391	EA	242L ISOLATOR, EDI (McCain M56812)	155.70	28.20
34 41 13 00-0392	EA	EDI 222 DETECTOR (McCain M11407)	205.34	28.20
34 41 13 00-0393	EA	ALPHA BBS, INVERTER AND BYPASS SWITCH (McCain M59763)	3,658.03	141.00
34 41 13 00-0394	EA	GENERATOR SWITCH AND PLUG ASS'Y FOR ALPHA BBS (McCain M68752-2)	589.42	56.40
34 41 13 00-0395	EA	BBS BATTERY, ALPHACELL 165GXL (McCain M59884)	807.86	56.40
34 41 13 00-0396	EA	Battery Backup Cabinet Anondize 44x26x12 (McCain M64438A)	1,708.27	84.60

34 41 16 Traffic Control Equipment *(34 41)*

34 41 16 00-0001 Transportation Control Equipment *(34 41 16)*

34 41 16 00-0002	EA	CONTROLLER/SL/POLE MTD/1-PHASE/100A	11,711.66	898.37
34 41 16 00-0003	EA	CONTROLLER/SL/ON EMB POLE 1-PH/100A	11,815.16	950.10
34 41 16 00-0004	EA	CONTROLLER, SL, 3-PHASE, 100A, BASE MTD	14,520.91	961.28
34 41 16 00-0005	EA	CONTROLLER, SL, 3-PHASE, 200A, BASE MTD	17,246.91	1,167.16
34 41 16 00-0006	EA	CONTROLLER/SL/BASE MTD/1-PHASE/100A	14,415.73	575.78
34 41 16 00-0007	EA	CONTROLLER/SL/BASE MTD/1-PHASE/200A	15,987.77	630.37
34 41 16 00-0008	EA	CONTROLLER, TS, 12-BAY, "M" CABINET	26,363.39	991.05
34 41 16 00-0009	EA	CONTROLLER, TS, 12-BAY, "P" CABINET	28,033.45	1,098.27
34 41 16 00-0010	EA	CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER	40,315.09	1,234.74
34 41 16 00-0011	EA	CONTROLLER, TS, 16-BAY, "P" CABINET	31,815.41	1,169.76
34 41 16 00-0012	EA	CONTROLLER, PEDESTRIAN CROSSING, ADD-IN	875.08	137.38
34 41 16 00-0013	EA	CONCRETE BLOCK PEDESTAL	772.24	206.26
34 41 16 00-0014	WK	MAINTAIN EXIST TS INSTALLATION	313.30	156.64
34 41 16 00-0015	EA	INST SIGN BOARDS, ST. NAME	586.27	272.03
34 41 16 00-0016	EA	F.O. ADD-IN FOR LOCAL CONTROLLER	13,440.95	352.74
34 41 16 00-0017	EA	F.O. ADD-IN FOR MASTER CONTROLLER	32,717.75	529.27
34 41 16 00-0018	EA	PDU Equipped netBooter With IEC320 C13 Outlets (Synaccess NP-0808DUH)	1,129.49	14.69
34 41 16 00-0019	EA	Remote Power Switched netBooter PDU, 8 Independent Outlets (Synaccess NP-0801DU)	639.20	14.69

34 41 16 00-0020 Transportation Cabinets *(34 41 16)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0021		**Transportation Cabinets (Dudlik Enclosures)** *(34 41 16 00-0020)*		
34 41 16 00-0022	EA	50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures)	2,912.49	169.20
34 41 16 00-0023	EA	66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures)	12,668.10	169.20
34 41 16 00-0024	EA	46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures)	2,717.82	169.20
34 41 16 00-0025	EA	50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures)	2,912.49	169.20
34 41 16 00-0026	EA	60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures)	13,100.72	169.20
34 41 16 00-0027	EA	55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures)	1,852.57	169.20
34 41 16 00-0028		**Transportation Cabinets (APX Enclosures)** *(34 41 16 00-0020)*		
34 41 16 00-0029	EA	28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017) Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.	7,195.55	197.40
34 41 16 00-0030		**Transportation Cabinets (Transportation Control Systems)** *(34 41 16 00-0020)*		
34 41 16 00-0031	EA	30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S)	2,742.59	169.20
34 41 16 00-0032	EA	30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S)	3,432.98	180.48
34 41 16 00-0033		**Transportation Cabinets (McCain)** *(34 41 16 00-0020)*		
34 41 16 00-0034	EA	24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i) Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	13,194.20	197.40
34 41 16 00-0035	EA	24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332) Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	13,194.20	197.40
34 41 16 00-0036	EA	ATC ColdFire Controller (McCain 170)	6,706.45	
34 41 16 00-0037		**Traffic Control Equipment** *(34 41 16)*		
34 41 16 00-0038	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15)	314.93	56.40
34 41 16 00-0039	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M)	424.45	56.40
34 41 16 00-0040	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M)	494.02	56.40
34 41 16 00-0041	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30)	375.75	56.40
34 41 16 00-0042	MLF	10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R)	2,922.70	618.31
34 41 16 00-0043	EA	Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02)	123.18	28.20
34 41 16 00-0044	EA	Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141)	596.52	64.51
34 41 16 00-0045	EA	Detection System, Vehicle, Two Sensor Preassembled Backplate, with AC Power (Wavetronix WX-SSB01-0003)	3,191.99	193.55
34 41 16 00-0046	EA	Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204)	579.53	28.20
34 41 16 00-0047	EA	Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114)	835.54	28.20
34 41 16 00-0048	EA	4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104)	947.59	56.40
34 41 16 00-0049	EA	Detection System, Vehicle, Four Sensor Preassembled Backplate, With AC Power, Wavetronix SmartSensor (Wavetronix WX-SS-B01-0005)	4,253.36	56.40
34 41 16 00-0050	EA	50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060)	387.10	193.55
34 41 16 00-0051	EA	60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060)	597.65	48.39
34 41 16 00-0052	EA	900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119)	507.48	64.51
34 41 16 00-0053	EA	900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120)	307.13	64.51
34 41 16 00-0054	EA	Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201)	356.92	28.20
34 41 16 00-0055	EA	24 Volt DC 2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-202)	434.84	28.20
34 41 16 00-0056	EA	Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250)	189.97	28.20
34 41 16 00-0057	EA	Power, RS232/RS485 Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-200)	590.67	28.20
34 41 16 00-0058	EA	Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222)	668.58	28.20
34 41 16 00-0059	EA	RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304)	835.54	28.20
34 41 16 00-0060	EA	Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301)	56.40	28.20
34 41 16 00-0061	EA	Sensor Mount, Heavy-Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611)	518.61	64.51
34 41 16 00-0062	MLF	LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400)	3,479.23	618.31
34 41 16 00-0063	EA	N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC)	58.33	16.92
34 41 16 00-0064	EA	Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	1,075.47	67.68
34 41 16 00-0065	EA	Spectra III Clear Pendant Lower Dome, Heavy-Duty (Pelco ld53hdpb-1)	1,035.04	84.60
34 41 16 00-0066	EA	24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	209.08	28.20
34 41 16 00-0067	EA	10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	151.10	28.20
34 41 16 00-0068	EA	24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2)	563.19	28.20
34 41 16 00-0069	EA	Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	225.47	28.20
34 41 16 00-0070	EA	120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	81.73	28.20
34 41 16 00-0071	EA	Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009) Note: Input/Output for sign peripherals.	780.63	56.40
34 41 16 00-0072	EA	Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009) Note: Input/Output for sign peripherals.	780.63	56.40
34 41 16 00-0073	EA	Control Area Network Distribution Board (Daktronics 0P-1248-0005) Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.	1,504.12	56.40
34 41 16 00-0074	EA	Control Area Network Distribution Board (Daktronics 0P-1248-0011) Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.	1,504.12	56.40
34 41 16 00-0075	EA	Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019) Note: Measures temperature and detects light and reports to CAN Distribution Board.	491.24	56.40
34 41 16 00-0076	EA	Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015) Note: Measures temperature and detects light and humidity and reports to CAN Distribution board.	713.85	56.40
34 41 16 00-0077	EA	Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021) Note: Measures temperature and detects light and humidity and reports to CAN Distribution board.	713.85	56.40

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0078	EA	Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003) Note: Measures temperature and detects light and reports to CAN Distribution board.	580.28	56.40
34 41 16 00-0079	EA	Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics 0A-1248-0016) Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.	10,468.67	225.60
34 41 16 00-0080	EA	DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025) Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Distribution Board, providing power redundancy.	434.84	28.20
34 41 16 00-0081	EA	Driver (Daktronics 0P-1100-0026) Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.	824.85	45.12
34 41 16 00-0082	EA	External Temp Sensor (Daktronics 0P-1100-0014) Note: Sensor that measures ambient temperature.	724.68	45.12
34 41 16 00-0083	EA	Internal Temp Sensor (Daktronics 0P-1100-0038) Note: Sensor that measures sign internal temperature.	813.72	45.12
34 41 16 00-0084	EA	Light Level Detector (Daktronics 0P-1151-0002) Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.	479.81	45.12
34 41 16 00-0085	EA	Module (Daktronics 0A-1253-0608) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,504.12	56.40
34 41 16 00-0086	EA	Module (Daktronics 0A-1253-3018) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,893.68	56.40
34 41 16 00-0087	EA	Module (Daktronics 0A-1266-5002) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,671.07	56.40
34 41 16 00-0088	EA	Module (Daktronics 0A-1332-6252) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	2,338.90	56.40
34 41 16 00-0089	EA	Module (Daktronics 0A-1332-6455) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,893.68	56.40
34 41 16 00-0090	EA	Module (Daktronics 0A-1332-6654) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,893.68	56.40
34 41 16 00-0091	EA	Module (Daktronics 0P-1332-3015) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,003.24	56.40
34 41 16 00-0092	EA	Module (Daktronics 0P-1332-4116) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,003.24	56.40
34 41 16 00-0093	EA	Module (Daktronics 0P-1332-5031) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,003.24	56.40
34 41 16 00-0094	EA	Module (Daktronics 0P-1332-5017) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,003.24	56.40
34 41 16 00-0095	EA	Module Without Pan (Daktronics 0A-1253-0603) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.	1,504.12	56.40
34 41 16 00-0096	EA	Module Without Pan (Daktronics 0A-1253-1605) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.	1,504.12	56.40
34 41 16 00-0097	EA	Module Without Pan (Daktronics 0A-1254-1601) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.	1,504.12	56.40
34 41 16 00-0098	EA	Pixel Strip (Daktronics 0P-1100-0016) Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.	502.37	56.40
34 41 16 00-0099	EA	Pixel Strip (Daktronics 0P-1100-0029) Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.	591.41	56.40
34 41 16 00-0100	EA	Power Supply (Daktronics A-1593) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,782.38	56.40
34 41 16 00-0101	EA	Power Supply (Daktronics A-1648) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,782.38	56.40
34 41 16 00-0102	EA	Power Supply (Daktronics A-2307) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	669.33	56.40
34 41 16 00-0103	EA	Surge Suppressor (Daktronics A-1129) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	268.03	33.84
34 41 16 00-0104	EA	Surge Suppressor (Daktronics A-1412) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	568.55	33.84
34 41 16 00-0105	EA	Surge Suppressor (Daktronics A-1772) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	568.55	33.84
34 41 16 00-0106	EA	Surge Suppressor (Daktronics A-2139) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	846.82	33.84
34 41 16 00-0107	EA	VCB, Vanguard Control Board (Daktronics 0P-1248-0022) Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.	1,437.33	56.40
34 41 16 00-0108	EA	VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001) Note: Input/Output board for sign peripherals.	1,949.34	56.40
34 41 16 00-0109	EA	Power Supply Assembly (Daktronics A-1856R)	1,281.51	56.40
34 41 16 00-0110	EA	Power Supply Isolation Board (Daktronics 0P-1447-2000)	836.28	56.40
34 41 16 00-0111	EA	Ventilation/Circulation Fan (Daktronics B-1075)	302.02	56.40
34 41 16 00-0112	EA	VMS Controller (V2) (Daktronics 0A-1248-0028)	10,468.67	225.60
34 41 16 00-0113	EA	Photo/Temp Sensor (Daktronics 0P-1247-0015)	713.85	56.40
34 41 16 00-0114	EA	Defog Fan (Daktronics B-1053)	112.05	28.20
34 41 16 00-0115	EA	Defog Heater (Daktronics A-1792)	145.44	28.20
34 41 16 00-0116	EA	Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF)	947.59	56.40
34 41 16 00-0117	EA	Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF)	947.59	56.40
34 41 16 00-0118	EA	1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R)	1,240.61	56.50
34 41 16 00-0119	EA	1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E)	1,240.61	56.50
34 41 16 00-0120	EA	16-Port Video Encoder Featuring H.264 Technology (Verint S1816E)	6,793.34	56.50
34 41 16 00-0121	EA	Encoder H.264 Compact, Hiperfmc (Verint S1802E)	1,608.25	56.50

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0122	EA	110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261)	212.38	28.20
34 41 16 00-0123	EA	1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E)	757.44	56.50
34 41 16 00-0124	EA	Single/Quad-Stream Decoder (Bosch VIP-XD)	2,006.21	56.50
34 41 16 00-0125	EA	1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4)	280.88	56.40
34 41 16 00-0126	EA	4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B)	623.86	56.40
34 41 16 00-0127	EA	12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750)	303.67	14.13
34 41 16 00-0128	EA	Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B)	3,867.16	112.80
34 41 16 00-0129	EA	Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1)	232.90	28.20
34 41 16 00-0130	EA	4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM)	3,526.22	56.40
34 41 16 00-0131	EA	208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM)	8,181.20	279.18
34 41 16 00-0132	EA	30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB)	1,073.86	146.64
34 41 16 00-0133	EA	30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30)	24.27	9.02
34 41 16 00-0134	EA	60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy-Duty, Safety Switch (Square D H362DS)	2,850.87	112.80
34 41 16 00-0135	EA	60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60)	58.06	9.02
34 41 16 00-0136	EA	50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820)	2,553.53	64.51
34 41 16 00-0137	EA	Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810)	126.26	42.86
34 41 16 00-0138	EA	12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469)	385.35	56.40
34 41 16 00-0139	EA	Single AC Inlet, 8 NEMA 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT)	718.28	14.69
34 41 16 00-0140	EA	Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT H)	774.52	14.69
34 41 16 00-0141	EA	550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027)	405.71	22.56
34 41 16 00-0142	EA	10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E)	4,911.94	135.36
34 41 16 00-0143	EA	12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC)	175.45	25.94
34 41 16 00-0144	EA	6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK)	44.99	5.64
34 41 16 00-0145	EA	170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC)	1,552.13	56.40
34 41 16 00-0146	EA	12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E)	5,344.25	112.80
34 41 16 00-0147	EA	2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000)	3,562.04	186.12
34 41 16 00-0148	EA	100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS)	741.06	322.61
34 41 16 00-0149	EA	70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S)	516.07	225.60
34 41 16 00-0150	EA	60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260)	110.92	30.45
34 41 16 00-0151	EA	15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515)	85.12	20.31
34 41 16 00-0152	EA	15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120)	65.00	20.31
34 41 16 00-0153	EA	20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120)	65.00	20.31
34 41 16 00-0154	EA	One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4)	280.88	56.40
34 41 16 00-0155	EA	DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC)	332.08	28.25
34 41 16 00-0156	EA	H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC)	3,170.77	28.25
34 41 16 00-0157	EA	Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC)	617.54	14.69
34 41 16 00-0158	EA	Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version)	12,760.06	193.55
34 41 16 00-0159	EA	Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9)	468.54	64.51

34 41 23 Roadway Monitoring Equipment *(34 41)*

34 41 23 00-0001 Radar Speed Display Signs *(34 41 23)*

34 41 23 00-0002	EA	Pole Mounted Radar Speed Sign (RU2 Systems, Inc. Model 250) Note: 12" Full Matrix (rounded) Characters for quick recognition.	6,154.65
34 41 23 00-0003	EA	Pole Mounted Radar Speed Sign (RU2 Systems, Inc. Model 350) Note: 18" Full Matrix (rounded) Characters for quick recognition.	7,237.19
34 41 23 00-0004	EA	Dolly Mounted Radar Speed Sign (RU2 Systems, Inc. Model 500) Note: 12" Amber AlInGaP LED display characters.	10,282.67
34 41 23 00-0005	EA	Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 600) Note: 12" full graphic characters	12,918.40
34 41 23 00-0006	EA	Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 750) Note: 18" Amber AlInGaP LED display characters	16,221.37
34 41 23 00-0007	EA	Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 800) Note: 18" Amber AlInGaP LED full graphic display characters, on top. 18" x 24" MUTCD R2-1 speed sign / 5-65 MPH overlays.	16,977.21
34 41 23 00-0008	EA	Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 950) Note: 18" Amber AlInGaP LED full graphic display characters. 18" x 24" MUTCD R2-1 speed sign / 5-65 MPH overlays.	20,562.58
34 41 23 00-0009	EA	Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 1000) Note: Up to 30" Amber AlInGaP LED digits.	23,538.85

34 41 33 In Roadway Warning Lights *(34 41)*

34 41 33 00-0001 In-Road Warning Light (IRWL) Pedestrian Safety System *(34 41 33)*

34 41 33 00-0002	EA	SC320 Controller: NEMA 3R Aluminum Pole Mount Cabinet (Spot Devices, Inc. #SC320036)	7,871.83	159.73
34 41 33 00-0003	EA	Spread Spectrum Local Wireless Activation (Spot Devices, Inc. #SC320026)	608.54	12.89
34 41 33 00-0004	EA	SC320AA: Passive Activation Bollard Pair, AC SC320 Controller (Spot Devices, Inc. #BA300000-D)	16,726.05	334.91
34 41 33 00-0005	EA	Whitney RS320 Road Spot: Amber Bidirectional (Spot Devices, Inc. #RS320701-D)	3,901.02	77.29
34 41 33 00-0006	EA	Polara Bulldog Pushbutton With LED And tone, R62E Sign With RIG (Spot Devices, Inc. #PB101131)	679.90	12.89
34 41 33 00-0007	EA	LED Enhanced Sign - 30" W11-2 Crosswalk Sign (Spot Devices, Inc. SL201011) Note: Excludes controller.	3,209.23	64.41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 33 00-0008	EA	SB435: RRFB, Gen2, Large, With Single Pedestrian Signal (Spot Devices, Inc. SB110015) Note: Includes mounts.	1,968.36	38.65
34 41 33 00-0009	EA	Sign, W11-2 Crosswalk, 30", FYG With Mount (Spot Devices, Inc. #SG101102)	360.37	7.73
34 41 33 00-0010	EA	Sign, W16-7p Left Down Arrow, 12", FYG With Mount (Spot Devices, Inc. #SG101103)	124.09	2.58
34 41 33 00-0011	EA	RS300: Interconnect 16/4 Dual Plug Cable, 7 ft. (Spot Devices, Inc. #RS301624)	135.98	2.58
34 41 33 00-0012	EA	RSV3 Installation Kit (Spot Devices, Inc. #RS308977)	186.13	3.86
34 41 33 00-0013	EA	RS300: Female-to-Female Interconnect 16/4 Dual Plug Cable, 25' (Spot Devices, Inc. #RS301644)	322.12	6.44
34 41 33 00-0014	EA	RS300: Interconnect 16/4 Dual Plug Cable, 7' Length (Spot Devices, Inc. #RS301624)	135.98	2.58
34 41 33 00-0015	EA	RS300: Lead-in Cable, 12/4 Single Plug, 75' Length (Spot Devices, Inc. #RS301651)	472.56	10.31
34 41 33 00-0016	EA	RS300: Lead-in Cable, 12/4 Single Plug, 50' Length (Spot Devices, Inc. #RS301650)	396.05	7.73
34 41 33 00-0017	EA	Plug, Dummy Female (Spot Devices, Inc. #RS301603)	37.22	0.77
34 41 33 00-0018	EA	Liquid Conduit Polymeric Asphalt Formula (Spot Devices, Inc. #RS308931)	205.67	
34 41 33 00-0019	LF	Cable, Peripheral, 18/2 SO Burial, Unterminated (Spot Devices, Inc. #SC202602)	2.48	
34 41 33 00-0020	LF	DC Interconnect Wire. 12/2 SO Burial, Unterminated (Spot Devices, Inc. #SC202603)	3.09	

34 70 Transportation Construction and Equipment *(34)*

34 71 Roadway Construction *(34 70)*

34 71 13 Vehicle Barriers *(34 71)*

34 71 13 13 Vehicle Median Barriers *(34 71 13)*

34 71 13 13-0001 Concrete Median Barrier *(34 71 13 13)*

34 71 13 13-0002	LF	Median Barrier, Precast, 42" High Single Face	71.56	4.66
34 71 13 13-0003	LF	Median Barrier, Precast, 32" High, 2' Wide Base, Double Face	122.89	4.66
34 71 13 13-0004	LF	Median Barrier, Precast, 42" High, 2' Wide Base, Double Face	176.23	4.66
34 71 13 13-0005	LF	Median Barrier, Cast In Place With Steel Forms	54.08	7.70
34 71 13 13-0006	LF	Median Barrier, Slipformed Concrete	42.25	3.83

34 71 13 13-0007 Glare Screen *(34 71 13 13)*
Note: Includes fasteners to mount on median barrier.

34 71 13 13-0008	LF	Glare Screen	280.63	7.35

34 71 13 16 Vehicle Crash Barriers *(34 71 13)*

34 71 13 16-0001 Impact Barrier, Non-Redirective *(34 71 13 16)*

34 71 13 16-0002 Sand Barrel Impact Attenuator *(34 71 13 16-0001)*
Note: Includes containers, inserts, and lid. Excludes sand.

34 71 13 16-0003	EA	200, 400 Or 700 Lb. Sand Barrel Note: Includes containers, inserts, and lid.	607.61	55.22

34 71 13 16-0004 Repair Of Sand Barrel Impact Attenuator *(34 71 13 16-0001)*
Note: By TrafFix Devices, Inc.

34 71 13 16-0005	EA	Removal And Replacement Of Sand Container For 200, 400, Or 700 Lb. Sand Barrel Note: For TrafFix Devices, Inc.	347.63	
34 71 13 16-0006	EA	Removal And Replacement Of Pedestal Unit For 200, 400, Or 700 Lb. Sand Barrel Note: For TrafFix Devices, Inc.	347.63	
34 71 13 16-0007	EA	Removal And Replacement Of 1,400 Lb. Sand Barrel, Excludes Lid, For TrafFix Devices	522.18	
34 71 13 16-0008	EA	Removal And Replacement Of 2,100 Lb. Sand Barrel, Excludes Lid, For TrafFix Devices	569.53	
34 71 13 16-0009	EA	Removal And Replacement Of Lid For Sand Barrel for TrafFix Devices, Inc.	127.94	

34 71 13 16-0010 Repair Of Sand Barrel Impact Attenuator *(34 71 13 16-0001)*
Note: By Fitch Universal Module System.

34 71 13 16-0011	EA	Removal And Replacement Of Barrel Wall Section for Fitch Universal Module System	516.41	
34 71 13 16-0012	EA	Removal And Replacement Of Unicore Insert for Fitch Universal Module System	341.86	
34 71 13 16-0013	EA	Removal And Replacement Of Lid for Fitch Universal Module System	133.70	
34 71 13 16-0014	EA	Removal And Replacement Of Zip Strip for Fitch Universal Module System	66.86	

34 71 13 16-0015 Repair Of Sand Barrel Impact Attenuator *(34 71 13 16-0001)*
Note: By Energite III.

34 71 13 16-0016	EA	Removal And Replacement Of Sand Container For 200, 400, 700 Or 1,400 Lb. Sand Barrel For Energite III Systems	499.13	
34 71 13 16-0017	EA	Removal And Replacement Of Sand Container For 2,100 Lb. Sand Barrel For Energite III Systems	534.96	
34 71 13 16-0018	EA	Removal And Replacement Of Cone For 200, Or 400 Lb. Sand Barrel For Energite III Systems	185.56	
34 71 13 16-0019	EA	Removal And Replacement Of Cone For 700, 1,400 Or 2,100 Lb. Sand Barrel For Energite III Systems	429.47	
34 71 13 16-0020	EA	Removal And Replacement Of Lid for Energite III Systems	127.94	

34 71 13 16-0021 Sand For Sand Barrel Impact Attenuator *(34 71 13 16-0001)*

34 71 13 16-0022	LB	Sand for Sand Barrels	0.11	

34 71 13 19 Vehicle Traffic Barriers *(34 71 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 19-0001		**Vehicle Barricade Components (Delta Scientific Basic System or equal)** *(34 71 13 19)* Note: Excludes foundation excavation and concrete		
34 71 13 19-0002	EA	Hydraulic Operation Barrier Gate (Delta Scientific BB10M)	23,597.03	
34 71 13 19-0003	EA	High Security Cable Crash Beam Barrier (Delta Scientific BB10MS)	56,890.99	
34 71 13 19-0004	EA	Quick Deployment Crash Barrier (Delta Scientific DSC1100)	122,607.38	
34 71 13 19-0005	EA	Shallow Mount Barricade System (Delta Scientific DSC501)	121,406.80	
34 71 13 19-0006	EA	Hydraulic Bollard System (Delta Scientific DSC701 H)	54,894.76	
34 71 13 19-0007	EA	Decorative Fixed Post Bollard (Delta Scientific DSC701FP)	8,529.30	
34 71 13 19-0008	EA	Pneumatic Bollard System (Delta Scientific DSC701PB)	54,899.61	
34 71 13 19-0009	EA	Hydraulic Bollard System (Delta Scientific DSC720 H)	56,842.43	
34 71 13 19-0010	EA	Decorative Fixed Post Bollard (Delta Scientific DSC720FP)	9,710.04	
34 71 13 19-0011	EA	Pneumatic Bollard System (Delta Scientific DSC720PB)	56,842.43	
34 71 13 19-0012	EA	Decorative Hydraulic Bollard System (Delta Scientific DSC800 H)	43,614.77	
34 71 13 19-0013	EA	Manual Decorative Bollard (Delta Scientific DSC800 M)	16,585.85	
34 71 13 19-0014	EA	Decorative Fixed Post Bollard (Delta Scientific DSC800FP)	5,924.07	
34 71 13 19-0015	EA	Decorative Pneumatic Bollard System (Delta Scientific DSC800PB)	43,629.32	
34 71 13 19-0016	EA	Portable Surface Mounted Barrier System (Delta Scientific DSC900)	108,305.55	
34 71 13 19-0017	EA	Quick Deployment Crash Barrier, Hydraulic (Delta Scientific IP500 H)	96,369.79	
34 71 13 19-0018	EA	Quick Deployment Crash Barrier, Manual (Delta Scientific IP500 M)	70,613.36	
34 71 13 19-0019	EA	Cantilever Gate (Delta Scientific SC3000)	68,337.78	
34 71 13 19-0020	EA	Hydraulic Cantilever Gate (Delta Scientific SC3000 H)	58,803.53	
34 71 13 19-0021	EA	Manual Crash Rated Swing Gate (Delta Scientific SGC1000)	63,940.20	
34 71 13 19-0022	EA	Surface Barricade System (Delta Scientific TT107S/FM)	111,384.18	
34 71 13 19-0023	EA	Hydraulic Bollard System (Delta Scientific TT203 H)	40,382.74	
34 71 13 19-0024	EA	Counter Balanced Manual Bollard (Delta Scientific TT203 M)	11,893.21	
34 71 13 19-0025	EA	Pneumatic Bollard System (Delta Scientific TT203PB)	40,382.74	
34 71 13 19-0026	EA	Barricade System (Delta Scientific TT205)	87,298.91	
34 71 13 19-0027	EA	Barricade System (Delta Scientific TT207)	108,009.94	
34 71 13 19-0028	EA	Barricade System (Delta Scientific TT207S/FM)	121,406.80	
34 71 13 19-0029	EA	Hydraulic Bollard System (Delta Scientific TT210 H)	43,704.89	
34 71 13 19-0030	EA	Manual Security Bollard System (Delta Scientific TT210 M)	14,450.13	
34 71 13 19-0031	EA	Fixed Post Bollard System (Delta Scientific TT210FP)	6,391.15	
34 71 13 19-0032	EA	Pneumatic Bollard System (Delta Scientific TT210PB)	43,704.89	
34 71 13 19-0033	EA	Hydraulic Cable Beam Barrier (Delta Scientific TT212 H)	48,589.70	
		For Each Additional LF Of Beam >12', Add	*467.00*	
34 71 13 19-0034	EA	Manual Cable Beam Barrier (Delta Scientific TT212 M)	28,410.75	
		For Each Additional LF Of Beam >12', Add	*467.00*	
34 71 13 19-0035	EA	Enhanced Hydraulic Cable Beam Barrier (Delta Scientific TT212E H)	60,603.45	
		For Each Additional LF Of Beam >12', Add	*467.00*	
34 71 13 19-0036	EA	Enhanced Manual Cable Beam Barrier (Delta Scientific TT212E M)	40,421.26	
		For Each Additional LF Of Beam >12', Add	*467.00*	
34 71 13 19-0037	EA	Hydraulic Crash Beam Barrier (Delta Scientific TT212EC H)	76,161.42	
		For Each Additional LF Of Beam >12', Add	*467.00*	
34 71 13 19-0038	EA	Manual Crash Beam Barrier (Delta Scientific TT212EC M)	61,805.36	
		For Each Additional LF Of Beam >12', Add	*467.00*	
34 71 13 19-0039	EA	Cable Crash Beam Barrier (Manual Operation) (Delta Scientific TT218 M)	35,234.07	
		For Each Additional LF Of Beam >12', Add	*467.00*	
34 71 13 19-0040	EA	Cable Crash Beam Barrier (Manual Operation) (Delta Scientific TT218E M)	40,596.95	
		For Each Additional LF Of Beam >12', Add	*467.00*	
34 71 13 19-0041	EA	Hydraulic Heavy-Duty Swing Gate (Delta Scientific TT255)	27,048.23	
34 71 13 19-0042	EA	Linear Crash Rated Gate System (Delta Scientific TT280)	109,542.85	
34 71 13 19-0043	EA	High Security Rolling Gate (Delta Scientific TT300)	65,908.43	
34 71 13 19-0044	EA	Barricade System (Delta Scientific TW2015)	46,953.84	
34 71 13 19-0045	EA	Barricade System (Delta Scientific TW4030)	77,702.77	
34 71 13 19-0046	EA	Vehicle Loop Detector (Delta Scientific 3546-3NP, 3546-7NP, or 3546-8NP)	476.49	
34 71 13 19-0047	EA	Vehicle Loop Detector, Dual Relay Version, Power Resumption Safety (Delta Scientific 3546-DCNP)	575.36	
34 71 13 19-0048		**Vehicle Barricade Systems Options (Delta Scientific Basic System or equal)** *(34 71 13 19)*		
34 71 13 19-0049	EA	Hydraulic Pumping Unit Enclosure, For DELTA HPU Only (Delta Scientific B1215)	5,493.00	
34 71 13 19-0050	EA	Master Control Panel With Reset And Override, Single Lane Control (Delta Scientific B1036TL)	4,259.09	
34 71 13 19-0051	EA	Remote Control Slave Panel With Annunciator (Delta Scientific B1086TL)	3,976.92	
34 71 13 19-0052	EA	Detector Harness, 11 Pin (Delta Scientific OC02-11)	63.93	
34 71 13 19-0053	EA	Electromagnetic Lock (Delta Scientific B4020)	3,782.92	
34 71 13 19-0054	EA	Flashing Lights, Set Of Three (Delta Scientific B4030)	1,245.54	
34 71 13 19-0055	EA	Barricade Fully Up (Or Down) Auxiliary Limit Switch (Delta Scientific B2021 Or B2020)	480.58	
34 71 13 19-0056	EA	Crash Switch, Activates Customers Alarm (Delta Scientific B4060)	725.28	
34 71 13 19-0057	EA	Emergency Manual Operating System, Hand Pump (Delta Scientific B1325)	952.34	
34 71 13 19-0058	EA	Three Phase Power Monitor (Delta Scientific B1255)	747.33	
34 71 13 19-0059	EA	Power Unit Mounted Disconnect (Delta Scientific B1260)	1,338.13	
34 71 13 19-0060	EA	Barrier System Heater (Delta Scientific B4010)	1,823.12	
34 71 13 19-0061	EA	60 Watt Oil Reservoir Heater, Omega Units (Delta Scientific B1192)	879.60	
34 71 13 19-0062	EA	200 Watt Oil Reservoir Heater, Beta Units (Delta Scientific B1194)	867.16	
34 71 13 19-0063	EA	500 Watt Oil Reservoir Heater, Beta Units (Delta Scientific B1190)	1,106.15	
34 71 13 19-0064	EA	Battery Back-up, Controls Only (Delta Scientific B1155)	1,313.88	
34 71 13 19-0065	EA	Card Reader (Delta Scientific MPL-22)	1,305.06	

34 71 13 26 Vehicle Guide Rails *(34 71 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0001		**Mobilize Guide Rail Crew** *(34 71 13 26)*		
34 71 13 26-0002	EA	Mobilize Guide Rail Crew Note: Excludes equipment mobilization.	1,399.29	
34 71 13 26-0003		**Corrugated Beam Guide Rail** *(34 71 13 26)*		
34 71 13 26-0004		**Corrugated Beam Guide Railing** *(34 71 13 26-0003)*		
34 71 13 26-0005		**Corrugated Beam Guide Railing. Straight Sections** *(34 71 13 26-0004)* Note: Add additional length for back-up sections.		
34 71 13 26-0006	LF	Corrugated Beam Guide Railing	38.74	2.50
34 71 13 26-0007	LF	Corrugated Beam Guide Railing (Rustic)	45.96	2.50
34 71 13 26-0008		**Corrugated Beam Guide Railing, Shop Curved** *(34 71 13 26-0004)* Note: Add additional length for back-up sections.		
34 71 13 26-0009	LF	Shop Curved Corrugated Beam Guide Railing	52.03	2.50
34 71 13 26-0010	LF	Shop Curved Corrugated Beam Guide Railing (Rustic)	61.99	2.50
34 71 13 26-0011	LF	Shop Curved Corrugated Beam Guide Railing End Note: Treatment for mall barriers driveways, walkways, special end, etc.	140.50	2.50
34 71 13 26-0012	LF	Shop Curved Corrugated Beam Guide Railing (Rustic) End Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.	161.23	2.50
34 71 13 26-0013		**Corrugated Beam Guide Railing, Manufactured End Sections** *(34 71 13 26-0003)*		
34 71 13 26-0014	EA	Corrugated Beam Guide Railing End Section At Anchor Unit	266.97	32.99
34 71 13 26-0015	EA	Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit	285.06	32.99
34 71 13 26-0016	EA	Corrugated Beam Guide Railing Flared Or 180 Degree End Section	375.47	32.99
34 71 13 26-0017	EA	Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic)	393.56	32.99
34 71 13 26-0018	EA	Corrugated Beam Guide Railing 225 Degree End Section	375.47	32.99
34 71 13 26-0019	EA	Corrugated Beam Guide Railing 225 Degree End Section (Rustic)	393.56	32.99
34 71 13 26-0020		**Corrugated Beam Guide Rail End Terminal Systems** *(34 71 13 26-0003)* Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021	EA	Regent Flared End Terminal Head With Bracket, Type B And C	10,667.27	201.90
34 71 13 26-0022	EA	Fleat Flared End Terminal Head With Bracket	8,858.91	201.90
34 71 13 26-0023	EA	SKT 350 Tangent End Terminal Head With Bracket	10,667.27	201.90
34 71 13 26-0024	EA	12'-6" Corrugated Beam Pre-drilled #1 Panel	1,483.18	95.18
34 71 13 26-0025	EA	Terminal Support System, Type SFT	1,055.28	254.49
34 71 13 26-0026	EA	Terminal Support System, Type ET	5,199.07	720.26
34 71 13 26-0027	EA	Terminal Support System, Type SRT	5,644.89	720.26
34 71 13 26-0028		**Corrugated Beam Guide Rail Posts** *(34 71 13 26-0003)* Note: Includes mounting hardware.		
34 71 13 26-0029	EA	Standard Post For Corrugated Beam Guide Rail	313.31	17.97
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*4.79*	
34 71 13 26-0030	EA	Standard Post For (Rustic) Corrugated Beam Guide Rail	331.39	17.97
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*4.79*	
34 71 13 26-0031	EA	Extra Long Post For Corrugated Beam Guide Rail	349.47	17.97
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*4.79*	
34 71 13 26-0032	EA	Extra Long Post (Rustic) for Corrugated Beam Guide Rail	367.56	17.97
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*4.79*	
34 71 13 26-0033	EA	6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail	313.31	17.97
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*4.79*	
34 71 13 26-0034	EA	Post Struts for Corrugated Beam Guide Rail Mall Barrier Post	457.98	17.97
		For Installation In Rock, Add	*4.79*	
34 71 13 26-0035		**Heavy Post Blocked Out Corrugated Beam Guide Rail Posts** *(34 71 13 26-0003)* Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0036	EA	Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	313.31	17.97
34 71 13 26-0037	EA	Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	331.39	17.97
34 71 13 26-0038	EA	Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide	349.47	17.97
34 71 13 26-0039	EA	Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail Note: For heavy post blocked out corrugated beam guide (rustic)	367.56	17.97
34 71 13 26-0040	EA	Type A Post 1630mm Post Note: For heavy post blocked out corrugated beam guide rail	304.27	17.97
34 71 13 26-0041	EA	Type A Post 1630mm Post (Rustic) Note: For heavy post blocked out corrugated beam guide rail	322.35	17.97
34 71 13 26-0042	EA	Type B Post 1460mm Note: For heavy post blocked out corrugated beam guide rail	286.18	17.97
34 71 13 26-0043	EA	Type B Post 1460mm (Rustic) Note: For heavy post blocked out corrugated beam guide rail	304.27	17.97

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0044	EA	Type C Post 1290mm	268.10	17.97
		Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0045	EA	Type C Post 1290mm (Rustic)	286.18	17.97
		Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0046	EA	Breakaway Wood Or Steel Post In Steel Foundation Tube	1,220.38	17.97
34 71 13 26-0047	EA	Wood, Metal, Plastic Or Composite Offset Block Or Beam	114.39	17.97
		Note: For heavy post blocked out corrugated beam guide rail.		
34 71 13 26-0048		**Corrugated Beam Guide Rail Accessories** *(34 71 13 26-0003)*		
34 71 13 26-0049	EA	Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C	230.81	37.48
34 71 13 26-0050		**Corrugated Beam Guide Rail Repair for Existing Guide Rail** *(34 71 13 26-0003)*		
		Note: Includes associated hardware.		
34 71 13 26-0051	LF	Removal And Storage Of Corrugated Beam Guide Railing And Post	14.65	
34 71 13 26-0052	EA	Install Stored Post For Corrugated Beam Guide Rail	49.97	
34 71 13 26-0053	LF	Install Stored Corrugated Beam Guide Railing And Post	8.49	
34 71 13 26-0054		**Corrugated Thrie Beam Guide Railing** *(34 71 13 26-0003)*		
34 71 13 26-0055		**Corrugated Thrie Beam Guide Railing. Straight Sections** *(34 71 13 26-0054)*		
		Note: Add additional length for back-up sections.		
34 71 13 26-0056	LF	Corrugated Thrie Beam Guide Railing	96.52	3.15
34 71 13 26-0057	LF	Corrugated Thrie Beam Guide Railing (Rustic)	102.04	3.15
34 71 13 26-0058		**Corrugated Thrie Beam Guide Railing. Shop Curved** *(34 71 13 26-0054)*		
		Note: Add additional length for back-up sections.		
34 71 13 26-0059	LF	Shop Curved Corrugated Thrie Beam Guide Railing	118.57	3.15
34 71 13 26-0060	LF	Shop Curved Corrugated Thrie Beam Guide Railing (Rustic)	124.08	3.15
34 71 13 26-0061		**Corrugated Thrie Beam Guide Rail Posts** *(34 71 13 26-0054)*		
		Note: Includes hardware for mounting.		
34 71 13 26-0062	EA	Standard Post For Corrugated Thrie Beam Guide Rail	402.04	3.15
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For 32" Soil Plate, Add	*7.00*	
34 71 13 26-0063	EA	Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail	420.12	3.15
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For 32" Soil Plate, Add	*7.00*	
34 71 13 26-0064		**Timber Guide Rails** *(34 71 13 26)*		
		Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065		**Timber Guide Rail Posts** *(34 71 13 26-0064)*		
34 71 13 26-0066	EA	6" x 8" Timber Guide Rail Post	121.21	12.49
34 71 13 26-0067	EA	6" x 9" Timber Guide Rail Post	138.62	12.49
34 71 13 26-0068	EA	10" x 10" Timber Guide Rail Post	275.06	12.49
34 71 13 26-0069	EA	10" x 12" Timber Guide Rail Post	291.33	12.49
34 71 13 26-0070	EA	12" x 12" Timber Guide Rail Post	337.72	12.49
34 71 13 26-0071		**Timber Guide Rails** *(34 71 13 26-0064)*		
		Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072	LF	4" x 9" Timber Guide Rail	15.06	1.50
34 71 13 26-0073	LF	6" x 10" Timber Guide Rail	21.33	1.50
34 71 13 26-0074	LF	6" x 12" Timber Guide Rail	25.00	1.50
34 71 13 26-0075		**Spacer Blocks For Timber Guide Rails** *(34 71 13 26-0064)*		
34 71 13 26-0076	EA	4" x 9" Spacer Block For Timber Guide Rails	19.59	2.00
34 71 13 26-0077	EA	6" x 8" Spacer Block For Timber Guide Rails	22.60	2.00
34 71 13 26-0078	EA	8" x 8" Spacer Block For Timber Guide Rails	26.43	2.00
34 71 13 26-0079		**Weathering Steel Backup Plates For Timber Guide Rails** *(34 71 13 26-0064)*		
34 71 13 26-0080	LF	6" High, Weathering Steel Backup Plate For Timber Guide Rails	27.60	1.25
34 71 13 26-0081		**Weathering Steel Splice And Bearing Plates For Timber Guide Rails** *(34 71 13 26-0064)*		
34 71 13 26-0082	EA	Weathering Steel Splice Plate For Timber Guide Rails	190.09	17.49
34 71 13 26-0083	EA	Weathering Steel Bearing Termination Plate For Timber Guide Rails	118.89	12.49
34 71 13 26-0084		**Cable Guide Rail** *(34 71 13 26)*		
34 71 13 26-0085		**Cable Guide Rail** *(34 71 13 26-0084)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0086	LF	Cable (Each Cable) Note: Includes tensioning. Excludes splices.	19.03	2.70
34 71 13 26-0087	EA	Cable Splice With Wedges	567.50	18.74
34 71 13 26-0088		**Cable Guide Rail Posts** *(34 71 13 26-0084)* Note: Includes hardware for cable mounting.		
34 71 13 26-0089	EA	Standard Post for Cable Guide Rail	351.14	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0090	EA	Standard Post (Rustic) for Cable Guide Rail	369.23	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0091	EA	Extra Long Post for Cable Guide Rail	369.23	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0092	EA	Extra Long Post (Rustic) for Cable Guide Rail	387.31	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0093	EA	Slip Impact Post Top for Anchor Unit	248.96	23.97
34 71 13 26-0094	EA	Slip Impact Post Base and Keeper Plate Note: For anchor unit.	701.05	23.97
34 71 13 26-0095		**Cable Guide Rail Accessories For Breakaway Anchor Angle Systems** *(34 71 13 26-0084)*		
34 71 13 26-0096	EA	Turnbuckle Cable End Assembly For Use With Breakaway Anchors	948.67	250.37
34 71 13 26-0097	EA	Turnbuckle Cable End Assembly	378.36	12.51
34 71 13 26-0098	EA	Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors	1,274.14	6.22
34 71 13 26-0099	EA	Spring Cable End Assembly (Compensating Device) Without Turnbuckle	1,310.31	6.22
34 71 13 26-0100	EA	Breakaway Anchor Angle	486.86	12.51
34 71 13 26-0101	EA	Standard End Post Cap Assembly	225.29	6.22
34 71 13 26-0102	EA	Driveway End Post Cap Assembly	189.13	6.22
34 71 13 26-0103	EA	End Post Ground Support Plates	98.71	6.22
34 71 13 26-0104	EA	11" Stud Bolt, Cable Guide Rail	85.15	6.22
34 71 13 26-0105	EA	18" Stud Bolt, Cable Guide Rail	103.23	6.22
34 71 13 26-0106	EA	25" Stud Bolt, Cable Guide Rail	121.31	6.22
34 71 13 26-0107	EA	1-1/4" Diameter Turnbuckle, Cable Guide Rail	1,101.71	12.51
34 71 13 26-0108	EA	1-1/2" Diameter Turnbuckle, Cable Guide Rail	1,174.04	12.51
34 71 13 26-0109	EA	5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail	776.20	12.51
34 71 13 26-0110	EA	5/8" Eye Bolt 18" Long, Cable Guide Rail	478.46	6.22
34 71 13 26-0111	EA	3/4" Eye Bolt 8'-6" Long, Cable Guide Rail	486.86	12.51
34 71 13 26-0112	EA	1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail	513.25	18.74
34 71 13 26-0113		**Cable Guide Rail Accessories For Slip Impact Post Systems** *(34 71 13 26-0084)*		
34 71 13 26-0114	EA	Turnbuckle Cable End Assembly Note: For use with slip impact post.	876.62	20.02
34 71 13 26-0115	EA	Spring Cable End Assembly (Compensating Device) Note: For use with slip impact post.	1,744.63	20.02
34 71 13 26-0116	EA	Anchor Angle For Slip Impact Post System	496.86	20.02
34 71 13 26-0117	EA	Cable End Assembly Rod Note: Includes cable end, threaded rod and keeper to anchor angle.	406.45	20.02
34 71 13 26-0118		**Cable Guide Rail Repair For Existing Guide Rail** *(34 71 13 26-0084)* Note: Includes associated hardware.		
34 71 13 26-0119	LF	Retention Existing Cable (Each Cable)	1.67	
34 71 13 26-0120	LF	Removal And Storage Of Cable Guide Railing	10.06	
34 71 13 26-0121	EA	Install Stored Post For Cable Guide Railing	79.89	
34 71 13 26-0122	LF	Install Stored Cable, (Each Cable) Note: Includes retensioning. Excludes splices.	4.45	
34 71 13 26-0123		**6" x 6" Box Beam Guide Rail** *(34 71 13 26)*		
34 71 13 26-0124		**Box Beam Guide Rail, 6" x 6"** *(34 71 13 26-0123)*		
34 71 13 26-0125		**Straight Sections, Box Beam Guide Rail** *(34 71 13 26-0124)*		
34 71 13 26-0126	LF	Box Beam Guide Railing 6" x 6" x 3/16" Galvanized Note: Excludes splices.	117.19	3.15
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0127	LF	Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices.	133.73	3.15
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0128	LF	Box Beam Guide Railing 8" x 6" x 3/16" Galvanized Note: Excludes splices	139.83	3.15
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0129		**Shop Curved, Box Beam Guide Rail** *(34 71 13 26-0124)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0130	LF	Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized Note: Excludes splices.	180.58	3.15
		For Shop Curved At <20' Radius, Add	*2.44*	
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0131	LF	Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices.	197.12	3.15
		For Shop Curved At <20' Radius, Add	*2.44*	
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0132	LF	Shop Curved Box Beam Guide Railing 8" x 6" x 3/16" Galvanized Note: Excludes splices.	215.78	3.15
		For Shop Curved At <20' Radius, Add	*2.44*	
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0133		**Box Beam Guide Rail End Treatment Sections** *(34 71 13 26-0123)* Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0134	EA	Box Beam End Piece Guide Railing Section Note: Galvanized excludes splices.	1,858.33	37.48
34 71 13 26-0135	EA	Box Beam End Piece Guide Railing Section (Rustic) Note: Excludes splices.	2,057.25	37.48
34 71 13 26-0136	EA	Box Beam Guide Railing End Treatment Section At Driveway, Galvanized Note: Excludes splices.	1,749.83	37.48
34 71 13 26-0137	EA	Box Beam Guide Railing End Treatment Section At Driveway, (Rustic) Note: Excludes splices.	1,822.16	37.48
34 71 13 26-0138	EA	Box Beam Guiderail End Assembly Note: Includes all components for the first 14'. Includes energy absorbing terminal, bearing plate, steel breakaway post upper and lower assembly, interior sleeve, box beam, post breaker, cable assembly, end tube rail, end tube tie plate, post 1 and post 2.	52,558.77	999.49
34 71 13 26-0139		**Splices For Box Beam Guide Rail** *(34 71 13 26-0123)*		
34 71 13 26-0140	EA	Splice For Box Beam Guide Rail	382.53	55.64
34 71 13 26-0141	EA	Splice For Box Beam Guide Rail (Rustic)	509.12	55.64
34 71 13 26-0142		**Box Beam Guide Rail Posts** *(34 71 13 26-0123)* Note: Includes hardware for box beam mounting.		
34 71 13 26-0143	EA	Standard Post For Box Beam Guide Rail	369.23	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0144	EA	Standard Post (Rustic) for Box Beam Guide Railing	387.31	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0145	EA	Extra Long Post For Box Beam Guide Rail	405.39	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0146	EA	Extra Long Post (Rustic) For Box Beam Guide Rail	423.48	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0147	EA	Type I End Assembly Post	351.14	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0148	EA	Type I End Assembly Post (Rustic)	369.23	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0149	EA	Type II End Assembly Post	333.06	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0150	EA	Type II End Assembly Post (Rustic)	351.14	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0151		**Box Beam Guide Rail Accessories** *(34 71 13 26-0123)*		
34 71 13 26-0152	EA	Box Beam Guide Rail End Cover Plate	232.00	11.25
34 71 13 26-0153	EA	Box Beam Guide Rail End Cover Plate (Rustic)	250.09	11.25
34 71 13 26-0154		**Box Beam Guide Railing Repair, And Resetting** *(34 71 13 26-0123)* Note: For existing guide rail.		
34 71 13 26-0155	LF	Removal And Storage Of Box Beam Guide Rail And Post	4.93	
34 71 13 26-0156	LF	Reset Box Beam Guide Rail	14.41	
34 71 13 26-0157		**6" x 8" Box Beam Median Barrier** *(34 71 13 26)*		
34 71 13 26-0158		**Box Beam Median Barrier, 6" x 8"** *(34 71 13 26-0157)*		
34 71 13 26-0159		**Straight Sections, Box Beam Median Barrier** *(34 71 13 26-0158)*		
34 71 13 26-0160	LF	Box Beam Median Barrier Galvanized Excludes Splices	188.62	11.25
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0161	LF	Box Beam Median Barrier (Rustic) Excludes Splices	205.16	11.25
		For Flush Mounting Directly To Structure, Add	*1.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0162		**Shop Curved, Box Beam Median Barrier** *(34 71 13 26-0158)*		
34 71 13 26-0163	LF	Shop Curved Box Beam Median Barrier Galvanized Note: Excludes splices.	232.08	11.25
		For Shop Curved At <20' Radius, Add	*2.44*	
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0164	LF	Shop Curved Box Beam Median Barrier Rustic Note: Excludes splices.	286.35	11.25
		For Shop Curved At <20' Radius, Add	*2.44*	
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0165		**Box Beam Median Barrier End Treatment Sections** *(34 71 13 26-0157)* Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0166	EA	Box Beam Median Barrier Type A End Treatment Section, Galvanized Note: Excludes splices and post.	6,180.31	37.48
34 71 13 26-0167	EA	Box Beam Median Barrier Type A End Treatment Section (Rustic) Note: Excludes splices and post.	6,324.98	37.48
34 71 13 26-0168	EA	Box Beam Median Barrier Type B End Treatment Section, Galvanized Note: Excludes splices and post.	6,180.31	37.48
34 71 13 26-0169	EA	Box Beam Median Barrier Type B End Treatment Section (Rustic) Note: Excludes splices and post.	6,324.98	37.48
34 71 13 26-0170		**Splices For Box Beam Median Barrier** *(34 71 13 26-0157)*		
34 71 13 26-0171	EA	Splice for Box Beam Median Barrier	437.82	29.98
34 71 13 26-0172	EA	Splice for Box Beam Median Barrier (Rustic)	709.07	29.98
34 71 13 26-0173		**Box Beam Median Barrier Posts Driven With Soil Plate** *(34 71 13 26-0157)* Note: Includes all associated hardware.		
34 71 13 26-0174	EA	Standard Post for Box Beam Median Barrier	369.23	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0175	EA	Standard Post (Rustic) for Box Beam Median Barrier	387.31	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0176	EA	Extra Long Post for Box Beam Median Barrier	405.39	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0177	EA	Extra Long Post (Rustic) for Box Beam Median Barrier	423.48	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0178	EA	Type B End Treatment or Rub Back Anchor Post for Box Beam Note: For median barrier.	333.06	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0179	EA	Type B End Treatment or Rub Back Anchor Post (Rustic) Note: For box beam median barrier.	333.06	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0180	EA	Type I End Assembly Post for Box Beam Median Barrier to Concrete Note: For median barrier transition.	405.39	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0181	EA	Type I End Assembly Post (Rustic) for Box Beam Median Barrier Note: For Concrete median barrier transition.	423.48	59.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*15.98*	
34 71 13 26-0182		**Box Beam Median Barrier Accessories** *(34 71 13 26-0157)*		
34 71 13 26-0183	EA	Box Beam Median Barrier End Cover Plate	266.02	26.39
34 71 13 26-0184	EA	Box Beam Median Barrier End Cover Plate (Rustic)	284.11	26.39
34 71 13 26-0185		**Box Beam Median Barrier Repair, And Resetting** *(34 71 13 26-0157)* Note: For existing guide rail.		
34 71 13 26-0186	LF	Removal And Storage Of Box Beam Median Barrier and Posts	5.10	
34 71 13 26-0187	LF	Reset Box Beam Median Barrier	15.09	
34 71 13 26-0188		**Universal Guide Rail Items** *(34 71 13 26)*		
34 71 13 26-0189		**Guide Rail Concrete Anchor Units For All Types Of Guide Rail** *(34 71 13 26-0188)* Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0190	CY	Guide Rail Concrete Anchor Unit	866.07	
		For Each Additional Set Of Anchor Rods, Add	*38.00*	
34 71 13 26-0191	EA	Reset Existing Anchorage Unit for All Types of Guide Rail Note: Includes excavation and backfill.	573.15	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0192	EA	Removal Of Guide Rail Concrete Anchor Unit	653.88	
34 71 13 26-0193		**Guide Rail Repair For All Types Of Existing Guide Rail** *(34 71 13 26-0188)*		
		Note: Includes associated hardware.		
34 71 13 26-0194	EA	Straighten And Reset Driven Post For Guide Rail	79.89	
34 71 13 26-0195	EA	Straighten And Reset Post Mounted On Concrete For Guide Rail	105.93	
		Note: With base plate for guide rail. Includes new anchor bolts.		
34 71 13 26-0196		**Additional Wood and Steel Posts** *(34 71 13 26-0188)*		
34 71 13 26-0197	LF	4" x 6" Wood Post	112.58	20.02
		For Installation In Rock, Add	*5.34*	
34 71 13 26-0198	LF	6" x 8" Wood Post	139.70	20.02
		For Installation In Rock, Add	*5.34*	
34 71 13 26-0199	LF	6" x 7/8" Galvanized Steel Post	77.92	20.02
		For Installation In Rock, Add	*5.34*	
34 71 13 26-0200	EA	Base Plate With Anchor Bolts For Mounting Post On Concrete	845.57	20.02
34 71 13 26-0201		**Accessories For All Types of Guide Rail** *(34 71 13 26-0188)*		
34 71 13 26-0202	EA	Reflector For Guard Rail	112.70	
34 71 13 26-0203		**Resilient Guard Fence And Light Shield** *(34 71 13 26)*		
34 71 13 26-0204	LF	Resilient Guard Fence And Light Shield, Up To 6' High	93.43	7.69
34 71 13 26-0205		**Individual Concrete Guard Rail Posts** *(34 71 13 26)*		
34 71 13 26-0206	EA	6'-5" Concrete Guard Rail Posts, Round	94.07	7.69
34 71 13 26-0207	EA	6'-5" Concrete Posts, Square	105.23	8.64
34 71 13 26-0208	EA	6'-5" Concrete Posts, Triangular	102.49	8.64
34 71 13 26-0209		**Guide Rail Transitions** *(34 71 13 26)*		
34 71 13 26-0210		**Transition Box Beam Guide Rail To Corrugated Beam** *(34 71 13 26-0209)*		
34 71 13 26-0211	EA	Box Beam To Corrugated Beam Rail Bolted Section	1,418.85	
34 71 13 26-0212	EA	Box Beam To Corrugated Beam Rail Bolted Plate	695.50	
		Note: For making cable connections.		
34 71 13 26-0213		**Transition Box Beam Median Barrier To Corrugated Beam Median** *(34 71 13 26-0209)*		
34 71 13 26-0214	EA	Box Beam Median Barrier To Corrugated Beam Bolted Section	1,455.01	
34 71 13 26-0215	EA	Box Beam Median Barrier To Corrugated Beam Harness Plate	695.50	
		Note: For making cable connections.		
34 71 13 26-0216		**Transition Box Beam Guide Rail To Cable Guide Rail** *(34 71 13 26-0209)*		
34 71 13 26-0217	EA	Box Beam to Cable Guide Rail U-bolt And Plate	214.22	19.99
34 71 13 26-0218		**Transition Box Beam Median Barrier To Concrete Median Barrier** *(34 71 13 26-0209)*		
34 71 13 26-0219	EA	Box Beam Median Barrier To Concrete Barrier End Connection	2,142.19	
34 71 13 26-0220		**Transition Thrie Beam To Concrete Median Barrier** *(34 71 13 26-0209)*		
34 71 13 26-0221	EA	Thrie Beam Terminal Connector At Concrete Median Barrier	1,238.01	
34 71 13 26-0222	EA	Thrie Beam Transition Section To Corrugated Beam Guide Rail	1,690.10	
34 71 16		**Impact Attenuating Devices** *(34 71)*		
34 71 16 00-0001		**Guard Rail Energy Absorbing Terminals** *(34 71 16)*		
		Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. One Bay consists of one Cartridge, one Diaphragm, and two Fender Panels. The Nose section is not considered a Bay, though there is a Cartridge in the Nose of each system. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002		**24" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
		Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0003	EA	24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	40,757.62	3,956.65
34 71 16 00-0004	EA	24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	56,665.28	5,275.54
34 71 16 00-0005	EA	24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	77,411.07	6,924.14
34 71 16 00-0006	EA	24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	85,801.68	8,572.76
34 71 16 00-0007		**30" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
		Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0008	EA	30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	43,835.45	4,451.24
34 71 16 00-0009	EA	30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	61,136.44	5,934.98
34 71 16 00-0010	EA	30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	83,970.71	7,913.31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 16 00-0011	EA	30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	96,028.84	9,561.92
34 71 16 00-0012		**36" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
		Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0013	EA	36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	46,950.32	4,945.82
34 71 16 00-0014	EA	36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	65,643.77	6,594.43
34 71 16 00-0015	EA	36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	89,835.76	8,737.61
34 71 16 00-0016	EA	36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	106,217.93	10,551.08
34 71 16 00-0017		**69" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
		Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0018	EA	69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	50,817.42	5,440.40
34 71 16 00-0019	EA	69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	70,444.37	7,253.87
34 71 16 00-0020	EA	69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	96,872.09	9,561.92
34 71 16 00-0021	EA	69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	113,985.80	11,540.25
34 71 16 00-0022		**90" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
		Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0023	EA	90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	54,793.74	5,934.98
34 71 16 00-0024	EA	90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	75,373.24	7,913.31
34 71 16 00-0025	EA	90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	104,824.73	10,551.08
34 71 16 00-0026	EA	90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	121,978.62	12,529.41
34 71 19		**Vehicle Delineators** *(34 71)*		
34 71 19 16		**Flexible Vehicle Delineators** *(34 71 19)*		
34 71 19 16-0001	EA	2' High, 3" Diameter Flexible Fixed Stanchion Delineator	100.77	9.60
34 71 19 16-0002	EA	3' High, 3" Diameter Flexible Fixed Stanchion Delineator	102.20	9.60
34 71 19 16-0003	EA	3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator	103.63	9.60
34 71 19 16-0004	EA	4' High, 3" Diameter Flexible Fixed Stanchion Delineator	105.06	9.60
34 80		**Bridges** *(34)*		
34 82		**Bridge Specialties** *(34 80)*		
34 82 23		**Bridge Railing** *(34 82)*		
34 82 23 00-0001		**Metal Bridge Railing** *(34 82 23)*		
		Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002	LF	2" x 2" x 1/8" Bridge Railing	47.70	4.16
34 82 23 00-0003	LF	3" x 3" x 5/16" Bridge Railing	86.37	6.48
34 82 23 00-0004	LF	5" x 3" x 1/4" Bridge Railing	108.49	9.49
34 82 23 00-0005	LF	6" x 6" x 3/16" Bridge Railing	141.59	11.95
34 82 23 00-0006	LF	5" Outside Diameter x 1/4" Bridge Railing	116.23	9.22
34 82 23 00-0007		**Bridge Post** *(34 82 23)*		
		Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008	EA	6" x 9" x 5'-6" Bridge Post	213.46	53.18
34 82 23 00-0009	EA	6" x 9" x 7' Bridge Post	277.97	56.50
34 82 23 00-0010	EA	Two Rail With Base Plate Bridge Post Assembly	679.61	99.70
34 82 23 00-0011	EA	Two Rail With Curb Bridge Post Assembly	855.30	106.34
34 82 23 00-0012	EA	Two Rail (Curbless) Bridge Post Assembly	768.43	106.34
34 82 23 00-0013	EA	Two Rail With Optional Handrail Bridge Post Assembly	953.35	106.34
34 82 23 00-0014	EA	Three Rail With Base Plate Bridge Post Assembly	700.62	106.34
34 82 23 00-0015	EA	Three Rail With Curb Bridge Post Assembly	999.94	109.67
34 82 23 00-0016	EA	Three Rail (Curbless) Bridge Post Assembly	977.04	109.67
34 82 23 00-0017	EA	Three Rail With Optional Handrail Bridge Post Assembly	1,237.07	109.67
34 82 23 00-0018	EA	Four Rail (Curbless) With Base Plate Bridge Post	785.89	112.99
34 82 23 00-0019	EA	Four Rail With Base Plate (Sidewalk Type) Bridge Post	786.14	112.99
34 82 23 00-0020	EA	Four Rail With Curb Bridge Post Assembly	1,250.88	112.99
34 82 23 00-0021	EA	Four Rail (Curbless) Bridge Post Assembly	1,288.64	112.99
34 82 23 00-0022	EA	Five Rail With Base Plate (Curbless) Bridge Post Assembly	882.01	119.64
34 82 23 00-0023		**Bridge Railing Splices** *(34 82 23)*		
		Note: Includes hardware for splices.		
34 82 23 00-0024	EA	5" Outside Diameter Bridge Railing Splice	396.39	25.62
34 82 23 00-0025	EA	5" x 3" Bridge Railing Splice	226.16	22.42
34 82 23 00-0026	EA	3" x 3" Bridge Railing Splice	136.20	16.01
34 82 23 00-0027	EA	2" x 2" Bridge Railing Splice	64.86	11.52
34 82 23 00-0028	EA	5" x 5" x 3' Expansion Splice Tube	293.88	24.77
34 82 23 00-0029	EA	4" x 2" x 3' Expansion Splice Bar	315.10	24.77
34 82 23 00-0030	EA	5" x 5" x 2' Fixed Splice Tube	265.95	24.77
34 82 23 00-0031	EA	4" x 2" x 2' Fixed Splice Bar	273.63	24.77
34 82 23 00-0032	EA	6" x 6' x 3/16" Box x 9' Flare Tube	396.79	33.46

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 82 23 00-0033		**Transition For Bridge Railing** *(34 82 23)*		
		Note: Includes hardware for transition for bridge railing.		
34 82 23 00-0034	EA	Two Rail Box Beam To Bridge Transition With Splices	1,621.76	132.93
34 82 23 00-0035	EA	Three Rail Box Beam To Bridge Transition With Splices	1,728.21	139.58
34 82 23 00-0036	EA	Four Rail Box Beam To Bridge Transition With Splices	2,035.75	146.22
34 82 23 00-0037	EA	6" x 6" x 16-1/2' Bottom Transition Tube	672.35	66.47
34 82 23 00-0038	EA	6" x 6" x 22' Bottom Transition Tube	839.79	73.12
34 82 23 00-0039	EA	8" x 6" x 16-1/2' Bottom Transition Tube	797.31	66.47
34 82 23 00-0040	EA	6" x 6" x 16-1/2' Top Transition Tube	691.13	66.47
34 82 23 00-0041	EA	6" x 6" x 21-1/2' Top Transition Tube	824.28	73.12
34 82 23 00-0042	EA	8" x 6" x 16-1/2' Top Transition Tube	820.62	66.47
34 82 23 00-0043	EA	6" x 6" x 16-1/2' Middle Transition Tube	646.60	66.47
34 82 23 00-0044	EA	8" x 6" x 16-1/2' Middle Transition Tube	808.96	66.47
34 82 23 00-0045		**Anchor Plates And End Caps For Bridge Railing** *(34 82 23)*		
34 82 23 00-0046	EA	14" x 14" Bridge Railing Anchor Plate	71.91	6.41
34 82 23 00-0047	EA	18" x 22" Deck Anchor Plate	441.76	32.03
34 82 23 00-0048	EA	2" x 2" Bridge Railing End Cap	60.72	3.21
34 82 23 00-0049	EA	3" x 3" Bridge Railing End Cap	36.59	3.21
34 82 23 00-0050	EA	5" O.D Bridge Railing End Cap	36.31	3.21
34 82 26		**Bridge Slope Protection** *(34 82)*		
34 82 26 00-0001		**Bridge Slope Protection** *(34 82 26)*		
		Note: Solid concrete masonry unit installed in sand bedding.		
34 82 26 00-0002	SF	8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection	16.07	6.05
34 82 26 00-0003	SF	8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection	19.25	6.67
34 82 26 00-0004	SF	8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection	21.33	7.09
34 82 29		**Bridge Drainage** *(34 82)*		
34 82 29 00-0001		**Bridge Scuppers** *(34 82 29)*		
		Note: Includes anchors and hardware. Excludes formwork and concrete for setting replacement scupper. Demolition includes saw cutting and concrete removal. As manufactured by Syracuse Castings.		
34 82 29 00-0002	EA	Type A2, 18-1/2" x 6-7/8" Galvanized Steel Bridge Scupper	2,548.02	194.99
34 82 29 00-0003	EA	Type B2, 22-1/3" x 18-3/4" Galvanized Steel Bridge Scupper, With Grate	3,618.26	243.74
34 82 29 00-0004	EA	21-1/8" x 17-1/2" Galvanized Steel Grate For Type B2 Scupper	428.84	24.37
34 82 29 00-0005	EA	2" Bridge Scupper Pavement Riser	810.16	
34 82 29 00-0006		**Bridge Downspout** *(34 82 29)*		
		Note: Includes anchors and hardware.		
34 82 29 00-0007	LF	7" x 5" x 1/2" Galvanized Steel Bridge Downspout	193.32	9.63
34 82 29 00-0008	LF	6" x 6" x 1/2" Galvanized Steel Bridge Downspout	193.32	9.63

END OF SECTION 34

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

35 Waterway and Marine Construction

35 01 Operation and Maintenance of Waterway and Marine Construction *(35)*

35 01 50 Operation And Maintenance of Marine Construction *(35 01)*

35 01 50 10 Cleaning Of Marine Pier Piles *(35 01 50)*

35 01 50 10-0001 Clean Wood Piles From Boat *(35 01 50 10)*

Note: Exposed piles pressure washing from boat

35 01 50 10-0002	EA	Clean 8" Diameter, 5' Length, Wood Piles From Boat	137.12
35 01 50 10-0003	EA	Clean 8" Diameter, >5' To 10' Length, Wood Piles From Boat	259.10
35 01 50 10-0004	EA	Clean 8" Diameter, >10' To 15' Length, Wood Piles From Boat	358.76
35 01 50 10-0005	EA	Clean 10" Diameter, 5' Length, Wood Piles From Boat	169.62
35 01 50 10-0006	EA	Clean 10" Diameter, >5' To 10' Length, Wood Piles From Boat	321.61
35 01 50 10-0007	EA	Clean 10" Diameter, >10' To 15' Length, Wood Piles From Boat	466.31
35 01 50 10-0008	EA	Clean 12" Diameter, 5' Length, Wood Piles From Boat	202.70
35 01 50 10-0009	EA	Clean 12" Diameter, >5' To 10' Length, Wood Piles From Boat	388.64
35 01 50 10-0010	EA	Clean 12" Diameter, >10' To 15' Length, Wood Piles From Boat	548.64
35 01 50 10-0011	EA	Clean 14" Diameter, 5' Length, Wood Piles From Boat	239.13
35 01 50 10-0012	EA	Clean 14" Diameter, >5' To 10' Length, Wood Piles From Boat	444.16
35 01 50 10-0013	EA	Clean 14" Diameter, >10' To 15' Length, Wood Piles From Boat	621.80

35 01 50 10-0014 Clean Concrete Piles From Boat *(35 01 50 10)*

Note: Exposed piles pressure washing from boat

35 01 50 10-0015	EA	Clean 12" Diameter, 5' Length, Concrete Piles From Boat	166.56
35 01 50 10-0016	EA	Clean 12" Diameter, >5' To 10' Length, Concrete Piles From Boat	321.61
35 01 50 10-0017	EA	Clean 12" Diameter, >10' To 15' Length, Concrete Piles From Boat	466.31
35 01 50 10-0018	EA	Clean 14" Diameter, 5' Length, Concrete Piles From Boat	194.24
35 01 50 10-0019	EA	Clean 14" Diameter, >5' To 10' Length, Concrete Piles From Boat	373.04
35 01 50 10-0020	EA	Clean 14" Diameter, >10' To 15' Length, Concrete Piles From Boat	518.19
35 01 50 10-0021	EA	Clean 16" Diameter, 5' Length, Concrete Piles From Boat	222.08
35 01 50 10-0022	EA	Clean 16" Diameter, >5' To 10' Length, Concrete Piles From Boat	423.91
35 01 50 10-0023	EA	Clean 16" Diameter, >10' To 15' Length, Concrete Piles From Boat	582.89
35 01 50 10-0024	EA	Clean 18" Diameter, 5' Length, Concrete Piles From Boat	252.10
35 01 50 10-0025	EA	Clean 18" Diameter, >5' To 10' Length, Concrete Piles From Boat	466.31
35 01 50 10-0026	EA	Clean 18" Diameter, >10' To 15' Length, Concrete Piles From Boat	666.09
35 01 50 10-0027	EA	Clean 20" Diameter, 5' Length, Concrete Piles From Boat	274.25
35 01 50 10-0028	EA	Clean 20" Diameter, >5' To 10' Length, Concrete Piles From Boat	518.19
35 01 50 10-0029	EA	Clean 20" Diameter, >10' To 15' Length, Concrete Piles From Boat	777.14
35 01 50 10-0030	EA	Clean 24" Diameter, 5' Length, Concrete Piles From Boat	333.12
35 01 50 10-0031	EA	Clean 24" Diameter, >5' To 10' Length, Concrete Piles From Boat	621.80
35 01 50 10-0032	EA	Clean 24" Diameter, >10' To 15' Length, Concrete Piles From Boat	932.62
35 01 50 10-0033	EA	Clean 30" Diameter, 5' Length, Concrete Piles From Boat	411.95
35 01 50 10-0034	EA	Clean 30" Diameter, >5' To 10' Length, Concrete Piles From Boat	777.21
35 01 50 10-0035	EA	Clean 30" Diameter, >10' To 15' Length, Concrete Piles From Boat	1,132.48
35 01 50 10-0036	EA	Clean 36" Diameter, 5' Length, Concrete Piles From Boat	490.80
35 01 50 10-0037	EA	Clean 36" Diameter, >5' To 10' Length, Concrete Piles From Boat	932.62
35 01 50 10-0038	EA	Clean 36" Diameter, >10' To 15' Length, Concrete Piles From Boat	1,332.34
35 01 50 10-0039	EA	Clean 42" Diameter, 5' Length, Concrete Piles From Boat	562.34
35 01 50 10-0040	EA	Clean 42" Diameter, >5' To 10' Length, Concrete Piles From Boat	1,032.56
35 01 50 10-0041	EA	Clean 42" Diameter, >10' To 15' Length, Concrete Piles From Boat	1,465.58
35 01 50 10-0042	EA	Clean 48" Diameter, 5' Length, Concrete Piles From Boat	633.90
35 01 50 10-0043	EA	Clean 48" Diameter, >5' To 10' Length, Concrete Piles From Boat	1,132.48
35 01 50 10-0044	EA	Clean 48" Diameter, >10' To 15' Length, Concrete Piles From Boat	1,598.79
35 01 50 10-0045	EA	Clean 54" Diameter, 5' Length, Concrete Piles From Boat	777.14
35 01 50 10-0046	EA	Clean 54" Diameter, >5' To 10' Length, Concrete Piles From Boat	1,332.34
35 01 50 10-0047	EA	Clean 54" Diameter, >10' To 15' Length, Concrete Piles From Boat	1,865.24
35 01 50 10-0048	EA	Clean 60" Diameter, 5' Length, Concrete Piles From Boat	854.95
35 01 50 10-0049	EA	Clean 60" Diameter, >5' To 10' Length, Concrete Piles From Boat	1,443.38
35 01 50 10-0050	EA	Clean 60" Diameter, >10' To 15' Length, Concrete Piles From Boat	2,098.40
35 01 50 10-0051	EA	Clean 66" Diameter, 5' Length, Concrete Piles From Boat	932.62
35 01 50 10-0052	EA	Clean 66" Diameter, >5' To 10' Length, Concrete Piles From Boat	1,554.42
35 01 50 10-0053	EA	Clean 66" Diameter, >10' To 15' Length, Concrete Piles From Boat	2,331.56
35 01 50 10-0054	EA	Clean 10" Square, 5' Length, Concrete Piles From Boat	176.04
35 01 50 10-0055	EA	Clean 10" Square, >5' To 10' Length, Concrete Piles From Boat	333.12
35 01 50 10-0056	EA	Clean 10" Square, >10' To 15' Length, Concrete Piles From Boat	490.80
35 01 50 10-0057	EA	Clean 12" Square, 5' Length, Concrete Piles From Boat	212.03
35 01 50 10-0058	EA	Clean 12" Square, >5' To 10' Length, Concrete Piles From Boat	405.54
35 01 50 10-0059	EA	Clean 12" Square, >10' To 15' Length, Concrete Piles From Boat	582.89
35 01 50 10-0060	EA	Clean 14" Square, 5' Length, Concrete Piles From Boat	245.40
35 01 50 10-0061	EA	Clean 14" Square, >5' To 10' Length, Concrete Piles From Boat	466.31
35 01 50 10-0062	EA	Clean 14" Square, >10' To 15' Length, Concrete Piles From Boat	666.09
35 01 50 10-0063	EA	Clean 16" Square, 5' Length, Concrete Piles From Boat	282.55
35 01 50 10-0064	EA	Clean 16" Square, >5' To 10' Length, Concrete Piles From Boat	548.64
35 01 50 10-0065	EA	Clean 16" Square, >10' To 15' Length, Concrete Piles From Boat	777.14

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 01 50 10-0066	EA	Clean 18" Square, 5' Length, Concrete Piles From Boat	321.61	
35 01 50 10-0067	EA	Clean 18" Square, >5' To 10' Length, Concrete Piles From Boat	621.80	
35 01 50 10-0068	EA	Clean 18" Square, >10' To 15' Length, Concrete Piles From Boat	847.81	
35 01 50 10-0069	EA	Clean 20" Square, 5' Length, Concrete Piles From Boat	352.09	
35 01 50 10-0070	EA	Clean 20" Square, >5' To 10' Length, Concrete Piles From Boat	666.09	
35 01 50 10-0071	EA	Clean 20" Square, >10' To 15' Length, Concrete Piles From Boat	932.62	
35 01 50 10-0072	EA	Clean 24" Square, 5' Length, Concrete Piles From Boat	423.91	
35 01 50 10-0073	EA	Clean 24" Square, >5' To 10' Length, Concrete Piles From Boat	777.14	
35 01 50 10-0074	EA	Clean 24" Square, >10' To 15' Length, Concrete Piles From Boat	1,165.77	
35 01 50 10-0075	EA	Clean 14" Diameter Octagonal, 5' Length, Concrete Piles From Boat	186.52	
35 01 50 10-0076	EA	Clean 14" Diameter Octagonal, >5' To 10' Length, Concrete Piles From Boat	358.76	
35 01 50 10-0077	EA	Clean 14" Diameter Octagonal, >10' To 15' Length, Concrete Piles From Boat	518.19	
35 01 50 10-0078	EA	Clean 16" Diameter Octagonal, 5' Length, Concrete Piles From Boat	212.03	
35 01 50 10-0079	EA	Clean 16" Diameter Octagonal, >5' To 10' Length, Concrete Piles From Boat	405.54	
35 01 50 10-0080	EA	Clean 16" Diameter Octagonal, >10' To 15' Length, Concrete Piles From Boat	582.89	
35 01 50 10-0081	EA	Clean 18" Diameter Octagonal, 5' Length, Concrete Piles From Boat	239.13	
35 01 50 10-0082	EA	Clean 18" Diameter Octagonal, >5' To 10' Length, Concrete Piles From Boat	466.31	
35 01 50 10-0083	EA	Clean 18" Diameter Octagonal, >10' To 15' Length, Concrete Piles From Boat	666.09	
35 01 50 10-0084	EA	Clean 20" Diameter Octagonal, 5' Length, Concrete Piles From Boat	266.53	
35 01 50 10-0085	EA	Clean 20" Diameter Octagonal, >5' To 10' Length, Concrete Piles From Boat	518.19	
35 01 50 10-0086	EA	Clean 20" Diameter Octagonal, >10' To 15' Length, Concrete Piles From Boat	717.39	
35 01 50 10-0087	EA	Clean 24" Diameter Octagonal, 5' Length, Concrete Piles From Boat	321.61	
35 01 50 10-0088	EA	Clean 24" Diameter Octagonal, >5' To 10' Length, Concrete Piles From Boat	621.80	
35 01 50 10-0089	EA	Clean 24" Diameter Octagonal, >10' To 15' Length, Concrete Piles From Boat	847.81	

35 01 50 10-0090 Clean Steel Piles From Boat *(35 01 50 10)*

Note: Exposed piles pressure washing from boat

35 01 50 10-0091	EA	Clean 8" Diameter, 5' Length, Steel Piles From Boat	160.73	
35 01 50 10-0092	EA	Clean 8" Diameter, >5' To 10' Length, Steel Piles From Boat	300.92	
35 01 50 10-0093	EA	Clean 8" Diameter, >10' To 15' Length, Steel Piles From Boat	423.91	
35 01 50 10-0094	EA	Clean 10" Diameter, 5' Length, Steel Piles From Boat	202.70	
35 01 50 10-0095	EA	Clean 10" Diameter, >5' To 10' Length, Steel Piles From Boat	388.64	
35 01 50 10-0096	EA	Clean 10" Diameter, >10' To 15' Length, Steel Piles From Boat	518.19	
35 01 50 10-0097	EA	Clean 12" Diameter, 5' Length, Steel Piles From Boat	245.40	
35 01 50 10-0098	EA	Clean 12" Diameter, >5' To 10' Length, Steel Piles From Boat	466.31	
35 01 50 10-0099	EA	Clean 12" Diameter, >10' To 15' Length, Steel Piles From Boat	621.80	
35 01 50 10-0100	EA	Clean HP 8 x 36, 5' Length, Steel Piles From Boat	310.82	
35 01 50 10-0101	EA	Clean HP 8 x 36, >5' To 10' Length, Steel Piles From Boat	582.89	
35 01 50 10-0102	EA	Clean HP 8 x 36, >10' To 15' Length, Steel Piles From Boat	777.14	
35 01 50 10-0103	EA	Clean HP 10 x 42, 5' Length, Steel Piles From Boat	373.04	
35 01 50 10-0104	EA	Clean HP 10 x 42, >5' To 10' Length, Steel Piles From Boat	717.39	
35 01 50 10-0105	EA	Clean HP 10 x 42, >10' To 15' Length, Steel Piles From Boat	1,013.79	
35 01 50 10-0106	EA	Clean HP 10 x 57, 5' Length, Steel Piles From Boat	388.64	
35 01 50 10-0107	EA	Clean HP 10 x 57, >5' To 10' Length, Steel Piles From Boat	717.39	
35 01 50 10-0108	EA	Clean HP 10 x 57, >10' To 15' Length, Steel Piles From Boat	1,013.79	
35 01 50 10-0109	EA	Clean HP 12 x 53, 5' Length, Steel Piles From Boat	466.31	
35 01 50 10-0110	EA	Clean HP 12 x 53, >5' To 10' Length, Steel Piles From Boat	847.81	
35 01 50 10-0111	EA	Clean HP 12 x 53, >10' To 15' Length, Steel Piles From Boat	1,165.77	
35 01 50 10-0112	EA	Clean HP 12 x 74, 5' Length, Steel Piles From Boat	490.80	
35 01 50 10-0113	EA	Clean HP 12 x 74, >5' To 10' Length, Steel Piles From Boat	892.11	
35 01 50 10-0114	EA	Clean HP 12 x 74, >10' To 15' Length, Steel Piles From Boat	1,227.12	
35 01 50 10-0115	EA	Clean HP 14 x 73, 5' Length, Steel Piles From Boat	548.64	
35 01 50 10-0116	EA	Clean HP 14 x 73, >5' To 10' Length, Steel Piles From Boat	1,000.67	
35 01 50 10-0117	EA	Clean HP 14 x 73, >10' To 15' Length, Steel Piles From Boat	1,457.22	
35 01 50 10-0118	EA	Clean HP 14 x 89, 5' Length, Steel Piles From Boat	548.64	
35 01 50 10-0119	EA	Clean HP 14 x 89, >5' To 10' Length, Steel Piles From Boat	1,000.67	
35 01 50 10-0120	EA	Clean HP 14 x 89, >10' To 15' Length, Steel Piles From Boat	1,457.22	
35 01 50 10-0121	EA	Clean HP 14 x 102, 5' Length, Steel Piles From Boat	548.64	
35 01 50 10-0122	EA	Clean HP 14 x 102, >5' To 10' Length, Steel Piles From Boat	1,000.67	
35 01 50 10-0123	EA	Clean HP 14 x 102, >10' To 15' Length, Steel Piles From Boat	1,457.22	
35 01 50 10-0124	EA	Clean HP 14 x 117, 5' Length, Steel Piles From Boat	548.64	
35 01 50 10-0125	EA	Clean HP 14 x 117, >5' To 10' Length, Steel Piles From Boat	1,000.67	
35 01 50 10-0126	EA	Clean HP 14 x 117, >10' To 15' Length, Steel Piles From Boat	1,457.22	

35 01 50 20 Protective Wrapping Of Marine Pier Piles *(35 01 50)*

35 01 50 20-0001 Protective Wrapping Of Wood Pier Piles *(35 01 50 20)*

Note: Exposed piles wrapped using boat. Piles must be cleaned before wrapping.

35 01 50 20-0002	VLF	8" Diameter Wood Piles, Protective Material Wrap With Nails From Boat	37.47	
35 01 50 20-0003	VLF	10" Diameter Wood Piles, Protective Material Wrap With Nails From Boat	47.07	
35 01 50 20-0004	VLF	12" Diameter Wood Piles, Protective Material Wrap With Nails From Boat	56.41	
35 01 50 20-0005	VLF	14" Diameter Wood Piles, Protective Material Wrap With Nails From Boat	65.60	
35 01 50 20-0006	VLF	8" Diameter Wood Piles, Protective Material Wrap With Straps From Boat	49.00	
35 01 50 20-0007	VLF	10" Diameter Wood Piles, Protective Material Wrap With Straps From Boat	61.22	
35 01 50 20-0008	VLF	12" Diameter Wood Piles, Protective Material Wrap With Straps From Boat	73.43	
35 01 50 20-0009	VLF	14" Diameter Wood Piles, Protective Material Wrap With Straps From Boat	85.64	

35 01 50 20-0010 Protective Wrapping Of Concrete Pier Piles *(35 01 50 20)*

Note: Exposed piles wrapped using boat. Piles must be cleaned before wrapping.

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 01 50 20-0011	VLF	12" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	73.43	
35 01 50 20-0012	VLF	14" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	85.64	
35 01 50 20-0013	VLF	16" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	97.99	
35 01 50 20-0014	VLF	18" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	109.55	
35 01 50 20-0015	VLF	20" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	121.76	
35 01 50 20-0016	VLF	24" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	146.33	
35 01 50 20-0017	VLF	36" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	219.10	
35 01 50 20-0018	VLF	48" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	273.80	
35 01 50 20-0019	VLF	54" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	328.36	
35 01 50 20-0020	VLF	60" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	365.15	
35 01 50 20-0021	VLF	66" Diameter Concrete Piles, Protective Material Wrap With Straps From Boat	401.93	
35 01 50 20-0022	VLF	10" Square Concrete Piles, Protective Material Wrap With Straps From Boat	77.94	
35 01 50 20-0023	VLF	12" Square Concrete Piles, Protective Material Wrap With Straps From Boat	92.96	
35 01 50 20-0024	VLF	14" Square Concrete Piles, Protective Material Wrap With Straps From Boat	108.62	
35 01 50 20-0025	VLF	16" Square Concrete Piles, Protective Material Wrap With Straps From Boat	124.15	
35 01 50 20-0026	VLF	18" Square Concrete Piles, Protective Material Wrap With Straps From Boat	139.96	
35 01 50 20-0027	VLF	20" Square Concrete Piles, Protective Material Wrap With Straps From Boat	157.02	
35 01 50 20-0028	VLF	24" Square Concrete Piles, Protective Material Wrap With Straps From Boat	187.23	
35 01 50 20-0029	VLF	14" Diameter Octagonal Concrete Piles, Protective Material Wrap With Straps From Boat	82.33	
35 01 50 20-0030	VLF	16" Diameter Octagonal Concrete Piles, Protective Material Wrap With Straps From Boat	93.61	
35 01 50 20-0031	VLF	18" Diameter Octagonal Concrete Piles, Protective Material Wrap With Straps From Boat	105.96	
35 01 50 20-0032	VLF	20" Diameter Octagonal Concrete Piles, Protective Material Wrap With Straps From Boat	117.25	
35 01 50 20-0033	VLF	24" Diameter Octagonal Concrete Piles, Protective Material Wrap With Straps From Boat	141.16	
35 01 50 20-0034		Protective Wrapping Of Steel Pier Piles *(35 01 50 20)*		
		Note: Exposed piles wrapped using boat. Piles must be cleaned before wrapping.		
35 01 50 20-0035	VLF	8" Diameter Steel Piles, Protective Material Wrap With Straps From Boat	49.00	
35 01 50 20-0036	VLF	10" Diameter Steel Piles, Protective Material Wrap With Straps From Boat	61.22	
35 01 50 20-0037	VLF	12" Diameter Steel Piles, Protective Material Wrap With Straps From Boat	73.43	
35 01 50 20-0038	VLF	HP 8 x 36 Steel Piles, Protective Material Wrap With Straps From Boat	117.73	
35 01 50 20-0039	VLF	HP 10 x 42 Steel Piles, Protective Material Wrap With Straps From Boat	144.79	
35 01 50 20-0040	VLF	HP 10 x 57 Steel Piles, Protective Material Wrap With Straps From Boat	146.76	
35 01 50 20-0041	VLF	HP 12 x 53 Steel Piles, Protective Material Wrap With Straps From Boat	174.62	
35 01 50 20-0042	VLF	HP 12 x 74 Steel Piles, Protective Material Wrap With Straps From Boat	175.93	
35 01 50 20-0043	VLF	HP 14 x 73 Steel Piles, Protective Material Wrap With Straps From Boat	205.22	
35 01 50 20-0044	VLF	HP 14 x 89 Steel Piles, Protective Material Wrap With Straps From Boat	207.86	
35 01 50 20-0045	VLF	HP 14 x 102 Steel Piles, Protective Material Wrap With Straps From Boat	207.86	
35 01 50 20-0046	VLF	HP 14 x 117 Steel Piles, Protective Material Wrap With Straps From Boat	210.49	

35 01 70 Operation and Maintenance of Dams *(35 01)*

35 01 70 00-0001 Drilling And Pressure Grouting *(35 01 70)*

35 01 70 00-0002 From Top Of The Dam *(35 01 70 00-0001)*

35 01 70 00-0003	LF	Pressure Grout, Top Of Dam, In Concrete, Drill 3" Nominal Grout Hole	93.65	
35 01 70 00-0004	LF	Pressure Grout, Top Of Dam, In Rock, Drill 3" Nominal Grout Hole	113.93	
35 01 70 00-0005	LF	Pressure Grout, Install Guide Sleeves 3-1/2" Inside Diameter, Top Of Dam	145.29	
35 01 70 00-0006	EA	Pressure Grout, Hydraulic Pressure Test Top Of Dam	658.06	
35 01 70 00-0007	EA	Pressure Grout, Grout Hook-Up Top Of Dam	372.63	
35 01 70 00-0008	CWT	Pressure Grout, Portland Cement Top Of Dam	53.48	
35 01 70 00-0009	CWT	Pressure Grout, Fluidifier In Grout Top Of Dam	156.73	
35 01 70 00-0010	CF	Pressure Grout, Place Grout Except Hook-Ups, Top Of Dam	207.91	

35 01 70 00-0011 Large Diameter Holes - Rotary Drilled *(35 01 70 00-0001)*

35 01 70 00-0012 From Top Of The Dam *(35 01 70 00-0011)*

35 01 70 00-0013	LF	Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Vertical	157.07	
35 01 70 00-0014	LF	Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Inclined	172.40	
35 01 70 00-0015	LF	Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Vertical	239.28	
35 01 70 00-0016	LF	Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Inclined	268.23	

35 05 Common Work Results for Waterway and Marine Construction *(35)*

35 05 70 Common Work Results for Dams *(35 05)*

35 05 70 00-0001 Rubber Dam Repair *(35 05 70)*

35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes)	41.46	
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage)	82.89	
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage)	121.17	
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	135.50	

35 20 Waterway and Marine Construction and Equipment *(35)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

35 22 Hydraulic Gates *(35 20)*

35 22 26 Sluice Gates *(35 22)*

35 22 26 00-0001 Heavy-Duty Cast Iron Sluice Gates Self Contained *(35 22 26)*

Note: Includes crank operated geared gate lift, anchor bolts, and grouting.

35 22 26 00-0002	EA	18" x 18" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	11,564.35	1,369.46
		For Electric Motor Operated Valve, Add	*1,982.97*	
35 22 26 00-0003	EA	24" x 24" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	16,566.31	2,054.26
		For Electric Motor Operated Valve, Add	*2,119.92*	
35 22 26 00-0004	EA	30" x 30" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	20,059.93	2,347.73
		For Electric Motor Operated Valve, Add	*2,178.62*	
35 22 26 00-0005	EA	36" x 36" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	22,873.39	2,567.83
		For Electric Motor Operated Valve, Add	*2,222.63*	
35 22 26 00-0006	EA	42" x 42" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	25,671.86	2,934.65
		For Electric Motor Operated Valve, Add	*2,296.00*	
35 22 26 00-0007	EA	48" x 48" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	35,975.74	4,695.45
		For Electric Motor Operated Valve, Add	*2,648.16*	
35 22 26 00-0008	EA	54" x 54" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	47,925.36	5,869.31
		For Electric Motor Operated Valve, Add	*2,882.93*	
35 22 26 00-0009	EA	60" x 60" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	55,928.07	7,776.84
		For Electric Motor Operated Valve, Add	*3,264.44*	
35 22 26 00-0010	EA	66" x 66" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	69,640.71	10,271.29
		For Electric Motor Operated Valve, Add	*3,763.33*	
35 22 26 00-0011	EA	72" x 72" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	73,145.09	11,738.62
		For Electric Motor Operated Valve, Add	*4,056.79*	
35 22 26 00-0012	EA	78" x 78" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	82,010.33	11,738.62
		For Electric Motor Operated Valve, Add	*4,798.64*	
35 22 26 00-0013	EA	84" x 84" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	95,109.35	13,205.95
		For Electric Motor Operated Valve, Add	*5,092.11*	
35 22 26 00-0014	EA	90" x 90" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	114,168.60	15,087.80
		For Electric Motor Operated Valve, Add	*5,468.48*	
35 22 26 00-0015	EA	96" x 96" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	128,698.38	15,806.26
		For Electric Motor Operated Valve, Add	*5,612.17*	
35 22 26 00-0016	EA	108" x 108" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	159,492.32	18,680.14
		For Electric Motor Operated Valve, Add	*6,186.95*	
35 22 26 00-0017	EA	120" x 120" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	197,043.00	22,990.94
		For Electric Motor Operated Valve, Add	*7,049.11*	
35 22 26 00-0018	EA	132" x 132" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate	240,429.00	25,864.81
		For Electric Motor Operated Valve, Add	*7,623.88*	

35 22 26 00-0019 Sluice Gate Actuator *(35 22 26)*

35 22 26 00-0020	EA	Electro-Hydraulic Actuator To Operate 108" x 72" Main Influent Gate	384,478.01	

35 22 26 00-0021 Cast Iron, Sluice Gate *(35 22 26)*

35 22 26 00-0022	EA	4" Cast Iron, Sluice Gate (Troy (C.I.) A3500/04)	2,139.55	192.29
35 22 26 00-0023	EA	6" Cast Iron, Sluice Gate (Troy (D.I.) A3500/06)	3,203.23	229.59
35 22 26 00-0024	EA	8" Cast Iron, Sluice Gate (Troy (D.I.) A3500/08)	4,069.61	290.49
35 22 26 00-0025	EA	12" Cast Iron, Sluice Gate (Troy (D.I.) A3500/12)	8,619.61	431.34

35 22 26 00-0026 Cast Iron, Sluice Gate, Frame Assembly Only (Rodney Hunt) *(35 22 26)*

Note: Frame Assembly Only

35 22 26 00-0027	EA	24" x 24" Cast Iron Sluice Gate, Frame Assembly Only	26,858.53	685.24
35 22 26 00-0028	EA	30" x 30" Cast Iron Sluice Gate, Frame Assembly Only	32,534.07	821.70
35 22 26 00-0029	EA	36" x 36" Cast Iron Sluice Gate, Frame Assembly Only	40,084.24	1,027.13
35 22 26 00-0030	EA	48" x 48" Cast Iron Sluice Gate, Frame Assembly Only	62,156.37	2,054.26
35 22 26 00-0031	EA	60" x 60" Cast Iron Sluice Gate, Frame Assembly Only	88,849.53	4,108.51
35 22 26 00-0032	EA	72" x 72" Cast Iron Sluice Gate, Frame Assembly Only	120,670.52	6,848.02
35 22 26 00-0033	EA	84" x 84" Cast Iron Sluice Gate, Frame Assembly Only	190,361.30	10,124.56
35 22 26 00-0034	Day	Start Up And Training, Frame Assembly, Cast Iron Sluice Gate	3,773.21	

35 22 26 00-0035 Stainless Steel, Sluice Gate *(35 22 26)*

35 22 26 00-0036	EA	4" Stainless Steel, Sluice Gate Valve (Troy A3500/04)	3,659.61	192.29

35 22 26 00-0037 Cast Iron, Shear Gates *(35 22 26)*

35 22 26 00-0038	EA	4" Cast Iron, Shear Gate (Troy A25206/04)	1,054.18	192.29
35 22 26 00-0039	EA	6" Cast Iron, Shear Gate (Troy A25206/06)	1,226.54	229.59
35 22 26 00-0040	EA	8" Cast Iron, Shear Gate (Troy A25206/08)	1,600.21	290.49
35 22 26 00-0041	EA	10" Cast Iron, Shear Gate (Troy A25206/10)	2,043.01	355.86
35 22 26 00-0042	EA	12" Cast Iron, Shear Gate (Troy A25206/12)	2,568.83	431.34
35 22 26 00-0043	EA	14" Cast Iron, Shear Gate (Troy A25206/14)	5,941.42	614.46
35 22 26 00-0044	EA	16" Cast Iron, Shear Gate (Troy A25206/16)	7,415.02	1,351.82
35 22 26 00-0045	EA	18" Cast Iron, Shear Gate (Troy A25206/18)	7,025.29	749.65
35 22 26 00-0046	EA	20" Cast Iron, Shear Gate (Troy A25206/20)	9,451.11	844.89
35 22 26 00-0047	EA	24" Cast Iron, Shear Gate (Troy A25206/24)	12,030.85	1,036.91
35 22 26 00-0048	EA	30" Cast Iron, Shear Gate (Troy A25206/30)	16,293.23	1,639.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 26 00-0049		Stainless Steel, Slide Gates (Fontaine Aquanox) *(35 22 26)*		
		Note: Includes crank operated geared gate lift, anchor bolts, and grouting.		
35 22 26 00-0050	EA	12"x 12", Open Frame, Rising Stem, Slide Gate (Fontaine-Aquanox 204-P2X-12x12-A-CW-30)	19,836.11	880.39
		For Gearbox And Crank, Add	*1,635.72*	
		For Extended Stem, Add	*59.74*	
		For Wall Bracket, Add	*927.04*	
35 22 26 00-0051	EA	16"x 16", Open Frame, Rising Stem, Slide Gate (Fontaine-Aquanox 204-P2X-16x16-A-CW-30)	21,908.38	1,173.86
		For Gearbox And Crank, Add	*1,635.72*	
		For Extended Stem, Add	*57.68*	
		For Wall Bracket, Add	*927.04*	
35 22 26 00-0052	EA	18"x 18", Open Frame, Rising Stem, Slide Gate (Fontaine-Aquanox 204-P2X-18x18-A-CW-30)	22,992.93	1,369.02
		For Gearbox And Crank, Add	*1,635.72*	
		For Extended Stem, Add	*55.62*	
		For Wall Bracket, Add	*927.04*	
35 22 26 00-0053	EA	20"x 20", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-20x20-A-CW-30)	27,511.45	1,760.79
		For Extended Stem, Add	*67.98*	
		For Wall Bracket, Add	*1,030.05*	
35 22 26 00-0054	EA	24"x 24", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-24x24-A-CW-30)	29,868.00	2,054.26
		For Extended Stem, Add	*67.98*	
		For Wall Bracket, Add	*1,030.05*	
35 22 26 00-0055	EA	30"x 30", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-30x30-A-CW-30)	33,042.43	2,347.73
		For Extended Stem, Add	*67.98*	
		For Wall Bracket, Add	*1,030.05*	
35 22 26 00-0056	EA	36"x 36", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-36x36-A-CW-30)	36,819.98	2,567.83
		For Extended Stem, Add	*72.10*	
		For Wall Bracket, Add	*1,030.05*	
35 22 26 00-0057	EA	42"x 42", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-42x42-A-CW-30)	42,009.64	2,934.65
		For Extended Stem, Add	*230.73*	
		For Wall Bracket, Add	*1,030.05*	
35 22 26 00-0058	EA	48"x 48", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-48x48-A-CW-30)	52,626.21	4,695.45
		For Extended Stem, Add	*226.61*	
		For Wall Bracket, Add	*2,461.82*	
35 22 26 00-0059	EA	54"x 54", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-54x54-A-CW-30)	63,762.33	5,869.31
		For Extended Stem, Add	*319.32*	
		For Wall Bracket, Add	*2,461.82*	
35 22 26 00-0060	EA	60"x 60", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-60x60-A-CW-30)	72,667.87	7,776.84
		For Extended Stem, Add	*455.28*	
		For Wall Bracket, Add	*5,922.79*	
35 22 26 00-0061	EA	72"x 72", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-72x72-A-CW-30)	97,142.29	11,738.62
		For Extended Stem, Add	*696.31*	
		For Wall Bracket, Add	*5,922.79*	
35 22 26 00-0062	EA	84"x 84", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-84x84-A-CW-30)	114,437.90	13,205.95
		For Extended Stem, Add	*696.31*	
		For Wall Bracket, Add	*5,922.79*	
35 22 26 00-0063	EA	96"x 96", Open Frame, Rising Stem, Slide Gate With Pedestal Mounted Gearbox And Crank (Fontaine-Aquanox 204-P2X-96x96-A-CW-30)	135,805.35	16,140.60
		For Extended Stem, Add	*871.42*	
		For Wall Bracket, Add	*9,435.26*	
35 22 26 00-0064	EA	Factory Witnessed Testing Or Factory Inspections By DEP Personnel	1,977.70	
35 22 26 00-0065	EA	Job Site Assistance Visit (2 Days On Site) By Factory Trained Technician For Start-up, Training Or Installation Inspection	9,991.48	
35 22 59		**Hydraulic Closure Gates** *(35 22)*		
35 22 59 00-0001		Steel Slide Gates Self Contained *(35 22 59)*		
		Note: Includes anchors and bolts.		
35 22 59 00-0002	EA	12" x 12" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	3,977.02	513.57
		For Electric Motor Operated Valve, Add	*1,811.78*	
35 22 59 00-0003	EA	18" x 18" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	5,301.59	586.93
		For Electric Motor Operated Valve, Add	*1,826.46*	
35 22 59 00-0004	EA	24" x 24" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	6,049.01	684.80
		For Electric Motor Operated Valve, Add	*1,846.02*	
35 22 59 00-0005	EA	30" x 30" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	7,309.74	821.70
		For Electric Motor Operated Valve, Add	*1,873.41*	
35 22 59 00-0006	EA	36" x 36" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	9,354.71	1,027.13
		For Electric Motor Operated Valve, Add	*1,914.50*	
35 22 59 00-0007	EA	42" x 42" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	10,962.63	1,369.46
		For Electric Motor Operated Valve, Add	*1,982.97*	
35 22 59 00-0008	EA	48" x 48" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	15,027.35	2,054.26
		For Electric Motor Operated Valve, Add	*2,119.92*	
35 22 59 00-0009	EA	54" x 54" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	22,819.07	2,567.83
		For Electric Motor Operated Valve, Add	*2,222.63*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0010	EA	60" x 60" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	29,757.60	4,108.51
		For Electric Motor Operated Valve, Add	*2,530.77*	
35 22 59 00-0011	EA	72" x 72" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	37,904.32	6,847.57
		For Electric Motor Operated Valve, Add	*3,078.58*	
35 22 59 00-0012	SF	Over 36 SF Steel Slide Gates Self Contained Including Anchor	1,051.28	189.29
		For Electric Motor Operated Valve, Add	*4,161.36*	

35 22 59 00-0013 Stainless Steel, Slide Gates, Frame Assembly Only *(35 22 59)*

35 22 59 00-0014	EA	24" x 24" Stainless Steel Slide Gate, Frame Assembly Only	20,167.90	670.56
35 22 59 00-0015	EA	30" x 30" Stainless Steel Slide Gate, Frame Assembly Only	24,936.86	837.85
35 22 59 00-0016	EA	36" x 36" Stainless Steel Slide Gate, Frame Assembly Only	31,800.21	1,021.26
35 22 59 00-0017	EA	48" x 48" Stainless Steel Slide Gate, Frame Assembly Only	48,555.95	1,955.95
35 22 59 00-0018	EA	60" x 60" Stainless Steel Slide Gate, Frame Assembly Only	71,599.45	4,268.46
35 22 59 00-0019	EA	72" x 72" Stainless Steel Slide Gate, Frame Assembly Only	94,107.36	6,520.80
35 22 59 00-0020	EA	84" x 84" Stainless Steel Slide Gate, Frame Assembly Only	142,095.78	8,152.47
35 22 59 00-0021	Day	Start Up And Training, Stainless Steel Slide Gate, Frame Assembly	3,773.21	

35 22 59 00-0022 Aluminum Flap Gates *(35 22 59)*

35 22 59 00-0023	EA	18" Diameter Aluminum Flap Gates	3,855.70	513.57
		For Electric Motor Operated Valve, Add	*1,811.78*	
35 22 59 00-0024	EA	20" Diameter Aluminum Flap Gates	4,290.76	550.25
		For Electric Motor Operated Valve, Add	*1,819.11*	
35 22 59 00-0025	EA	24" Diameter Aluminum Flap Gates	4,722.00	586.93
		For Electric Motor Operated Valve, Add	*1,826.46*	
35 22 59 00-0026	EA	30" Diameter Aluminum Flap Gates	6,398.68	684.80
		For Electric Motor Operated Valve, Add	*1,846.02*	
35 22 59 00-0027	EA	36" Diameter Aluminum Flap Gates	7,931.70	821.70
		For Electric Motor Operated Valve, Add	*1,873.41*	
35 22 59 00-0028	EA	42" Diameter Aluminum Flap Gates	11,223.24	1,027.13
		For Electric Motor Operated Valve, Add	*1,914.50*	
35 22 59 00-0029	EA	48" Diameter Aluminum Flap Gates	14,202.55	1,369.46
		For Electric Motor Operated Valve, Add	*1,982.97*	
35 22 59 00-0030	EA	54" Diameter Aluminum Flap Gates	18,382.47	2,054.26
		For Electric Motor Operated Valve, Add	*2,119.92*	
35 22 59 00-0031	EA	60" Diameter Aluminum Flap Gates	24,306.13	2,934.65
		For Electric Motor Operated Valve, Add	*2,296.00*	
35 22 59 00-0032	EA	66" Diameter Aluminum Flap Gates	31,440.77	4,108.51
		For Electric Motor Operated Valve, Add	*2,530.77*	
35 22 59 00-0033	EA	72" Diameter Aluminum Flap Gates	39,230.17	5,869.31
		For Electric Motor Operated Valve, Add	*2,882.93*	

35 22 59 00-0034 Stainless Steel Flap Gates *(35 22 59)*

35 22 59 00-0035	EA	12" x 12" Stainless Steel Flap Gate	8,154.74	440.20
		For Electric Motor Operated Valve, Add	*1,797.11*	
35 22 59 00-0036	EA	18" x 18" Stainless Steel Flap Gate	10,446.25	513.57
		For Electric Motor Operated Valve, Add	*1,811.78*	
35 22 59 00-0037	EA	24" x 24" Stainless Steel Flap Gate	13,462.61	586.93
		For Electric Motor Operated Valve, Add	*1,826.46*	
35 22 59 00-0038	EA	30" x 30" Stainless Steel Flap Gate	17,524.80	685.24
		For Electric Motor Operated Valve, Add	*1,846.02*	
35 22 59 00-0039	EA	36" x 36" Stainless Steel Flap Gate	26,006.42	821.70
		For Electric Motor Operated Valve, Add	*1,873.41*	
35 22 59 00-0040	EA	48" x 48" Stainless Steel Flap Gate	38,097.97	1,369.02
		For Electric Motor Operated Valve, Add	*1,982.97*	
35 22 59 00-0041	EA	60" x 60" Stainless Steel Flap Gate	58,386.44	2,934.65
		For Electric Motor Operated Valve, Add	*2,296.00*	
35 22 59 00-0042	EA	72" x 72" Stainless Steel Flap Gate	84,680.73	5,869.31
		For Electric Motor Operated Valve, Add	*2,882.93*	
35 22 59 00-0043	EA	84" x 84" Stainless Steel Flap Gate	121,815.03	11,738.62
		For Electric Motor Operated Valve, Add	*4,056.79*	

35 22 59 00-0044 Cast Iron Flap Gates *(35 22 59)*

35 22 59 00-0045	EA	12" x 12" Cast Iron Flap Gate	14,460.64	550.25
		For Electric Motor Operated Valve, Add	*1,819.12*	
35 22 59 00-0046	EA	18" x 18" Cast Iron Flap Gate	20,318.76	642.69
		For Electric Motor Operated Valve, Add	*1,837.46*	
35 22 59 00-0047	EA	24" x 24" Cast Iron Flap Gate	25,943.55	733.66
		For Electric Motor Operated Valve, Add	*1,855.80*	
35 22 59 00-0048	EA	30" x 30" Cast Iron Flap Gate	36,385.68	855.45
		For Electric Motor Operated Valve, Add	*1,880.26*	
35 22 59 00-0049	EA	36" x 36" Cast Iron Flap Gate	41,087.12	1,027.13
		For Electric Motor Operated Valve, Add	*1,914.50*	
35 22 59 00-0050	EA	48" x 48" Cast Iron Flap Gate	51,060.55	1,712.37
		For Electric Motor Operated Valve, Add	*2,051.45*	
35 22 59 00-0051	EA	60" x 60" Cast Iron Flap Gate	87,416.42	3,228.12
		For Electric Motor Operated Valve, Add	*2,354.69*	
35 22 59 00-0052	EA	72" x 72" Cast Iron Flap Gate	139,220.13	6,309.51
		For Electric Motor Operated Valve, Add	*2,970.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0053	EA	84" x 84" Cast Iron Flap Gate	161,678.20	12,325.54
		For Electric Motor Operated Valve, Add	*4,174.18*	
35 22 59 00-0054		**Steel Knife Gates Including Handwheel Operator** *(35 22 59)*		
		Note: ANSI 150 PSI. for hub, flange, or spigot ends.		
35 22 59 00-0055	EA	6" Diameter Knife Gates Including Handwheel Operator For Hub	2,033.35	189.03
		For Electric Motor Operated Valve, Add	*1,746.88*	
35 22 59 00-0056	EA	8" Diameter Knife Gates Including Handwheel Operator For Hub	2,727.98	220.50
		For Electric Motor Operated Valve, Add	*1,753.18*	
35 22 59 00-0057	EA	10" Diameter Knife Gates Including Handwheel Operator For Hub	3,837.15	330.82
		For Electric Motor Operated Valve, Add	*1,775.23*	
35 22 59 00-0058	EA	12" Diameter Knife Gates Including Handwheel Operator For Hub	4,798.21	441.14
		For Electric Motor Operated Valve, Add	*1,797.29*	
35 22 59 00-0059	EA	14" Diameter Knife Gates Including Handwheel Operator For Hub	5,867.46	472.59
		For Electric Motor Operated Valve, Add	*1,803.59*	
35 22 59 00-0060	EA	16" Diameter Knife Gates Including Handwheel Operator For Hub	7,578.01	508.92
		For Electric Motor Operated Valve, Add	*1,810.86*	
35 22 59 00-0061	EA	18" Diameter Knife Gates Including Handwheel Operator For Hub	10,049.38	529.30
		For Electric Motor Operated Valve, Add	*1,814.93*	
35 22 59 00-0062	EA	20" Diameter Knife Gates Including Handwheel Operator For Hub	12,554.67	601.54
		For Electric Motor Operated Valve, Add	*1,829.37*	
35 22 59 00-0063	EA	24" Diameter Knife Gates Including Handwheel Operator For Hub	16,077.00	661.63
		For Electric Motor Operated Valve, Add	*1,841.40*	
35 22 59 00-0064	EA	30" Diameter Knife Gates Including Handwheel Operator For Hub	29,207.09	882.13
		For Electric Motor Operated Valve, Add	*1,885.51*	
35 22 59 00-0065	EA	36" Diameter Knife Gates Including Handwheel Operator For Hub	38,884.01	1,323.26
		For Electric Motor Operated Valve, Add	*1,973.72*	
35 22 59 00-0066		**Steel Hollow Jet Flow Gate Valve** *(35 22 59)*		
35 22 59 00-0067	EA	6" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	1,895.22	205.43
		For Electric Motor Operated Valve, Add	*1,750.16*	
35 22 59 00-0068	EA	8" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	2,922.70	239.91
		For Electric Motor Operated Valve, Add	*1,757.05*	
35 22 59 00-0069	EA	10" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	3,520.33	359.49
		For Electric Motor Operated Valve, Add	*1,780.97*	
35 22 59 00-0070	EA	12" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	4,491.18	479.09
		For Electric Motor Operated Valve, Add	*1,804.90*	
35 22 59 00-0071	EA	14" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	6,728.98	513.57
		For Electric Motor Operated Valve, Add	*1,811.78*	
35 22 59 00-0072	EA	16" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	8,106.32	553.19
		For Electric Motor Operated Valve, Add	*1,819.71*	
35 22 59 00-0073	EA	18" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	13,572.92	575.19
		For Electric Motor Operated Valve, Add	*1,824.12*	
35 22 59 00-0074	EA	20" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	17,060.11	653.69
		For Electric Motor Operated Valve, Add	*1,839.82*	
35 22 59 00-0075	EA	24" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	24,502.99	718.99
		For Electric Motor Operated Valve, Add	*1,852.89*	
35 22 59 00-0076	EA	30" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	30,027.13	958.90
		For Electric Motor Operated Valve, Add	*1,900.84*	
35 22 59 00-0077	EA	36" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	42,859.65	1,437.98
		For Electric Motor Operated Valve, Add	*1,996.62*	
35 22 59 00-0078	EA	42" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	51,087.10	1,760.79
		For Electric Motor Operated Valve, Add	*2,803.16*	
35 22 59 00-0079	EA	48" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	60,574.59	2,054.26
		For Electric Motor Operated Valve, Add	*2,861.77*	
35 22 59 00-0080	EA	54" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	79,753.43	2,567.83
		For Electric Motor Operated Valve, Add	*2,964.48*	
35 22 59 00-0081	EA	60" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	88,856.02	3,081.39
		For Electric Motor Operated Valve, Add	*3,067.44*	
35 22 59 00-0082	EA	66" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	113,440.15	4,255.25
		For Electric Motor Operated Valve, Add	*3,302.60*	
35 22 59 00-0083		**Steel Dish Head Valve** *(35 22 59)*		
35 22 59 00-0084	EA	12" Diameter Dish Head Valve	2,441.83	513.57
35 22 59 00-0085	EA	18" Diameter Dish Head Valve	3,502.11	586.93
35 22 59 00-0086	EA	20" Diameter Dish Head Valve	4,028.50	641.96
35 22 59 00-0087	EA	24" Diameter Dish Head Valve	4,736.59	684.80
35 22 59 00-0088	EA	30" Diameter Dish Head Valve	7,077.71	821.70
35 22 59 00-0089	EA	36" Diameter Dish Head Valve	8,725.78	1,027.13
35 22 59 00-0090	EA	42" Diameter Dish Head Valve	14,578.61	1,369.46
35 22 59 00-0091	EA	48" Diameter Dish Head Valve	19,122.04	2,054.26
35 22 59 00-0092	EA	54" Diameter Dish Head Valve	27,118.25	2,567.83
35 22 59 00-0093	EA	60" Diameter Dish Head Valve	35,007.52	4,108.51
35 22 59 00-0094	EA	66" Diameter Dish Head Valve	48,379.35	5,135.64
35 22 59 00-0095	EA	72" Diameter Dish Head Valve	59,027.98	6,847.57
35 22 59 00-0096		**Cast Iron Flap Gates (Waterman F-10)** *(35 22 59)*		
35 22 59 00-0097	EA	4" Cast Iron Flap Drainage Gate	1,019.23	196.55
35 22 59 00-0098	EA	6" Cast Iron Flap Drainage Gate	1,313.02	275.12

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0099	EA	8" Cast Iron Flap Drainage Gate	1,803.40	293.47
35 22 59 00-0100	EA	10" Cast Iron Flap Drainage Gate	2,328.77	338.95
35 22 59 00-0101	EA	12" Cast Iron Flap Drainage Gate	2,625.27	385.17
35 22 59 00-0102	EA	14" Cast Iron Flap Drainage Gate	5,026.37	466.91
35 22 59 00-0103	EA	16" Cast Iron Flap Drainage Gate	5,839.18	550.25
35 22 59 00-0104	EA	18" Cast Iron Flap Drainage Gate	7,167.49	605.27
35 22 59 00-0105	EA	20" Cast Iron Flap Drainage Gate	8,758.09	672.55
35 22 59 00-0106	EA	24" Cast Iron Flap Drainage Gate	11,186.27	756.63
35 22 59 00-0107	EA	30" Cast Iron Flap Drainage Gate	22,523.36	931.17
35 22 59 00-0108	EA	36" Cast Iron Flap Drainage Gate	25,634.96	1,100.50
35 22 59 00-0109	EA	42" Cast Iron Flap Drainage Gate	32,867.73	1,320.60
35 22 59 00-0110	EA	48" Cast Iron Flap Drainage Gate	37,879.44	1,687.42
35 22 59 00-0111	EA	54" Cast Iron Flap Drainage Gate	42,980.54	2,054.26
35 22 59 00-0112	EA	60" Cast Iron Flap Drainage Gate	53,435.43	2,934.65
35 22 59 00-0113	EA	66" Cast Iron Flap Drainage Gate	64,804.49	4,108.51
35 22 59 00-0114	EA	72" Cast Iron Flap Drainage Gate	74,784.75	5,869.31

35 22 59 00-0115 Cast Iron Body Knife Gate Valves *(35 22 59)*

Note: With 316 stainless steel interior, handwheel operator and metal seat.

35 22 59 00-0116	EA	2" Knife Gate Valve, Cast Iron Body With Stainless Steel Interior, Handwheel And Metal Seat	919.80	173.22
35 22 59 00-0117	EA	3" Knife Gate Valve, Cast Iron Body With Stainless Steel Interior, Handwheel And Metal Seat	1,085.65	203.40
35 22 59 00-0118	EA	4" Knife Gate Valve, Cast Iron Body With Stainless Steel Interior, Handwheel And Metal Seat	1,277.58	340.99
35 22 59 00-0119	EA	6" Knife Gate Valve, Cast Iron Body With Stainless Steel Interior, Handwheel And Metal Seat	2,099.17	451.88
35 22 59 00-0120	EA	8" Knife Gate Valve, Cast Iron Body With Stainless Steel Interior, Handwheel And Metal Seat	2,895.88	519.67
35 22 59 00-0121	EA	10" Knife Gate Valve, Cast Iron Body With Stainless Steel Interior, Handwheel And Metal Seat	3,515.74	632.64
35 22 59 00-0122	EA	12" Knife Gate Valve, Cast Iron Body With Stainless Steel Interior, Handwheel And Metal Seat	4,702.27	768.19

35 22 59 00-0123 Aluminum Stop Logs *(35 22 59)*

Note: Excludes frame guides.

35 22 59 00-0124	EA	6" Height x 72" Length, Aluminum Stop Log	3,180.20	27.77
35 22 59 00-0125	EA	9" Height x 72" Length, Aluminum Stop Log	4,351.96	27.77
35 22 59 00-0126	EA	12" Height x 72" Length, Aluminum Stop Log	3,961.37	27.77

35 22 59 00-0127 316L Stainless Steel, Pontoon Tide Gates *(35 22 59)*

35 22 59 00-0128	EA	24" x 24", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	37,632.96	7,282.77
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*3,090.15*	
35 22 59 00-0129	EA	30" x 30", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	40,421.28	8,739.04
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*3,090.15*	
35 22 59 00-0130	EA	36" x 36", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	41,936.89	9,710.17
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*3,090.15*	
35 22 59 00-0131	EA	42" x 42", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	45,633.85	10,923.81
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*3,090.15*	
35 22 59 00-0132	EA	48" x 48", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	55,091.29	16,604.19
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*3,090.15*	
35 22 59 00-0133	EA	54" x 54", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	61,808.28	20,755.23
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*3,090.15*	
35 22 59 00-0134	EA	60" x 60", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	72,510.10	22,980.96
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*3,090.15*	
35 22 59 00-0135	EA	66" x 66", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	78,473.69	24,838.00
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*3,090.15*	
35 22 59 00-0136	EA	72" x 72", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	86,212.40	29,166.57
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*4,120.20*	
35 22 59 00-0137	EA	78" x 78", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	93,333.09	32,771.44
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*4,120.20*	
35 22 59 00-0138	EA	84" x 84", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	106,840.07	35,652.59
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*4,120.20*	
35 22 59 00-0139	EA	90" x 90", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	120,759.09	37,810.04
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*4,120.20*	
35 22 59 00-0140	EA	96" x 96", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	136,595.71	40,308.85
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*4,120.20*	
35 22 59 00-0141	EA	102" x 102", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	155,038.64	42,507.28
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*5,150.25*	
35 22 59 00-0142	EA	108" x 108", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	173,275.52	43,695.23
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*5,150.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0143	EA	114" x 114", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	201,884.67	46,142.17
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*5,150.25*	
35 22 59 00-0144	EA	120" x 120", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	232,027.97	48,849.92
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*6,180.30*	
35 22 59 00-0145	EA	132" x 132", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	409,426.54	52,434.26
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*6,180.30*	
35 22 59 00-0146	EA	144" x 144", 316L Stainless Steel, Pontoon Tide Gate (Whipps, Inc.)	342,053.11	56,530.72
		For Pull Box, Add	*1,751.08*	
		For 20' Of Stainless Steel Chain, Add	*7,210.35*	

35 22 59 00-0147 TideFlex Gates *(35 22 59)*

35 22 59 00-0148	EA	36" TideFlex Gates At Gravity Flow Out Falls (TideFlex 36")	34,709.05	1,027.13

35 22 63 Through-Levee Access Gates *(35 22)*

35 22 63 00-0001 Cast Iron Canal Gates *(35 22 63)*

35 22 63 00-0002	EA	12" Diameter Cast Iron Canal Gates With Fabricated Frame	2,956.18	513.57
		For Electric Motor Operated Valve, Add	*1,811.78*	
35 22 63 00-0003	EA	18" Diameter Cast Iron Canal Gates With Fabricated Frame	4,348.60	586.93
		For Electric Motor Operated Valve, Add	*1,826.46*	
35 22 63 00-0004	EA	20" Diameter Cast Iron Canal Gates With Fabricated Frame	4,979.69	641.96
		For Electric Motor Operated Valve, Add	*1,837.46*	
35 22 63 00-0005	EA	24" Diameter Cast Iron Canal Gates With Fabricated Frame	5,960.78	684.80
		For Electric Motor Operated Valve, Add	*1,846.02*	
35 22 63 00-0006	EA	30" Diameter Cast Iron Canal Gates With Fabricated Frame	9,053.50	821.70
		For Electric Motor Operated Valve, Add	*1,873.41*	
35 22 63 00-0007	EA	36" Diameter Cast Iron Canal Gates With Fabricated Frame	11,151.38	1,027.13
		For Electric Motor Operated Valve, Add	*1,914.50*	
35 22 63 00-0008	EA	42" Diameter Cast Iron Canal Gates With Fabricated Frame	18,883.20	1,369.46
		For Electric Motor Operated Valve, Add	*1,982.97*	
35 22 63 00-0009	EA	48" Diameter Cast Iron Canal Gates With Fabricated Frame	24,580.60	2,054.26
		For Electric Motor Operated Valve, Add	*2,119.92*	
35 22 63 00-0010	EA	54" Diameter Cast Iron Canal Gates With Fabricated Frame	35,110.59	2,567.83
		For Electric Motor Operated Valve, Add	*2,222.63*	
35 22 63 00-0011	EA	60" Diameter Cast Iron Canal Gates With Fabricated Frame	44,747.89	4,108.51
		For Electric Motor Operated Valve, Add	*2,530.77*	
35 22 63 00-0012	EA	66" Diameter Cast Iron Canal Gates With Fabricated Frame	62,234.52	5,135.64
		For Electric Motor Operated Valve, Add	*2,736.20*	
35 22 63 00-0013	EA	72" Diameter Cast Iron Canal Gates With Fabricated Frame	73,553.51	5,869.31
		For Electric Motor Operated Valve, Add	*2,882.93*	

35 24 Dredging *(35 20)*

35 24 13 Suction Dredging *(35 24)*

35 24 13 13 Cutter Suction Dredging *(35 24 13)*

35 24 13 13-0001 Hydraulic Dredging *(35 24 13 13)*

35 24 13 13-0002 Hydraulic Dredging Mobilization *(35 24 13 13-0001)*

Note: Includes mobilization, demobilization and relocation of dredging equipment barges, dredgers, substations, attendant plants, booster pumps, booster stations, instrumentation, floating hoses and pipe for pumping up to a distance of one (1) mile, shore valves, tractors, loaders, and all other equipment and personnel required to perform the dredging work and to place dredged material on Beach, Confined Disposal Facility, Dunes or other designated locations and preparation of all required pre-work submittals.

35 24 13 13-0003	CY	Mobilization For Hydraulic Dredging, >35,000 CY	23.22

35 24 13 13-0004 Hydraulic Dredging *(35 24 13 13-0001)*

Note: Marker buoys, lighting and all accessories shall be included and installed as per USCG Requirements.

35 24 13 13-0005	CY	Hydraulic Dredging To CDF Note: Includes the following equipment: 14" to 18" hydraulic dredge with floating hoses and pipe for pumping up to a distance of one (1) mile, supporting equipment, not limited to tug boats, fueling equipment, fuel, tender, equipment barge, deck barge, crew boat, power generation equipment, pumps, welding machine, backhoe. Includes, but not limited to all required crew members: leverman, engineer, deckhand, captain, operators, and supporting laborer as needed. Excludes mobilization and demobilization. See CSI section 35 24 13 13-0002 for dredging mobilization and demobilization.	24.23	
		For Dredged Material Having Greater Than 50% Sand, Add	*5.69*	
35 24 13 13-0006	CY	Hydraulic Dredging To Beachfill Note: Includes the following equipment: 14" to 18" hydraulic dredge with floating hoses and pipe for pumping up to a distance of one (1) mile, supporting equipment, not limited to tug boats, fueling equipment, fuel, tender, equipment barge, deck barge, crew boat, power generation equipment, pumps, welding machine, backhoe. Includes, but not limited to all required crew members: leverman, engineer, deckhand, captain, operators, and supporting laborer as needed. Excludes mobilization and demobilization. See CSI section 35 24 13 13-0002 for dredging mobilization and demobilization.	28.51	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 24 13 13-0007		**Additional Dredge Pipe And Accessories** *(35 24 13 13-0001)*		
		Note: Marker buoys, lighting and all accessories shall be included and installed as per USCG Requirements. Includes floating hose and pipe up to a distance of one (1) mile, anchor system, and accessories, fuel, floating buoys, signal lights, and tugboat with necessary personnel. Excludes mobilization/demobilization/relocation. See CSI section 35 24 13 13-0011 for mobilization/demobilization/relocation.		
35 24 13 13-0008	MO	Additional Dredge Pipe And Accessories, 14"	20,228.27	
35 24 13 13-0009	MO	Additional Dredge Pipe And Accessories, 16"	26,094.93	
35 24 13 13-0010	MO	Additional Dredge Pipe And Accessories, 18"	31,961.60	
35 24 13 13-0011		**Additional Dredge Pipe And Accessories Mobilization/Demobilization/Relocation** *(35 24 13 13-0001)*		
		Note: Includes floating hoses and pipe for pumping up to a distance of One (1) mile, anchor system, and accessories, fuel, floating buoys, signal lights, and tugboat with necessary personnel.		
35 24 13 13-0012	EA	Additional Dredge Pipe And Accessories Mobilization/Demobilization/Relocation, 14"	131,850.24	
35 24 13 13-0013	EA	Additional Dredge Pipe And Accessories Mobilization/Demobilization/Relocation, 16"	161,150.29	
35 24 13 13-0014	EA	Additional Dredge Pipe And Accessories Mobilization/Demobilization/Relocation, 18"	207,193.23	
35 24 13 13-0015		**Dredging Accessories** *(35 24 13 13-0001)*		
35 24 13 13-0016		**Dredging Signal Lights** *(35 24 13 13-0015)*		
35 24 13 13-0017	EA	Dredging Signal Light	743.44	56.40
35 24 23		**Clamshell Dredging** *(35 24)*		
35 24 23 00-0001		**Dredging, Barge Mounted** *(35 24 23)*		
		See CSI section 01 74 19 00-0043 for hauling material from shore or barge, 31 23 16 33-0019 for loading.		
35 24 23 00-0002	EA	Dredge Excavation Mobilization And Demobilization	25,653.31	
		For Inlet Rivers And Canals, Deduct	*-6,413.33*	
35 24 23 00-0003	CY	Barge Mounted Clamshell Excavation Into Scows, Dumping Up To 10 Miles Note: Includes tugboat to move scows or barge.	28.50	
35 24 23 00-0004	CY	Barge Mounted Dragline Or Clamshell, Hopper Dumped, Pumped 1,000' To Shore Note: Includes tugboat to move barge.	25.65	
35 24 23 00-0005	CY	Hydraulic Dredge Excavation Into Scows, Dumping Up To 10 Miles Note: Includes tugboat to move scows or barge.	28.40	
35 24 23 00-0006	CY	Hydraulic Dredge Excavation, Pumped 1,000' To Shore Note: Includes tugboat to move barge.	23.82	
35 24 26		**Backhoe/Dipper Dredging** *(35 24)*		
35 24 26 00-0001		**Dredging, Shoreline Excavators** *(35 24 26)*		
35 24 26 00-0002	CY	Back Hoe, 1 CY Bucket, Dredging From Shore	16.96	
35 24 26 00-0003	CY	Hydraulic Excavator, 2 CY Bucket, Dredging From Shore	11.28	

35 50 Marine Construction and Equipment *(35)*

35 51 Floating Construction *(35 50)*

35 51 13 Floating Piers *(35 51)*

35 51 13 23 Floating Wood Piers *(35 51 13)*

35 51 13 23-0001	SF	Floating Dock, Wood, Complete	64.55	

35 51 13 29 Floating Aluminum Piers *(35 51 13)*

35 51 13 29-0001	SF	Floating Dock, Aluminum, Complete	179.05	

35 51 23 Pontoons *(35 51)*

35 51 23 00-0001		**Aluminum Floating Docks** *(35 51 23)*		
		Note: Excludes concrete anchoring, railing, fenders, bumpers or cleats.		
35 51 23 00-0002	SF	Aluminum Frame, Plastic, Composite Or Pressure Treated Decking	148.68	
35 51 23 00-0003	SF	Aluminum Frame, Welded 6000 Series Welded Aluminum Decking	180.47	
35 51 23 00-0004	SF	Aluminum Frame, Eppi Wood Decking	164.57	
35 51 23 00-0005	SF	Aluminum Ramps	132.79	

35 51 53 Inflatable Floating Structures *(35 51)*

35 51 53 00-0001		**Modular Inflatable WaterPark Structures** *(35 51 53)*		
		Note: Includes inflation, and connecting inflatable structures to each other. Excludes anchors. Demolition is for disassembly from structures, removal of anchor connections, and deflating to turn over to Owner. See CSI section 35 51 53 00-0039 for marine anchor to seabed, 35 59 93 13-0001 for marine chain, 35 59 93 16-0001 for marine shackles.		
35 51 53 00-0002	EA	ActionTower XXL, Modular Inflatable WaterPark Structure (Wibit WS 30001) Note: Requires 4 anchors	20,300.20	1,623.08

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 51 53 00-0003	EA	Base SUS, Modular Inflatable WaterPark Structure (Wibit WS 30131) Note: Requires 1 anchor	3,993.23	319.10
35 51 53 00-0004	EA	Cliff, Modular Inflatable WaterPark Structure (Wibit WS 30014) Note: Requires 1 anchor	3,918.31	313.43
35 51 53 00-0005	EA	Deck 3, Modular Inflatable WaterPark Structure (Wibit WS 30147) Note: Requires 1 anchor	3,918.31	313.43
35 51 53 00-0006	EA	Dome, Modular Inflatable WaterPark Structure (Wibit WS 30078) Note: Requires 1 anchor	7,543.75	604.45
35 51 53 00-0007	EA	GuardTower, Modular Inflatable WaterPark Structure (Wibit WS 30074) Note: Requires 2 anchors	11,461.35	912.35
35 51 53 00-0008	EA	L-Connect SUS, Modular Inflatable WaterPark Structure (Wibit WS 30135) Note: Requires 1 anchor	5,274.12	419.84
35 51 53 00-0009	EA	MonkeyBars, Modular Inflatable WaterPark Structure (Wibit WS 30072) Note: Requires 2 anchors	11,835.89	940.27
35 51 53 00-0010	EA	Peak, Modular Inflatable WaterPark Structure (Wibit WS 30129) Note: Requires 1 anchor	8,525.02	682.81
35 51 53 00-0011	EA	R-Connect SUS, Modular Inflatable WaterPark Structure (Wibit WS 30136) Note: Requires 1 anchor	5,274.12	419.84
35 51 53 00-0012	EA	Roundabout, Modular Inflatable WaterPark Structure (Wibit WS 30087) Note: Requires 1 anchor	9,498.82	755.65
35 51 53 00-0013	EA	SideKick, Modular Inflatable WaterPark Structure (Wibit WS 30040) Note: Requires 1 anchor	2,480.14	195.96
35 51 53 00-0014	EA	Slope, Modular Inflatable WaterPark Structure (Wibit WS 30044) Note: Requires 1 anchor	3,768.51	302.23
35 51 53 00-0015	EA	Springboard, Modular Inflatable WaterPark Structure (Wibit WS 30120) Note: Requires 3 anchors	21,581.10	1,723.82
35 51 53 00-0016	EA	Step, Modular Inflatable WaterPark Structure (Wibit WS 30104)	1,955.79	156.71
35 51 53 00-0017	EA	Target, Modular Inflatable WaterPark Structure (Wibit WS 30121) Note: Requires 1 anchor	5,124.31	408.64
35 51 53 00-0018	EA	T-Connect SUS, Modular Inflatable WaterPark Structure (Wibit WS 30134) Note: Requires 1 anchor	3,993.23	319.10
35 51 53 00-0019	EA	Twist, Modular Inflatable WaterPark Structure (Wibit WS 30128) Note: Requires 1 anchor	5,124.31	408.64
35 51 53 00-0020	EA	BalanceBeam, Modular Inflatable WaterPark Structure (Wibit WS 30002) Note: Requires 1 anchor	3,011.07	239.99
35 51 53 00-0021	EA	Base, Modular Inflatable WaterPark Structure (Wibit WS 30003) Note: Requires 1 anchor	2,256.32	179.85
35 51 53 00-0022	EA	Bridge, Modular Inflatable WaterPark Structure (Wibit WS 30013) Note: Requires 2 anchors	3,161.93	251.94
35 51 53 00-0023	EA	Curve, Modular Inflatable WaterPark Structure (Wibit WS 30016) Note: Requires 2 anchors	8,368.93	666.85
35 51 53 00-0024	EA	Flip, Modular Inflatable WaterPark Structure (Wibit WS 30019) Note: Requires 2 anchors	4,520.28	360.29
35 51 53 00-0025	EA	Junction, Modular Inflatable WaterPark Structure (Wibit WS 30025) Note: Requires 1 anchor	2,860.05	227.90
35 51 53 00-0026	EA	Slide, Modular Inflatable WaterPark Structure (Wibit WS 30042) Note: Requires 1 anchor	3,011.07	239.99
35 51 53 00-0027	EA	Swing, Modular Inflatable WaterPark Structure (Wibit WS 30047) Note: Requires 1 anchor	7,538.82	600.72
35 51 53 00-0028	EA	HighRoller, Modular Inflatable WaterPark Structure (Wibit WS 30073) Note: Requires 4 anchors	10,104.65	805.19
35 51 53 00-0029	EA	Hurdle, Modular Inflatable WaterPark Structure (Wibit WS 30079) Note: Requires 1 anchor	2,860.05	227.90
35 51 53 00-0030	EA	Quarterpipe, Modular Inflatable WaterPark Structure (Wibit WS 30100) Note: Requires 4 anchors	7,538.82	600.72
35 51 53 00-0031	EA	RodeoSlide, Modular Inflatable WaterPark Structure (Wibit WS 30102) Note: Requires 1 anchor	3,916.53	312.08
35 51 53 00-0032	EA	Step 6, Modular Inflatable WaterPark Structure (Wibit WS 30110)	7,538.82	600.72
35 51 53 00-0033	EA	Rock, Modular Inflatable WaterPark Structure (Wibit WS 30123) Note: Requires 3 anchors	20,367.64	1,623.08
35 51 53 00-0034	EA	Ledge, Modular Inflatable WaterPark Structure (Wibit WS 30130) Note: Requires 1 anchor	7,086.09	564.61
35 51 53 00-0035	EA	StartGate SUS, Modular Inflatable WaterPark Structure (Wibit WS 30132) Note: Requires 2 anchors	9,425.40	751.16
35 51 53 00-0036	EA	Turn SUS, Modular Inflatable WaterPark Structure (Wibit WS 30137) Note: Requires 2 anchors	6,633.21	528.63
35 51 53 00-0037	EA	Takeoff, Modular Inflatable WaterPark Structure (Wibit WS 30142) Note: Requires 1 anchor	1,735.72	138.35
35 51 53 00-0038	EA	Halfpipe, Modular Inflatable WaterPark Structure (Wibit WS30101) Note: Requires 4 anchors	7,840.70	624.75
35 51 53 00-0039		Anchors For Modular Inflatable WaterPark Structures *(35 51 53)*		
35 51 53 00-0040	EA	5' Length, 1-1/2" Solid Steel Square Bar, 8" Diameter, Helical Pier Anchors Note: Installed underwater	556.81	

35 52 Offshore Platform Construction *(35 50)*

35 52 13 Fixed Offshore Platform Construction *(35 52)*

35 52 13 00-0001		Fixed Docks *(35 52 13)*		
35 52 13 00-0002	SF	Fixed Dock, Aluminum, Complete	156.38	
35 52 13 00-0003	SF	Fixed Dock, Steel, Complete	120.72	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 52 13 00-0004	SF	Fixed Dock, Wood, Complete	64.61	

35 59 Marine Specialties *(35 50)*

35 59 13 Marine Fenders *(35 59)*

35 59 13 16 Resilient Foam-Filled Marine Fenders *(35 59 13)*

35 59 13 16-0001 Marine Bumpers And Fenders *(35 59 13 16)*

35 59 13 16-0002	EA	Bumpers	96.96	
35 59 13 16-0003	LF	Fenders	29.81	

35 59 23 Buoys *(35 59)*

35 59 23 16 Anchor Pendant Buoys *(35 59 23)*

35 59 23 16-0001 Buoys *(35 59 23 16)*

35 59 23 16-0002	EA	15" Diameter Cylinder Buoy Note: Vinyl Daymarks "EXCLUSION AREA NO BOATS SWIM AREA"	1,387.28	22.39

35 59 33 Marine Bollards and Cleats *(35 59)*

35 59 33 13 Cast-Steel Marine Bollards and Cleats *(35 59 33)*

35 59 33 13-0001 Cast-Steel Marine Cleats *(35 59 33 13)*

35 59 33 13-0002	EA	8" Cleat, Galvanized	36.05	
35 59 33 13-0003	EA	10" Cleat, Galvanized	45.81	
35 59 33 13-0004	EA	12" Cleat, Galvanized	55.58	

35 59 33 16 Cast-Iron Marine Bollards and Cleats *(35 59 33)*

35 59 33 16-0001 Cast-Iron Marine Cleats *(35 59 33 16)*

35 59 33 16-0002	EA	6" Safety Cleat, Cast	77.26	
35 59 33 16-0003	EA	8" Safety Cleat, Cast	101.66	

35 59 33 19 Stainless-Steel Marine Bollards and Cleats *(35 59 33)*

35 59 33 19-0001 Stainless-Steel Marine Cleats *(35 59 33 19)*

35 59 33 19-0002	EA	8" Cleat, Stainless Steel	59.26	

35 59 93 Marine Chain and Accessories *(35 59)*

35 59 93 13 Marine Chain *(35 59 93)*

35 59 93 13-0001 Marine Chain *(35 59 93 13)*

35 59 93 13-0002	LF	1" Diameter, 600' Coil, Blue Steel Poly Rope	9.18	2.22

35 59 93 16 Marine Shackles *(35 59 93)*

35 59 93 16-0001 Marine Shackles *(35 59 93 16)*

35 59 93 16-0002	EA	1/2" Stainless Steel Screw Pin Chain Shackle	79.42	29.36

END OF SECTION 35

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

40 Process Interconnections

40 05 Common Work Results For Process Interconnections *(40)*

40 05 19 Ductile Iron Process Pipe *(40 05)*

40 05 19 00-0001 Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping *(40 05 19)*

Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4103 for bolts, 40 05 19 00-4118 for gaskets.

40 05 19 00-0002 Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Piping *(40 05 19 00-0001)*

40 05 19 00-0003 4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0004	EA	4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,018.45	254.87
		For Class 52 Rating, Deduct		*-69.55*	
		For Class 54 Rating, Add		*99.47*	
		For Class 55 Rating, Add		*150.26*	
		For Class 56 Rating, Add		*200.42*	
40 05 19 00-0005	EA	4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,092.85	259.33
		For Class 52 Rating, Deduct		*-76.99*	
		For Class 54 Rating, Add		*109.70*	
		For Class 55 Rating, Add		*165.51*	
		For Class 56 Rating, Add		*220.62*	
40 05 19 00-0006	EA	4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,167.24	263.79
		For Class 52 Rating, Deduct		*-84.43*	
		For Class 54 Rating, Add		*119.93*	
		For Class 55 Rating, Add		*180.76*	
		For Class 56 Rating, Add		*240.82*	
40 05 19 00-0007	EA	4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,241.65	268.24
		For Class 52 Rating, Deduct		*-91.87*	
		For Class 54 Rating, Add		*130.16*	
		For Class 55 Rating, Add		*196.01*	
		For Class 56 Rating, Add		*261.02*	
40 05 19 00-0008	EA	4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,316.05	272.70
		For Class 52 Rating, Deduct		*-99.32*	
		For Class 54 Rating, Add		*140.39*	
		For Class 55 Rating, Add		*211.26*	
		For Class 56 Rating, Add		*281.22*	
40 05 19 00-0009	EA	4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,390.46	277.16
		For Class 52 Rating, Deduct		*-106.76*	
		For Class 54 Rating, Add		*150.62*	
		For Class 55 Rating, Add		*226.50*	
		For Class 56 Rating, Add		*301.42*	
40 05 19 00-0010	EA	4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,464.85	281.61
		For Class 52 Rating, Deduct		*-114.20*	
		For Class 54 Rating, Add		*160.85*	
		For Class 55 Rating, Add		*241.75*	
		For Class 56 Rating, Add		*321.62*	
40 05 19 00-0011	EA	4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,539.25	286.07
		For Class 52 Rating, Deduct		*-121.64*	
		For Class 54 Rating, Add		*171.07*	
		For Class 55 Rating, Add		*257.00*	
		For Class 56 Rating, Add		*341.82*	
40 05 19 00-0012	EA	4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,613.66	290.53
		For Class 52 Rating, Deduct		*-129.08*	
		For Class 54 Rating, Add		*181.30*	
		For Class 55 Rating, Add		*272.25*	
		For Class 56 Rating, Add		*362.02*	
40 05 19 00-0013	EA	4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,688.05	294.97
		For Class 52 Rating, Deduct		*-136.52*	
		For Class 54 Rating, Add		*191.53*	
		For Class 55 Rating, Add		*287.50*	
		For Class 56 Rating, Add		*382.22*	
40 05 19 00-0014	EA	4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,762.46	299.43
		For Class 52 Rating, Deduct		*-143.96*	
		For Class 54 Rating, Add		*201.76*	
		For Class 55 Rating, Add		*302.74*	
		For Class 56 Rating, Add		*402.42*	
40 05 19 00-0015	EA	4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,836.86	303.89
		For Class 52 Rating, Deduct		*-151.41*	
		For Class 54 Rating, Add		*211.99*	
		For Class 55 Rating, Add		*317.99*	
		For Class 56 Rating, Add		*422.62*	
40 05 19 00-0016	EA	4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,911.26	308.34
		For Class 52 Rating, Deduct		*-158.85*	
		For Class 54 Rating, Add		*222.22*	
		For Class 55 Rating, Add		*333.24*	
		For Class 56 Rating, Add		*442.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0017	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,985.66	312.80
		For Class 52 Rating, Deduct	*-166.29*	
		For Class 54 Rating, Add	*232.45*	
		For Class 55 Rating, Add	*348.49*	
		For Class 56 Rating, Add	*463.02*	
40 05 19 00-0018	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,060.06	317.26
		For Class 52 Rating, Deduct	*-173.73*	
		For Class 54 Rating, Add	*242.67*	
		For Class 55 Rating, Add	*363.74*	
		For Class 56 Rating, Add	*483.22*	
40 05 19 00-0019	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,134.47	321.72
		For Class 52 Rating, Deduct	*-181.17*	
		For Class 54 Rating, Add	*252.90*	
		For Class 55 Rating, Add	*378.98*	
		For Class 56 Rating, Add	*503.42*	
40 05 19 00-0020	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,208.87	326.17
		For Class 52 Rating, Deduct	*-188.61*	
		For Class 54 Rating, Add	*263.13*	
		For Class 55 Rating, Add	*394.23*	
		For Class 56 Rating, Add	*523.62*	
40 05 19 00-0021	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,283.26	330.63
		For Class 52 Rating, Deduct	*-196.06*	
		For Class 54 Rating, Add	*273.36*	
		For Class 55 Rating, Add	*409.48*	
		For Class 56 Rating, Add	*543.82*	
40 05 19 00-0022	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,357.67	335.09
		For Class 52 Rating, Deduct	*-203.50*	
		For Class 54 Rating, Add	*283.59*	
		For Class 55 Rating, Add	*424.73*	
		For Class 56 Rating, Add	*564.02*	
40 05 19 00-0023	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,432.07	339.53
		For Class 52 Rating, Deduct	*-210.94*	
		For Class 54 Rating, Add	*293.82*	
		For Class 55 Rating, Add	*439.98*	
		For Class 56 Rating, Add	*584.22*	
40 05 19 00-0024	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,506.47	343.99
		For Class 52 Rating, Deduct	*-218.38*	
		For Class 54 Rating, Add	*304.04*	
		For Class 55 Rating, Add	*455.22*	
		For Class 56 Rating, Add	*604.42*	
40 05 19 00-0025	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,580.86	348.45
		For Class 52 Rating, Deduct	*-225.82*	
		For Class 54 Rating, Add	*314.27*	
		For Class 55 Rating, Add	*470.47*	
		For Class 56 Rating, Add	*624.61*	
40 05 19 00-0026	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,655.26	352.90
		For Class 52 Rating, Deduct	*-233.26*	
		For Class 54 Rating, Add	*324.50*	
		For Class 55 Rating, Add	*485.72*	
		For Class 56 Rating, Add	*644.81*	
40 05 19 00-0027	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,729.67	357.36
		For Class 52 Rating, Deduct	*-240.70*	
		For Class 54 Rating, Add	*334.73*	
		For Class 55 Rating, Add	*500.97*	
		For Class 56 Rating, Add	*665.01*	
40 05 19 00-0028	EA	4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,804.06	361.82
		For Class 52 Rating, Deduct	*-248.14*	
		For Class 54 Rating, Add	*344.96*	
		For Class 55 Rating, Add	*516.21*	
		For Class 56 Rating, Add	*685.21*	
40 05 19 00-0029	EA	4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,878.47	366.27
		For Class 52 Rating, Deduct	*-255.59*	
		For Class 54 Rating, Add	*355.19*	
		For Class 55 Rating, Add	*531.46*	
		For Class 56 Rating, Add	*705.41*	
40 05 19 00-0030	EA	4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,952.87	370.73
		For Class 52 Rating, Deduct	*-263.03*	
		For Class 54 Rating, Add	*365.41*	
		For Class 55 Rating, Add	*546.71*	
		For Class 56 Rating, Add	*725.61*	
40 05 19 00-0031	EA	4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,027.27	375.19
		For Class 52 Rating, Deduct	*-270.47*	
		For Class 54 Rating, Add	*375.64*	
		For Class 55 Rating, Add	*561.96*	
		For Class 56 Rating, Add	*745.81*	
40 05 19 00-0032	EA	4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,101.67	379.64
		For Class 52 Rating, Deduct	*-277.91*	
		For Class 54 Rating, Add	*385.87*	
		For Class 55 Rating, Add	*577.21*	
		For Class 56 Rating, Add	*766.01*	
40 05 19 00-0033	EA	4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,176.07	384.10
		For Class 52 Rating, Deduct	*-285.35*	
		For Class 54 Rating, Add	*396.10*	
		For Class 55 Rating, Add	*592.45*	
		For Class 56 Rating, Add	*786.21*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0034	EA	4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,250.48	388.55
		For Class 52 Rating, Deduct	*-292.79*	
		For Class 54 Rating, Add	*406.33*	
		For Class 55 Rating, Add	*607.70*	
		For Class 56 Rating, Add	*806.41*	
40 05 19 00-0035	EA	4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,324.88	393.00
		For Class 52 Rating, Deduct	*-300.24*	
		For Class 54 Rating, Add	*416.56*	
		For Class 55 Rating, Add	*622.95*	
		For Class 56 Rating, Add	*826.61*	
40 05 19 00-0036	EA	4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,399.27	397.46
		For Class 52 Rating, Deduct	*-307.68*	
		For Class 54 Rating, Add	*426.79*	
		For Class 55 Rating, Add	*638.20*	
		For Class 56 Rating, Add	*846.81*	
40 05 19 00-0037	EA	4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,473.68	401.92
		For Class 52 Rating, Deduct	*-315.12*	
		For Class 54 Rating, Add	*437.01*	
		For Class 55 Rating, Add	*653.45*	
		For Class 56 Rating, Add	*867.01*	
40 05 19 00-0038	EA	4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,548.08	406.38
		For Class 52 Rating, Deduct	*-322.56*	
		For Class 54 Rating, Add	*447.24*	
		For Class 55 Rating, Add	*668.69*	
		For Class 56 Rating, Add	*887.21*	
40 05 19 00-0039	EA	4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,622.49	410.83
		For Class 52 Rating, Deduct	*-330.00*	
		For Class 54 Rating, Add	*457.47*	
		For Class 55 Rating, Add	*683.94*	
		For Class 56 Rating, Add	*907.41*	
40 05 19 00-0040	EA	4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,696.88	415.29
		For Class 52 Rating, Deduct	*-337.44*	
		For Class 54 Rating, Add	*467.70*	
		For Class 55 Rating, Add	*699.19*	
		For Class 56 Rating, Add	*927.61*	
40 05 19 00-0041	EA	4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,771.28	419.75
		For Class 52 Rating, Deduct	*-344.88*	
		For Class 54 Rating, Add	*477.93*	
		For Class 55 Rating, Add	*714.44*	
		For Class 56 Rating, Add	*947.81*	
40 05 19 00-0042	EA	4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,845.69	424.20
		For Class 52 Rating, Deduct	*-352.33*	
		For Class 54 Rating, Add	*488.16*	
		For Class 55 Rating, Add	*729.69*	
		For Class 56 Rating, Add	*968.01*	

40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0044	EA	6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,290.09	320.82
		For Class 52 Rating, Deduct	*-88.44*	
		For Class 54 Rating, Add	*126.43*	
		For Class 55 Rating, Add	*190.96*	
		For Class 56 Rating, Add	*254.68*	
40 05 19 00-0045	EA	6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,380.09	325.28
		For Class 52 Rating, Deduct	*-97.60*	
		For Class 54 Rating, Add	*139.00*	
		For Class 55 Rating, Add	*209.68*	
		For Class 56 Rating, Add	*279.48*	
40 05 19 00-0046	EA	6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,470.12	329.74
		For Class 52 Rating, Deduct	*-106.76*	
		For Class 54 Rating, Add	*151.57*	
		For Class 55 Rating, Add	*228.42*	
		For Class 56 Rating, Add	*304.29*	
40 05 19 00-0047	EA	6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,560.13	334.19
		For Class 52 Rating, Deduct	*-115.92*	
		For Class 54 Rating, Add	*164.14*	
		For Class 55 Rating, Add	*247.15*	
		For Class 56 Rating, Add	*329.09*	
40 05 19 00-0048	EA	6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,650.14	338.65
		For Class 52 Rating, Deduct	*-125.07*	
		For Class 54 Rating, Add	*176.71*	
		For Class 55 Rating, Add	*265.87*	
		For Class 56 Rating, Add	*353.90*	
40 05 19 00-0049	EA	6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,740.15	343.11
		For Class 52 Rating, Deduct	*-134.23*	
		For Class 54 Rating, Add	*189.28*	
		For Class 55 Rating, Add	*284.60*	
		For Class 56 Rating, Add	*378.70*	
40 05 19 00-0050	EA	6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,830.16	347.56
		For Class 52 Rating, Deduct	*-143.39*	
		For Class 54 Rating, Add	*201.85*	
		For Class 55 Rating, Add	*303.33*	
		For Class 56 Rating, Add	*403.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0051	EA	6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,920.18	352.01
		For Class 52 Rating, Deduct	*-152.55*	
		For Class 54 Rating, Add	*214.42*	
		For Class 55 Rating, Add	*322.06*	
		For Class 56 Rating, Add	*428.31*	
40 05 19 00-0052	EA	6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,010.19	356.47
		For Class 52 Rating, Deduct	*-161.71*	
		For Class 54 Rating, Add	*226.99*	
		For Class 55 Rating, Add	*340.79*	
		For Class 56 Rating, Add	*453.12*	
40 05 19 00-0053	EA	6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,100.20	360.92
		For Class 52 Rating, Deduct	*-170.87*	
		For Class 54 Rating, Add	*239.56*	
		For Class 55 Rating, Add	*359.52*	
		For Class 56 Rating, Add	*477.92*	
40 05 19 00-0054	EA	6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,190.22	365.38
		For Class 52 Rating, Deduct	*-180.03*	
		For Class 54 Rating, Add	*252.13*	
		For Class 55 Rating, Add	*378.25*	
		For Class 56 Rating, Add	*502.73*	
40 05 19 00-0055	EA	6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,280.23	369.84
		For Class 52 Rating, Deduct	*-189.19*	
		For Class 54 Rating, Add	*264.70*	
		For Class 55 Rating, Add	*396.98*	
		For Class 56 Rating, Add	*527.53*	
40 05 19 00-0056	EA	6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,370.25	374.29
		For Class 52 Rating, Deduct	*-198.34*	
		For Class 54 Rating, Add	*277.27*	
		For Class 55 Rating, Add	*415.71*	
		For Class 56 Rating, Add	*552.34*	
40 05 19 00-0057	EA	6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,460.25	378.75
		For Class 52 Rating, Deduct	*-207.50*	
		For Class 54 Rating, Add	*289.84*	
		For Class 55 Rating, Add	*434.44*	
		For Class 56 Rating, Add	*577.14*	
40 05 19 00-0058	EA	6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,550.26	383.21
		For Class 52 Rating, Deduct	*-216.66*	
		For Class 54 Rating, Add	*302.41*	
		For Class 55 Rating, Add	*453.17*	
		For Class 56 Rating, Add	*601.95*	
40 05 19 00-0059	EA	6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,640.28	387.66
		For Class 52 Rating, Deduct	*-225.82*	
		For Class 54 Rating, Add	*314.98*	
		For Class 55 Rating, Add	*471.90*	
		For Class 56 Rating, Add	*626.75*	
40 05 19 00-0060	EA	6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,730.29	392.12
		For Class 52 Rating, Deduct	*-234.98*	
		For Class 54 Rating, Add	*327.56*	
		For Class 55 Rating, Add	*490.63*	
		For Class 56 Rating, Add	*651.56*	
40 05 19 00-0061	EA	6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,820.31	396.57
		For Class 52 Rating, Deduct	*-244.14*	
		For Class 54 Rating, Add	*340.13*	
		For Class 55 Rating, Add	*509.36*	
		For Class 56 Rating, Add	*676.37*	
40 05 19 00-0062	EA	6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,910.32	401.03
		For Class 52 Rating, Deduct	*-253.30*	
		For Class 54 Rating, Add	*352.70*	
		For Class 55 Rating, Add	*528.08*	
		For Class 56 Rating, Add	*701.17*	
40 05 19 00-0063	EA	6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,000.33	405.48
		For Class 52 Rating, Deduct	*-262.46*	
		For Class 54 Rating, Add	*365.27*	
		For Class 55 Rating, Add	*546.81*	
		For Class 56 Rating, Add	*725.98*	
40 05 19 00-0064	EA	6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,090.34	409.94
		For Class 52 Rating, Deduct	*-271.61*	
		For Class 54 Rating, Add	*377.84*	
		For Class 55 Rating, Add	*565.54*	
		For Class 56 Rating, Add	*750.78*	
40 05 19 00-0065	EA	6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,180.35	414.40
		For Class 52 Rating, Deduct	*-280.77*	
		For Class 54 Rating, Add	*390.41*	
		For Class 55 Rating, Add	*584.27*	
		For Class 56 Rating, Add	*775.58*	
40 05 19 00-0066	EA	6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,270.37	418.85
		For Class 52 Rating, Deduct	*-289.93*	
		For Class 54 Rating, Add	*402.98*	
		For Class 55 Rating, Add	*603.00*	
		For Class 56 Rating, Add	*800.39*	
40 05 19 00-0067	EA	6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,360.39	423.31
		For Class 52 Rating, Deduct	*-299.09*	
		For Class 54 Rating, Add	*415.55*	
		For Class 55 Rating, Add	*621.73*	
		For Class 56 Rating, Add	*825.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0068	EA	6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,450.39	427.77
		For Class 52 Rating, Deduct	*-308.25*	
		For Class 54 Rating, Add	*428.12*	
		For Class 55 Rating, Add	*640.46*	
		For Class 56 Rating, Add	*850.00*	
40 05 19 00-0069	EA	6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,540.41	432.22
		For Class 52 Rating, Deduct	*-317.41*	
		For Class 54 Rating, Add	*440.69*	
		For Class 55 Rating, Add	*659.19*	
		For Class 56 Rating, Add	*874.81*	
40 05 19 00-0070	EA	6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,630.42	436.68
		For Class 52 Rating, Deduct	*-326.57*	
		For Class 54 Rating, Add	*453.26*	
		For Class 55 Rating, Add	*677.92*	
		For Class 56 Rating, Add	*899.61*	
40 05 19 00-0071	EA	6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,720.43	441.14
		For Class 52 Rating, Deduct	*-335.73*	
		For Class 54 Rating, Add	*465.83*	
		For Class 55 Rating, Add	*696.65*	
		For Class 56 Rating, Add	*924.42*	
40 05 19 00-0072	EA	6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,810.44	445.58
		For Class 52 Rating, Deduct	*-344.88*	
		For Class 54 Rating, Add	*478.40*	
		For Class 55 Rating, Add	*715.38*	
		For Class 56 Rating, Add	*949.22*	
40 05 19 00-0073	EA	6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,900.46	450.04
		For Class 52 Rating, Deduct	*-354.04*	
		For Class 54 Rating, Add	*490.97*	
		For Class 55 Rating, Add	*734.11*	
		For Class 56 Rating, Add	*974.03*	
40 05 19 00-0074	EA	6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,990.48	454.50
		For Class 52 Rating, Deduct	*-363.20*	
		For Class 54 Rating, Add	*503.54*	
		For Class 55 Rating, Add	*752.84*	
		For Class 56 Rating, Add	*998.83*	
40 05 19 00-0075	EA	6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,080.48	458.95
		For Class 52 Rating, Deduct	*-372.36*	
		For Class 54 Rating, Add	*516.11*	
		For Class 55 Rating, Add	*771.57*	
		For Class 56 Rating, Add	*1,023.64*	
40 05 19 00-0076	EA	6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,170.50	463.41
		For Class 52 Rating, Deduct	*-381.52*	
		For Class 54 Rating, Add	*528.68*	
		For Class 55 Rating, Add	*790.30*	
		For Class 56 Rating, Add	*1,048.44*	
40 05 19 00-0077	EA	6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,260.51	467.87
		For Class 52 Rating, Deduct	*-390.68*	
		For Class 54 Rating, Add	*541.25*	
		For Class 55 Rating, Add	*809.02*	
		For Class 56 Rating, Add	*1,073.25*	
40 05 19 00-0078	EA	6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,350.52	472.32
		For Class 52 Rating, Deduct	*-399.84*	
		For Class 54 Rating, Add	*553.82*	
		For Class 55 Rating, Add	*827.75*	
		For Class 56 Rating, Add	*1,098.05*	
40 05 19 00-0079	EA	6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,440.53	476.78
		For Class 52 Rating, Deduct	*-409.00*	
		For Class 54 Rating, Add	*566.39*	
		For Class 55 Rating, Add	*846.48*	
		For Class 56 Rating, Add	*1,122.86*	
40 05 19 00-0080	EA	6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,530.55	481.24
		For Class 52 Rating, Deduct	*-418.16*	
		For Class 54 Rating, Add	*578.96*	
		For Class 55 Rating, Add	*865.21*	
		For Class 56 Rating, Add	*1,147.66*	
40 05 19 00-0081	EA	6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,620.57	485.69
		For Class 52 Rating, Deduct	*-427.31*	
		For Class 54 Rating, Add	*591.53*	
		For Class 55 Rating, Add	*883.94*	
		For Class 56 Rating, Add	*1,172.47*	
40 05 19 00-0082	EA	6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,710.58	490.14
		For Class 52 Rating, Deduct	*-436.47*	
		For Class 54 Rating, Add	*604.10*	
		For Class 55 Rating, Add	*902.67*	
		For Class 56 Rating, Add	*1,197.27*	
40 05 19 00-0083		8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*		
40 05 19 00-0084	EA	8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,804.99	409.94
		For Class 52 Rating, Deduct	*-130.23*	
		For Class 54 Rating, Add	*185.03*	
		For Class 55 Rating, Add	*278.91*	
		For Class 56 Rating, Add	*371.60*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0085	EA	8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,926.23	414.40
		For Class 52 Rating, Deduct	*-142.82*	
		For Class 54 Rating, Add	*202.29*	
		For Class 55 Rating, Add	*304.60*	
		For Class 56 Rating, Add	*405.62*	
40 05 19 00-0086	EA	8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,047.47	418.85
		For Class 52 Rating, Deduct	*-155.41*	
		For Class 54 Rating, Add	*219.54*	
		For Class 55 Rating, Add	*330.29*	
		For Class 56 Rating, Add	*439.63*	
40 05 19 00-0087	EA	8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,168.71	423.31
		For Class 52 Rating, Deduct	*-168.01*	
		For Class 54 Rating, Add	*236.80*	
		For Class 55 Rating, Add	*355.99*	
		For Class 56 Rating, Add	*473.65*	
40 05 19 00-0088	EA	8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,289.93	427.77
		For Class 52 Rating, Deduct	*-180.60*	
		For Class 54 Rating, Add	*254.05*	
		For Class 55 Rating, Add	*381.68*	
		For Class 56 Rating, Add	*507.67*	
40 05 19 00-0089	EA	8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,411.18	432.22
		For Class 52 Rating, Deduct	*-193.19*	
		For Class 54 Rating, Add	*271.30*	
		For Class 55 Rating, Add	*407.37*	
		For Class 56 Rating, Add	*541.68*	
40 05 19 00-0090	EA	8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,532.41	436.68
		For Class 52 Rating, Deduct	*-205.79*	
		For Class 54 Rating, Add	*288.56*	
		For Class 55 Rating, Add	*433.06*	
		For Class 56 Rating, Add	*575.70*	
40 05 19 00-0091	EA	8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,653.64	441.14
		For Class 52 Rating, Deduct	*-218.38*	
		For Class 54 Rating, Add	*305.81*	
		For Class 55 Rating, Add	*458.75*	
		For Class 56 Rating, Add	*609.71*	
40 05 19 00-0092	EA	8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,774.88	445.58
		For Class 52 Rating, Deduct	*-230.97*	
		For Class 54 Rating, Add	*323.06*	
		For Class 55 Rating, Add	*484.45*	
		For Class 56 Rating, Add	*643.73*	
40 05 19 00-0093	EA	8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,896.11	450.04
		For Class 52 Rating, Deduct	*-243.57*	
		For Class 54 Rating, Add	*340.32*	
		For Class 55 Rating, Add	*510.14*	
		For Class 56 Rating, Add	*677.75*	
40 05 19 00-0094	EA	8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,017.36	454.50
		For Class 52 Rating, Deduct	*-256.16*	
		For Class 54 Rating, Add	*357.57*	
		For Class 55 Rating, Add	*535.83*	
		For Class 56 Rating, Add	*711.76*	
40 05 19 00-0095	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,138.58	458.95
		For Class 52 Rating, Deduct	*-268.75*	
		For Class 54 Rating, Add	*374.82*	
		For Class 55 Rating, Add	*561.52*	
		For Class 56 Rating, Add	*745.78*	
40 05 19 00-0096	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,259.83	463.41
		For Class 52 Rating, Deduct	*-281.35*	
		For Class 54 Rating, Add	*392.08*	
		For Class 55 Rating, Add	*587.22*	
		For Class 56 Rating, Add	*779.80*	
40 05 19 00-0097	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,381.06	467.87
		For Class 52 Rating, Deduct	*-293.94*	
		For Class 54 Rating, Add	*409.33*	
		For Class 55 Rating, Add	*612.91*	
		For Class 56 Rating, Add	*813.81*	
40 05 19 00-0098	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,502.30	472.32
		For Class 52 Rating, Deduct	*-306.53*	
		For Class 54 Rating, Add	*426.59*	
		For Class 55 Rating, Add	*638.60*	
		For Class 56 Rating, Add	*847.83*	
40 05 19 00-0099	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,623.53	476.78
		For Class 52 Rating, Deduct	*-319.13*	
		For Class 54 Rating, Add	*443.84*	
		For Class 55 Rating, Add	*664.29*	
		For Class 56 Rating, Add	*881.84*	
40 05 19 00-0100	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,744.77	481.24
		For Class 52 Rating, Deduct	*-331.72*	
		For Class 54 Rating, Add	*461.09*	
		For Class 55 Rating, Add	*689.98*	
		For Class 56 Rating, Add	*915.86*	
40 05 19 00-0101	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,866.01	485.69
		For Class 52 Rating, Deduct	*-344.31*	
		For Class 54 Rating, Add	*478.35*	
		For Class 55 Rating, Add	*715.68*	
		For Class 56 Rating, Add	*949.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0102	EA	8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,987.24	490.14
		For Class 52 Rating, Deduct	*-356.90*	
		For Class 54 Rating, Add	*495.60*	
		For Class 55 Rating, Add	*741.37*	
		For Class 56 Rating, Add	*983.89*	
40 05 19 00-0103	EA	8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,108.47	494.60
		For Class 52 Rating, Deduct	*-369.50*	
		For Class 54 Rating, Add	*512.85*	
		For Class 55 Rating, Add	*767.06*	
		For Class 56 Rating, Add	*1,017.91*	
40 05 19 00-0104	EA	8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,229.71	499.06
		For Class 52 Rating, Deduct	*-382.09*	
		For Class 54 Rating, Add	*530.11*	
		For Class 55 Rating, Add	*792.75*	
		For Class 56 Rating, Add	*1,051.92*	
40 05 19 00-0105	EA	8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,350.95	503.51
		For Class 52 Rating, Deduct	*-394.69*	
		For Class 54 Rating, Add	*547.36*	
		For Class 55 Rating, Add	*818.44*	
		For Class 56 Rating, Add	*1,085.94*	
40 05 19 00-0106	EA	8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,472.18	507.97
		For Class 52 Rating, Deduct	*-407.28*	
		For Class 54 Rating, Add	*564.62*	
		For Class 55 Rating, Add	*844.14*	
		For Class 56 Rating, Add	*1,119.95*	
40 05 19 00-0107	EA	8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,593.42	512.43
		For Class 52 Rating, Deduct	*-419.87*	
		For Class 54 Rating, Add	*581.87*	
		For Class 55 Rating, Add	*869.83*	
		For Class 56 Rating, Add	*1,153.97*	
40 05 19 00-0108	EA	8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,714.65	516.88
		For Class 52 Rating, Deduct	*-432.47*	
		For Class 54 Rating, Add	*599.12*	
		For Class 55 Rating, Add	*895.52*	
		For Class 56 Rating, Add	*1,187.99*	
40 05 19 00-0109	EA	8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,835.90	521.34
		For Class 52 Rating, Deduct	*-445.06*	
		For Class 54 Rating, Add	*616.38*	
		For Class 55 Rating, Add	*921.21*	
		For Class 56 Rating, Add	*1,222.00*	
40 05 19 00-0110	EA	8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,957.12	525.80
		For Class 52 Rating, Deduct	*-457.65*	
		For Class 54 Rating, Add	*633.63*	
		For Class 55 Rating, Add	*946.90*	
		For Class 56 Rating, Add	*1,256.02*	
40 05 19 00-0111	EA	8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,078.36	530.25
		For Class 52 Rating, Deduct	*-470.24*	
		For Class 54 Rating, Add	*650.88*	
		For Class 55 Rating, Add	*972.60*	
		For Class 56 Rating, Add	*1,290.03*	
40 05 19 00-0112	EA	8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,199.60	534.70
		For Class 52 Rating, Deduct	*-482.84*	
		For Class 54 Rating, Add	*668.14*	
		For Class 55 Rating, Add	*998.29*	
		For Class 56 Rating, Add	*1,324.05*	
40 05 19 00-0113	EA	8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,320.83	539.16
		For Class 52 Rating, Deduct	*-495.43*	
		For Class 54 Rating, Add	*685.39*	
		For Class 55 Rating, Add	*1,023.98*	
		For Class 56 Rating, Add	*1,358.07*	
40 05 19 00-0114	EA	8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,442.07	543.61
		For Class 52 Rating, Deduct	*-508.03*	
		For Class 54 Rating, Add	*702.65*	
		For Class 55 Rating, Add	*1,049.67*	
		For Class 56 Rating, Add	*1,392.08*	
40 05 19 00-0115	EA	8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,563.30	548.07
		For Class 52 Rating, Deduct	*-520.62*	
		For Class 54 Rating, Add	*719.90*	
		For Class 55 Rating, Add	*1,075.36*	
		For Class 56 Rating, Add	*1,426.10*	
40 05 19 00-0116	EA	8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,684.55	552.53
		For Class 52 Rating, Deduct	*-533.21*	
		For Class 54 Rating, Add	*737.15*	
		For Class 55 Rating, Add	*1,101.06*	
		For Class 56 Rating, Add	*1,460.12*	
40 05 19 00-0117	EA	8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,805.78	556.98
		For Class 52 Rating, Deduct	*-545.80*	
		For Class 54 Rating, Add	*754.41*	
		For Class 55 Rating, Add	*1,126.75*	
		For Class 56 Rating, Add	*1,494.13*	
40 05 19 00-0118	EA	8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,927.01	561.44
		For Class 52 Rating, Deduct	*-558.40*	
		For Class 54 Rating, Add	*771.66*	
		For Class 55 Rating, Add	*1,152.44*	
		For Class 56 Rating, Add	*1,528.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0119	EA	8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,048.25	565.90
		For Class 52 Rating, Deduct	*-570.99*	
		For Class 54 Rating, Add	*788.91*	
		For Class 55 Rating, Add	*1,178.13*	
		For Class 56 Rating, Add	*1,562.16*	
40 05 19 00-0120	EA	8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,169.48	570.35
		For Class 52 Rating, Deduct	*-583.58*	
		For Class 54 Rating, Add	*806.17*	
		For Class 55 Rating, Add	*1,203.82*	
		For Class 56 Rating, Add	*1,596.18*	
40 05 19 00-0121	EA	8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,290.72	574.81
		For Class 52 Rating, Deduct	*-596.18*	
		For Class 54 Rating, Add	*823.42*	
		For Class 55 Rating, Add	*1,229.52*	
		For Class 56 Rating, Add	*1,630.19*	
40 05 19 00-0122	EA	8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,411.95	579.27
		For Class 52 Rating, Deduct	*-608.77*	
		For Class 54 Rating, Add	*840.67*	
		For Class 55 Rating, Add	*1,255.21*	
		For Class 56 Rating, Add	*1,664.21*	

40 05 19 00-0123 10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0124	EA	10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,275.67	499.06
		For Class 52 Rating, Deduct	*-167.15*	
		For Class 54 Rating, Add	*237.00*	
		For Class 55 Rating, Add	*357.00*	
		For Class 56 Rating, Add	*475.48*	
40 05 19 00-0125	EA	10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,433.33	503.51
		For Class 52 Rating, Deduct	*-183.75*	
		For Class 54 Rating, Add	*259.72*	
		For Class 55 Rating, Add	*390.82*	
		For Class 56 Rating, Add	*520.24*	
40 05 19 00-0126	EA	10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,590.99	507.97
		For Class 52 Rating, Deduct	*-200.35*	
		For Class 54 Rating, Add	*282.44*	
		For Class 55 Rating, Add	*424.63*	
		For Class 56 Rating, Add	*565.00*	
40 05 19 00-0127	EA	10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,748.66	512.43
		For Class 52 Rating, Deduct	*-216.95*	
		For Class 54 Rating, Add	*305.16*	
		For Class 55 Rating, Add	*458.45*	
		For Class 56 Rating, Add	*609.77*	
40 05 19 00-0128	EA	10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,906.32	516.88
		For Class 52 Rating, Deduct	*-233.55*	
		For Class 54 Rating, Add	*327.87*	
		For Class 55 Rating, Add	*492.26*	
		For Class 56 Rating, Add	*654.53*	
40 05 19 00-0129	EA	10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,063.99	521.34
		For Class 52 Rating, Deduct	*-250.15*	
		For Class 54 Rating, Add	*350.59*	
		For Class 55 Rating, Add	*526.08*	
		For Class 56 Rating, Add	*699.29*	
40 05 19 00-0130	EA	10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,221.64	525.80
		For Class 52 Rating, Deduct	*-266.75*	
		For Class 54 Rating, Add	*373.31*	
		For Class 55 Rating, Add	*559.89*	
		For Class 56 Rating, Add	*744.05*	
40 05 19 00-0131	EA	10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,379.31	530.25
		For Class 52 Rating, Deduct	*-283.35*	
		For Class 54 Rating, Add	*396.03*	
		For Class 55 Rating, Add	*593.71*	
		For Class 56 Rating, Add	*788.81*	
40 05 19 00-0132	EA	10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,536.97	534.70
		For Class 52 Rating, Deduct	*-299.95*	
		For Class 54 Rating, Add	*418.74*	
		For Class 55 Rating, Add	*627.52*	
		For Class 56 Rating, Add	*833.57*	
40 05 19 00-0133	EA	10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,694.63	539.16
		For Class 52 Rating, Deduct	*-316.55*	
		For Class 54 Rating, Add	*441.46*	
		For Class 55 Rating, Add	*661.34*	
		For Class 56 Rating, Add	*878.34*	
40 05 19 00-0134	EA	10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,852.29	543.61
		For Class 52 Rating, Deduct	*-333.15*	
		For Class 54 Rating, Add	*464.18*	
		For Class 55 Rating, Add	*695.15*	
		For Class 56 Rating, Add	*923.10*	
40 05 19 00-0135	EA	10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,009.96	548.07
		For Class 52 Rating, Deduct	*-349.75*	
		For Class 54 Rating, Add	*486.90*	
		For Class 55 Rating, Add	*728.97*	
		For Class 56 Rating, Add	*967.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0136	EA	10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,167.63	552.53
		For Class 52 Rating, Deduct	*-366.35*	
		For Class 54 Rating, Add	*509.62*	
		For Class 55 Rating, Add	*762.78*	
		For Class 56 Rating, Add	*1,012.62*	
40 05 19 00-0137	EA	10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,325.29	556.98
		For Class 52 Rating, Deduct	*-382.95*	
		For Class 54 Rating, Add	*532.33*	
		For Class 55 Rating, Add	*796.60*	
		For Class 56 Rating, Add	*1,057.39*	
40 05 19 00-0138	EA	10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,482.94	561.44
		For Class 52 Rating, Deduct	*-399.55*	
		For Class 54 Rating, Add	*555.05*	
		For Class 55 Rating, Add	*830.41*	
		For Class 56 Rating, Add	*1,102.15*	
40 05 19 00-0139	EA	10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,640.61	565.90
		For Class 52 Rating, Deduct	*-416.15*	
		For Class 54 Rating, Add	*577.77*	
		For Class 55 Rating, Add	*864.23*	
		For Class 56 Rating, Add	*1,146.91*	
40 05 19 00-0140	EA	10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,798.27	570.35
		For Class 52 Rating, Deduct	*-432.75*	
		For Class 54 Rating, Add	*600.49*	
		For Class 55 Rating, Add	*898.04*	
		For Class 56 Rating, Add	*1,191.67*	
40 05 19 00-0141	EA	10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,955.93	574.81
		For Class 52 Rating, Deduct	*-449.35*	
		For Class 54 Rating, Add	*623.20*	
		For Class 55 Rating, Add	*931.86*	
		For Class 56 Rating, Add	*1,236.43*	
40 05 19 00-0142	EA	10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,113.60	579.27
		For Class 52 Rating, Deduct	*-465.95*	
		For Class 54 Rating, Add	*645.92*	
		For Class 55 Rating, Add	*965.68*	
		For Class 56 Rating, Add	*1,281.20*	
40 05 19 00-0143	EA	10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,271.26	583.72
		For Class 52 Rating, Deduct	*-482.55*	
		For Class 54 Rating, Add	*668.64*	
		For Class 55 Rating, Add	*999.49*	
		For Class 56 Rating, Add	*1,325.96*	
40 05 19 00-0144	EA	10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,428.93	588.17
		For Class 52 Rating, Deduct	*-499.15*	
		For Class 54 Rating, Add	*691.36*	
		For Class 55 Rating, Add	*1,033.31*	
		For Class 56 Rating, Add	*1,370.72*	
40 05 19 00-0145	EA	10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,586.58	592.63
		For Class 52 Rating, Deduct	*-515.75*	
		For Class 54 Rating, Add	*714.07*	
		For Class 55 Rating, Add	*1,067.12*	
		For Class 56 Rating, Add	*1,415.48*	
40 05 19 00-0146	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,744.25	597.09
		For Class 52 Rating, Deduct	*-532.35*	
		For Class 54 Rating, Add	*736.79*	
		For Class 55 Rating, Add	*1,100.94*	
		For Class 56 Rating, Add	*1,460.24*	
40 05 19 00-0147	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,901.91	601.54
		For Class 52 Rating, Deduct	*-548.95*	
		For Class 54 Rating, Add	*759.51*	
		For Class 55 Rating, Add	*1,134.75*	
		For Class 56 Rating, Add	*1,505.00*	
40 05 19 00-0148	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,059.57	606.00
		For Class 52 Rating, Deduct	*-565.55*	
		For Class 54 Rating, Add	*782.23*	
		For Class 55 Rating, Add	*1,168.57*	
		For Class 56 Rating, Add	*1,549.76*	
40 05 19 00-0149	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,217.24	610.46
		For Class 52 Rating, Deduct	*-582.15*	
		For Class 54 Rating, Add	*804.95*	
		For Class 55 Rating, Add	*1,202.38*	
		For Class 56 Rating, Add	*1,594.53*	
40 05 19 00-0150	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,374.90	614.91
		For Class 52 Rating, Deduct	*-598.75*	
		For Class 54 Rating, Add	*827.66*	
		For Class 55 Rating, Add	*1,236.20*	
		For Class 56 Rating, Add	*1,639.29*	
40 05 19 00-0151	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,532.57	619.37
		For Class 52 Rating, Deduct	*-615.35*	
		For Class 54 Rating, Add	*850.38*	
		For Class 55 Rating, Add	*1,270.01*	
		For Class 56 Rating, Add	*1,684.05*	
40 05 19 00-0152	EA	10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,690.23	623.83
		For Class 52 Rating, Deduct	*-631.95*	
		For Class 54 Rating, Add	*873.10*	
		For Class 55 Rating, Add	*1,303.83*	
		For Class 56 Rating, Add	*1,728.81*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,847.88	628.27
		For Class 52 Rating, Deduct	*-648.55*	
		For Class 54 Rating, Add	*895.82*	
		For Class 55 Rating, Add	*1,337.64*	
		For Class 56 Rating, Add	*1,773.57*	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,005.55	632.73
		For Class 52 Rating, Deduct	*-665.15*	
		For Class 54 Rating, Add	*918.53*	
		For Class 55 Rating, Add	*1,371.46*	
		For Class 56 Rating, Add	*1,818.34*	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,160.61	637.19
		For Class 52 Rating, Deduct	*-681.47*	
		For Class 54 Rating, Add	*940.86*	
		For Class 55 Rating, Add	*1,404.69*	
		For Class 56 Rating, Add	*1,862.33*	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,320.87	641.64
		For Class 52 Rating, Deduct	*-698.35*	
		For Class 54 Rating, Add	*963.97*	
		For Class 55 Rating, Add	*1,439.09*	
		For Class 56 Rating, Add	*1,907.86*	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,478.54	646.10
		For Class 52 Rating, Deduct	*-714.96*	
		For Class 54 Rating, Add	*986.69*	
		For Class 55 Rating, Add	*1,472.91*	
		For Class 56 Rating, Add	*1,952.62*	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,636.20	650.56
		For Class 52 Rating, Deduct	*-731.56*	
		For Class 54 Rating, Add	*1,009.40*	
		For Class 55 Rating, Add	*1,506.72*	
		For Class 56 Rating, Add	*1,997.39*	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,793.87	655.01
		For Class 52 Rating, Deduct	*-748.16*	
		For Class 54 Rating, Add	*1,032.12*	
		For Class 55 Rating, Add	*1,540.54*	
		For Class 56 Rating, Add	*2,042.15*	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,951.52	659.47
		For Class 52 Rating, Deduct	*-764.76*	
		For Class 54 Rating, Add	*1,054.84*	
		For Class 55 Rating, Add	*1,574.35*	
		For Class 56 Rating, Add	*2,086.91*	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,109.19	663.93
		For Class 52 Rating, Deduct	*-781.36*	
		For Class 54 Rating, Add	*1,077.56*	
		For Class 55 Rating, Add	*1,608.17*	
		For Class 56 Rating, Add	*2,131.67*	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,266.85	668.38
		For Class 52 Rating, Deduct	*-797.96*	
		For Class 54 Rating, Add	*1,100.27*	
		For Class 55 Rating, Add	*1,641.98*	
		For Class 56 Rating, Add	*2,176.43*	

40 05 19 00-0163 12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,979.89	623.83
		For Class 52 Rating, Deduct	*-223.82*	
		For Class 54 Rating, Add	*316.55*	
		For Class 55 Rating, Add	*476.42*	
		For Class 56 Rating, Add	*634.26*	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,176.57	628.27
		For Class 52 Rating, Deduct	*-244.71*	
		For Class 54 Rating, Add	*345.12*	
		For Class 55 Rating, Add	*518.94*	
		For Class 56 Rating, Add	*690.54*	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,373.27	632.73
		For Class 52 Rating, Deduct	*-265.60*	
		For Class 54 Rating, Add	*373.69*	
		For Class 55 Rating, Add	*561.46*	
		For Class 56 Rating, Add	*746.81*	
40 05 19 00-0167	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,569.96	637.19
		For Class 52 Rating, Deduct	*-286.50*	
		For Class 54 Rating, Add	*402.26*	
		For Class 55 Rating, Add	*603.98*	
		For Class 56 Rating, Add	*803.09*	
40 05 19 00-0168	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,766.65	641.64
		For Class 52 Rating, Deduct	*-307.39*	
		For Class 54 Rating, Add	*430.84*	
		For Class 55 Rating, Add	*646.50*	
		For Class 56 Rating, Add	*859.36*	
40 05 19 00-0169	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,963.34	646.10
		For Class 52 Rating, Deduct	*-328.28*	
		For Class 54 Rating, Add	*459.41*	
		For Class 55 Rating, Add	*689.02*	
		For Class 56 Rating, Add	*915.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0170	EA	12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,160.03	650.56
		For Class 52 Rating, Deduct	*-349.18*	
		For Class 54 Rating, Add	*487.98*	
		For Class 55 Rating, Add	*731.53*	
		For Class 56 Rating, Add	*971.92*	
40 05 19 00-0171	EA	12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,356.73	655.01
		For Class 52 Rating, Deduct	*-370.07*	
		For Class 54 Rating, Add	*516.55*	
		For Class 55 Rating, Add	*774.05*	
		For Class 56 Rating, Add	*1,028.19*	
40 05 19 00-0172	EA	12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,553.41	659.47
		For Class 52 Rating, Deduct	*-390.96*	
		For Class 54 Rating, Add	*545.12*	
		For Class 55 Rating, Add	*816.57*	
		For Class 56 Rating, Add	*1,084.47*	
40 05 19 00-0173	EA	12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,750.11	663.93
		For Class 52 Rating, Deduct	*-411.86*	
		For Class 54 Rating, Add	*573.70*	
		For Class 55 Rating, Add	*859.09*	
		For Class 56 Rating, Add	*1,140.74*	
40 05 19 00-0174	EA	12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,946.80	668.38
		For Class 52 Rating, Deduct	*-432.75*	
		For Class 54 Rating, Add	*602.27*	
		For Class 55 Rating, Add	*901.61*	
		For Class 56 Rating, Add	*1,197.02*	
40 05 19 00-0175	EA	12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,143.49	672.83
		For Class 52 Rating, Deduct	*-453.64*	
		For Class 54 Rating, Add	*630.84*	
		For Class 55 Rating, Add	*944.13*	
		For Class 56 Rating, Add	*1,253.29*	
40 05 19 00-0176	EA	12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,340.18	677.29
		For Class 52 Rating, Deduct	*-474.54*	
		For Class 54 Rating, Add	*659.41*	
		For Class 55 Rating, Add	*986.65*	
		For Class 56 Rating, Add	*1,309.57*	
40 05 19 00-0177	EA	12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,536.87	681.75
		For Class 52 Rating, Deduct	*-495.43*	
		For Class 54 Rating, Add	*687.98*	
		For Class 55 Rating, Add	*1,029.16*	
		For Class 56 Rating, Add	*1,365.84*	
40 05 19 00-0178	EA	12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,733.57	686.20
		For Class 52 Rating, Deduct	*-516.32*	
		For Class 54 Rating, Add	*716.56*	
		For Class 55 Rating, Add	*1,071.68*	
		For Class 56 Rating, Add	*1,422.12*	
40 05 19 00-0179	EA	12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,930.26	690.66
		For Class 52 Rating, Deduct	*-537.22*	
		For Class 54 Rating, Add	*745.13*	
		For Class 55 Rating, Add	*1,114.20*	
		For Class 56 Rating, Add	*1,478.39*	
40 05 19 00-0180	EA	12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,126.94	695.12
		For Class 52 Rating, Deduct	*-558.11*	
		For Class 54 Rating, Add	*773.70*	
		For Class 55 Rating, Add	*1,156.72*	
		For Class 56 Rating, Add	*1,534.67*	
40 05 19 00-0181	EA	12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,323.64	699.57
		For Class 52 Rating, Deduct	*-579.00*	
		For Class 54 Rating, Add	*802.27*	
		For Class 55 Rating, Add	*1,199.24*	
		For Class 56 Rating, Add	*1,590.94*	
40 05 19 00-0182	EA	12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,520.33	704.03
		For Class 52 Rating, Deduct	*-599.90*	
		For Class 54 Rating, Add	*830.84*	
		For Class 55 Rating, Add	*1,241.76*	
		For Class 56 Rating, Add	*1,647.22*	
40 05 19 00-0183	EA	12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,717.02	708.49
		For Class 52 Rating, Deduct	*-620.79*	
		For Class 54 Rating, Add	*859.42*	
		For Class 55 Rating, Add	*1,284.28*	
		For Class 56 Rating, Add	*1,703.49*	
40 05 19 00-0184	EA	12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,913.71	712.94
		For Class 52 Rating, Deduct	*-641.69*	
		For Class 54 Rating, Add	*887.99*	
		For Class 55 Rating, Add	*1,326.80*	
		For Class 56 Rating, Add	*1,759.77*	
40 05 19 00-0185	EA	12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,110.40	717.40
		For Class 52 Rating, Deduct	*-662.58*	
		For Class 54 Rating, Add	*916.56*	
		For Class 55 Rating, Add	*1,369.31*	
		For Class 56 Rating, Add	*1,816.05*	
40 05 19 00-0186	EA	12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,307.10	721.85
		For Class 52 Rating, Deduct	*-683.47*	
		For Class 54 Rating, Add	*945.13*	
		For Class 55 Rating, Add	*1,411.83*	
		For Class 56 Rating, Add	*1,872.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0187	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,503.79	726.30
		For Class 52 Rating, Deduct	*-704.37*	
		For Class 54 Rating, Add	*973.71*	
		For Class 55 Rating, Add	*1,454.35*	
		For Class 56 Rating, Add	*1,928.60*	
40 05 19 00-0188	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,700.49	730.76
		For Class 52 Rating, Deduct	*-725.26*	
		For Class 54 Rating, Add	*1,002.28*	
		For Class 55 Rating, Add	*1,496.87*	
		For Class 56 Rating, Add	*1,984.87*	
40 05 19 00-0189	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,897.18	735.22
		For Class 52 Rating, Deduct	*-746.15*	
		For Class 54 Rating, Add	*1,030.85*	
		For Class 55 Rating, Add	*1,539.39*	
		For Class 56 Rating, Add	*2,041.15*	
40 05 19 00-0190	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,093.87	739.67
		For Class 52 Rating, Deduct	*-767.05*	
		For Class 54 Rating, Add	*1,059.42*	
		For Class 55 Rating, Add	*1,581.91*	
		For Class 56 Rating, Add	*2,097.43*	
40 05 19 00-0191	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,290.56	744.13
		For Class 52 Rating, Deduct	*-787.94*	
		For Class 54 Rating, Add	*1,087.99*	
		For Class 55 Rating, Add	*1,624.43*	
		For Class 56 Rating, Add	*2,153.70*	
40 05 19 00-0192	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,487.25	748.59
		For Class 52 Rating, Deduct	*-808.83*	
		For Class 54 Rating, Add	*1,116.57*	
		For Class 55 Rating, Add	*1,666.95*	
		For Class 56 Rating, Add	*2,209.98*	
40 05 19 00-0193	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,683.95	753.04
		For Class 52 Rating, Deduct	*-829.73*	
		For Class 54 Rating, Add	*1,145.14*	
		For Class 55 Rating, Add	*1,709.47*	
		For Class 56 Rating, Add	*2,266.25*	
40 05 19 00-0194	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,880.63	757.50
		For Class 52 Rating, Deduct	*-850.62*	
		For Class 54 Rating, Add	*1,173.71*	
		For Class 55 Rating, Add	*1,751.98*	
		For Class 56 Rating, Add	*2,322.53*	
40 05 19 00-0195	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,077.32	761.96
		For Class 52 Rating, Deduct	*-871.51*	
		For Class 54 Rating, Add	*1,202.28*	
		For Class 55 Rating, Add	*1,794.50*	
		For Class 56 Rating, Add	*2,378.80*	
40 05 19 00-0196	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,274.02	766.41
		For Class 52 Rating, Deduct	*-892.41*	
		For Class 54 Rating, Add	*1,230.85*	
		For Class 55 Rating, Add	*1,837.02*	
		For Class 56 Rating, Add	*2,435.08*	
40 05 19 00-0197	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,470.71	770.86
		For Class 52 Rating, Deduct	*-913.30*	
		For Class 54 Rating, Add	*1,259.43*	
		For Class 55 Rating, Add	*1,879.54*	
		For Class 56 Rating, Add	*2,491.35*	
40 05 19 00-0198	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,667.40	775.32
		For Class 52 Rating, Deduct	*-934.19*	
		For Class 54 Rating, Add	*1,288.00*	
		For Class 55 Rating, Add	*1,922.06*	
		For Class 56 Rating, Add	*2,547.63*	
40 05 19 00-0199	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,864.09	779.78
		For Class 52 Rating, Deduct	*-955.09*	
		For Class 54 Rating, Add	*1,316.57*	
		For Class 55 Rating, Add	*1,964.58*	
		For Class 56 Rating, Add	*2,603.90*	
40 05 19 00-0200	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,060.78	784.23
		For Class 52 Rating, Deduct	*-975.98*	
		For Class 54 Rating, Add	*1,345.14*	
		For Class 55 Rating, Add	*2,007.10*	
		For Class 56 Rating, Add	*2,660.18*	
40 05 19 00-0201	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,257.48	788.69
		For Class 52 Rating, Deduct	*-996.87*	
		For Class 54 Rating, Add	*1,373.71*	
		For Class 55 Rating, Add	*2,049.62*	
		For Class 56 Rating, Add	*2,716.45*	
40 05 19 00-0202	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,454.16	793.15
		For Class 52 Rating, Deduct	*-1,017.77*	
		For Class 54 Rating, Add	*1,402.29*	
		For Class 55 Rating, Add	*2,092.13*	
		For Class 56 Rating, Add	*2,772.73*	

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0204	EA	14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,983.32	748.59
		For Class 52 Rating, Deduct	*-313.40*	
		For Class 54 Rating, Add	*440.98*	
		For Class 55 Rating, Add	*662.57*	
		For Class 56 Rating, Add	*881.32*	
40 05 19 00-0205	EA	14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,221.65	753.04
		For Class 52 Rating, Deduct	*-338.87*	
		For Class 54 Rating, Add	*475.79*	
		For Class 55 Rating, Add	*714.37*	
		For Class 56 Rating, Add	*949.87*	
40 05 19 00-0206	EA	14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,459.96	757.50
		For Class 52 Rating, Deduct	*-364.35*	
		For Class 54 Rating, Add	*510.61*	
		For Class 55 Rating, Add	*766.17*	
		For Class 56 Rating, Add	*1,018.43*	
40 05 19 00-0207	EA	14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,698.29	761.96
		For Class 52 Rating, Deduct	*-389.82*	
		For Class 54 Rating, Add	*545.43*	
		For Class 55 Rating, Add	*817.98*	
		For Class 56 Rating, Add	*1,086.99*	
40 05 19 00-0208	EA	14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,936.62	766.41
		For Class 52 Rating, Deduct	*-415.29*	
		For Class 54 Rating, Add	*580.24*	
		For Class 55 Rating, Add	*869.78*	
		For Class 56 Rating, Add	*1,155.54*	
40 05 19 00-0209	EA	14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,174.94	770.86
		For Class 52 Rating, Deduct	*-440.77*	
		For Class 54 Rating, Add	*615.06*	
		For Class 55 Rating, Add	*921.58*	
		For Class 56 Rating, Add	*1,224.10*	
40 05 19 00-0210	EA	14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,413.26	775.32
		For Class 52 Rating, Deduct	*-466.24*	
		For Class 54 Rating, Add	*649.88*	
		For Class 55 Rating, Add	*973.39*	
		For Class 56 Rating, Add	*1,292.66*	
40 05 19 00-0211	EA	14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,651.58	779.78
		For Class 52 Rating, Deduct	*-491.71*	
		For Class 54 Rating, Add	*684.69*	
		For Class 55 Rating, Add	*1,025.19*	
		For Class 56 Rating, Add	*1,361.21*	
40 05 19 00-0212	EA	14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,889.90	784.23
		For Class 52 Rating, Deduct	*-517.18*	
		For Class 54 Rating, Add	*719.51*	
		For Class 55 Rating, Add	*1,076.99*	
		For Class 56 Rating, Add	*1,429.77*	
40 05 19 00-0213	EA	14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,128.23	788.69
		For Class 52 Rating, Deduct	*-542.66*	
		For Class 54 Rating, Add	*754.33*	
		For Class 55 Rating, Add	*1,128.79*	
		For Class 56 Rating, Add	*1,498.33*	
40 05 19 00-0214	EA	14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,366.54	793.15
		For Class 52 Rating, Deduct	*-568.13*	
		For Class 54 Rating, Add	*789.14*	
		For Class 55 Rating, Add	*1,180.59*	
		For Class 56 Rating, Add	*1,566.88*	
40 05 19 00-0215	EA	14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,604.87	797.60
		For Class 52 Rating, Deduct	*-593.60*	
		For Class 54 Rating, Add	*823.96*	
		For Class 55 Rating, Add	*1,232.40*	
		For Class 56 Rating, Add	*1,635.44*	
40 05 19 00-0216	EA	14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,843.19	802.06
		For Class 52 Rating, Deduct	*-619.07*	
		For Class 54 Rating, Add	*858.78*	
		For Class 55 Rating, Add	*1,284.20*	
		For Class 56 Rating, Add	*1,703.99*	
40 05 19 00-0217	EA	14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,081.51	806.52
		For Class 52 Rating, Deduct	*-644.55*	
		For Class 54 Rating, Add	*893.59*	
		For Class 55 Rating, Add	*1,336.00*	
		For Class 56 Rating, Add	*1,772.55*	
40 05 19 00-0218	EA	14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,319.83	810.97
		For Class 52 Rating, Deduct	*-670.02*	
		For Class 54 Rating, Add	*928.41*	
		For Class 55 Rating, Add	*1,387.80*	
		For Class 56 Rating, Add	*1,841.11*	
40 05 19 00-0219	EA	14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,558.16	815.42
		For Class 52 Rating, Deduct	*-695.49*	
		For Class 54 Rating, Add	*963.23*	
		For Class 55 Rating, Add	*1,439.61*	
		For Class 56 Rating, Add	*1,909.67*	
40 05 19 00-0220	EA	14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,796.49	819.88
		For Class 52 Rating, Deduct	*-720.97*	
		For Class 54 Rating, Add	*998.04*	
		For Class 55 Rating, Add	*1,491.41*	
		For Class 56 Rating, Add	*1,978.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0221	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,034.80	824.33
		For Class 52 Rating, Deduct	*-746.44*	
		For Class 54 Rating, Add	*1,032.86*	
		For Class 55 Rating, Add	*1,543.21*	
		For Class 56 Rating, Add	*2,046.78*	
40 05 19 00-0222	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,273.12	828.79
		For Class 52 Rating, Deduct	*-771.91*	
		For Class 54 Rating, Add	*1,067.68*	
		For Class 55 Rating, Add	*1,595.01*	
		For Class 56 Rating, Add	*2,115.33*	
40 05 19 00-0223	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,511.45	833.25
		For Class 52 Rating, Deduct	*-797.38*	
		For Class 54 Rating, Add	*1,102.49*	
		For Class 55 Rating, Add	*1,646.82*	
		For Class 56 Rating, Add	*2,183.89*	
40 05 19 00-0224	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,749.77	837.70
		For Class 52 Rating, Deduct	*-822.86*	
		For Class 54 Rating, Add	*1,137.31*	
		For Class 55 Rating, Add	*1,698.62*	
		For Class 56 Rating, Add	*2,252.45*	
40 05 19 00-0225	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,988.09	842.16
		For Class 52 Rating, Deduct	*-848.33*	
		For Class 54 Rating, Add	*1,172.13*	
		For Class 55 Rating, Add	*1,750.42*	
		For Class 56 Rating, Add	*2,321.00*	
40 05 19 00-0226	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,226.41	846.62
		For Class 52 Rating, Deduct	*-873.80*	
		For Class 54 Rating, Add	*1,206.94*	
		For Class 55 Rating, Add	*1,802.22*	
		For Class 56 Rating, Add	*2,389.56*	
40 05 19 00-0227	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,464.73	851.08
		For Class 52 Rating, Deduct	*-899.28*	
		For Class 54 Rating, Add	*1,241.76*	
		For Class 55 Rating, Add	*1,854.02*	
		For Class 56 Rating, Add	*2,458.11*	
40 05 19 00-0228	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,703.06	855.53
		For Class 52 Rating, Deduct	*-924.75*	
		For Class 54 Rating, Add	*1,276.58*	
		For Class 55 Rating, Add	*1,905.83*	
		For Class 56 Rating, Add	*2,526.67*	
40 05 19 00-0229	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,941.37	859.98
		For Class 52 Rating, Deduct	*-950.22*	
		For Class 54 Rating, Add	*1,311.39*	
		For Class 55 Rating, Add	*1,957.63*	
		For Class 56 Rating, Add	*2,595.23*	
40 05 19 00-0230	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,179.71	864.44
		For Class 52 Rating, Deduct	*-975.69*	
		For Class 54 Rating, Add	*1,346.21*	
		For Class 55 Rating, Add	*2,009.43*	
		For Class 56 Rating, Add	*2,663.79*	
40 05 19 00-0231	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,418.03	868.89
		For Class 52 Rating, Deduct	*-1,001.17*	
		For Class 54 Rating, Add	*1,381.03*	
		For Class 55 Rating, Add	*2,061.24*	
		For Class 56 Rating, Add	*2,732.34*	
40 05 19 00-0232	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,656.35	873.35
		For Class 52 Rating, Deduct	*-1,026.64*	
		For Class 54 Rating, Add	*1,415.84*	
		For Class 55 Rating, Add	*2,113.04*	
		For Class 56 Rating, Add	*2,800.90*	
40 05 19 00-0233	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,894.67	877.81
		For Class 52 Rating, Deduct	*-1,052.11*	
		For Class 54 Rating, Add	*1,450.66*	
		For Class 55 Rating, Add	*2,164.84*	
		For Class 56 Rating, Add	*2,869.46*	
40 05 19 00-0234	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,132.99	882.26
		For Class 52 Rating, Deduct	*-1,077.59*	
		For Class 54 Rating, Add	*1,485.48*	
		For Class 55 Rating, Add	*2,216.64*	
		For Class 56 Rating, Add	*2,938.01*	
40 05 19 00-0235	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,371.32	886.72
		For Class 52 Rating, Deduct	*-1,103.06*	
		For Class 54 Rating, Add	*1,520.29*	
		For Class 55 Rating, Add	*2,268.44*	
		For Class 56 Rating, Add	*3,006.57*	
40 05 19 00-0236	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,609.63	891.18
		For Class 52 Rating, Deduct	*-1,128.53*	
		For Class 54 Rating, Add	*1,555.11*	
		For Class 55 Rating, Add	*2,320.25*	
		For Class 56 Rating, Add	*3,075.12*	
40 05 19 00-0237	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,847.95	895.63
		For Class 52 Rating, Deduct	*-1,154.00*	
		For Class 54 Rating, Add	*1,589.93*	
		For Class 55 Rating, Add	*2,372.05*	
		For Class 56 Rating, Add	*3,143.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0238	EA	14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,086.28	900.09
		For Class 52 Rating, Deduct	*-1,179.48*	
		For Class 54 Rating, Add	*1,624.74*	
		For Class 55 Rating, Add	*2,423.85*	
		For Class 56 Rating, Add	*3,212.24*	
40 05 19 00-0239	EA	14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,324.60	904.55
		For Class 52 Rating, Deduct	*-1,204.95*	
		For Class 54 Rating, Add	*1,659.56*	
		For Class 55 Rating, Add	*2,475.65*	
		For Class 56 Rating, Add	*3,280.79*	
40 05 19 00-0240	EA	14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,562.92	908.99
		For Class 52 Rating, Deduct	*-1,230.42*	
		For Class 54 Rating, Add	*1,694.37*	
		For Class 55 Rating, Add	*2,527.45*	
		For Class 56 Rating, Add	*3,349.35*	
40 05 19 00-0241	EA	14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,801.24	913.45
		For Class 52 Rating, Deduct	*-1,255.89*	
		For Class 54 Rating, Add	*1,729.19*	
		For Class 55 Rating, Add	*2,579.26*	
		For Class 56 Rating, Add	*3,417.90*	
40 05 19 00-0242		16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*		
40 05 19 00-0243	EA	16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,673.55	855.53
		For Class 52 Rating, Deduct	*-371.50*	
		For Class 54 Rating, Add	*522.15*	
		For Class 55 Rating, Add	*784.25*	
		For Class 56 Rating, Add	*1,042.97*	
40 05 19 00-0244	EA	16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,950.89	859.98
		For Class 52 Rating, Deduct	*-401.27*	
		For Class 54 Rating, Add	*562.82*	
		For Class 55 Rating, Add	*844.75*	
		For Class 56 Rating, Add	*1,123.04*	
40 05 19 00-0245	EA	16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,228.25	864.44
		For Class 52 Rating, Deduct	*-431.03*	
		For Class 54 Rating, Add	*603.49*	
		For Class 55 Rating, Add	*905.26*	
		For Class 56 Rating, Add	*1,203.11*	
40 05 19 00-0246	EA	16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,505.60	868.89
		For Class 52 Rating, Deduct	*-460.80*	
		For Class 54 Rating, Add	*644.16*	
		For Class 55 Rating, Add	*965.76*	
		For Class 56 Rating, Add	*1,283.18*	
40 05 19 00-0247	EA	16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,782.95	873.35
		For Class 52 Rating, Deduct	*-490.57*	
		For Class 54 Rating, Add	*684.83*	
		For Class 55 Rating, Add	*1,026.27*	
		For Class 56 Rating, Add	*1,363.25*	
40 05 19 00-0248	EA	16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,060.30	877.81
		For Class 52 Rating, Deduct	*-520.33*	
		For Class 54 Rating, Add	*725.50*	
		For Class 55 Rating, Add	*1,086.77*	
		For Class 56 Rating, Add	*1,443.32*	
40 05 19 00-0249	EA	16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,337.65	882.26
		For Class 52 Rating, Deduct	*-550.10*	
		For Class 54 Rating, Add	*766.17*	
		For Class 55 Rating, Add	*1,147.28*	
		For Class 56 Rating, Add	*1,523.39*	
40 05 19 00-0250	EA	16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,615.01	886.72
		For Class 52 Rating, Deduct	*-579.86*	
		For Class 54 Rating, Add	*806.85*	
		For Class 55 Rating, Add	*1,207.79*	
		For Class 56 Rating, Add	*1,603.46*	
40 05 19 00-0251	EA	16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,892.35	891.18
		For Class 52 Rating, Deduct	*-609.63*	
		For Class 54 Rating, Add	*847.52*	
		For Class 55 Rating, Add	*1,268.29*	
		For Class 56 Rating, Add	*1,683.53*	
40 05 19 00-0252	EA	16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,169.70	895.63
		For Class 52 Rating, Deduct	*-639.40*	
		For Class 54 Rating, Add	*888.19*	
		For Class 55 Rating, Add	*1,328.80*	
		For Class 56 Rating, Add	*1,763.60*	
40 05 19 00-0253	EA	16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,447.06	900.09
		For Class 52 Rating, Deduct	*-669.16*	
		For Class 54 Rating, Add	*928.86*	
		For Class 55 Rating, Add	*1,389.30*	
		For Class 56 Rating, Add	*1,843.67*	
40 05 19 00-0254	EA	16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,724.41	904.55
		For Class 52 Rating, Deduct	*-698.93*	
		For Class 54 Rating, Add	*969.53*	
		For Class 55 Rating, Add	*1,449.81*	
		For Class 56 Rating, Add	*1,923.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0255	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,001.76	908.99
		For Class 52 Rating, Deduct	*-728.69*	
		For Class 54 Rating, Add	*1,010.20*	
		For Class 55 Rating, Add	*1,510.32*	
		For Class 56 Rating, Add	*2,003.81*	
40 05 19 00-0256	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,279.11	913.45
		For Class 52 Rating, Deduct	*-758.46*	
		For Class 54 Rating, Add	*1,050.87*	
		For Class 55 Rating, Add	*1,570.82*	
		For Class 56 Rating, Add	*2,083.88*	
40 05 19 00-0257	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,556.46	917.91
		For Class 52 Rating, Deduct	*-788.23*	
		For Class 54 Rating, Add	*1,091.54*	
		For Class 55 Rating, Add	*1,631.33*	
		For Class 56 Rating, Add	*2,163.95*	
40 05 19 00-0258	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,833.82	922.36
		For Class 52 Rating, Deduct	*-817.99*	
		For Class 54 Rating, Add	*1,132.21*	
		For Class 55 Rating, Add	*1,691.83*	
		For Class 56 Rating, Add	*2,244.02*	
40 05 19 00-0259	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,111.16	926.82
		For Class 52 Rating, Deduct	*-847.76*	
		For Class 54 Rating, Add	*1,172.88*	
		For Class 55 Rating, Add	*1,752.34*	
		For Class 56 Rating, Add	*2,324.09*	
40 05 19 00-0260	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,388.52	931.28
		For Class 52 Rating, Deduct	*-877.52*	
		For Class 54 Rating, Add	*1,213.56*	
		For Class 55 Rating, Add	*1,812.84*	
		For Class 56 Rating, Add	*2,404.16*	
40 05 19 00-0261	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,665.87	935.73
		For Class 52 Rating, Deduct	*-907.29*	
		For Class 54 Rating, Add	*1,254.23*	
		For Class 55 Rating, Add	*1,873.35*	
		For Class 56 Rating, Add	*2,484.23*	
40 05 19 00-0262	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,943.21	940.19
		For Class 52 Rating, Deduct	*-937.06*	
		For Class 54 Rating, Add	*1,294.90*	
		For Class 55 Rating, Add	*1,933.86*	
		For Class 56 Rating, Add	*2,564.30*	
40 05 19 00-0263	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,220.57	944.65
		For Class 52 Rating, Deduct	*-966.82*	
		For Class 54 Rating, Add	*1,335.57*	
		For Class 55 Rating, Add	*1,994.36*	
		For Class 56 Rating, Add	*2,644.37*	
40 05 19 00-0264	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,497.92	949.11
		For Class 52 Rating, Deduct	*-996.59*	
		For Class 54 Rating, Add	*1,376.24*	
		For Class 55 Rating, Add	*2,054.87*	
		For Class 56 Rating, Add	*2,724.44*	
40 05 19 00-0265	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,775.28	953.55
		For Class 52 Rating, Deduct	*-1,026.35*	
		For Class 54 Rating, Add	*1,416.91*	
		For Class 55 Rating, Add	*2,115.37*	
		For Class 56 Rating, Add	*2,804.51*	
40 05 19 00-0266	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,052.61	958.01
		For Class 52 Rating, Deduct	*-1,056.12*	
		For Class 54 Rating, Add	*1,457.58*	
		For Class 55 Rating, Add	*2,175.88*	
		For Class 56 Rating, Add	*2,884.57*	
40 05 19 00-0267	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,329.96	962.47
		For Class 52 Rating, Deduct	*-1,085.88*	
		For Class 54 Rating, Add	*1,498.25*	
		For Class 55 Rating, Add	*2,236.38*	
		For Class 56 Rating, Add	*2,964.64*	
40 05 19 00-0268	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,607.32	966.92
		For Class 52 Rating, Deduct	*-1,115.65*	
		For Class 54 Rating, Add	*1,538.92*	
		For Class 55 Rating, Add	*2,296.89*	
		For Class 56 Rating, Add	*3,044.71*	
40 05 19 00-0269	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,884.67	971.38
		For Class 52 Rating, Deduct	*-1,145.42*	
		For Class 54 Rating, Add	*1,579.59*	
		For Class 55 Rating, Add	*2,357.40*	
		For Class 56 Rating, Add	*3,124.78*	
40 05 19 00-0270	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,162.02	975.84
		For Class 52 Rating, Deduct	*-1,175.18*	
		For Class 54 Rating, Add	*1,620.26*	
		For Class 55 Rating, Add	*2,417.90*	
		For Class 56 Rating, Add	*3,204.85*	
40 05 19 00-0271	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,439.37	980.29
		For Class 52 Rating, Deduct	*-1,204.95*	
		For Class 54 Rating, Add	*1,660.94*	
		For Class 55 Rating, Add	*2,478.41*	
		For Class 56 Rating, Add	*3,284.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272	EA	16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,716.72	984.75
		For Class 52 Rating, Deduct	*-1,234.71*	
		For Class 54 Rating, Add	*1,701.61*	
		For Class 55 Rating, Add	*2,538.91*	
		For Class 56 Rating, Add	*3,364.99*	
40 05 19 00-0273	EA	16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,994.08	989.21
		For Class 52 Rating, Deduct	*-1,264.48*	
		For Class 54 Rating, Add	*1,742.28*	
		For Class 55 Rating, Add	*2,599.42*	
		For Class 56 Rating, Add	*3,445.06*	
40 05 19 00-0274	EA	16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,271.42	993.66
		For Class 52 Rating, Deduct	*-1,294.25*	
		For Class 54 Rating, Add	*1,782.95*	
		For Class 55 Rating, Add	*2,659.92*	
		For Class 56 Rating, Add	*3,525.13*	
40 05 19 00-0275	EA	16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,548.78	998.11
		For Class 52 Rating, Deduct	*-1,324.01*	
		For Class 54 Rating, Add	*1,823.62*	
		For Class 55 Rating, Add	*2,720.43*	
		For Class 56 Rating, Add	*3,605.20*	
40 05 19 00-0276	EA	16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,826.13	1,002.57
		For Class 52 Rating, Deduct	*-1,353.78*	
		For Class 54 Rating, Add	*1,864.29*	
		For Class 55 Rating, Add	*2,780.94*	
		For Class 56 Rating, Add	*3,685.27*	
40 05 19 00-0277	EA	16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,103.47	1,007.02
		For Class 52 Rating, Deduct	*-1,383.54*	
		For Class 54 Rating, Add	*1,904.96*	
		For Class 55 Rating, Add	*2,841.44*	
		For Class 56 Rating, Add	*3,765.34*	
40 05 19 00-0278	EA	16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,380.83	1,011.48
		For Class 52 Rating, Deduct	*-1,413.31*	
		For Class 54 Rating, Add	*1,945.63*	
		For Class 55 Rating, Add	*2,901.95*	
		For Class 56 Rating, Add	*3,845.41*	
40 05 19 00-0279	EA	16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,658.18	1,015.94
		For Class 52 Rating, Deduct	*-1,443.08*	
		For Class 54 Rating, Add	*1,986.30*	
		For Class 55 Rating, Add	*2,962.45*	
		For Class 56 Rating, Add	*3,925.48*	
40 05 19 00-0280	EA	16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,935.54	1,020.39
		For Class 52 Rating, Deduct	*-1,472.84*	
		For Class 54 Rating, Add	*2,026.97*	
		For Class 55 Rating, Add	*3,022.96*	
		For Class 56 Rating, Add	*4,005.55*	

40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0282	EA	18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,441.92	964.25
		For Class 52 Rating, Deduct	*-437.90*	
		For Class 54 Rating, Add	*614.67*	
		For Class 55 Rating, Add	*922.81*	
		For Class 56 Rating, Add	*1,226.97*	
40 05 19 00-0283	EA	18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,760.91	968.71
		For Class 52 Rating, Deduct	*-472.25*	
		For Class 54 Rating, Add	*661.59*	
		For Class 55 Rating, Add	*992.60*	
		For Class 56 Rating, Add	*1,319.32*	
40 05 19 00-0284	EA	18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,079.89	973.17
		For Class 52 Rating, Deduct	*-506.59*	
		For Class 54 Rating, Add	*708.50*	
		For Class 55 Rating, Add	*1,062.39*	
		For Class 56 Rating, Add	*1,411.67*	
40 05 19 00-0285	EA	18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,398.87	977.62
		For Class 52 Rating, Deduct	*-540.94*	
		For Class 54 Rating, Add	*755.42*	
		For Class 55 Rating, Add	*1,132.18*	
		For Class 56 Rating, Add	*1,504.03*	
40 05 19 00-0286	EA	18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,717.85	982.07
		For Class 52 Rating, Deduct	*-575.28*	
		For Class 54 Rating, Add	*802.33*	
		For Class 55 Rating, Add	*1,201.97*	
		For Class 56 Rating, Add	*1,596.38*	
40 05 19 00-0287	EA	18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,036.83	986.53
		For Class 52 Rating, Deduct	*-609.63*	
		For Class 54 Rating, Add	*849.25*	
		For Class 55 Rating, Add	*1,271.76*	
		For Class 56 Rating, Add	*1,688.73*	
40 05 19 00-0288	EA	18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,355.82	990.98
		For Class 52 Rating, Deduct	*-643.98*	
		For Class 54 Rating, Add	*896.17*	
		For Class 55 Rating, Add	*1,341.55*	
		For Class 56 Rating, Add	*1,781.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0289	EA	18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,674.80	995.44
		For Class 52 Rating, Deduct	*-678.32*	
		For Class 54 Rating, Add	*943.08*	
		For Class 55 Rating, Add	*1,411.34*	
		For Class 56 Rating, Add	*1,873.43*	
40 05 19 00-0290	EA	18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,993.77	999.90
		For Class 52 Rating, Deduct	*-712.67*	
		For Class 54 Rating, Add	*990.00*	
		For Class 55 Rating, Add	*1,481.13*	
		For Class 56 Rating, Add	*1,965.78*	
40 05 19 00-0291	EA	18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,312.76	1,004.35
		For Class 52 Rating, Deduct	*-747.01*	
		For Class 54 Rating, Add	*1,036.91*	
		For Class 55 Rating, Add	*1,550.92*	
		For Class 56 Rating, Add	*2,058.13*	
40 05 19 00-0292	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,631.74	1,008.81
		For Class 52 Rating, Deduct	*-781.36*	
		For Class 54 Rating, Add	*1,083.83*	
		For Class 55 Rating, Add	*1,620.71*	
		For Class 56 Rating, Add	*2,150.48*	
40 05 19 00-0293	EA	18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,950.73	1,013.27
		For Class 52 Rating, Deduct	*-815.70*	
		For Class 54 Rating, Add	*1,130.74*	
		For Class 55 Rating, Add	*1,690.50*	
		For Class 56 Rating, Add	*2,242.83*	
40 05 19 00-0294	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,269.70	1,017.72
		For Class 52 Rating, Deduct	*-850.05*	
		For Class 54 Rating, Add	*1,177.66*	
		For Class 55 Rating, Add	*1,760.29*	
		For Class 56 Rating, Add	*2,335.18*	
40 05 19 00-0295	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,588.68	1,022.18
		For Class 52 Rating, Deduct	*-884.39*	
		For Class 54 Rating, Add	*1,224.57*	
		For Class 55 Rating, Add	*1,830.07*	
		For Class 56 Rating, Add	*2,427.53*	
40 05 19 00-0296	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,907.67	1,026.63
		For Class 52 Rating, Deduct	*-918.74*	
		For Class 54 Rating, Add	*1,271.49*	
		For Class 55 Rating, Add	*1,899.86*	
		For Class 56 Rating, Add	*2,519.89*	
40 05 19 00-0297	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,226.64	1,031.09
		For Class 52 Rating, Deduct	*-953.08*	
		For Class 54 Rating, Add	*1,318.41*	
		For Class 55 Rating, Add	*1,969.65*	
		For Class 56 Rating, Add	*2,612.24*	
40 05 19 00-0298	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,545.63	1,035.54
		For Class 52 Rating, Deduct	*-987.43*	
		For Class 54 Rating, Add	*1,365.32*	
		For Class 55 Rating, Add	*2,039.44*	
		For Class 56 Rating, Add	*2,704.59*	
40 05 19 00-0299	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,864.61	1,040.00
		For Class 52 Rating, Deduct	*-1,021.77*	
		For Class 54 Rating, Add	*1,412.24*	
		For Class 55 Rating, Add	*2,109.23*	
		For Class 56 Rating, Add	*2,796.94*	
40 05 19 00-0300	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,183.59	1,044.46
		For Class 52 Rating, Deduct	*-1,056.12*	
		For Class 54 Rating, Add	*1,459.15*	
		For Class 55 Rating, Add	*2,179.02*	
		For Class 56 Rating, Add	*2,889.29*	
40 05 19 00-0301	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,502.58	1,048.91
		For Class 52 Rating, Deduct	*-1,090.47*	
		For Class 54 Rating, Add	*1,506.07*	
		For Class 55 Rating, Add	*2,248.81*	
		For Class 56 Rating, Add	*2,981.64*	
40 05 19 00-0302	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,821.56	1,053.37
		For Class 52 Rating, Deduct	*-1,124.81*	
		For Class 54 Rating, Add	*1,552.98*	
		For Class 55 Rating, Add	*2,318.60*	
		For Class 56 Rating, Add	*3,073.99*	
40 05 19 00-0303	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,140.55	1,057.83
		For Class 52 Rating, Deduct	*-1,159.16*	
		For Class 54 Rating, Add	*1,599.90*	
		For Class 55 Rating, Add	*2,388.39*	
		For Class 56 Rating, Add	*3,166.34*	
40 05 19 00-0304	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,459.53	1,062.28
		For Class 52 Rating, Deduct	*-1,193.50*	
		For Class 54 Rating, Add	*1,646.82*	
		For Class 55 Rating, Add	*2,458.18*	
		For Class 56 Rating, Add	*3,258.70*	
40 05 19 00-0305	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,778.50	1,066.74
		For Class 52 Rating, Deduct	*-1,227.85*	
		For Class 54 Rating, Add	*1,693.73*	
		For Class 55 Rating, Add	*2,527.97*	
		For Class 56 Rating, Add	*3,351.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0306	EA	18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,097.49	1,071.20
		For Class 52 Rating, Deduct	*-1,262.19*	
		For Class 54 Rating, Add	*1,740.65*	
		For Class 55 Rating, Add	*2,597.76*	
		For Class 56 Rating, Add	*3,443.40*	
40 05 19 00-0307	EA	18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,416.47	1,075.64
		For Class 52 Rating, Deduct	*-1,296.54*	
		For Class 54 Rating, Add	*1,787.56*	
		For Class 55 Rating, Add	*2,667.55*	
		For Class 56 Rating, Add	*3,535.75*	
40 05 19 00-0308	EA	18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,735.46	1,080.10
		For Class 52 Rating, Deduct	*-1,330.88*	
		For Class 54 Rating, Add	*1,834.48*	
		For Class 55 Rating, Add	*2,737.34*	
		For Class 56 Rating, Add	*3,628.10*	
40 05 19 00-0309	EA	18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,054.43	1,084.56
		For Class 52 Rating, Deduct	*-1,365.23*	
		For Class 54 Rating, Add	*1,881.39*	
		For Class 55 Rating, Add	*2,807.13*	
		For Class 56 Rating, Add	*3,720.45*	
40 05 19 00-0310	EA	18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,373.41	1,089.01
		For Class 52 Rating, Deduct	*-1,399.57*	
		For Class 54 Rating, Add	*1,928.31*	
		For Class 55 Rating, Add	*2,876.92*	
		For Class 56 Rating, Add	*3,812.80*	
40 05 19 00-0311	EA	18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,692.40	1,093.47
		For Class 52 Rating, Deduct	*-1,433.92*	
		For Class 54 Rating, Add	*1,975.22*	
		For Class 55 Rating, Add	*2,946.71*	
		For Class 56 Rating, Add	*3,905.15*	
40 05 19 00-0312	EA	18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,011.37	1,097.93
		For Class 52 Rating, Deduct	*-1,468.26*	
		For Class 54 Rating, Add	*2,022.14*	
		For Class 55 Rating, Add	*3,016.50*	
		For Class 56 Rating, Add	*3,997.50*	
40 05 19 00-0313	EA	18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,330.36	1,102.38
		For Class 52 Rating, Deduct	*-1,502.61*	
		For Class 54 Rating, Add	*2,069.06*	
		For Class 55 Rating, Add	*3,086.28*	
		For Class 56 Rating, Add	*4,089.85*	
40 05 19 00-0314	EA	18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,649.34	1,106.84
		For Class 52 Rating, Deduct	*-1,536.95*	
		For Class 54 Rating, Add	*2,115.97*	
		For Class 55 Rating, Add	*3,156.07*	
		For Class 56 Rating, Add	*4,182.20*	
40 05 19 00-0315	EA	18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,968.32	1,111.30
		For Class 52 Rating, Deduct	*-1,571.30*	
		For Class 54 Rating, Add	*2,162.89*	
		For Class 55 Rating, Add	*3,225.86*	
		For Class 56 Rating, Add	*4,274.56*	
40 05 19 00-0316	EA	18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,287.30	1,115.75
		For Class 52 Rating, Deduct	*-1,605.64*	
		For Class 54 Rating, Add	*2,209.80*	
		For Class 55 Rating, Add	*3,295.65*	
		For Class 56 Rating, Add	*4,366.91*	
40 05 19 00-0317	EA	18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,606.28	1,120.20
		For Class 52 Rating, Deduct	*-1,639.99*	
		For Class 54 Rating, Add	*2,256.72*	
		For Class 55 Rating, Add	*3,365.44*	
		For Class 56 Rating, Add	*4,459.26*	
40 05 19 00-0318	EA	18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,925.27	1,124.66
		For Class 52 Rating, Deduct	*-1,674.34*	
		For Class 54 Rating, Add	*2,303.63*	
		For Class 55 Rating, Add	*3,435.23*	
		For Class 56 Rating, Add	*4,551.61*	
40 05 19 00-0319	EA	18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,244.25	1,129.12
		For Class 52 Rating, Deduct	*-1,708.68*	
		For Class 54 Rating, Add	*2,350.55*	
		For Class 55 Rating, Add	*3,505.02*	
		For Class 56 Rating, Add	*4,643.96*	

40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0321	EA	20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,374.45	1,100.60
		For Class 52 Rating, Deduct	*-517.76*	
		For Class 54 Rating, Add	*726.04*	
		For Class 55 Rating, Add	*1,089.65*	
		For Class 56 Rating, Add	*1,448.56*	
40 05 19 00-0322	EA	20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,740.27	1,105.05
		For Class 52 Rating, Deduct	*-557.25*	
		For Class 54 Rating, Add	*779.98*	
		For Class 55 Rating, Add	*1,169.89*	
		For Class 56 Rating, Add	*1,554.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0323	EA	20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,106.08	1,109.51
		For Class 52 Rating, Deduct	*-596.75*	
		For Class 54 Rating, Add	*833.92*	
		For Class 55 Rating, Add	*1,250.12*	
		For Class 56 Rating, Add	*1,660.89*	
40 05 19 00-0324	EA	20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,471.90	1,113.97
		For Class 52 Rating, Deduct	*-636.25*	
		For Class 54 Rating, Add	*887.86*	
		For Class 55 Rating, Add	*1,330.36*	
		For Class 56 Rating, Add	*1,767.06*	
40 05 19 00-0325	EA	20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,837.71	1,118.43
		For Class 52 Rating, Deduct	*-675.74*	
		For Class 54 Rating, Add	*941.80*	
		For Class 55 Rating, Add	*1,410.59*	
		For Class 56 Rating, Add	*1,873.23*	
40 05 19 00-0326	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,203.54	1,122.88
		For Class 52 Rating, Deduct	*-715.24*	
		For Class 54 Rating, Add	*995.75*	
		For Class 55 Rating, Add	*1,490.82*	
		For Class 56 Rating, Add	*1,979.40*	
40 05 19 00-0327	EA	20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,569.34	1,127.34
		For Class 52 Rating, Deduct	*-754.74*	
		For Class 54 Rating, Add	*1,049.69*	
		For Class 55 Rating, Add	*1,571.05*	
		For Class 56 Rating, Add	*2,085.56*	
40 05 19 00-0328	EA	20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,935.17	1,131.80
		For Class 52 Rating, Deduct	*-794.24*	
		For Class 54 Rating, Add	*1,103.63*	
		For Class 55 Rating, Add	*1,651.29*	
		For Class 56 Rating, Add	*2,191.73*	
40 05 19 00-0329	EA	20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,300.98	1,136.25
		For Class 52 Rating, Deduct	*-833.73*	
		For Class 54 Rating, Add	*1,157.57*	
		For Class 55 Rating, Add	*1,731.52*	
		For Class 56 Rating, Add	*2,297.90*	
40 05 19 00-0330	EA	20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,666.79	1,140.70
		For Class 52 Rating, Deduct	*-873.23*	
		For Class 54 Rating, Add	*1,211.51*	
		For Class 55 Rating, Add	*1,811.76*	
		For Class 56 Rating, Add	*2,404.07*	
40 05 19 00-0331	EA	20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,032.61	1,145.16
		For Class 52 Rating, Deduct	*-912.73*	
		For Class 54 Rating, Add	*1,265.45*	
		For Class 55 Rating, Add	*1,891.99*	
		For Class 56 Rating, Add	*2,510.23*	
40 05 19 00-0332	EA	20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,398.43	1,149.61
		For Class 52 Rating, Deduct	*-952.22*	
		For Class 54 Rating, Add	*1,319.39*	
		For Class 55 Rating, Add	*1,972.22*	
		For Class 56 Rating, Add	*2,616.40*	
40 05 19 00-0333	EA	20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,764.25	1,154.07
		For Class 52 Rating, Deduct	*-991.72*	
		For Class 54 Rating, Add	*1,373.33*	
		For Class 55 Rating, Add	*2,052.46*	
		For Class 56 Rating, Add	*2,722.57*	
40 05 19 00-0334	EA	20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,130.06	1,158.53
		For Class 52 Rating, Deduct	*-1,031.22*	
		For Class 54 Rating, Add	*1,427.27*	
		For Class 55 Rating, Add	*2,132.69*	
		For Class 56 Rating, Add	*2,828.73*	
40 05 19 00-0335	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,495.87	1,162.98
		For Class 52 Rating, Deduct	*-1,070.72*	
		For Class 54 Rating, Add	*1,481.21*	
		For Class 55 Rating, Add	*2,212.92*	
		For Class 56 Rating, Add	*2,934.90*	
40 05 19 00-0336	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,861.70	1,167.44
		For Class 52 Rating, Deduct	*-1,110.21*	
		For Class 54 Rating, Add	*1,535.15*	
		For Class 55 Rating, Add	*2,293.16*	
		For Class 56 Rating, Add	*3,041.07*	
40 05 19 00-0337	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,227.51	1,171.90
		For Class 52 Rating, Deduct	*-1,149.71*	
		For Class 54 Rating, Add	*1,589.09*	
		For Class 55 Rating, Add	*2,373.39*	
		For Class 56 Rating, Add	*3,147.24*	
40 05 19 00-0338	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,593.33	1,176.35
		For Class 52 Rating, Deduct	*-1,189.21*	
		For Class 54 Rating, Add	*1,643.04*	
		For Class 55 Rating, Add	*2,453.62*	
		For Class 56 Rating, Add	*3,253.40*	
40 05 19 00-0339	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,959.14	1,180.81
		For Class 52 Rating, Deduct	*-1,228.70*	
		For Class 54 Rating, Add	*1,696.98*	
		For Class 55 Rating, Add	*2,533.86*	
		For Class 56 Rating, Add	*3,359.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0340	EA	20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,324.96	1,185.26
		For Class 52 Rating, Deduct	*-1,268.20*	
		For Class 54 Rating, Add	*1,750.92*	
		For Class 55 Rating, Add	*2,614.09*	
		For Class 56 Rating, Add	*3,465.74*	
40 05 19 00-0341	EA	20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,690.78	1,189.71
		For Class 52 Rating, Deduct	*-1,307.70*	
		For Class 54 Rating, Add	*1,804.86*	
		For Class 55 Rating, Add	*2,694.32*	
		For Class 56 Rating, Add	*3,571.90*	
40 05 19 00-0342	EA	20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,056.59	1,194.17
		For Class 52 Rating, Deduct	*-1,347.20*	
		For Class 54 Rating, Add	*1,858.80*	
		For Class 55 Rating, Add	*2,774.56*	
		For Class 56 Rating, Add	*3,678.07*	
40 05 19 00-0343	EA	20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,422.41	1,198.63
		For Class 52 Rating, Deduct	*-1,386.69*	
		For Class 54 Rating, Add	*1,912.74*	
		For Class 55 Rating, Add	*2,854.79*	
		For Class 56 Rating, Add	*3,784.24*	
40 05 19 00-0344	EA	20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,788.23	1,203.08
		For Class 52 Rating, Deduct	*-1,426.19*	
		For Class 54 Rating, Add	*1,966.68*	
		For Class 55 Rating, Add	*2,935.03*	
		For Class 56 Rating, Add	*3,890.41*	
40 05 19 00-0345	EA	20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,154.03	1,207.54
		For Class 52 Rating, Deduct	*-1,465.69*	
		For Class 54 Rating, Add	*2,020.62*	
		For Class 55 Rating, Add	*3,015.26*	
		For Class 56 Rating, Add	*3,996.57*	
40 05 19 00-0346	EA	20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,519.86	1,212.00
		For Class 52 Rating, Deduct	*-1,505.19*	
		For Class 54 Rating, Add	*2,074.56*	
		For Class 55 Rating, Add	*3,095.49*	
		For Class 56 Rating, Add	*4,102.74*	
40 05 19 00-0347	EA	20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,885.67	1,216.46
		For Class 52 Rating, Deduct	*-1,544.68*	
		For Class 54 Rating, Add	*2,128.50*	
		For Class 55 Rating, Add	*3,175.73*	
		For Class 56 Rating, Add	*4,208.91*	
40 05 19 00-0348	EA	20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,251.50	1,220.91
		For Class 52 Rating, Deduct	*-1,584.18*	
		For Class 54 Rating, Add	*2,182.44*	
		For Class 55 Rating, Add	*3,255.96*	
		For Class 56 Rating, Add	*4,315.08*	
40 05 19 00-0349	EA	20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,617.30	1,225.37
		For Class 52 Rating, Deduct	*-1,623.68*	
		For Class 54 Rating, Add	*2,236.38*	
		For Class 55 Rating, Add	*3,336.19*	
		For Class 56 Rating, Add	*4,421.24*	
40 05 19 00-0350	EA	20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,983.12	1,229.83
		For Class 52 Rating, Deduct	*-1,663.17*	
		For Class 54 Rating, Add	*2,290.32*	
		For Class 55 Rating, Add	*3,416.43*	
		For Class 56 Rating, Add	*4,527.41*	
40 05 19 00-0351	EA	20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,348.94	1,234.27
		For Class 52 Rating, Deduct	*-1,702.67*	
		For Class 54 Rating, Add	*2,344.26*	
		For Class 55 Rating, Add	*3,496.66*	
		For Class 56 Rating, Add	*4,633.58*	
40 05 19 00-0352	EA	20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,714.76	1,238.73
		For Class 52 Rating, Deduct	*-1,742.17*	
		For Class 54 Rating, Add	*2,398.21*	
		For Class 55 Rating, Add	*3,576.89*	
		For Class 56 Rating, Add	*4,739.74*	
40 05 19 00-0353	EA	20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,080.57	1,243.19
		For Class 52 Rating, Deduct	*-1,781.66*	
		For Class 54 Rating, Add	*2,452.15*	
		For Class 55 Rating, Add	*3,657.13*	
		For Class 56 Rating, Add	*4,845.91*	
40 05 19 00-0354	EA	20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,446.39	1,247.64
		For Class 52 Rating, Deduct	*-1,821.16*	
		For Class 54 Rating, Add	*2,506.09*	
		For Class 55 Rating, Add	*3,737.36*	
		For Class 56 Rating, Add	*4,952.08*	
40 05 19 00-0355	EA	20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,812.20	1,252.10
		For Class 52 Rating, Deduct	*-1,860.66*	
		For Class 54 Rating, Add	*2,560.03*	
		For Class 55 Rating, Add	*3,817.59*	
		For Class 56 Rating, Add	*5,058.24*	
40 05 19 00-0356	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,178.02	1,256.56
		For Class 52 Rating, Deduct	*-1,900.16*	
		For Class 54 Rating, Add	*2,613.97*	
		For Class 55 Rating, Add	*3,897.83*	
		For Class 56 Rating, Add	*5,164.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0357	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,543.83	1,261.01
		For Class 52 Rating, Deduct	*-1,939.65*	
		For Class 54 Rating, Add	*2,667.91*	
		For Class 55 Rating, Add	*3,978.06*	
		For Class 56 Rating, Add	*5,270.58*	
40 05 19 00-0358	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,909.66	1,265.47
		For Class 52 Rating, Deduct	*-1,979.15*	
		For Class 54 Rating, Add	*2,721.85*	
		For Class 55 Rating, Add	*4,058.30*	
		For Class 56 Rating, Add	*5,376.75*	

40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0360	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,846.53	1,301.12
		For Class 52 Rating, Deduct	*-646.27*	
		For Class 54 Rating, Add	*904.93*	
		For Class 55 Rating, Add	*1,357.47*	
		For Class 56 Rating, Add	*1,804.14*	
40 05 19 00-0361	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,298.20	1,305.57
		For Class 52 Rating, Deduct	*-695.21*	
		For Class 54 Rating, Add	*971.75*	
		For Class 55 Rating, Add	*1,456.85*	
		For Class 56 Rating, Add	*1,935.63*	
40 05 19 00-0362	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,749.88	1,310.03
		For Class 52 Rating, Deduct	*-744.15*	
		For Class 54 Rating, Add	*1,038.57*	
		For Class 55 Rating, Add	*1,556.23*	
		For Class 56 Rating, Add	*2,067.13*	
40 05 19 00-0363	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,201.56	1,314.49
		For Class 52 Rating, Deduct	*-793.09*	
		For Class 54 Rating, Add	*1,105.39*	
		For Class 55 Rating, Add	*1,655.61*	
		For Class 56 Rating, Add	*2,198.63*	
40 05 19 00-0364	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,653.24	1,318.94
		For Class 52 Rating, Deduct	*-842.03*	
		For Class 54 Rating, Add	*1,172.21*	
		For Class 55 Rating, Add	*1,754.99*	
		For Class 56 Rating, Add	*2,330.12*	
40 05 19 00-0365	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,104.92	1,323.39
		For Class 52 Rating, Deduct	*-890.98*	
		For Class 54 Rating, Add	*1,239.03*	
		For Class 55 Rating, Add	*1,854.37*	
		For Class 56 Rating, Add	*2,461.62*	
40 05 19 00-0366	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,556.60	1,327.85
		For Class 52 Rating, Deduct	*-939.92*	
		For Class 54 Rating, Add	*1,305.85*	
		For Class 55 Rating, Add	*1,953.76*	
		For Class 56 Rating, Add	*2,593.12*	
40 05 19 00-0367	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,008.28	1,332.30
		For Class 52 Rating, Deduct	*-988.86*	
		For Class 54 Rating, Add	*1,372.67*	
		For Class 55 Rating, Add	*2,053.14*	
		For Class 56 Rating, Add	*2,724.61*	
40 05 19 00-0368	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,459.96	1,336.76
		For Class 52 Rating, Deduct	*-1,037.80*	
		For Class 54 Rating, Add	*1,439.49*	
		For Class 55 Rating, Add	*2,152.52*	
		For Class 56 Rating, Add	*2,856.11*	
40 05 19 00-0369	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,911.63	1,341.22
		For Class 52 Rating, Deduct	*-1,086.74*	
		For Class 54 Rating, Add	*1,506.31*	
		For Class 55 Rating, Add	*2,251.90*	
		For Class 56 Rating, Add	*2,987.61*	
40 05 19 00-0370	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,363.32	1,345.67
		For Class 52 Rating, Deduct	*-1,135.69*	
		For Class 54 Rating, Add	*1,573.13*	
		For Class 55 Rating, Add	*2,351.28*	
		For Class 56 Rating, Add	*3,119.10*	
40 05 19 00-0371	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,815.00	1,350.13
		For Class 52 Rating, Deduct	*-1,184.63*	
		For Class 54 Rating, Add	*1,639.95*	
		For Class 55 Rating, Add	*2,450.66*	
		For Class 56 Rating, Add	*3,250.60*	
40 05 19 00-0372	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,266.69	1,354.59
		For Class 52 Rating, Deduct	*-1,233.57*	
		For Class 54 Rating, Add	*1,706.77*	
		For Class 55 Rating, Add	*2,550.04*	
		For Class 56 Rating, Add	*3,382.10*	
40 05 19 00-0373	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,718.35	1,359.04
		For Class 52 Rating, Deduct	*-1,282.51*	
		For Class 54 Rating, Add	*1,773.59*	
		For Class 55 Rating, Add	*2,649.42*	
		For Class 56 Rating, Add	*3,513.59*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0374	EA	24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,170.03	1,363.50
		For Class 52 Rating, Deduct	*-1,331.45*	
		For Class 54 Rating, Add	*1,840.41*	
		For Class 55 Rating, Add	*2,748.80*	
		For Class 56 Rating, Add	*3,645.09*	
40 05 19 00-0375	EA	24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,621.72	1,367.96
		For Class 52 Rating, Deduct	*-1,380.40*	
		For Class 54 Rating, Add	*1,907.23*	
		For Class 55 Rating, Add	*2,848.18*	
		For Class 56 Rating, Add	*3,776.59*	
40 05 19 00-0376	EA	24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,073.40	1,372.40
		For Class 52 Rating, Deduct	*-1,429.34*	
		For Class 54 Rating, Add	*1,974.05*	
		For Class 55 Rating, Add	*2,947.57*	
		For Class 56 Rating, Add	*3,908.09*	
40 05 19 00-0377	EA	24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,525.08	1,376.86
		For Class 52 Rating, Deduct	*-1,478.28*	
		For Class 54 Rating, Add	*2,040.87*	
		For Class 55 Rating, Add	*3,046.95*	
		For Class 56 Rating, Add	*4,039.58*	
40 05 19 00-0378	EA	24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,976.76	1,381.32
		For Class 52 Rating, Deduct	*-1,527.22*	
		For Class 54 Rating, Add	*2,107.69*	
		For Class 55 Rating, Add	*3,146.33*	
		For Class 56 Rating, Add	*4,171.08*	
40 05 19 00-0379	EA	24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,428.43	1,385.77
		For Class 52 Rating, Deduct	*-1,576.16*	
		For Class 54 Rating, Add	*2,174.51*	
		For Class 55 Rating, Add	*3,245.71*	
		For Class 56 Rating, Add	*4,302.57*	
40 05 19 00-0380	EA	24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,880.11	1,390.23
		For Class 52 Rating, Deduct	*-1,625.11*	
		For Class 54 Rating, Add	*2,241.33*	
		For Class 55 Rating, Add	*3,345.09*	
		For Class 56 Rating, Add	*4,434.07*	
40 05 19 00-0381	EA	24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,331.79	1,394.69
		For Class 52 Rating, Deduct	*-1,674.05*	
		For Class 54 Rating, Add	*2,308.15*	
		For Class 55 Rating, Add	*3,444.47*	
		For Class 56 Rating, Add	*4,565.57*	
40 05 19 00-0382	EA	24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,783.48	1,399.15
		For Class 52 Rating, Deduct	*-1,722.99*	
		For Class 54 Rating, Add	*2,374.97*	
		For Class 55 Rating, Add	*3,543.85*	
		For Class 56 Rating, Add	*4,697.07*	
40 05 19 00-0383	EA	24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,235.16	1,403.60
		For Class 52 Rating, Deduct	*-1,771.93*	
		For Class 54 Rating, Add	*2,441.79*	
		For Class 55 Rating, Add	*3,643.23*	
		For Class 56 Rating, Add	*4,828.56*	
40 05 19 00-0384	EA	24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,686.83	1,408.06
		For Class 52 Rating, Deduct	*-1,820.88*	
		For Class 54 Rating, Add	*2,508.61*	
		For Class 55 Rating, Add	*3,742.61*	
		For Class 56 Rating, Add	*4,960.06*	
40 05 19 00-0385	EA	24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,138.51	1,412.52
		For Class 52 Rating, Deduct	*-1,869.82*	
		For Class 54 Rating, Add	*2,575.43*	
		For Class 55 Rating, Add	*3,841.99*	
		For Class 56 Rating, Add	*5,091.56*	
40 05 19 00-0386	EA	24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,590.19	1,416.96
		For Class 52 Rating, Deduct	*-1,918.76*	
		For Class 54 Rating, Add	*2,642.25*	
		For Class 55 Rating, Add	*3,941.38*	
		For Class 56 Rating, Add	*5,223.05*	
40 05 19 00-0387	EA	24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,041.88	1,421.42
		For Class 52 Rating, Deduct	*-1,967.70*	
		For Class 54 Rating, Add	*2,709.07*	
		For Class 55 Rating, Add	*4,040.76*	
		For Class 56 Rating, Add	*5,354.55*	
40 05 19 00-0388	EA	24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,493.55	1,425.88
		For Class 52 Rating, Deduct	*-2,016.64*	
		For Class 54 Rating, Add	*2,775.89*	
		For Class 55 Rating, Add	*4,140.14*	
		For Class 56 Rating, Add	*5,486.05*	
40 05 19 00-0389	EA	24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,060.01	1,506.09
		For Class 52 Rating, Deduct	*-2,065.59*	
		For Class 54 Rating, Add	*2,844.09*	
		For Class 55 Rating, Add	*4,242.27*	
		For Class 56 Rating, Add	*5,621.68*	
40 05 19 00-0390	EA	24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,511.68	1,510.54
		For Class 52 Rating, Deduct	*-2,114.53*	
		For Class 54 Rating, Add	*2,910.91*	
		For Class 55 Rating, Add	*4,341.65*	
		For Class 56 Rating, Add	*5,753.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0391	EA	24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,963.36	1,514.99
		For Class 52 Rating, Deduct	*-2,163.47*	
		For Class 54 Rating, Add	*2,977.73*	
		For Class 55 Rating, Add	*4,441.03*	
		For Class 56 Rating, Add	*5,884.67*	
40 05 19 00-0392	EA	24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,415.04	1,519.45
		For Class 52 Rating, Deduct	*-2,212.41*	
		For Class 54 Rating, Add	*3,044.55*	
		For Class 55 Rating, Add	*4,540.42*	
		For Class 56 Rating, Add	*6,016.17*	
40 05 19 00-0393	EA	24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,866.72	1,523.91
		For Class 52 Rating, Deduct	*-2,261.35*	
		For Class 54 Rating, Add	*3,111.37*	
		For Class 55 Rating, Add	*4,639.80*	
		For Class 56 Rating, Add	*6,147.66*	
40 05 19 00-0394	EA	24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,318.40	1,528.36
		For Class 52 Rating, Deduct	*-2,310.30*	
		For Class 54 Rating, Add	*3,178.19*	
		For Class 55 Rating, Add	*4,739.18*	
		For Class 56 Rating, Add	*6,279.16*	
40 05 19 00-0395	EA	24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,770.09	1,532.82
		For Class 52 Rating, Deduct	*-2,359.24*	
		For Class 54 Rating, Add	*3,245.01*	
		For Class 55 Rating, Add	*4,838.56*	
		For Class 56 Rating, Add	*6,410.66*	
40 05 19 00-0396	EA	24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,221.76	1,537.28
		For Class 52 Rating, Deduct	*-2,408.18*	
		For Class 54 Rating, Add	*3,311.83*	
		For Class 55 Rating, Add	*4,937.94*	
		For Class 56 Rating, Add	*6,542.15*	
40 05 19 00-0397	EA	24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,673.43	1,541.73
		For Class 52 Rating, Deduct	*-2,457.12*	
		For Class 54 Rating, Add	*3,378.65*	
		For Class 55 Rating, Add	*5,037.32*	
		For Class 56 Rating, Add	*6,673.65*	

40 05 19 00-0398 30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0399	EA	30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,122.44	1,835.82
		For Class 52 Rating, Deduct	*-1,027.50*	
		For Class 54 Rating, Add	*1,434.51*	
		For Class 55 Rating, Add	*2,149.78*	
		For Class 56 Rating, Add	*2,855.70*	
40 05 19 00-0400	EA	30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,771.86	1,840.27
		For Class 52 Rating, Deduct	*-1,098.19*	
		For Class 54 Rating, Add	*1,530.99*	
		For Class 55 Rating, Add	*2,293.26*	
		For Class 56 Rating, Add	*3,045.53*	
40 05 19 00-0401	EA	30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,421.29	1,844.73
		For Class 52 Rating, Deduct	*-1,168.89*	
		For Class 54 Rating, Add	*1,627.48*	
		For Class 55 Rating, Add	*2,436.73*	
		For Class 56 Rating, Add	*3,235.36*	
40 05 19 00-0402	EA	30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,070.72	1,849.19
		For Class 52 Rating, Deduct	*-1,239.58*	
		For Class 54 Rating, Add	*1,723.96*	
		For Class 55 Rating, Add	*2,580.21*	
		For Class 56 Rating, Add	*3,425.20*	
40 05 19 00-0403	EA	30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,720.14	1,853.64
		For Class 52 Rating, Deduct	*-1,310.27*	
		For Class 54 Rating, Add	*1,820.44*	
		For Class 55 Rating, Add	*2,723.69*	
		For Class 56 Rating, Add	*3,615.03*	
40 05 19 00-0404	EA	30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,369.56	1,858.10
		For Class 52 Rating, Deduct	*-1,380.97*	
		For Class 54 Rating, Add	*1,916.92*	
		For Class 55 Rating, Add	*2,867.17*	
		For Class 56 Rating, Add	*3,804.86*	
40 05 19 00-0405	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,018.99	1,862.56
		For Class 52 Rating, Deduct	*-1,451.66*	
		For Class 54 Rating, Add	*2,013.41*	
		For Class 55 Rating, Add	*3,010.65*	
		For Class 56 Rating, Add	*3,994.69*	
40 05 19 00-0406	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,668.42	1,867.01
		For Class 52 Rating, Deduct	*-1,522.36*	
		For Class 54 Rating, Add	*2,109.89*	
		For Class 55 Rating, Add	*3,154.12*	
		For Class 56 Rating, Add	*4,184.52*	
40 05 19 00-0407	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,317.85	1,871.47
		For Class 52 Rating, Deduct	*-1,593.05*	
		For Class 54 Rating, Add	*2,206.37*	
		For Class 55 Rating, Add	*3,297.60*	
		For Class 56 Rating, Add	*4,374.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0408	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,967.26	1,875.93
		For Class 52 Rating, Deduct	*-1,663.75*	
		For Class 54 Rating, Add	*2,302.85*	
		For Class 55 Rating, Add	*3,441.08*	
		For Class 56 Rating, Add	*4,564.19*	
40 05 19 00-0409	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,616.70	1,880.37
		For Class 52 Rating, Deduct	*-1,734.44*	
		For Class 54 Rating, Add	*2,399.33*	
		For Class 55 Rating, Add	*3,584.56*	
		For Class 56 Rating, Add	*4,754.02*	
40 05 19 00-0410	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,266.12	1,884.83
		For Class 52 Rating, Deduct	*-1,805.13*	
		For Class 54 Rating, Add	*2,495.82*	
		For Class 55 Rating, Add	*3,728.04*	
		For Class 56 Rating, Add	*4,943.85*	
40 05 19 00-0411	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,915.54	1,889.29
		For Class 52 Rating, Deduct	*-1,875.83*	
		For Class 54 Rating, Add	*2,592.30*	
		For Class 55 Rating, Add	*3,871.52*	
		For Class 56 Rating, Add	*5,133.68*	
40 05 19 00-0412	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,564.97	1,893.74
		For Class 52 Rating, Deduct	*-1,946.52*	
		For Class 54 Rating, Add	*2,688.78*	
		For Class 55 Rating, Add	*4,015.00*	
		For Class 56 Rating, Add	*5,323.51*	
40 05 19 00-0413	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,214.39	1,898.20
		For Class 52 Rating, Deduct	*-2,017.22*	
		For Class 54 Rating, Add	*2,785.26*	
		For Class 55 Rating, Add	*4,158.47*	
		For Class 56 Rating, Add	*5,513.35*	
40 05 19 00-0414	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,863.83	1,902.66
		For Class 52 Rating, Deduct	*-2,087.91*	
		For Class 54 Rating, Add	*2,881.75*	
		For Class 55 Rating, Add	*4,301.95*	
		For Class 56 Rating, Add	*5,703.18*	
40 05 19 00-0415	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,513.24	1,907.11
		For Class 52 Rating, Deduct	*-2,158.60*	
		For Class 54 Rating, Add	*2,978.23*	
		For Class 55 Rating, Add	*4,445.43*	
		For Class 56 Rating, Add	*5,893.01*	
40 05 19 00-0416	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,162.67	1,911.57
		For Class 52 Rating, Deduct	*-2,229.30*	
		For Class 54 Rating, Add	*3,074.71*	
		For Class 55 Rating, Add	*4,588.91*	
		For Class 56 Rating, Add	*6,082.84*	
40 05 19 00-0417	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,812.10	1,916.03
		For Class 52 Rating, Deduct	*-2,299.99*	
		For Class 54 Rating, Add	*3,171.19*	
		For Class 55 Rating, Add	*4,732.39*	
		For Class 56 Rating, Add	*6,272.67*	
40 05 19 00-0418	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,461.52	1,920.48
		For Class 52 Rating, Deduct	*-2,370.69*	
		For Class 54 Rating, Add	*3,267.67*	
		For Class 55 Rating, Add	*4,875.86*	
		For Class 56 Rating, Add	*6,462.51*	
40 05 19 00-0419	EA	30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,110.95	1,924.94
		For Class 52 Rating, Deduct	*-2,441.38*	
		For Class 54 Rating, Add	*3,364.16*	
		For Class 55 Rating, Add	*5,019.34*	
		For Class 56 Rating, Add	*6,652.34*	
40 05 19 00-0420	EA	30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,760.37	1,929.39
		For Class 52 Rating, Deduct	*-2,512.08*	
		For Class 54 Rating, Add	*3,460.64*	
		For Class 55 Rating, Add	*5,162.82*	
		For Class 56 Rating, Add	*6,842.17*	
40 05 19 00-0421	EA	30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,409.81	1,933.85
		For Class 52 Rating, Deduct	*-2,582.77*	
		For Class 54 Rating, Add	*3,557.12*	
		For Class 55 Rating, Add	*5,306.30*	
		For Class 56 Rating, Add	*7,032.00*	
40 05 19 00-0422	EA	30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,059.23	1,938.30
		For Class 52 Rating, Deduct	*-2,653.46*	
		For Class 54 Rating, Add	*3,653.60*	
		For Class 55 Rating, Add	*5,449.78*	
		For Class 56 Rating, Add	*7,221.83*	
40 05 19 00-0423	EA	30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,706.04	1,942.76
		For Class 52 Rating, Deduct	*-2,723.87*	
		For Class 54 Rating, Add	*3,749.69*	
		For Class 55 Rating, Add	*5,592.68*	
		For Class 56 Rating, Add	*7,410.90*	
40 05 19 00-0424	EA	30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,358.08	1,947.22
		For Class 52 Rating, Deduct	*-2,794.85*	
		For Class 54 Rating, Add	*3,846.57*	
		For Class 55 Rating, Add	*5,736.74*	
		For Class 56 Rating, Add	*7,601.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0425	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,007.50	1,951.67
		For Class 52 Rating, Deduct	*-2,865.55*	
		For Class 54 Rating, Add	*3,943.05*	
		For Class 55 Rating, Add	*5,880.21*	
		For Class 56 Rating, Add	*7,791.33*	
40 05 19 00-0426	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,656.93	1,956.13
		For Class 52 Rating, Deduct	*-2,936.24*	
		For Class 54 Rating, Add	*4,039.53*	
		For Class 55 Rating, Add	*6,023.69*	
		For Class 56 Rating, Add	*7,981.16*	
40 05 19 00-0427	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,306.35	1,960.59
		For Class 52 Rating, Deduct	*-3,006.93*	
		For Class 54 Rating, Add	*4,136.01*	
		For Class 55 Rating, Add	*6,167.17*	
		For Class 56 Rating, Add	*8,170.99*	
40 05 19 00-0428	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,955.78	1,965.04
		For Class 52 Rating, Deduct	*-3,077.63*	
		For Class 54 Rating, Add	*4,232.50*	
		For Class 55 Rating, Add	*6,310.65*	
		For Class 56 Rating, Add	*8,360.83*	
40 05 19 00-0429	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,605.21	1,969.50
		For Class 52 Rating, Deduct	*-3,148.32*	
		For Class 54 Rating, Add	*4,328.98*	
		For Class 55 Rating, Add	*6,454.13*	
		For Class 56 Rating, Add	*8,550.66*	
40 05 19 00-0430	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,254.62	1,973.95
		For Class 52 Rating, Deduct	*-3,219.02*	
		For Class 54 Rating, Add	*4,425.46*	
		For Class 55 Rating, Add	*6,597.61*	
		For Class 56 Rating, Add	*8,740.49*	
40 05 19 00-0431	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,904.06	1,978.40
		For Class 52 Rating, Deduct	*-3,289.71*	
		For Class 54 Rating, Add	*4,521.94*	
		For Class 55 Rating, Add	*6,741.08*	
		For Class 56 Rating, Add	*8,930.32*	
40 05 19 00-0432	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,553.48	1,982.86
		For Class 52 Rating, Deduct	*-3,360.41*	
		For Class 54 Rating, Add	*4,618.42*	
		For Class 55 Rating, Add	*6,884.56*	
		For Class 56 Rating, Add	*9,120.15*	
40 05 19 00-0433	EA	30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,202.91	1,987.32
		For Class 52 Rating, Deduct	*-3,431.10*	
		For Class 54 Rating, Add	*4,714.91*	
		For Class 55 Rating, Add	*7,028.04*	
		For Class 56 Rating, Add	*9,309.99*	
40 05 19 00-0434	EA	30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,852.33	1,991.77
		For Class 52 Rating, Deduct	*-3,501.79*	
		For Class 54 Rating, Add	*4,811.39*	
		For Class 55 Rating, Add	*7,171.52*	
		For Class 56 Rating, Add	*9,499.82*	
40 05 19 00-0435	EA	30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,501.76	1,996.23
		For Class 52 Rating, Deduct	*-3,572.49*	
		For Class 54 Rating, Add	*4,907.87*	
		For Class 55 Rating, Add	*7,315.00*	
		For Class 56 Rating, Add	*9,689.65*	
40 05 19 00-0436	EA	30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,151.19	2,000.69
		For Class 52 Rating, Deduct	*-3,643.18*	
		For Class 54 Rating, Add	*5,004.35*	
		For Class 55 Rating, Add	*7,458.48*	
		For Class 56 Rating, Add	*9,879.48*	

40 05 19 00-0437 36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0438	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,890.25	2,325.97
		For Class 52 Rating, Deduct	*-1,470.27*	
		For Class 54 Rating, Add	*2,047.20*	
		For Class 55 Rating, Add	*3,065.21*	
		For Class 56 Rating, Add	*4,069.86*	
40 05 19 00-0439	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,771.25	2,330.42
		For Class 52 Rating, Deduct	*-1,566.43*	
		For Class 54 Rating, Add	*2,178.42*	
		For Class 55 Rating, Add	*3,260.33*	
		For Class 56 Rating, Add	*4,328.01*	
40 05 19 00-0440	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,652.25	2,334.88
		For Class 52 Rating, Deduct	*-1,662.60*	
		For Class 54 Rating, Add	*2,309.63*	
		For Class 55 Rating, Add	*3,455.45*	
		For Class 56 Rating, Add	*4,586.15*	
40 05 19 00-0441	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,533.24	2,339.34
		For Class 52 Rating, Deduct	*-1,758.77*	
		For Class 54 Rating, Add	*2,440.85*	
		For Class 55 Rating, Add	*3,650.57*	
		For Class 56 Rating, Add	*4,844.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0442	EA	36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,414.23	2,343.79
		For Class 52 Rating, Deduct	*-1,854.93*	
		For Class 54 Rating, Add	*2,572.07*	
		For Class 55 Rating, Add	*3,845.69*	
		For Class 56 Rating, Add	*5,102.44*	
40 05 19 00-0443	EA	36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,295.24	2,348.24
		For Class 52 Rating, Deduct	*-1,951.10*	
		For Class 54 Rating, Add	*2,703.29*	
		For Class 55 Rating, Add	*4,040.81*	
		For Class 56 Rating, Add	*5,360.59*	
40 05 19 00-0444	EA	36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,176.23	2,352.70
		For Class 52 Rating, Deduct	*-2,047.27*	
		For Class 54 Rating, Add	*2,834.51*	
		For Class 55 Rating, Add	*4,235.92*	
		For Class 56 Rating, Add	*5,618.73*	
40 05 19 00-0445	EA	36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,057.23	2,357.15
		For Class 52 Rating, Deduct	*-2,143.44*	
		For Class 54 Rating, Add	*2,965.72*	
		For Class 55 Rating, Add	*4,431.04*	
		For Class 56 Rating, Add	*5,876.88*	
40 05 19 00-0446	EA	36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,938.22	2,361.61
		For Class 52 Rating, Deduct	*-2,239.60*	
		For Class 54 Rating, Add	*3,096.94*	
		For Class 55 Rating, Add	*4,626.16*	
		For Class 56 Rating, Add	*6,135.02*	
40 05 19 00-0447	EA	36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,819.22	2,366.07
		For Class 52 Rating, Deduct	*-2,335.77*	
		For Class 54 Rating, Add	*3,228.16*	
		For Class 55 Rating, Add	*4,821.28*	
		For Class 56 Rating, Add	*6,393.17*	
40 05 19 00-0448	EA	36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,700.22	2,370.53
		For Class 52 Rating, Deduct	*-2,431.94*	
		For Class 54 Rating, Add	*3,359.38*	
		For Class 55 Rating, Add	*5,016.40*	
		For Class 56 Rating, Add	*6,651.31*	
40 05 19 00-0449	EA	36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,581.21	2,374.98
		For Class 52 Rating, Deduct	*-2,528.10*	
		For Class 54 Rating, Add	*3,490.60*	
		For Class 55 Rating, Add	*5,211.52*	
		For Class 56 Rating, Add	*6,909.46*	
40 05 19 00-0450	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,462.21	2,379.44
		For Class 52 Rating, Deduct	*-2,624.27*	
		For Class 54 Rating, Add	*3,621.81*	
		For Class 55 Rating, Add	*5,406.64*	
		For Class 56 Rating, Add	*7,167.60*	
40 05 19 00-0451	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,343.21	2,383.90
		For Class 52 Rating, Deduct	*-2,720.44*	
		For Class 54 Rating, Add	*3,753.03*	
		For Class 55 Rating, Add	*5,601.76*	
		For Class 56 Rating, Add	*7,425.75*	
40 05 19 00-0452	EA	36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,224.19	2,388.35
		For Class 52 Rating, Deduct	*-2,816.60*	
		For Class 54 Rating, Add	*3,884.25*	
		For Class 55 Rating, Add	*5,796.87*	
		For Class 56 Rating, Add	*7,683.89*	
40 05 19 00-0453	EA	36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,105.20	2,392.80
		For Class 52 Rating, Deduct	*-2,912.77*	
		For Class 54 Rating, Add	*4,015.47*	
		For Class 55 Rating, Add	*5,991.99*	
		For Class 56 Rating, Add	*7,942.04*	
40 05 19 00-0454	EA	36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,986.19	2,397.26
		For Class 52 Rating, Deduct	*-3,008.94*	
		For Class 54 Rating, Add	*4,146.68*	
		For Class 55 Rating, Add	*6,187.11*	
		For Class 56 Rating, Add	*8,200.18*	
40 05 19 00-0455	EA	36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,867.20	2,401.71
		For Class 52 Rating, Deduct	*-3,105.11*	
		For Class 54 Rating, Add	*4,277.90*	
		For Class 55 Rating, Add	*6,382.23*	
		For Class 56 Rating, Add	*8,458.33*	
40 05 19 00-0456	EA	36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,748.19	2,406.17
		For Class 52 Rating, Deduct	*-3,201.27*	
		For Class 54 Rating, Add	*4,409.12*	
		For Class 55 Rating, Add	*6,577.35*	
		For Class 56 Rating, Add	*8,716.48*	
40 05 19 00-0457	EA	36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,629.18	2,410.63
		For Class 52 Rating, Deduct	*-3,297.44*	
		For Class 54 Rating, Add	*4,540.34*	
		For Class 55 Rating, Add	*6,772.47*	
		For Class 56 Rating, Add	*8,974.62*	
40 05 19 00-0458	EA	36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,510.19	2,415.08
		For Class 52 Rating, Deduct	*-3,393.61*	
		For Class 54 Rating, Add	*4,671.56*	
		For Class 55 Rating, Add	*6,967.59*	
		For Class 56 Rating, Add	*9,232.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0459	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,391.18	2,419.54
		For Class 52 Rating, Deduct	*-3,489.77*	
		For Class 54 Rating, Add	*4,802.77*	
		For Class 55 Rating, Add	*7,162.71*	
		For Class 56 Rating, Add	*9,490.91*	
40 05 19 00-0460	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,272.18	2,424.00
		For Class 52 Rating, Deduct	*-3,585.94*	
		For Class 54 Rating, Add	*4,933.99*	
		For Class 55 Rating, Add	*7,357.82*	
		For Class 56 Rating, Add	*9,749.06*	
40 05 19 00-0461	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,153.17	2,428.45
		For Class 52 Rating, Deduct	*-3,682.11*	
		For Class 54 Rating, Add	*5,065.21*	
		For Class 55 Rating, Add	*7,552.94*	
		For Class 56 Rating, Add	*10,007.20*	
40 05 19 00-0462	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,034.17	2,432.91
		For Class 52 Rating, Deduct	*-3,778.27*	
		For Class 54 Rating, Add	*5,196.43*	
		For Class 55 Rating, Add	*7,748.06*	
		For Class 56 Rating, Add	*10,265.35*	
40 05 19 00-0463	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,915.17	2,437.36
		For Class 52 Rating, Deduct	*-3,874.44*	
		For Class 54 Rating, Add	*5,327.64*	
		For Class 55 Rating, Add	*7,943.18*	
		For Class 56 Rating, Add	*10,523.49*	
40 05 19 00-0464	EA	36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,796.16	2,441.81
		For Class 52 Rating, Deduct	*-3,970.61*	
		For Class 54 Rating, Add	*5,458.86*	
		For Class 55 Rating, Add	*8,138.30*	
		For Class 56 Rating, Add	*10,781.64*	
40 05 19 00-0465	EA	36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,677.16	2,446.27
		For Class 52 Rating, Deduct	*-4,066.77*	
		For Class 54 Rating, Add	*5,590.08*	
		For Class 55 Rating, Add	*8,333.42*	
		For Class 56 Rating, Add	*11,039.78*	
40 05 19 00-0466	EA	36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,558.16	2,450.73
		For Class 52 Rating, Deduct	*-4,162.94*	
		For Class 54 Rating, Add	*5,721.30*	
		For Class 55 Rating, Add	*8,528.54*	
		For Class 56 Rating, Add	*11,297.93*	
40 05 19 00-0467	EA	36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,439.14	2,455.18
		For Class 52 Rating, Deduct	*-4,259.11*	
		For Class 54 Rating, Add	*5,852.52*	
		For Class 55 Rating, Add	*8,723.65*	
		For Class 56 Rating, Add	*11,556.07*	
40 05 19 00-0468	EA	36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,320.15	2,459.64
		For Class 52 Rating, Deduct	*-4,355.28*	
		For Class 54 Rating, Add	*5,983.73*	
		For Class 55 Rating, Add	*8,918.77*	
		For Class 56 Rating, Add	*11,814.22*	
40 05 19 00-0469	EA	36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,201.14	2,464.10
		For Class 52 Rating, Deduct	*-4,451.44*	
		For Class 54 Rating, Add	*6,114.95*	
		For Class 55 Rating, Add	*9,113.89*	
		For Class 56 Rating, Add	*12,072.36*	
40 05 19 00-0470	EA	36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,082.15	2,468.56
		For Class 52 Rating, Deduct	*-4,547.61*	
		For Class 54 Rating, Add	*6,246.17*	
		For Class 55 Rating, Add	*9,309.01*	
		For Class 56 Rating, Add	*12,330.51*	
40 05 19 00-0471	EA	36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,963.13	2,473.01
		For Class 52 Rating, Deduct	*-4,643.78*	
		For Class 54 Rating, Add	*6,377.39*	
		For Class 55 Rating, Add	*9,504.13*	
		For Class 56 Rating, Add	*12,588.66*	
40 05 19 00-0472	EA	36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,844.13	2,477.47
		For Class 52 Rating, Deduct	*-4,739.94*	
		For Class 54 Rating, Add	*6,508.60*	
		For Class 55 Rating, Add	*9,699.25*	
		For Class 56 Rating, Add	*12,846.80*	
40 05 19 00-0473	EA	36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,725.13	2,481.93
		For Class 52 Rating, Deduct	*-4,836.11*	
		For Class 54 Rating, Add	*6,639.82*	
		For Class 55 Rating, Add	*9,894.37*	
		For Class 56 Rating, Add	*13,104.95*	
40 05 19 00-0474	EA	36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,606.13	2,486.37
		For Class 52 Rating, Deduct	*-4,932.28*	
		For Class 54 Rating, Add	*6,771.04*	
		For Class 55 Rating, Add	*10,089.49*	
		For Class 56 Rating, Add	*13,363.09*	
40 05 19 00-0475	EA	36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,487.12	2,490.83
		For Class 52 Rating, Deduct	*-5,028.44*	
		For Class 54 Rating, Add	*6,902.26*	
		For Class 55 Rating, Add	*10,284.60*	
		For Class 56 Rating, Add	*13,621.24*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0476		42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*		
40 05 19 00-0477	EA	42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,273.33	2,931.97
		For Class 52 Rating, Deduct	*-1,961.41*	
		For Class 54 Rating, Add	*2,727.95*	
		For Class 55 Rating, Add	*4,082.92*	
		For Class 56 Rating, Add	*5,420.06*	
40 05 19 00-0478	EA	42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,586.25	2,936.42
		For Class 52 Rating, Deduct	*-2,105.08*	
		For Class 54 Rating, Add	*2,923.96*	
		For Class 55 Rating, Add	*4,374.36*	
		For Class 56 Rating, Add	*5,805.62*	
40 05 19 00-0479	EA	42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,883.54	2,940.88
		For Class 52 Rating, Deduct	*-2,247.04*	
		For Class 54 Rating, Add	*3,117.62*	
		For Class 55 Rating, Add	*4,662.31*	
		For Class 56 Rating, Add	*6,186.57*	
40 05 19 00-0480	EA	42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,193.86	2,945.34
		For Class 52 Rating, Deduct	*-2,390.44*	
		For Class 54 Rating, Add	*3,313.24*	
		For Class 55 Rating, Add	*4,953.17*	
		For Class 56 Rating, Add	*6,571.37*	
40 05 19 00-0481	EA	42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,491.17	2,949.78
		For Class 52 Rating, Deduct	*-2,532.40*	
		For Class 54 Rating, Add	*3,506.90*	
		For Class 55 Rating, Add	*5,241.12*	
		For Class 56 Rating, Add	*6,952.33*	
40 05 19 00-0482	EA	42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,804.07	2,954.24
		For Class 52 Rating, Deduct	*-2,676.07*	
		For Class 54 Rating, Add	*3,702.91*	
		For Class 55 Rating, Add	*5,532.56*	
		For Class 56 Rating, Add	*7,337.89*	
40 05 19 00-0483	EA	42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,098.78	2,958.70
		For Class 52 Rating, Deduct	*-2,817.75*	
		For Class 54 Rating, Add	*3,896.18*	
		For Class 55 Rating, Add	*5,819.93*	
		For Class 56 Rating, Add	*7,718.07*	
40 05 19 00-0484	EA	42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,411.70	2,963.15
		For Class 52 Rating, Deduct	*-2,961.43*	
		For Class 54 Rating, Add	*4,092.19*	
		For Class 55 Rating, Add	*6,111.37*	
		For Class 56 Rating, Add	*8,103.64*	
40 05 19 00-0485	EA	42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,709.00	2,967.61
		For Class 52 Rating, Deduct	*-3,103.39*	
		For Class 54 Rating, Add	*4,285.85*	
		For Class 55 Rating, Add	*6,399.33*	
		For Class 56 Rating, Add	*8,484.59*	
40 05 19 00-0486	EA	42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,019.31	2,972.07
		For Class 52 Rating, Deduct	*-3,246.78*	
		For Class 54 Rating, Add	*4,481.46*	
		For Class 55 Rating, Add	*6,690.18*	
		For Class 56 Rating, Add	*8,869.39*	
40 05 19 00-0487	EA	42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,316.61	2,976.52
		For Class 52 Rating, Deduct	*-3,388.74*	
		For Class 54 Rating, Add	*4,675.13*	
		For Class 55 Rating, Add	*6,978.14*	
		For Class 56 Rating, Add	*9,250.34*	
40 05 19 00-0488	EA	42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,626.93	2,980.98
		For Class 52 Rating, Deduct	*-3,532.13*	
		For Class 54 Rating, Add	*4,870.74*	
		For Class 55 Rating, Add	*7,268.99*	
		For Class 56 Rating, Add	*9,635.13*	
40 05 19 00-0489	EA	42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,924.24	2,985.44
		For Class 52 Rating, Deduct	*-3,674.09*	
		For Class 54 Rating, Add	*5,064.41*	
		For Class 55 Rating, Add	*7,556.95*	
		For Class 56 Rating, Add	*10,016.09*	
40 05 19 00-0490	EA	42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,224.13	2,989.89
		For Class 52 Rating, Deduct	*-3,816.34*	
		For Class 54 Rating, Add	*5,258.46*	
		For Class 55 Rating, Add	*7,845.49*	
		For Class 56 Rating, Add	*10,397.81*	
40 05 19 00-0491	EA	42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,531.85	2,994.34
		For Class 52 Rating, Deduct	*-3,959.45*	
		For Class 54 Rating, Add	*5,453.69*	
		For Class 55 Rating, Add	*8,135.76*	
		For Class 56 Rating, Add	*10,781.84*	
40 05 19 00-0492	EA	42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,829.15	2,998.80
		For Class 52 Rating, Deduct	*-4,101.41*	
		For Class 54 Rating, Add	*5,647.35*	
		For Class 55 Rating, Add	*8,423.72*	
		For Class 56 Rating, Add	*11,162.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0493	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,142.08	3,003.26
		For Class 52 Rating, Deduct	*-4,245.08*	
		For Class 54 Rating, Add	*5,843.36*	
		For Class 55 Rating, Add	*8,715.15*	
		For Class 56 Rating, Add	*11,548.36*	
40 05 19 00-0494	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,439.37	3,007.71
		For Class 52 Rating, Deduct	*-4,387.05*	
		For Class 54 Rating, Add	*6,037.02*	
		For Class 55 Rating, Add	*9,003.11*	
		For Class 56 Rating, Add	*11,929.31*	
40 05 19 00-0495	EA	42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,749.68	3,012.17
		For Class 52 Rating, Deduct	*-4,530.44*	
		For Class 54 Rating, Add	*6,232.64*	
		For Class 55 Rating, Add	*9,293.96*	
		For Class 56 Rating, Add	*12,314.11*	
40 05 19 00-0496	EA	42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,046.99	3,016.63
		For Class 52 Rating, Deduct	*-4,672.40*	
		For Class 54 Rating, Add	*6,426.30*	
		For Class 55 Rating, Add	*9,581.92*	
		For Class 56 Rating, Add	*12,695.06*	
40 05 19 00-0497	EA	42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,359.90	3,021.08
		For Class 52 Rating, Deduct	*-4,816.08*	
		For Class 54 Rating, Add	*6,622.31*	
		For Class 55 Rating, Add	*9,873.36*	
		For Class 56 Rating, Add	*13,080.63*	
40 05 19 00-0498	EA	42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,657.21	3,025.54
		For Class 52 Rating, Deduct	*-4,958.04*	
		For Class 54 Rating, Add	*6,815.97*	
		For Class 55 Rating, Add	*10,161.31*	
		For Class 56 Rating, Add	*13,461.58*	
40 05 19 00-0499	EA	42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,967.52	3,030.00
		For Class 52 Rating, Deduct	*-5,101.43*	
		For Class 54 Rating, Add	*7,011.58*	
		For Class 55 Rating, Add	*10,452.17*	
		For Class 56 Rating, Add	*13,846.38*	
40 05 19 00-0500	EA	42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,264.82	3,034.45
		For Class 52 Rating, Deduct	*-5,243.39*	
		For Class 54 Rating, Add	*7,205.25*	
		For Class 55 Rating, Add	*10,740.12*	
		For Class 56 Rating, Add	*14,227.33*	
40 05 19 00-0501	EA	42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,577.74	3,038.91
		For Class 52 Rating, Deduct	*-5,387.07*	
		For Class 54 Rating, Add	*7,401.25*	
		For Class 55 Rating, Add	*11,031.56*	
		For Class 56 Rating, Add	*14,612.89*	
40 05 19 00-0502	EA	42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,875.04	3,043.36
		For Class 52 Rating, Deduct	*-5,529.03*	
		For Class 54 Rating, Add	*7,594.92*	
		For Class 55 Rating, Add	*11,319.52*	
		For Class 56 Rating, Add	*14,993.85*	
40 05 19 00-0503	EA	42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,182.76	3,047.81
		For Class 52 Rating, Deduct	*-5,672.13*	
		For Class 54 Rating, Add	*7,790.14*	
		For Class 55 Rating, Add	*11,609.79*	
		For Class 56 Rating, Add	*15,377.88*	
40 05 19 00-0504	EA	42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,482.66	3,052.27
		For Class 52 Rating, Deduct	*-5,814.38*	
		For Class 54 Rating, Add	*7,984.20*	
		For Class 55 Rating, Add	*11,898.33*	
		For Class 56 Rating, Add	*15,759.60*	
40 05 19 00-0505	EA	42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,519.77	3,056.73
		For Class 52 Rating, Deduct	*-5,927.72*	
		For Class 54 Rating, Add	*8,138.83*	
		For Class 55 Rating, Add	*12,128.26*	
		For Class 56 Rating, Add	*16,063.80*	
40 05 19 00-0506	EA	42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,090.28	3,061.18
		For Class 52 Rating, Deduct	*-6,099.73*	
		For Class 54 Rating, Add	*8,373.48*	
		For Class 55 Rating, Add	*12,477.14*	
		For Class 56 Rating, Add	*16,525.35*	
40 05 19 00-0507	EA	42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,387.58	3,065.64
		For Class 52 Rating, Deduct	*-6,241.69*	
		For Class 54 Rating, Add	*8,567.14*	
		For Class 55 Rating, Add	*12,765.09*	
		For Class 56 Rating, Add	*16,906.30*	
40 05 19 00-0508	EA	42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,697.90	3,070.10
		For Class 52 Rating, Deduct	*-6,385.09*	
		For Class 54 Rating, Add	*8,762.75*	
		For Class 55 Rating, Add	*13,055.95*	
		For Class 56 Rating, Add	*17,291.10*	
40 05 19 00-0509	EA	42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	63,995.20	3,074.55
		For Class 52 Rating, Deduct	*-6,527.05*	
		For Class 54 Rating, Add	*8,956.42*	
		For Class 55 Rating, Add	*13,343.91*	
		For Class 56 Rating, Add	*17,672.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0510	EA	42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,308.11	3,079.01
		For Class 52 Rating, Deduct	*-6,670.72*	
		For Class 54 Rating, Add	*9,152.42*	
		For Class 55 Rating, Add	*13,635.34*	
		For Class 56 Rating, Add	*18,057.62*	
40 05 19 00-0511	EA	42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,602.82	3,083.47
		For Class 52 Rating, Deduct	*-6,812.40*	
		For Class 54 Rating, Add	*9,345.70*	
		For Class 55 Rating, Add	*13,922.72*	
		For Class 56 Rating, Add	*18,437.80*	
40 05 19 00-0512	EA	42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	67,915.72	3,087.92
		For Class 52 Rating, Deduct	*-6,956.08*	
		For Class 54 Rating, Add	*9,541.70*	
		For Class 55 Rating, Add	*14,214.15*	
		For Class 56 Rating, Add	*18,823.36*	
40 05 19 00-0513	EA	42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	69,213.04	3,092.37
		For Class 52 Rating, Deduct	*-7,098.04*	
		For Class 54 Rating, Add	*9,735.37*	
		For Class 55 Rating, Add	*14,502.11*	
		For Class 56 Rating, Add	*19,204.32*	
40 05 19 00-0514	EA	42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,523.35	3,096.83
		For Class 52 Rating, Deduct	*-7,241.43*	
		For Class 54 Rating, Add	*9,930.98*	
		For Class 55 Rating, Add	*14,792.97*	
		For Class 56 Rating, Add	*19,589.12*	

40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0516	EA	48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,939.05	3,685.01
		For Class 52 Rating, Deduct	*-2,459.13*	
		For Class 54 Rating, Add	*3,420.36*	
		For Class 55 Rating, Add	*5,119.32*	
		For Class 56 Rating, Add	*6,795.93*	
40 05 19 00-0517	EA	48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,847.79	3,689.47
		For Class 52 Rating, Deduct	*-2,668.35*	
		For Class 54 Rating, Add	*3,705.74*	
		For Class 55 Rating, Add	*5,543.63*	
		For Class 56 Rating, Add	*7,357.26*	
40 05 19 00-0518	EA	48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,753.95	3,693.91
		For Class 52 Rating, Deduct	*-2,877.28*	
		For Class 54 Rating, Add	*3,990.73*	
		For Class 55 Rating, Add	*5,967.36*	
		For Class 56 Rating, Add	*7,917.83*	
40 05 19 00-0519	EA	48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,675.71	3,698.37
		For Class 52 Rating, Deduct	*-3,087.93*	
		For Class 54 Rating, Add	*4,278.06*	
		For Class 55 Rating, Add	*6,394.57*	
		For Class 56 Rating, Add	*8,483.00*	
40 05 19 00-0520	EA	48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,584.46	3,702.83
		For Class 52 Rating, Deduct	*-3,297.15*	
		For Class 54 Rating, Add	*4,563.44*	
		For Class 55 Rating, Add	*6,818.88*	
		For Class 56 Rating, Add	*9,044.34*	
40 05 19 00-0521	EA	48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,493.22	3,707.28
		For Class 52 Rating, Deduct	*-3,506.37*	
		For Class 54 Rating, Add	*4,848.82*	
		For Class 55 Rating, Add	*7,243.19*	
		For Class 56 Rating, Add	*9,605.67*	
40 05 19 00-0522	EA	48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,412.38	3,711.74
		For Class 52 Rating, Deduct	*-3,716.74*	
		For Class 54 Rating, Add	*5,135.77*	
		For Class 55 Rating, Add	*7,669.81*	
		For Class 56 Rating, Add	*10,170.07*	
40 05 19 00-0523	EA	48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,323.75	3,716.20
		For Class 52 Rating, Deduct	*-3,926.25*	
		For Class 54 Rating, Add	*5,421.54*	
		For Class 55 Rating, Add	*8,094.70*	
		For Class 56 Rating, Add	*10,732.18*	
40 05 19 00-0524	EA	48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,229.89	3,720.66
		For Class 52 Rating, Deduct	*-4,135.18*	
		For Class 54 Rating, Add	*5,706.53*	
		For Class 55 Rating, Add	*8,518.43*	
		For Class 56 Rating, Add	*11,292.74*	
40 05 19 00-0525	EA	48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,151.65	3,725.11
		For Class 52 Rating, Deduct	*-4,345.83*	
		For Class 54 Rating, Add	*5,993.86*	
		For Class 55 Rating, Add	*8,945.64*	
		For Class 56 Rating, Add	*11,857.91*	
40 05 19 00-0526	EA	48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,060.42	3,729.57
		For Class 52 Rating, Deduct	*-4,555.05*	
		For Class 54 Rating, Add	*6,279.24*	
		For Class 55 Rating, Add	*9,369.95*	
		For Class 56 Rating, Add	*12,419.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0527	EA	48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,982.18	3,734.03
		For Class 52 Rating, Deduct	*-4,765.70*	
		For Class 54 Rating, Add	*6,566.58*	
		For Class 55 Rating, Add	*9,797.16*	
		For Class 56 Rating, Add	*12,984.42*	
40 05 19 00-0528	EA	48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,888.33	3,738.47
		For Class 52 Rating, Deduct	*-4,974.64*	
		For Class 54 Rating, Add	*6,851.57*	
		For Class 55 Rating, Add	*10,220.89*	
		For Class 56 Rating, Add	*13,544.99*	
40 05 19 00-0529	EA	48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,797.09	3,742.93
		For Class 52 Rating, Deduct	*-5,183.86*	
		For Class 54 Rating, Add	*7,136.95*	
		For Class 55 Rating, Add	*10,645.20*	
		For Class 56 Rating, Add	*14,106.32*	
40 05 19 00-0530	EA	48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,718.85	3,747.39
		For Class 52 Rating, Deduct	*-5,394.51*	
		For Class 54 Rating, Add	*7,424.28*	
		For Class 55 Rating, Add	*11,072.41*	
		For Class 56 Rating, Add	*14,671.50*	
40 05 19 00-0531	EA	48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,627.61	3,751.84
		For Class 52 Rating, Deduct	*-5,603.73*	
		For Class 54 Rating, Add	*7,709.66*	
		For Class 55 Rating, Add	*11,496.72*	
		For Class 56 Rating, Add	*15,232.83*	
40 05 19 00-0532	EA	48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,533.75	3,756.30
		For Class 52 Rating, Deduct	*-5,812.66*	
		For Class 54 Rating, Add	*7,994.65*	
		For Class 55 Rating, Add	*11,920.45*	
		For Class 56 Rating, Add	*15,793.39*	
40 05 19 00-0533	EA	48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,455.53	3,760.76
		For Class 52 Rating, Deduct	*-6,023.32*	
		For Class 54 Rating, Add	*8,281.99*	
		For Class 55 Rating, Add	*12,347.66*	
		For Class 56 Rating, Add	*16,358.57*	
40 05 19 00-0534	EA	48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,364.28	3,765.21
		For Class 52 Rating, Deduct	*-6,232.54*	
		For Class 54 Rating, Add	*8,567.37*	
		For Class 55 Rating, Add	*12,771.97*	
		For Class 56 Rating, Add	*16,919.90*	
40 05 19 00-0535	EA	48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	64,270.42	3,769.67
		For Class 52 Rating, Deduct	*-6,441.47*	
		For Class 54 Rating, Add	*8,852.36*	
		For Class 55 Rating, Add	*13,195.69*	
		For Class 56 Rating, Add	*17,480.47*	
40 05 19 00-0536	EA	48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,192.19	3,774.13
		For Class 52 Rating, Deduct	*-6,652.12*	
		For Class 54 Rating, Add	*9,139.69*	
		For Class 55 Rating, Add	*13,622.90*	
		For Class 56 Rating, Add	*18,045.64*	
40 05 19 00-0537	EA	48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,103.55	3,778.58
		For Class 52 Rating, Deduct	*-6,861.63*	
		For Class 54 Rating, Add	*9,425.47*	
		For Class 55 Rating, Add	*14,047.79*	
		For Class 56 Rating, Add	*18,607.74*	
40 05 19 00-0538	EA	48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,009.71	3,783.04
		For Class 52 Rating, Deduct	*-7,070.56*	
		For Class 54 Rating, Add	*9,710.46*	
		For Class 55 Rating, Add	*14,471.52*	
		For Class 56 Rating, Add	*19,168.31*	
40 05 19 00-0539	EA	48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	71,931.46	3,787.49
		For Class 52 Rating, Deduct	*-7,281.21*	
		For Class 54 Rating, Add	*9,997.79*	
		For Class 55 Rating, Add	*14,898.73*	
		For Class 56 Rating, Add	*19,733.48*	
40 05 19 00-0540	EA	48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	73,840.22	3,791.94
		For Class 52 Rating, Deduct	*-7,490.43*	
		For Class 54 Rating, Add	*10,283.17*	
		For Class 55 Rating, Add	*15,323.04*	
		For Class 56 Rating, Add	*20,294.81*	
40 05 19 00-0541	EA	48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	75,746.38	3,796.40
		For Class 52 Rating, Deduct	*-7,699.37*	
		For Class 54 Rating, Add	*10,568.16*	
		For Class 55 Rating, Add	*15,746.77*	
		For Class 56 Rating, Add	*20,855.38*	
40 05 19 00-0542	EA	48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	77,668.14	3,800.86
		For Class 52 Rating, Deduct	*-7,910.02*	
		For Class 54 Rating, Add	*10,855.50*	
		For Class 55 Rating, Add	*16,173.98*	
		For Class 56 Rating, Add	*21,420.55*	
40 05 19 00-0543	EA	48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	79,576.90	3,805.32
		For Class 52 Rating, Deduct	*-8,119.24*	
		For Class 54 Rating, Add	*11,140.88*	
		For Class 55 Rating, Add	*16,598.29*	
		For Class 56 Rating, Add	*21,981.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0544	EA	48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	81,251.48	3,809.77
		For Class 52 Rating, Deduct	*-8,302.70*	
		For Class 54 Rating, Add	*11,391.13*	
		For Class 55 Rating, Add	*16,970.38*	
		For Class 56 Rating, Add	*22,474.14*	
40 05 19 00-0545	EA	48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	83,407.41	3,814.23
		For Class 52 Rating, Deduct	*-8,539.11*	
		For Class 54 Rating, Add	*11,713.59*	
		For Class 55 Rating, Add	*17,449.81*	
		For Class 56 Rating, Add	*23,108.39*	
40 05 19 00-0546	EA	48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	85,313.57	3,818.69
		For Class 52 Rating, Deduct	*-8,748.04*	
		For Class 54 Rating, Add	*11,998.58*	
		For Class 55 Rating, Add	*17,873.53*	
		For Class 56 Rating, Add	*23,668.96*	
40 05 19 00-0547	EA	48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	87,237.93	3,823.14
		For Class 52 Rating, Deduct	*-8,958.98*	
		For Class 54 Rating, Add	*12,286.31*	
		For Class 55 Rating, Add	*18,301.33*	
		For Class 56 Rating, Add	*24,234.90*	
40 05 19 00-0548	EA	48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	89,144.09	3,827.60
		For Class 52 Rating, Deduct	*-9,167.92*	
		For Class 54 Rating, Add	*12,571.30*	
		For Class 55 Rating, Add	*18,725.05*	
		For Class 56 Rating, Add	*24,795.46*	
40 05 19 00-0549	EA	48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	91,050.24	3,832.05
		For Class 52 Rating, Deduct	*-9,376.85*	
		For Class 54 Rating, Add	*12,856.29*	
		For Class 55 Rating, Add	*19,148.78*	
		For Class 56 Rating, Add	*25,356.03*	
40 05 19 00-0550	EA	48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	92,974.60	3,836.50
		For Class 52 Rating, Deduct	*-9,587.79*	
		For Class 54 Rating, Add	*13,144.01*	
		For Class 55 Rating, Add	*19,576.57*	
		For Class 56 Rating, Add	*25,921.97*	
40 05 19 00-0551	EA	48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	94,880.76	3,840.96
		For Class 52 Rating, Deduct	*-9,796.72*	
		For Class 54 Rating, Add	*13,429.00*	
		For Class 55 Rating, Add	*20,000.30*	
		For Class 56 Rating, Add	*26,482.54*	
40 05 19 00-0552	EA	48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	96,789.51	3,845.42
		For Class 52 Rating, Deduct	*-10,005.94*	
		For Class 54 Rating, Add	*13,714.38*	
		For Class 55 Rating, Add	*20,424.61*	
		For Class 56 Rating, Add	*27,043.87*	
40 05 19 00-0553	EA	48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	98,711.29	3,849.87
		For Class 52 Rating, Deduct	*-10,216.60*	
		For Class 54 Rating, Add	*14,001.72*	
		For Class 55 Rating, Add	*20,851.82*	
		For Class 56 Rating, Add	*27,609.04*	

40 05 19 00-0554 Flanged End x Grooved End (FxG), Cement Lined, Bituminous Seal Coat, Ductile Iron Piping *(40 05 19 00-0001)*

40 05 19 00-0555 4" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0556	EA	4" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	751.27	203.90
		For Class 52 Rating, Deduct	*-48.66*	
		For Class 54 Rating, Add	*70.06*	
		For Class 55 Rating, Add	*106.05*	
		For Class 56 Rating, Add	*141.61*	
40 05 19 00-0557	EA	4" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	824.32	207.47
		For Class 52 Rating, Deduct	*-56.10*	
		For Class 54 Rating, Add	*80.27*	
		For Class 55 Rating, Add	*121.27*	
		For Class 56 Rating, Add	*161.76*	
40 05 19 00-0558	EA	4" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	897.37	211.03
		For Class 52 Rating, Deduct	*-63.54*	
		For Class 54 Rating, Add	*90.48*	
		For Class 55 Rating, Add	*136.49*	
		For Class 56 Rating, Add	*181.91*	
40 05 19 00-0559	EA	4" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	970.42	214.59
		For Class 52 Rating, Deduct	*-70.98*	
		For Class 54 Rating, Add	*100.69*	
		For Class 55 Rating, Add	*151.70*	
		For Class 56 Rating, Add	*202.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0560	EA	4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,043.47	218.17
		For Class 52 Rating, Deduct	*-78.42*	
		For Class 54 Rating, Add	*110.91*	
		For Class 55 Rating, Add	*166.92*	
		For Class 56 Rating, Add	*222.21*	
40 05 19 00-0561	EA	4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,116.53	221.73
		For Class 52 Rating, Deduct	*-85.86*	
		For Class 54 Rating, Add	*121.12*	
		For Class 55 Rating, Add	*182.13*	
		For Class 56 Rating, Add	*242.37*	
40 05 19 00-0562	EA	4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,189.57	225.29
		For Class 52 Rating, Deduct	*-93.31*	
		For Class 54 Rating, Add	*131.33*	
		For Class 55 Rating, Add	*197.35*	
		For Class 56 Rating, Add	*262.52*	
40 05 19 00-0563	EA	4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,262.63	228.86
		For Class 52 Rating, Deduct	*-100.75*	
		For Class 54 Rating, Add	*141.54*	
		For Class 55 Rating, Add	*212.56*	
		For Class 56 Rating, Add	*282.67*	
40 05 19 00-0564	EA	4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,335.68	232.42
		For Class 52 Rating, Deduct	*-108.19*	
		For Class 54 Rating, Add	*151.76*	
		For Class 55 Rating, Add	*227.78*	
		For Class 56 Rating, Add	*302.82*	
40 05 19 00-0565	EA	4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,408.73	235.98
		For Class 52 Rating, Deduct	*-115.63*	
		For Class 54 Rating, Add	*161.97*	
		For Class 55 Rating, Add	*242.99*	
		For Class 56 Rating, Add	*322.97*	
40 05 19 00-0566	EA	4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,481.79	239.55
		For Class 52 Rating, Deduct	*-123.07*	
		For Class 54 Rating, Add	*172.18*	
		For Class 55 Rating, Add	*258.21*	
		For Class 56 Rating, Add	*343.12*	
40 05 19 00-0567	EA	4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,554.83	243.11
		For Class 52 Rating, Deduct	*-130.51*	
		For Class 54 Rating, Add	*182.39*	
		For Class 55 Rating, Add	*273.43*	
		For Class 56 Rating, Add	*363.27*	
40 05 19 00-0568	EA	4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,627.89	246.68
		For Class 52 Rating, Deduct	*-137.95*	
		For Class 54 Rating, Add	*192.60*	
		For Class 55 Rating, Add	*288.64*	
		For Class 56 Rating, Add	*383.42*	
40 05 19 00-0569	EA	4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,700.93	250.25
		For Class 52 Rating, Deduct	*-145.40*	
		For Class 54 Rating, Add	*202.82*	
		For Class 55 Rating, Add	*303.86*	
		For Class 56 Rating, Add	*403.57*	
40 05 19 00-0570	EA	4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,773.99	253.81
		For Class 52 Rating, Deduct	*-152.84*	
		For Class 54 Rating, Add	*213.03*	
		For Class 55 Rating, Add	*319.07*	
		For Class 56 Rating, Add	*423.73*	
40 05 19 00-0571	EA	4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,847.03	257.37
		For Class 52 Rating, Deduct	*-160.28*	
		For Class 54 Rating, Add	*223.24*	
		For Class 55 Rating, Add	*334.29*	
		For Class 56 Rating, Add	*443.88*	
40 05 19 00-0572	EA	4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,920.09	260.94
		For Class 52 Rating, Deduct	*-167.72*	
		For Class 54 Rating, Add	*233.45*	
		For Class 55 Rating, Add	*349.50*	
		For Class 56 Rating, Add	*464.03*	
40 05 19 00-0573	EA	4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,993.14	264.50
		For Class 52 Rating, Deduct	*-175.16*	
		For Class 54 Rating, Add	*243.67*	
		For Class 55 Rating, Add	*364.72*	
		For Class 56 Rating, Add	*484.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0574	EA	4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,066.18	268.06
		For Class 52 Rating, Deduct	*-182.60*	
		For Class 54 Rating, Add	*253.88*	
		For Class 55 Rating, Add	*379.93*	
		For Class 56 Rating, Add	*504.33*	
40 05 19 00-0575	EA	4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,139.23	271.63
		For Class 52 Rating, Deduct	*-190.04*	
		For Class 54 Rating, Add	*264.09*	
		For Class 55 Rating, Add	*395.15*	
		For Class 56 Rating, Add	*524.48*	
40 05 19 00-0576	EA	4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,212.28	275.20
		For Class 52 Rating, Deduct	*-197.49*	
		For Class 54 Rating, Add	*274.30*	
		For Class 55 Rating, Add	*410.36*	
		For Class 56 Rating, Add	*544.63*	
40 05 19 00-0577	EA	4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,285.33	278.77
		For Class 52 Rating, Deduct	*-204.93*	
		For Class 54 Rating, Add	*284.51*	
		For Class 55 Rating, Add	*425.58*	
		For Class 56 Rating, Add	*564.78*	
40 05 19 00-0578	EA	4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,358.39	282.33
		For Class 52 Rating, Deduct	*-212.37*	
		For Class 54 Rating, Add	*294.73*	
		For Class 55 Rating, Add	*440.79*	
		For Class 56 Rating, Add	*584.93*	
40 05 19 00-0579	EA	4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,431.43	285.89
		For Class 52 Rating, Deduct	*-219.81*	
		For Class 54 Rating, Add	*304.94*	
		For Class 55 Rating, Add	*456.01*	
		For Class 56 Rating, Add	*605.08*	
40 05 19 00-0580	EA	4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,504.49	289.46
		For Class 52 Rating, Deduct	*-227.25*	
		For Class 54 Rating, Add	*315.15*	
		For Class 55 Rating, Add	*471.23*	
		For Class 56 Rating, Add	*625.23*	
40 05 19 00-0581	EA	4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,577.53	293.02
		For Class 52 Rating, Deduct	*-234.69*	
		For Class 54 Rating, Add	*325.36*	
		For Class 55 Rating, Add	*486.44*	
		For Class 56 Rating, Add	*645.39*	
40 05 19 00-0582	EA	4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,650.59	296.58
		For Class 52 Rating, Deduct	*-242.13*	
		For Class 54 Rating, Add	*335.58*	
		For Class 55 Rating, Add	*501.66*	
		For Class 56 Rating, Add	*665.54*	
40 05 19 00-0583	EA	4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,723.64	300.15
		For Class 52 Rating, Deduct	*-249.58*	
		For Class 54 Rating, Add	*345.79*	
		For Class 55 Rating, Add	*516.87*	
		For Class 56 Rating, Add	*685.69*	
40 05 19 00-0584	EA	4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,796.69	303.72
		For Class 52 Rating, Deduct	*-257.02*	
		For Class 54 Rating, Add	*356.00*	
		For Class 55 Rating, Add	*532.09*	
		For Class 56 Rating, Add	*705.84*	
40 05 19 00-0585	EA	4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,869.74	307.28
		For Class 52 Rating, Deduct	*-264.46*	
		For Class 54 Rating, Add	*366.21*	
		For Class 55 Rating, Add	*547.30*	
		For Class 56 Rating, Add	*725.99*	
40 05 19 00-0586	EA	4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,942.79	310.85
		For Class 52 Rating, Deduct	*-271.90*	
		For Class 54 Rating, Add	*376.42*	
		For Class 55 Rating, Add	*562.52*	
		For Class 56 Rating, Add	*746.14*	
40 05 19 00-0587	EA	4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,015.84	314.41
		For Class 52 Rating, Deduct	*-279.34*	
		For Class 54 Rating, Add	*386.64*	
		For Class 55 Rating, Add	*577.73*	
		For Class 56 Rating, Add	*766.29*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0588	EA	4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,088.89	317.97
		For Class 52 Rating, Deduct	*-286.78*	
		For Class 54 Rating, Add	*396.85*	
		For Class 55 Rating, Add	*592.95*	
		For Class 56 Rating, Add	*786.44*	
40 05 19 00-0589	EA	4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,161.95	321.54
		For Class 52 Rating, Deduct	*-294.22*	
		For Class 54 Rating, Add	*407.06*	
		For Class 55 Rating, Add	*608.17*	
		For Class 56 Rating, Add	*806.60*	
40 05 19 00-0590	EA	4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,235.00	325.10
		For Class 52 Rating, Deduct	*-301.67*	
		For Class 54 Rating, Add	*417.27*	
		For Class 55 Rating, Add	*623.38*	
		For Class 56 Rating, Add	*826.75*	
40 05 19 00-0591	EA	4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,308.05	328.66
		For Class 52 Rating, Deduct	*-309.11*	
		For Class 54 Rating, Add	*427.49*	
		For Class 55 Rating, Add	*638.60*	
		For Class 56 Rating, Add	*846.90*	
40 05 19 00-0592	EA	4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,381.10	332.24
		For Class 52 Rating, Deduct	*-316.55*	
		For Class 54 Rating, Add	*437.70*	
		For Class 55 Rating, Add	*653.81*	
		For Class 56 Rating, Add	*867.05*	
40 05 19 00-0593	EA	4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,454.15	335.80
		For Class 52 Rating, Deduct	*-323.99*	
		For Class 54 Rating, Add	*447.91*	
		For Class 55 Rating, Add	*669.03*	
		For Class 56 Rating, Add	*887.20*	
40 05 19 00-0594	EA	4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,527.20	339.36
		For Class 52 Rating, Deduct	*-331.43*	
		For Class 54 Rating, Add	*458.12*	
		For Class 55 Rating, Add	*684.24*	
		For Class 56 Rating, Add	*907.35*	
40 05 19 00-0595		6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*		
40 05 19 00-0596	EA	6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	937.88	256.66
		For Class 52 Rating, Deduct	*-60.39*	
		For Class 54 Rating, Add	*87.02*	
		For Class 55 Rating, Add	*131.76*	
		For Class 56 Rating, Add	*175.96*	
40 05 19 00-0597	EA	6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,026.55	260.22
		For Class 52 Rating, Deduct	*-69.55*	
		For Class 54 Rating, Add	*99.57*	
		For Class 55 Rating, Add	*150.46*	
		For Class 56 Rating, Add	*200.71*	
40 05 19 00-0598	EA	6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,115.20	263.79
		For Class 52 Rating, Deduct	*-78.71*	
		For Class 54 Rating, Add	*112.13*	
		For Class 55 Rating, Add	*169.16*	
		For Class 56 Rating, Add	*225.47*	
40 05 19 00-0599	EA	6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,203.87	267.35
		For Class 52 Rating, Deduct	*-87.87*	
		For Class 54 Rating, Add	*124.68*	
		For Class 55 Rating, Add	*187.85*	
		For Class 56 Rating, Add	*250.23*	
40 05 19 00-0600	EA	6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,292.54	270.91
		For Class 52 Rating, Deduct	*-97.03*	
		For Class 54 Rating, Add	*137.23*	
		For Class 55 Rating, Add	*206.55*	
		For Class 56 Rating, Add	*274.98*	
40 05 19 00-0601	EA	6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,381.19	274.48
		For Class 52 Rating, Deduct	*-106.18*	
		For Class 54 Rating, Add	*149.79*	
		For Class 55 Rating, Add	*225.25*	
		For Class 56 Rating, Add	*299.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0602	EA	6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,469.86	278.05
		For Class 52 Rating, Deduct	*-115.34*	
		For Class 54 Rating, Add	*162.34*	
		For Class 55 Rating, Add	*243.94*	
		For Class 56 Rating, Add	*324.49*	
40 05 19 00-0603	EA	6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,558.52	281.61
		For Class 52 Rating, Deduct	*-124.50*	
		For Class 54 Rating, Add	*174.90*	
		For Class 55 Rating, Add	*262.64*	
		For Class 56 Rating, Add	*349.25*	
40 05 19 00-0604	EA	6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,647.19	285.18
		For Class 52 Rating, Deduct	*-133.66*	
		For Class 54 Rating, Add	*187.45*	
		For Class 55 Rating, Add	*281.34*	
		For Class 56 Rating, Add	*374.01*	
40 05 19 00-0605	EA	6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,735.84	288.74
		For Class 52 Rating, Deduct	*-142.82*	
		For Class 54 Rating, Add	*200.00*	
		For Class 55 Rating, Add	*300.03*	
		For Class 56 Rating, Add	*398.77*	
40 05 19 00-0606	EA	6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,824.51	292.30
		For Class 52 Rating, Deduct	*-151.98*	
		For Class 54 Rating, Add	*212.56*	
		For Class 55 Rating, Add	*318.73*	
		For Class 56 Rating, Add	*423.52*	
40 05 19 00-0607	EA	6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,913.17	295.87
		For Class 52 Rating, Deduct	*-161.14*	
		For Class 54 Rating, Add	*225.11*	
		For Class 55 Rating, Add	*337.43*	
		For Class 56 Rating, Add	*448.28*	
40 05 19 00-0608	EA	6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,001.83	299.43
		For Class 52 Rating, Deduct	*-170.30*	
		For Class 54 Rating, Add	*237.67*	
		For Class 55 Rating, Add	*356.12*	
		For Class 56 Rating, Add	*473.03*	
40 05 19 00-0609	EA	6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,090.49	302.99
		For Class 52 Rating, Deduct	*-179.45*	
		For Class 54 Rating, Add	*250.22*	
		For Class 55 Rating, Add	*374.82*	
		For Class 56 Rating, Add	*497.79*	
40 05 19 00-0610	EA	6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,179.16	306.57
		For Class 52 Rating, Deduct	*-188.61*	
		For Class 54 Rating, Add	*262.77*	
		For Class 55 Rating, Add	*393.52*	
		For Class 56 Rating, Add	*522.55*	
40 05 19 00-0611	EA	6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,267.82	310.13
		For Class 52 Rating, Deduct	*-197.77*	
		For Class 54 Rating, Add	*275.33*	
		For Class 55 Rating, Add	*412.22*	
		For Class 56 Rating, Add	*547.31*	
40 05 19 00-0612	EA	6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,356.49	313.69
		For Class 52 Rating, Deduct	*-206.93*	
		For Class 54 Rating, Add	*287.88*	
		For Class 55 Rating, Add	*430.91*	
		For Class 56 Rating, Add	*572.06*	
40 05 19 00-0613	EA	6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,445.14	317.26
		For Class 52 Rating, Deduct	*-216.09*	
		For Class 54 Rating, Add	*300.44*	
		For Class 55 Rating, Add	*449.61*	
		For Class 56 Rating, Add	*596.82*	
40 05 19 00-0614	EA	6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,533.81	320.82
		For Class 52 Rating, Deduct	*-225.25*	
		For Class 54 Rating, Add	*312.99*	
		For Class 55 Rating, Add	*468.31*	
		For Class 56 Rating, Add	*621.57*	
40 05 19 00-0615	EA	6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,622.46	324.39
		For Class 52 Rating, Deduct	*-234.41*	
		For Class 54 Rating, Add	*325.54*	
		For Class 55 Rating, Add	*487.00*	
		For Class 56 Rating, Add	*646.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0616	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,711.13	327.95
		For Class 52 Rating, Deduct	*-243.57*	
		For Class 54 Rating, Add	*338.10*	
		For Class 55 Rating, Add	*505.70*	
		For Class 56 Rating, Add	*671.09*	
40 05 19 00-0617	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,799.79	331.51
		For Class 52 Rating, Deduct	*-252.73*	
		For Class 54 Rating, Add	*350.65*	
		For Class 55 Rating, Add	*524.40*	
		For Class 56 Rating, Add	*695.84*	
40 05 19 00-0618	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,888.46	335.09
		For Class 52 Rating, Deduct	*-261.88*	
		For Class 54 Rating, Add	*363.21*	
		For Class 55 Rating, Add	*543.09*	
		For Class 56 Rating, Add	*720.60*	
40 05 19 00-0619	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,977.12	338.65
		For Class 52 Rating, Deduct	*-271.04*	
		For Class 54 Rating, Add	*375.76*	
		For Class 55 Rating, Add	*561.79*	
		For Class 56 Rating, Add	*745.36*	
40 05 19 00-0620	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,065.78	342.21
		For Class 52 Rating, Deduct	*-280.20*	
		For Class 54 Rating, Add	*388.31*	
		For Class 55 Rating, Add	*580.49*	
		For Class 56 Rating, Add	*770.11*	
40 05 19 00-0621	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,154.44	345.78
		For Class 52 Rating, Deduct	*-289.36*	
		For Class 54 Rating, Add	*400.87*	
		For Class 55 Rating, Add	*599.18*	
		For Class 56 Rating, Add	*794.87*	
40 05 19 00-0622	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,243.10	349.34
		For Class 52 Rating, Deduct	*-298.52*	
		For Class 54 Rating, Add	*413.42*	
		For Class 55 Rating, Add	*617.88*	
		For Class 56 Rating, Add	*819.63*	
40 05 19 00-0623	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,331.76	352.90
		For Class 52 Rating, Deduct	*-307.68*	
		For Class 54 Rating, Add	*425.98*	
		For Class 55 Rating, Add	*636.58*	
		For Class 56 Rating, Add	*844.38*	
40 05 19 00-0624	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,420.44	356.47
		For Class 52 Rating, Deduct	*-316.84*	
		For Class 54 Rating, Add	*438.53*	
		For Class 55 Rating, Add	*655.28*	
		For Class 56 Rating, Add	*869.14*	
40 05 19 00-0625	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,509.10	360.03
		For Class 52 Rating, Deduct	*-325.99*	
		For Class 54 Rating, Add	*451.08*	
		For Class 55 Rating, Add	*673.97*	
		For Class 56 Rating, Add	*893.90*	
40 05 19 00-0626	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,597.76	363.60
		For Class 52 Rating, Deduct	*-335.15*	
		For Class 54 Rating, Add	*463.64*	
		For Class 55 Rating, Add	*692.67*	
		For Class 56 Rating, Add	*918.65*	
40 05 19 00-0627	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,686.42	367.17
		For Class 52 Rating, Deduct	*-344.31*	
		For Class 54 Rating, Add	*476.19*	
		For Class 55 Rating, Add	*711.37*	
		For Class 56 Rating, Add	*943.41*	
40 05 19 00-0628	EA	6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,775.08	370.73
		For Class 52 Rating, Deduct	*-353.47*	
		For Class 54 Rating, Add	*488.75*	
		For Class 55 Rating, Add	*730.06*	
		For Class 56 Rating, Add	*968.17*	
40 05 19 00-0629	EA	6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,863.75	374.29
		For Class 52 Rating, Deduct	*-362.63*	
		For Class 54 Rating, Add	*501.30*	
		For Class 55 Rating, Add	*748.76*	
		For Class 56 Rating, Add	*992.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0630	EA	6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,952.40	377.86
		For Class 52 Rating, Deduct	*-371.79*	
		For Class 54 Rating, Add	*513.85*	
		For Class 55 Rating, Add	*767.46*	
		For Class 56 Rating, Add	*1,017.68*	
40 05 19 00-0631	EA	6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,041.08	381.42
		For Class 52 Rating, Deduct	*-380.95*	
		For Class 54 Rating, Add	*526.41*	
		For Class 55 Rating, Add	*786.15*	
		For Class 56 Rating, Add	*1,042.44*	
40 05 19 00-0632	EA	6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,129.73	384.98
		For Class 52 Rating, Deduct	*-390.11*	
		For Class 54 Rating, Add	*538.96*	
		For Class 55 Rating, Add	*804.85*	
		For Class 56 Rating, Add	*1,067.19*	
40 05 19 00-0633	EA	6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,218.40	388.55
		For Class 52 Rating, Deduct	*-399.26*	
		For Class 54 Rating, Add	*551.52*	
		For Class 55 Rating, Add	*823.55*	
		For Class 56 Rating, Add	*1,091.95*	
40 05 19 00-0634	EA	6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,307.05	392.12
		For Class 52 Rating, Deduct	*-408.42*	
		For Class 54 Rating, Add	*564.07*	
		For Class 55 Rating, Add	*842.24*	
		For Class 56 Rating, Add	*1,116.71*	

40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0636	EA	8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,298.29	327.95
		For Class 52 Rating, Deduct	*-88.15*	
		For Class 54 Rating, Add	*126.17*	
		For Class 55 Rating, Add	*190.64*	
		For Class 56 Rating, Add	*254.30*	
40 05 19 00-0637	EA	8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,418.17	331.51
		For Class 52 Rating, Deduct	*-100.75*	
		For Class 54 Rating, Add	*143.41*	
		For Class 55 Rating, Add	*216.30*	
		For Class 56 Rating, Add	*288.27*	
40 05 19 00-0638	EA	8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,538.06	335.09
		For Class 52 Rating, Deduct	*-113.34*	
		For Class 54 Rating, Add	*160.65*	
		For Class 55 Rating, Add	*241.96*	
		For Class 56 Rating, Add	*322.23*	
40 05 19 00-0639	EA	8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,657.94	338.65
		For Class 52 Rating, Deduct	*-125.93*	
		For Class 54 Rating, Add	*177.88*	
		For Class 55 Rating, Add	*267.61*	
		For Class 56 Rating, Add	*356.20*	
40 05 19 00-0640	EA	8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,777.83	342.21
		For Class 52 Rating, Deduct	*-138.53*	
		For Class 54 Rating, Add	*195.12*	
		For Class 55 Rating, Add	*293.27*	
		For Class 56 Rating, Add	*390.17*	
40 05 19 00-0641	EA	8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,897.71	345.78
		For Class 52 Rating, Deduct	*-151.12*	
		For Class 54 Rating, Add	*212.36*	
		For Class 55 Rating, Add	*318.93*	
		For Class 56 Rating, Add	*424.13*	
40 05 19 00-0642	EA	8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,017.60	349.34
		For Class 52 Rating, Deduct	*-163.71*	
		For Class 54 Rating, Add	*229.60*	
		For Class 55 Rating, Add	*344.59*	
		For Class 56 Rating, Add	*458.10*	
40 05 19 00-0643	EA	8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,137.48	352.90
		For Class 52 Rating, Deduct	*-176.31*	
		For Class 54 Rating, Add	*246.83*	
		For Class 55 Rating, Add	*370.25*	
		For Class 56 Rating, Add	*492.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0644	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,257.38	356.47
		For Class 52 Rating, Deduct	*-188.90*	
		For Class 54 Rating, Add	*264.07*	
		For Class 55 Rating, Add	*395.91*	
		For Class 56 Rating, Add	*526.04*	
40 05 19 00-0645	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,377.26	360.03
		For Class 52 Rating, Deduct	*-201.49*	
		For Class 54 Rating, Add	*281.31*	
		For Class 55 Rating, Add	*421.57*	
		For Class 56 Rating, Add	*560.00*	
40 05 19 00-0646	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,497.15	363.60
		For Class 52 Rating, Deduct	*-214.09*	
		For Class 54 Rating, Add	*298.55*	
		For Class 55 Rating, Add	*447.23*	
		For Class 56 Rating, Add	*593.97*	
40 05 19 00-0647	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,617.03	367.17
		For Class 52 Rating, Deduct	*-226.68*	
		For Class 54 Rating, Add	*315.78*	
		For Class 55 Rating, Add	*472.89*	
		For Class 56 Rating, Add	*627.94*	
40 05 19 00-0648	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,736.92	370.73
		For Class 52 Rating, Deduct	*-239.27*	
		For Class 54 Rating, Add	*333.02*	
		For Class 55 Rating, Add	*498.55*	
		For Class 56 Rating, Add	*661.91*	
40 05 19 00-0649	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,856.81	374.29
		For Class 52 Rating, Deduct	*-251.87*	
		For Class 54 Rating, Add	*350.26*	
		For Class 55 Rating, Add	*524.21*	
		For Class 56 Rating, Add	*695.87*	
40 05 19 00-0650	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,976.68	377.86
		For Class 52 Rating, Deduct	*-264.46*	
		For Class 54 Rating, Add	*367.50*	
		For Class 55 Rating, Add	*549.87*	
		For Class 56 Rating, Add	*729.84*	
40 05 19 00-0651	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,096.58	381.42
		For Class 52 Rating, Deduct	*-277.05*	
		For Class 54 Rating, Add	*384.73*	
		For Class 55 Rating, Add	*575.53*	
		For Class 56 Rating, Add	*763.81*	
40 05 19 00-0652	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,216.45	384.98
		For Class 52 Rating, Deduct	*-289.65*	
		For Class 54 Rating, Add	*401.97*	
		For Class 55 Rating, Add	*601.19*	
		For Class 56 Rating, Add	*797.78*	
40 05 19 00-0653	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,336.35	388.55
		For Class 52 Rating, Deduct	*-302.24*	
		For Class 54 Rating, Add	*419.21*	
		For Class 55 Rating, Add	*626.85*	
		For Class 56 Rating, Add	*831.74*	
40 05 19 00-0654	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,456.22	392.12
		For Class 52 Rating, Deduct	*-314.83*	
		For Class 54 Rating, Add	*436.45*	
		For Class 55 Rating, Add	*652.51*	
		For Class 56 Rating, Add	*865.71*	
40 05 19 00-0655	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,576.12	395.68
		For Class 52 Rating, Deduct	*-327.43*	
		For Class 54 Rating, Add	*453.68*	
		For Class 55 Rating, Add	*678.17*	
		For Class 56 Rating, Add	*899.68*	
40 05 19 00-0656	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,696.00	399.25
		For Class 52 Rating, Deduct	*-340.02*	
		For Class 54 Rating, Add	*470.92*	
		For Class 55 Rating, Add	*703.83*	
		For Class 56 Rating, Add	*933.65*	
40 05 19 00-0657	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,815.89	402.81
		For Class 52 Rating, Deduct	*-352.61*	
		For Class 54 Rating, Add	*488.16*	
		For Class 55 Rating, Add	*729.49*	
		For Class 56 Rating, Add	*967.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0658	EA	8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,935.77	406.38
		For Class 52 Rating, Deduct	*-365.21*	
		For Class 54 Rating, Add	*505.40*	
		For Class 55 Rating, Add	*755.15*	
		For Class 56 Rating, Add	*1,001.58*	
40 05 19 00-0659	EA	8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,055.65	409.94
		For Class 52 Rating, Deduct	*-377.80*	
		For Class 54 Rating, Add	*522.63*	
		For Class 55 Rating, Add	*780.81*	
		For Class 56 Rating, Add	*1,035.55*	
40 05 19 00-0660	EA	8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,175.54	413.50
		For Class 52 Rating, Deduct	*-390.39*	
		For Class 54 Rating, Add	*539.87*	
		For Class 55 Rating, Add	*806.47*	
		For Class 56 Rating, Add	*1,069.52*	
40 05 19 00-0661	EA	8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,295.43	417.07
		For Class 52 Rating, Deduct	*-402.99*	
		For Class 54 Rating, Add	*557.11*	
		For Class 55 Rating, Add	*832.13*	
		For Class 56 Rating, Add	*1,103.48*	
40 05 19 00-0662	EA	8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,415.31	420.64
		For Class 52 Rating, Deduct	*-415.58*	
		For Class 54 Rating, Add	*574.35*	
		For Class 55 Rating, Add	*857.79*	
		For Class 56 Rating, Add	*1,137.45*	
40 05 19 00-0663	EA	8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,535.20	424.20
		For Class 52 Rating, Deduct	*-428.17*	
		For Class 54 Rating, Add	*591.58*	
		For Class 55 Rating, Add	*883.45*	
		For Class 56 Rating, Add	*1,171.42*	
40 05 19 00-0664	EA	8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,655.08	427.77
		For Class 52 Rating, Deduct	*-440.77*	
		For Class 54 Rating, Add	*608.82*	
		For Class 55 Rating, Add	*909.11*	
		For Class 56 Rating, Add	*1,205.39*	
40 05 19 00-0665	EA	8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,774.97	431.33
		For Class 52 Rating, Deduct	*-453.36*	
		For Class 54 Rating, Add	*626.06*	
		For Class 55 Rating, Add	*934.77*	
		For Class 56 Rating, Add	*1,239.35*	
40 05 19 00-0666	EA	8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,894.85	434.89
		For Class 52 Rating, Deduct	*-465.95*	
		For Class 54 Rating, Add	*643.30*	
		For Class 55 Rating, Add	*960.43*	
		For Class 56 Rating, Add	*1,273.32*	
40 05 19 00-0667	EA	8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,014.74	438.46
		For Class 52 Rating, Deduct	*-478.55*	
		For Class 54 Rating, Add	*660.53*	
		For Class 55 Rating, Add	*986.09*	
		For Class 56 Rating, Add	*1,307.29*	
40 05 19 00-0668	EA	8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,134.62	442.02
		For Class 52 Rating, Deduct	*-491.14*	
		For Class 54 Rating, Add	*677.77*	
		For Class 55 Rating, Add	*1,011.74*	
		For Class 56 Rating, Add	*1,341.25*	
40 05 19 00-0669	EA	8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,254.51	445.58
		For Class 52 Rating, Deduct	*-503.73*	
		For Class 54 Rating, Add	*695.01*	
		For Class 55 Rating, Add	*1,037.40*	
		For Class 56 Rating, Add	*1,375.22*	
40 05 19 00-0670	EA	8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,374.40	449.16
		For Class 52 Rating, Deduct	*-516.32*	
		For Class 54 Rating, Add	*712.25*	
		For Class 55 Rating, Add	*1,063.06*	
		For Class 56 Rating, Add	*1,409.19*	
40 05 19 00-0671	EA	8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,494.28	452.72
		For Class 52 Rating, Deduct	*-528.92*	
		For Class 54 Rating, Add	*729.48*	
		For Class 55 Rating, Add	*1,088.72*	
		For Class 56 Rating, Add	*1,443.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0672	EA	8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,614.17	456.28
		For Class 52 Rating, Deduct	*-541.51*	
		For Class 54 Rating, Add	*746.72*	
		For Class 55 Rating, Add	*1,114.38*	
		For Class 56 Rating, Add	*1,477.12*	
40 05 19 00-0673	EA	8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,734.06	459.85
		For Class 52 Rating, Deduct	*-554.11*	
		For Class 54 Rating, Add	*763.96*	
		For Class 55 Rating, Add	*1,140.04*	
		For Class 56 Rating, Add	*1,511.09*	
40 05 19 00-0674	EA	8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,853.94	463.41
		For Class 52 Rating, Deduct	*-566.70*	
		For Class 54 Rating, Add	*781.20*	
		For Class 55 Rating, Add	*1,165.70*	
		For Class 56 Rating, Add	*1,545.06*	

40 05 19 00-0675 10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0676	EA	10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,630.08	399.25
		For Class 52 Rating, Deduct	*-112.77*	
		For Class 54 Rating, Add	*161.03*	
		For Class 55 Rating, Add	*243.13*	
		For Class 56 Rating, Add	*324.20*	
40 05 19 00-0677	EA	10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,786.39	402.81
		For Class 52 Rating, Deduct	*-129.37*	
		For Class 54 Rating, Add	*183.73*	
		For Class 55 Rating, Add	*276.91*	
		For Class 56 Rating, Add	*368.91*	
40 05 19 00-0678	EA	10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,942.70	406.38
		For Class 52 Rating, Deduct	*-145.97*	
		For Class 54 Rating, Add	*206.44*	
		For Class 55 Rating, Add	*310.69*	
		For Class 56 Rating, Add	*413.63*	
40 05 19 00-0679	EA	10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,099.01	409.94
		For Class 52 Rating, Deduct	*-162.57*	
		For Class 54 Rating, Add	*229.14*	
		For Class 55 Rating, Add	*344.48*	
		For Class 56 Rating, Add	*458.34*	
40 05 19 00-0680	EA	10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,255.32	413.50
		For Class 52 Rating, Deduct	*-179.17*	
		For Class 54 Rating, Add	*251.84*	
		For Class 55 Rating, Add	*378.26*	
		For Class 56 Rating, Add	*503.05*	
40 05 19 00-0681	EA	10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,411.64	417.07
		For Class 52 Rating, Deduct	*-195.77*	
		For Class 54 Rating, Add	*274.54*	
		For Class 55 Rating, Add	*412.04*	
		For Class 56 Rating, Add	*547.76*	
40 05 19 00-0682	EA	10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,567.94	420.64
		For Class 52 Rating, Deduct	*-212.37*	
		For Class 54 Rating, Add	*297.24*	
		For Class 55 Rating, Add	*445.82*	
		For Class 56 Rating, Add	*592.48*	
40 05 19 00-0683	EA	10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,724.27	424.20
		For Class 52 Rating, Deduct	*-228.97*	
		For Class 54 Rating, Add	*319.94*	
		For Class 55 Rating, Add	*479.61*	
		For Class 56 Rating, Add	*637.19*	
40 05 19 00-0684	EA	10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,880.57	427.77
		For Class 52 Rating, Deduct	*-245.57*	
		For Class 54 Rating, Add	*342.64*	
		For Class 55 Rating, Add	*513.39*	
		For Class 56 Rating, Add	*681.91*	
40 05 19 00-0685	EA	10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,036.89	431.33
		For Class 52 Rating, Deduct	*-262.17*	
		For Class 54 Rating, Add	*365.35*	
		For Class 55 Rating, Add	*547.17*	
		For Class 56 Rating, Add	*726.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0686	EA	10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,193.19	434.89
		For Class 52 Rating, Deduct	*-278.77*	
		For Class 54 Rating, Add	*388.05*	
		For Class 55 Rating, Add	*580.96*	
		For Class 56 Rating, Add	*771.33*	
40 05 19 00-0687	EA	10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,349.51	438.46
		For Class 52 Rating, Deduct	*-295.37*	
		For Class 54 Rating, Add	*410.75*	
		For Class 55 Rating, Add	*614.74*	
		For Class 56 Rating, Add	*816.04*	
40 05 19 00-0688	EA	10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,505.82	442.02
		For Class 52 Rating, Deduct	*-311.97*	
		For Class 54 Rating, Add	*433.45*	
		For Class 55 Rating, Add	*648.52*	
		For Class 56 Rating, Add	*860.76*	
40 05 19 00-0689	EA	10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,662.13	445.58
		For Class 52 Rating, Deduct	*-328.57*	
		For Class 54 Rating, Add	*456.15*	
		For Class 55 Rating, Add	*682.30*	
		For Class 56 Rating, Add	*905.47*	
40 05 19 00-0690	EA	10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,818.46	449.16
		For Class 52 Rating, Deduct	*-345.17*	
		For Class 54 Rating, Add	*478.85*	
		For Class 55 Rating, Add	*716.09*	
		For Class 56 Rating, Add	*950.19*	
40 05 19 00-0691	EA	10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,974.76	452.72
		For Class 52 Rating, Deduct	*-361.77*	
		For Class 54 Rating, Add	*501.56*	
		For Class 55 Rating, Add	*749.87*	
		For Class 56 Rating, Add	*994.90*	
40 05 19 00-0692	EA	10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,131.08	456.28
		For Class 52 Rating, Deduct	*-378.37*	
		For Class 54 Rating, Add	*524.26*	
		For Class 55 Rating, Add	*783.65*	
		For Class 56 Rating, Add	*1,039.61*	
40 05 19 00-0693	EA	10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,287.39	459.85
		For Class 52 Rating, Deduct	*-394.97*	
		For Class 54 Rating, Add	*546.96*	
		For Class 55 Rating, Add	*817.44*	
		For Class 56 Rating, Add	*1,084.32*	
40 05 19 00-0694	EA	10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,443.70	463.41
		For Class 52 Rating, Deduct	*-411.57*	
		For Class 54 Rating, Add	*569.66*	
		For Class 55 Rating, Add	*851.22*	
		For Class 56 Rating, Add	*1,129.04*	
40 05 19 00-0695	EA	10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,600.01	466.97
		For Class 52 Rating, Deduct	*-428.17*	
		For Class 54 Rating, Add	*592.36*	
		For Class 55 Rating, Add	*885.00*	
		For Class 56 Rating, Add	*1,173.75*	
40 05 19 00-0696	EA	10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,756.32	470.54
		For Class 52 Rating, Deduct	*-444.77*	
		For Class 54 Rating, Add	*615.06*	
		For Class 55 Rating, Add	*918.78*	
		For Class 56 Rating, Add	*1,218.46*	
40 05 19 00-0697	EA	10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,912.64	474.10
		For Class 52 Rating, Deduct	*-461.37*	
		For Class 54 Rating, Add	*637.77*	
		For Class 55 Rating, Add	*952.57*	
		For Class 56 Rating, Add	*1,263.18*	
40 05 19 00-0698	EA	10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,068.95	477.67
		For Class 52 Rating, Deduct	*-477.97*	
		For Class 54 Rating, Add	*660.47*	
		For Class 55 Rating, Add	*986.35*	
		For Class 56 Rating, Add	*1,307.89*	
40 05 19 00-0699	EA	10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,225.26	481.24
		For Class 52 Rating, Deduct	*-494.57*	
		For Class 54 Rating, Add	*683.17*	
		For Class 55 Rating, Add	*1,020.13*	
		For Class 56 Rating, Add	*1,352.60*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,381.58	484.80
		For Class 52 Rating, Deduct	*-511.17*	
		For Class 54 Rating, Add	*705.87*	
		For Class 55 Rating, Add	*1,053.92*	
		For Class 56 Rating, Add	*1,397.32*	
40 05 19 00-0701	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,537.88	488.36
		For Class 52 Rating, Deduct	*-527.77*	
		For Class 54 Rating, Add	*728.57*	
		For Class 55 Rating, Add	*1,087.70*	
		For Class 56 Rating, Add	*1,442.03*	
40 05 19 00-0702	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,694.20	491.93
		For Class 52 Rating, Deduct	*-544.37*	
		For Class 54 Rating, Add	*751.27*	
		For Class 55 Rating, Add	*1,121.48*	
		For Class 56 Rating, Add	*1,486.74*	
40 05 19 00-0703	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,850.50	495.49
		For Class 52 Rating, Deduct	*-560.97*	
		For Class 54 Rating, Add	*773.97*	
		For Class 55 Rating, Add	*1,155.26*	
		For Class 56 Rating, Add	*1,531.46*	
40 05 19 00-0704	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,006.82	499.06
		For Class 52 Rating, Deduct	*-577.57*	
		For Class 54 Rating, Add	*796.67*	
		For Class 55 Rating, Add	*1,189.05*	
		For Class 56 Rating, Add	*1,576.17*	
40 05 19 00-0705	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,163.14	502.62
		For Class 52 Rating, Deduct	*-594.17*	
		For Class 54 Rating, Add	*819.38*	
		For Class 55 Rating, Add	*1,222.83*	
		For Class 56 Rating, Add	*1,620.88*	
40 05 19 00-0706	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,319.45	506.18
		For Class 52 Rating, Deduct	*-610.78*	
		For Class 54 Rating, Add	*842.08*	
		For Class 55 Rating, Add	*1,256.61*	
		For Class 56 Rating, Add	*1,665.60*	
40 05 19 00-0707	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,475.76	509.76
		For Class 52 Rating, Deduct	*-627.38*	
		For Class 54 Rating, Add	*864.78*	
		For Class 55 Rating, Add	*1,290.40*	
		For Class 56 Rating, Add	*1,710.31*	
40 05 19 00-0708	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,632.07	513.32
		For Class 52 Rating, Deduct	*-643.98*	
		For Class 54 Rating, Add	*887.48*	
		For Class 55 Rating, Add	*1,324.18*	
		For Class 56 Rating, Add	*1,755.02*	
40 05 19 00-0709	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,788.38	516.88
		For Class 52 Rating, Deduct	*-660.58*	
		For Class 54 Rating, Add	*910.18*	
		For Class 55 Rating, Add	*1,357.96*	
		For Class 56 Rating, Add	*1,799.74*	
40 05 19 00-0710	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,944.70	520.45
		For Class 52 Rating, Deduct	*-677.18*	
		For Class 54 Rating, Add	*932.88*	
		For Class 55 Rating, Add	*1,391.74*	
		For Class 56 Rating, Add	*1,844.45*	
40 05 19 00-0711	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,101.00	524.01
		For Class 52 Rating, Deduct	*-693.78*	
		For Class 54 Rating, Add	*955.58*	
		For Class 55 Rating, Add	*1,425.53*	
		For Class 56 Rating, Add	*1,889.16*	
40 05 19 00-0712	EA	10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,257.33	527.57
		For Class 52 Rating, Deduct	*-710.38*	
		For Class 54 Rating, Add	*978.29*	
		For Class 55 Rating, Add	*1,459.31*	
		For Class 56 Rating, Add	*1,933.88*	
40 05 19 00-0713	EA	10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,413.63	531.14
		For Class 52 Rating, Deduct	*-726.98*	
		For Class 54 Rating, Add	*1,000.99*	
		For Class 55 Rating, Add	*1,493.09*	
		For Class 56 Rating, Add	*1,978.59*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0714	EA	10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,569.95	534.70
		For Class 52 Rating, Deduct	*-743.58*	
		For Class 54 Rating, Add	*1,023.69*	
		For Class 55 Rating, Add	*1,526.88*	
		For Class 56 Rating, Add	*2,023.30*	

40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0716	EA	12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,114.35	499.06
		For Class 52 Rating, Deduct	*-149.40*	
		For Class 54 Rating, Add	*212.80*	
		For Class 55 Rating, Add	*321.03*	
		For Class 56 Rating, Add	*427.89*	
40 05 19 00-0717	EA	12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,309.69	502.62
		For Class 52 Rating, Deduct	*-170.30*	
		For Class 54 Rating, Add	*241.36*	
		For Class 55 Rating, Add	*363.51*	
		For Class 56 Rating, Add	*484.12*	
40 05 19 00-0718	EA	12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,505.03	506.18
		For Class 52 Rating, Deduct	*-191.19*	
		For Class 54 Rating, Add	*269.92*	
		For Class 55 Rating, Add	*406.00*	
		For Class 56 Rating, Add	*540.34*	
40 05 19 00-0719	EA	12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,700.37	509.76
		For Class 52 Rating, Deduct	*-212.08*	
		For Class 54 Rating, Add	*298.47*	
		For Class 55 Rating, Add	*448.48*	
		For Class 56 Rating, Add	*596.57*	
40 05 19 00-0720	EA	12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,895.71	513.32
		For Class 52 Rating, Deduct	*-232.98*	
		For Class 54 Rating, Add	*327.03*	
		For Class 55 Rating, Add	*490.97*	
		For Class 56 Rating, Add	*652.80*	
40 05 19 00-0721	EA	12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,091.05	516.88
		For Class 52 Rating, Deduct	*-253.87*	
		For Class 54 Rating, Add	*355.58*	
		For Class 55 Rating, Add	*533.46*	
		For Class 56 Rating, Add	*709.02*	
40 05 19 00-0722	EA	12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,286.40	520.45
		For Class 52 Rating, Deduct	*-274.76*	
		For Class 54 Rating, Add	*384.14*	
		For Class 55 Rating, Add	*575.94*	
		For Class 56 Rating, Add	*765.25*	
40 05 19 00-0723	EA	12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,481.73	524.01
		For Class 52 Rating, Deduct	*-295.66*	
		For Class 54 Rating, Add	*412.69*	
		For Class 55 Rating, Add	*618.43*	
		For Class 56 Rating, Add	*821.48*	
40 05 19 00-0724	EA	12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,677.08	527.57
		For Class 52 Rating, Deduct	*-316.55*	
		For Class 54 Rating, Add	*441.25*	
		For Class 55 Rating, Add	*660.92*	
		For Class 56 Rating, Add	*877.70*	
40 05 19 00-0725	EA	12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,872.41	531.14
		For Class 52 Rating, Deduct	*-337.44*	
		For Class 54 Rating, Add	*469.81*	
		For Class 55 Rating, Add	*703.40*	
		For Class 56 Rating, Add	*933.93*	
40 05 19 00-0726	EA	12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,067.76	534.70
		For Class 52 Rating, Deduct	*-358.34*	
		For Class 54 Rating, Add	*498.36*	
		For Class 55 Rating, Add	*745.89*	
		For Class 56 Rating, Add	*990.16*	
40 05 19 00-0727	EA	12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,263.10	538.27
		For Class 52 Rating, Deduct	*-379.23*	
		For Class 54 Rating, Add	*526.92*	
		For Class 55 Rating, Add	*788.37*	
		For Class 56 Rating, Add	*1,046.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0728	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,458.44	541.84
		For Class 52 Rating, Deduct	*-400.12*	
		For Class 54 Rating, Add	*555.47*	
		For Class 55 Rating, Add	*830.86*	
		For Class 56 Rating, Add	*1,102.61*	
40 05 19 00-0729	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,653.79	545.40
		For Class 52 Rating, Deduct	*-421.02*	
		For Class 54 Rating, Add	*584.03*	
		For Class 55 Rating, Add	*873.35*	
		For Class 56 Rating, Add	*1,158.84*	
40 05 19 00-0730	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,849.12	548.96
		For Class 52 Rating, Deduct	*-441.91*	
		For Class 54 Rating, Add	*612.59*	
		For Class 55 Rating, Add	*915.83*	
		For Class 56 Rating, Add	*1,215.06*	
40 05 19 00-0731	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,044.47	552.53
		For Class 52 Rating, Deduct	*-462.80*	
		For Class 54 Rating, Add	*641.14*	
		For Class 55 Rating, Add	*958.32*	
		For Class 56 Rating, Add	*1,271.29*	
40 05 19 00-0732	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,239.80	556.09
		For Class 52 Rating, Deduct	*-483.70*	
		For Class 54 Rating, Add	*669.70*	
		For Class 55 Rating, Add	*1,000.81*	
		For Class 56 Rating, Add	*1,327.52*	
40 05 19 00-0733	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,435.15	559.65
		For Class 52 Rating, Deduct	*-504.59*	
		For Class 54 Rating, Add	*698.25*	
		For Class 55 Rating, Add	*1,043.29*	
		For Class 56 Rating, Add	*1,383.75*	
40 05 19 00-0734	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,630.50	563.22
		For Class 52 Rating, Deduct	*-525.48*	
		For Class 54 Rating, Add	*726.81*	
		For Class 55 Rating, Add	*1,085.78*	
		For Class 56 Rating, Add	*1,439.97*	
40 05 19 00-0735	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,825.84	566.79
		For Class 52 Rating, Deduct	*-546.38*	
		For Class 54 Rating, Add	*755.37*	
		For Class 55 Rating, Add	*1,128.27*	
		For Class 56 Rating, Add	*1,496.20*	
40 05 19 00-0736	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,021.18	570.35
		For Class 52 Rating, Deduct	*-567.27*	
		For Class 54 Rating, Add	*783.92*	
		For Class 55 Rating, Add	*1,170.75*	
		For Class 56 Rating, Add	*1,552.43*	
40 05 19 00-0737	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,216.52	573.92
		For Class 52 Rating, Deduct	*-588.16*	
		For Class 54 Rating, Add	*812.48*	
		For Class 55 Rating, Add	*1,213.24*	
		For Class 56 Rating, Add	*1,608.65*	
40 05 19 00-0738	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,411.86	577.48
		For Class 52 Rating, Deduct	*-609.06*	
		For Class 54 Rating, Add	*841.03*	
		For Class 55 Rating, Add	*1,255.73*	
		For Class 56 Rating, Add	*1,664.88*	
40 05 19 00-0739	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,607.20	581.05
		For Class 52 Rating, Deduct	*-629.95*	
		For Class 54 Rating, Add	*869.59*	
		For Class 55 Rating, Add	*1,298.21*	
		For Class 56 Rating, Add	*1,721.11*	
40 05 19 00-0740	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,802.54	584.61
		For Class 52 Rating, Deduct	*-650.84*	
		For Class 54 Rating, Add	*898.14*	
		For Class 55 Rating, Add	*1,340.70*	
		For Class 56 Rating, Add	*1,777.33*	
40 05 19 00-0741	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,997.89	588.17
		For Class 52 Rating, Deduct	*-671.74*	
		For Class 54 Rating, Add	*926.70*	
		For Class 55 Rating, Add	*1,383.18*	
		For Class 56 Rating, Add	*1,833.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0742	EA	12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,193.22	591.74
		For Class 52 Rating, Deduct	*-692.63*	
		For Class 54 Rating, Add	*955.26*	
		For Class 55 Rating, Add	*1,425.67*	
		For Class 56 Rating, Add	*1,889.79*	
40 05 19 00-0743	EA	12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,388.57	595.31
		For Class 52 Rating, Deduct	*-713.52*	
		For Class 54 Rating, Add	*983.81*	
		For Class 55 Rating, Add	*1,468.16*	
		For Class 56 Rating, Add	*1,946.02*	
40 05 19 00-0744	EA	12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,583.90	598.87
		For Class 52 Rating, Deduct	*-734.42*	
		For Class 54 Rating, Add	*1,012.37*	
		For Class 55 Rating, Add	*1,510.64*	
		For Class 56 Rating, Add	*2,002.24*	
40 05 19 00-0745	EA	12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,779.25	602.44
		For Class 52 Rating, Deduct	*-755.31*	
		For Class 54 Rating, Add	*1,040.92*	
		For Class 55 Rating, Add	*1,553.13*	
		For Class 56 Rating, Add	*2,058.47*	
40 05 19 00-0746	EA	12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,974.59	606.00
		For Class 52 Rating, Deduct	*-776.21*	
		For Class 54 Rating, Add	*1,069.48*	
		For Class 55 Rating, Add	*1,595.62*	
		For Class 56 Rating, Add	*2,114.70*	
40 05 19 00-0747	EA	12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,169.93	609.56
		For Class 52 Rating, Deduct	*-797.10*	
		For Class 54 Rating, Add	*1,098.04*	
		For Class 55 Rating, Add	*1,638.10*	
		For Class 56 Rating, Add	*2,170.92*	
40 05 19 00-0748	EA	12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,365.27	613.13
		For Class 52 Rating, Deduct	*-817.99*	
		For Class 54 Rating, Add	*1,126.59*	
		For Class 55 Rating, Add	*1,680.59*	
		For Class 56 Rating, Add	*2,227.15*	
40 05 19 00-0749	EA	12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,560.61	616.69
		For Class 52 Rating, Deduct	*-838.89*	
		For Class 54 Rating, Add	*1,155.15*	
		For Class 55 Rating, Add	*1,723.07*	
		For Class 56 Rating, Add	*2,283.38*	
40 05 19 00-0750	EA	12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,755.95	620.25
		For Class 52 Rating, Deduct	*-859.78*	
		For Class 54 Rating, Add	*1,183.70*	
		For Class 55 Rating, Add	*1,765.56*	
		For Class 56 Rating, Add	*2,339.60*	
40 05 19 00-0751	EA	12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,951.30	623.83
		For Class 52 Rating, Deduct	*-880.67*	
		For Class 54 Rating, Add	*1,212.26*	
		For Class 55 Rating, Add	*1,808.05*	
		For Class 56 Rating, Add	*2,395.83*	
40 05 19 00-0752	EA	12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,146.64	627.39
		For Class 52 Rating, Deduct	*-901.57*	
		For Class 54 Rating, Add	*1,240.81*	
		For Class 55 Rating, Add	*1,850.53*	
		For Class 56 Rating, Add	*2,452.06*	
40 05 19 00-0753	EA	12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,341.98	630.95
		For Class 52 Rating, Deduct	*-922.46*	
		For Class 54 Rating, Add	*1,269.37*	
		For Class 55 Rating, Add	*1,893.02*	
		For Class 56 Rating, Add	*2,508.28*	
40 05 19 00-0754	EA	12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,537.32	634.52
		For Class 52 Rating, Deduct	*-943.35*	
		For Class 54 Rating, Add	*1,297.93*	
		For Class 55 Rating, Add	*1,935.51*	
		For Class 56 Rating, Add	*2,564.51*	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0756	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,936.87	598.87
		For Class 52 Rating, Deduct	*-223.25*	
		For Class 54 Rating, Add	*315.31*	
		For Class 55 Rating, Add	*474.36*	
		For Class 56 Rating, Add	*631.37*	
40 05 19 00-0757	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,173.85	602.44
		For Class 52 Rating, Deduct	*-248.72*	
		For Class 54 Rating, Add	*350.11*	
		For Class 55 Rating, Add	*526.13*	
		For Class 56 Rating, Add	*699.88*	
40 05 19 00-0758	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,410.82	606.00
		For Class 52 Rating, Deduct	*-274.19*	
		For Class 54 Rating, Add	*384.91*	
		For Class 55 Rating, Add	*577.90*	
		For Class 56 Rating, Add	*768.38*	
40 05 19 00-0759	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,647.79	609.56
		For Class 52 Rating, Deduct	*-299.66*	
		For Class 54 Rating, Add	*419.71*	
		For Class 55 Rating, Add	*629.66*	
		For Class 56 Rating, Add	*836.89*	
40 05 19 00-0760	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,884.76	613.13
		For Class 52 Rating, Deduct	*-325.14*	
		For Class 54 Rating, Add	*454.51*	
		For Class 55 Rating, Add	*681.43*	
		For Class 56 Rating, Add	*905.40*	
40 05 19 00-0761	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,121.73	616.69
		For Class 52 Rating, Deduct	*-350.61*	
		For Class 54 Rating, Add	*489.32*	
		For Class 55 Rating, Add	*733.20*	
		For Class 56 Rating, Add	*973.91*	
40 05 19 00-0762	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,358.70	620.25
		For Class 52 Rating, Deduct	*-376.08*	
		For Class 54 Rating, Add	*524.12*	
		For Class 55 Rating, Add	*784.97*	
		For Class 56 Rating, Add	*1,042.41*	
40 05 19 00-0763	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,595.68	623.83
		For Class 52 Rating, Deduct	*-401.55*	
		For Class 54 Rating, Add	*558.92*	
		For Class 55 Rating, Add	*836.74*	
		For Class 56 Rating, Add	*1,110.92*	
40 05 19 00-0764	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,832.65	627.39
		For Class 52 Rating, Deduct	*-427.03*	
		For Class 54 Rating, Add	*593.72*	
		For Class 55 Rating, Add	*888.51*	
		For Class 56 Rating, Add	*1,179.43*	
40 05 19 00-0765	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,069.63	630.95
		For Class 52 Rating, Deduct	*-452.50*	
		For Class 54 Rating, Add	*628.52*	
		For Class 55 Rating, Add	*940.29*	
		For Class 56 Rating, Add	*1,247.94*	
40 05 19 00-0766	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,306.60	634.52
		For Class 52 Rating, Deduct	*-477.97*	
		For Class 54 Rating, Add	*663.32*	
		For Class 55 Rating, Add	*992.06*	
		For Class 56 Rating, Add	*1,316.45*	
40 05 19 00-0767	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,543.57	638.08
		For Class 52 Rating, Deduct	*-503.45*	
		For Class 54 Rating, Add	*698.12*	
		For Class 55 Rating, Add	*1,043.82*	
		For Class 56 Rating, Add	*1,384.95*	
40 05 19 00-0768	EA	14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,780.54	641.64
		For Class 52 Rating, Deduct	*-528.92*	
		For Class 54 Rating, Add	*732.92*	
		For Class 55 Rating, Add	*1,095.59*	
		For Class 56 Rating, Add	*1,453.46*	
40 05 19 00-0769	EA	14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,017.51	645.21
		For Class 52 Rating, Deduct	*-554.39*	
		For Class 54 Rating, Add	*767.72*	
		For Class 55 Rating, Add	*1,147.36*	
		For Class 56 Rating, Add	*1,521.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0770	EA	14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,254.49	648.77
		For Class 52 Rating, Deduct	*-579.86*	
		For Class 54 Rating, Add	*802.52*	
		For Class 55 Rating, Add	*1,199.13*	
		For Class 56 Rating, Add	*1,590.48*	
40 05 19 00-0771	EA	14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,491.45	652.34
		For Class 52 Rating, Deduct	*-605.34*	
		For Class 54 Rating, Add	*837.32*	
		For Class 55 Rating, Add	*1,250.90*	
		For Class 56 Rating, Add	*1,658.98*	
40 05 19 00-0772	EA	14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,728.43	655.91
		For Class 52 Rating, Deduct	*-630.81*	
		For Class 54 Rating, Add	*872.12*	
		For Class 55 Rating, Add	*1,302.67*	
		For Class 56 Rating, Add	*1,727.49*	
40 05 19 00-0773	EA	14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,965.39	659.47
		For Class 52 Rating, Deduct	*-656.28*	
		For Class 54 Rating, Add	*906.92*	
		For Class 55 Rating, Add	*1,354.44*	
		For Class 56 Rating, Add	*1,796.00*	
40 05 19 00-0774	EA	14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,202.37	663.03
		For Class 52 Rating, Deduct	*-681.75*	
		For Class 54 Rating, Add	*941.72*	
		For Class 55 Rating, Add	*1,406.21*	
		For Class 56 Rating, Add	*1,864.51*	
40 05 19 00-0775	EA	14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,439.34	666.60
		For Class 52 Rating, Deduct	*-707.23*	
		For Class 54 Rating, Add	*976.52*	
		For Class 55 Rating, Add	*1,457.98*	
		For Class 56 Rating, Add	*1,933.02*	
40 05 19 00-0776	EA	14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,676.32	670.16
		For Class 52 Rating, Deduct	*-732.70*	
		For Class 54 Rating, Add	*1,011.32*	
		For Class 55 Rating, Add	*1,509.75*	
		For Class 56 Rating, Add	*2,001.53*	
40 05 19 00-0777	EA	14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,913.29	673.73
		For Class 52 Rating, Deduct	*-758.17*	
		For Class 54 Rating, Add	*1,046.12*	
		For Class 55 Rating, Add	*1,561.52*	
		For Class 56 Rating, Add	*2,070.03*	
40 05 19 00-0778	EA	14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,150.26	677.29
		For Class 52 Rating, Deduct	*-783.65*	
		For Class 54 Rating, Add	*1,080.92*	
		For Class 55 Rating, Add	*1,613.29*	
		For Class 56 Rating, Add	*2,138.54*	
40 05 19 00-0779	EA	14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,387.23	680.86
		For Class 52 Rating, Deduct	*-809.12*	
		For Class 54 Rating, Add	*1,115.72*	
		For Class 55 Rating, Add	*1,665.06*	
		For Class 56 Rating, Add	*2,207.05*	
40 05 19 00-0780	EA	14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,624.20	684.43
		For Class 52 Rating, Deduct	*-834.59*	
		For Class 54 Rating, Add	*1,150.52*	
		For Class 55 Rating, Add	*1,716.83*	
		For Class 56 Rating, Add	*2,275.56*	
40 05 19 00-0781	EA	14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,861.17	687.99
		For Class 52 Rating, Deduct	*-860.06*	
		For Class 54 Rating, Add	*1,185.32*	
		For Class 55 Rating, Add	*1,768.60*	
		For Class 56 Rating, Add	*2,344.06*	
40 05 19 00-0782	EA	14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,098.15	691.55
		For Class 52 Rating, Deduct	*-885.54*	
		For Class 54 Rating, Add	*1,220.12*	
		For Class 55 Rating, Add	*1,820.37*	
		For Class 56 Rating, Add	*2,412.57*	
40 05 19 00-0783	EA	14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,335.11	695.12
		For Class 52 Rating, Deduct	*-911.01*	
		For Class 54 Rating, Add	*1,254.92*	
		For Class 55 Rating, Add	*1,872.14*	
		For Class 56 Rating, Add	*2,481.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0784	EA	14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,572.09	698.68
		For Class 52 Rating, Deduct	*-936.48*	
		For Class 54 Rating, Add	*1,289.73*	
		For Class 55 Rating, Add	*1,923.91*	
		For Class 56 Rating, Add	*2,549.59*	
40 05 19 00-0785	EA	14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,809.05	702.24
		For Class 52 Rating, Deduct	*-961.96*	
		For Class 54 Rating, Add	*1,324.53*	
		For Class 55 Rating, Add	*1,975.68*	
		For Class 56 Rating, Add	*2,618.09*	
40 05 19 00-0786	EA	14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,046.03	705.81
		For Class 52 Rating, Deduct	*-987.43*	
		For Class 54 Rating, Add	*1,359.33*	
		For Class 55 Rating, Add	*2,027.45*	
		For Class 56 Rating, Add	*2,686.60*	
40 05 19 00-0787	EA	14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,283.00	709.38
		For Class 52 Rating, Deduct	*-1,012.90*	
		For Class 54 Rating, Add	*1,394.13*	
		For Class 55 Rating, Add	*2,079.22*	
		For Class 56 Rating, Add	*2,755.11*	
40 05 19 00-0788	EA	14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,519.98	712.94
		For Class 52 Rating, Deduct	*-1,038.37*	
		For Class 54 Rating, Add	*1,428.93*	
		For Class 55 Rating, Add	*2,130.99*	
		For Class 56 Rating, Add	*2,823.62*	
40 05 19 00-0789	EA	14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,756.96	716.51
		For Class 52 Rating, Deduct	*-1,063.85*	
		For Class 54 Rating, Add	*1,463.73*	
		For Class 55 Rating, Add	*2,182.76*	
		For Class 56 Rating, Add	*2,892.13*	
40 05 19 00-0790	EA	14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,993.92	720.07
		For Class 52 Rating, Deduct	*-1,089.32*	
		For Class 54 Rating, Add	*1,498.53*	
		For Class 55 Rating, Add	*2,234.53*	
		For Class 56 Rating, Add	*2,960.63*	
40 05 19 00-0791	EA	14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,230.90	723.63
		For Class 52 Rating, Deduct	*-1,114.79*	
		For Class 54 Rating, Add	*1,533.33*	
		For Class 55 Rating, Add	*2,286.30*	
		For Class 56 Rating, Add	*3,029.14*	
40 05 19 00-0792	EA	14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,467.87	727.20
		For Class 52 Rating, Deduct	*-1,140.27*	
		For Class 54 Rating, Add	*1,568.13*	
		For Class 55 Rating, Add	*2,338.07*	
		For Class 56 Rating, Add	*3,097.65*	
40 05 19 00-0793	EA	14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,704.84	730.76
		For Class 52 Rating, Deduct	*-1,165.74*	
		For Class 54 Rating, Add	*1,602.93*	
		For Class 55 Rating, Add	*2,389.84*	
		For Class 56 Rating, Add	*3,166.16*	

40 05 19 00-0794 16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0795	EA	16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,438.57	684.43
		For Class 52 Rating, Deduct	*-264.17*	
		For Class 54 Rating, Add	*372.68*	
		For Class 55 Rating, Add	*560.44*	
		For Class 56 Rating, Add	*745.80*	
40 05 19 00-0796	EA	16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,714.57	687.99
		For Class 52 Rating, Deduct	*-293.94*	
		For Class 54 Rating, Add	*413.33*	
		For Class 55 Rating, Add	*620.91*	
		For Class 56 Rating, Add	*825.82*	
40 05 19 00-0797	EA	16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,990.58	691.55
		For Class 52 Rating, Deduct	*-323.70*	
		For Class 54 Rating, Add	*453.99*	
		For Class 55 Rating, Add	*681.39*	
		For Class 56 Rating, Add	*905.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0798	EA	16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,266.57	695.12
		For Class 52 Rating, Deduct	*-353.47*	
		For Class 54 Rating, Add	*494.64*	
		For Class 55 Rating, Add	*741.86*	
		For Class 56 Rating, Add	*985.86*	
40 05 19 00-0799	EA	16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,542.58	698.68
		For Class 52 Rating, Deduct	*-383.24*	
		For Class 54 Rating, Add	*535.30*	
		For Class 55 Rating, Add	*802.33*	
		For Class 56 Rating, Add	*1,065.88*	
40 05 19 00-0800	EA	16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,818.57	702.24
		For Class 52 Rating, Deduct	*-413.00*	
		For Class 54 Rating, Add	*575.95*	
		For Class 55 Rating, Add	*862.81*	
		For Class 56 Rating, Add	*1,145.90*	
40 05 19 00-0801	EA	16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,094.58	705.81
		For Class 52 Rating, Deduct	*-442.77*	
		For Class 54 Rating, Add	*616.61*	
		For Class 55 Rating, Add	*923.28*	
		For Class 56 Rating, Add	*1,225.92*	
40 05 19 00-0802	EA	16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,370.58	709.38
		For Class 52 Rating, Deduct	*-472.53*	
		For Class 54 Rating, Add	*657.26*	
		For Class 55 Rating, Add	*983.75*	
		For Class 56 Rating, Add	*1,305.95*	
40 05 19 00-0803	EA	16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,646.58	712.94
		For Class 52 Rating, Deduct	*-502.30*	
		For Class 54 Rating, Add	*697.92*	
		For Class 55 Rating, Add	*1,044.23*	
		For Class 56 Rating, Add	*1,385.97*	
40 05 19 00-0804	EA	16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,896.57	716.51
		For Class 52 Rating, Deduct	*-529.20*	
		For Class 54 Rating, Add	*734.67*	
		For Class 55 Rating, Add	*1,098.90*	
		For Class 56 Rating, Add	*1,458.31*	
40 05 19 00-0805	EA	16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,198.58	720.07
		For Class 52 Rating, Deduct	*-561.83*	
		For Class 54 Rating, Add	*779.23*	
		For Class 55 Rating, Add	*1,165.17*	
		For Class 56 Rating, Add	*1,546.01*	
40 05 19 00-0806	EA	16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,474.59	723.63
		For Class 52 Rating, Deduct	*-591.60*	
		For Class 54 Rating, Add	*819.88*	
		For Class 55 Rating, Add	*1,225.65*	
		For Class 56 Rating, Add	*1,626.03*	
40 05 19 00-0807	EA	16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,750.59	727.20
		For Class 52 Rating, Deduct	*-621.36*	
		For Class 54 Rating, Add	*860.54*	
		For Class 55 Rating, Add	*1,286.12*	
		For Class 56 Rating, Add	*1,706.05*	
40 05 19 00-0808	EA	16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,026.59	730.76
		For Class 52 Rating, Deduct	*-651.13*	
		For Class 54 Rating, Add	*901.19*	
		For Class 55 Rating, Add	*1,346.59*	
		For Class 56 Rating, Add	*1,786.07*	
40 05 19 00-0809	EA	16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,302.59	734.32
		For Class 52 Rating, Deduct	*-680.90*	
		For Class 54 Rating, Add	*941.85*	
		For Class 55 Rating, Add	*1,407.07*	
		For Class 56 Rating, Add	*1,866.10*	
40 05 19 00-0810	EA	16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,578.59	737.89
		For Class 52 Rating, Deduct	*-710.66*	
		For Class 54 Rating, Add	*982.50*	
		For Class 55 Rating, Add	*1,467.54*	
		For Class 56 Rating, Add	*1,946.12*	
40 05 19 00-0811	EA	16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,854.59	741.46
		For Class 52 Rating, Deduct	*-740.43*	
		For Class 54 Rating, Add	*1,023.16*	
		For Class 55 Rating, Add	*1,528.01*	
		For Class 56 Rating, Add	*2,026.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0812	EA	16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,130.59	745.02
		For Class 52 Rating, Deduct	*-770.19*	
		For Class 54 Rating, Add	*1,063.81*	
		For Class 55 Rating, Add	*1,588.49*	
		For Class 56 Rating, Add	*2,106.16*	
40 05 19 00-0813	EA	16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,406.59	748.59
		For Class 52 Rating, Deduct	*-799.96*	
		For Class 54 Rating, Add	*1,104.47*	
		For Class 55 Rating, Add	*1,648.96*	
		For Class 56 Rating, Add	*2,186.18*	
40 05 19 00-0814	EA	16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,682.60	752.15
		For Class 52 Rating, Deduct	*-829.73*	
		For Class 54 Rating, Add	*1,145.12*	
		For Class 55 Rating, Add	*1,709.43*	
		For Class 56 Rating, Add	*2,266.20*	
40 05 19 00-0815	EA	16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,958.59	755.71
		For Class 52 Rating, Deduct	*-859.49*	
		For Class 54 Rating, Add	*1,185.78*	
		For Class 55 Rating, Add	*1,769.91*	
		For Class 56 Rating, Add	*2,346.22*	
40 05 19 00-0816	EA	16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,234.60	759.28
		For Class 52 Rating, Deduct	*-889.26*	
		For Class 54 Rating, Add	*1,226.43*	
		For Class 55 Rating, Add	*1,830.38*	
		For Class 56 Rating, Add	*2,426.25*	
40 05 19 00-0817	EA	16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,510.59	762.84
		For Class 52 Rating, Deduct	*-919.02*	
		For Class 54 Rating, Add	*1,267.09*	
		For Class 55 Rating, Add	*1,890.85*	
		For Class 56 Rating, Add	*2,506.27*	
40 05 19 00-0818	EA	16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,786.59	766.41
		For Class 52 Rating, Deduct	*-948.79*	
		For Class 54 Rating, Add	*1,307.74*	
		For Class 55 Rating, Add	*1,951.32*	
		For Class 56 Rating, Add	*2,586.29*	
40 05 19 00-0819	EA	16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,062.59	769.98
		For Class 52 Rating, Deduct	*-978.56*	
		For Class 54 Rating, Add	*1,348.39*	
		For Class 55 Rating, Add	*2,011.80*	
		For Class 56 Rating, Add	*2,666.31*	
40 05 19 00-0820	EA	16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,338.59	773.54
		For Class 52 Rating, Deduct	*-1,008.32*	
		For Class 54 Rating, Add	*1,389.05*	
		For Class 55 Rating, Add	*2,072.27*	
		For Class 56 Rating, Add	*2,746.33*	
40 05 19 00-0821	EA	16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,614.59	777.11
		For Class 52 Rating, Deduct	*-1,038.09*	
		For Class 54 Rating, Add	*1,429.70*	
		For Class 55 Rating, Add	*2,132.75*	
		For Class 56 Rating, Add	*2,826.35*	
40 05 19 00-0822	EA	16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,890.59	780.67
		For Class 52 Rating, Deduct	*-1,067.85*	
		For Class 54 Rating, Add	*1,470.36*	
		For Class 55 Rating, Add	*2,193.22*	
		For Class 56 Rating, Add	*2,906.37*	
40 05 19 00-0823	EA	16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,166.59	784.23
		For Class 52 Rating, Deduct	*-1,097.62*	
		For Class 54 Rating, Add	*1,511.01*	
		For Class 55 Rating, Add	*2,253.69*	
		For Class 56 Rating, Add	*2,986.39*	
40 05 19 00-0824	EA	16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,442.59	787.80
		For Class 52 Rating, Deduct	*-1,127.39*	
		For Class 54 Rating, Add	*1,551.67*	
		For Class 55 Rating, Add	*2,314.17*	
		For Class 56 Rating, Add	*3,066.41*	
40 05 19 00-0825	EA	16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,718.59	791.36
		For Class 52 Rating, Deduct	*-1,157.15*	
		For Class 54 Rating, Add	*1,592.32*	
		For Class 55 Rating, Add	*2,374.64*	
		For Class 56 Rating, Add	*3,146.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0826	EA	16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,994.60	794.92
		For Class 52 Rating, Deduct	*-1,186.92*	
		For Class 54 Rating, Add	*1,632.98*	
		For Class 55 Rating, Add	*2,435.11*	
		For Class 56 Rating, Add	*3,226.46*	
40 05 19 00-0827	EA	16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,270.59	798.50
		For Class 52 Rating, Deduct	*-1,216.68*	
		For Class 54 Rating, Add	*1,673.63*	
		For Class 55 Rating, Add	*2,495.59*	
		For Class 56 Rating, Add	*3,306.48*	
40 05 19 00-0828	EA	16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,546.60	802.06
		For Class 52 Rating, Deduct	*-1,246.45*	
		For Class 54 Rating, Add	*1,714.29*	
		For Class 55 Rating, Add	*2,556.06*	
		For Class 56 Rating, Add	*3,386.50*	
40 05 19 00-0829	EA	16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,822.60	805.62
		For Class 52 Rating, Deduct	*-1,276.22*	
		For Class 54 Rating, Add	*1,754.94*	
		For Class 55 Rating, Add	*2,616.53*	
		For Class 56 Rating, Add	*3,466.52*	
40 05 19 00-0830	EA	16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,098.60	809.19
		For Class 52 Rating, Deduct	*-1,305.98*	
		For Class 54 Rating, Add	*1,795.60*	
		For Class 55 Rating, Add	*2,677.01*	
		For Class 56 Rating, Add	*3,546.54*	
40 05 19 00-0831	EA	16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,374.61	812.75
		For Class 52 Rating, Deduct	*-1,335.75*	
		For Class 54 Rating, Add	*1,836.25*	
		For Class 55 Rating, Add	*2,737.48*	
		For Class 56 Rating, Add	*3,626.56*	
40 05 19 00-0832	EA	16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,650.60	816.31
		For Class 52 Rating, Deduct	*-1,365.51*	
		For Class 54 Rating, Add	*1,876.91*	
		For Class 55 Rating, Add	*2,797.95*	
		For Class 56 Rating, Add	*3,706.59*	

40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0834	EA	18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,017.89	771.41
		For Class 52 Rating, Deduct	*-313.40*	
		For Class 54 Rating, Add	*441.39*	
		For Class 55 Rating, Add	*663.40*	
		For Class 56 Rating, Add	*882.56*	
40 05 19 00-0835	EA	18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,335.52	774.97
		For Class 52 Rating, Deduct	*-347.75*	
		For Class 54 Rating, Add	*488.29*	
		For Class 55 Rating, Add	*733.16*	
		For Class 56 Rating, Add	*974.86*	
40 05 19 00-0836	EA	18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,653.15	778.54
		For Class 52 Rating, Deduct	*-382.09*	
		For Class 54 Rating, Add	*535.19*	
		For Class 55 Rating, Add	*802.91*	
		For Class 56 Rating, Add	*1,067.17*	
40 05 19 00-0837	EA	18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,970.78	782.10
		For Class 52 Rating, Deduct	*-416.44*	
		For Class 54 Rating, Add	*582.09*	
		For Class 55 Rating, Add	*872.67*	
		For Class 56 Rating, Add	*1,159.47*	
40 05 19 00-0838	EA	18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,288.42	785.66
		For Class 52 Rating, Deduct	*-450.78*	
		For Class 54 Rating, Add	*628.99*	
		For Class 55 Rating, Add	*942.43*	
		For Class 56 Rating, Add	*1,251.77*	
40 05 19 00-0839	EA	18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,606.04	789.23
		For Class 52 Rating, Deduct	*-485.13*	
		For Class 54 Rating, Add	*675.89*	
		For Class 55 Rating, Add	*1,012.18*	
		For Class 56 Rating, Add	*1,344.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0840	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,923.68	792.79
		For Class 52 Rating, Deduct	*-519.47*	
		For Class 54 Rating, Add	*722.79*	
		For Class 55 Rating, Add	*1,081.94*	
		For Class 56 Rating, Add	*1,436.37*	
40 05 19 00-0841	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,241.31	796.36
		For Class 52 Rating, Deduct	*-553.82*	
		For Class 54 Rating, Add	*769.69*	
		For Class 55 Rating, Add	*1,151.70*	
		For Class 56 Rating, Add	*1,528.68*	
40 05 19 00-0842	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,558.95	799.93
		For Class 52 Rating, Deduct	*-588.16*	
		For Class 54 Rating, Add	*816.59*	
		For Class 55 Rating, Add	*1,221.46*	
		For Class 56 Rating, Add	*1,620.98*	
40 05 19 00-0843	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,876.57	803.49
		For Class 52 Rating, Deduct	*-622.51*	
		For Class 54 Rating, Add	*863.49*	
		For Class 55 Rating, Add	*1,291.21*	
		For Class 56 Rating, Add	*1,713.28*	
40 05 19 00-0844	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,194.21	807.05
		For Class 52 Rating, Deduct	*-656.86*	
		For Class 54 Rating, Add	*910.39*	
		For Class 55 Rating, Add	*1,360.97*	
		For Class 56 Rating, Add	*1,805.59*	
40 05 19 00-0845	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,511.84	810.62
		For Class 52 Rating, Deduct	*-691.20*	
		For Class 54 Rating, Add	*957.28*	
		For Class 55 Rating, Add	*1,430.73*	
		For Class 56 Rating, Add	*1,897.89*	
40 05 19 00-0846	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,829.47	814.18
		For Class 52 Rating, Deduct	*-725.55*	
		For Class 54 Rating, Add	*1,004.18*	
		For Class 55 Rating, Add	*1,500.49*	
		For Class 56 Rating, Add	*1,990.19*	
40 05 19 00-0847	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,147.10	817.74
		For Class 52 Rating, Deduct	*-759.89*	
		For Class 54 Rating, Add	*1,051.08*	
		For Class 55 Rating, Add	*1,570.24*	
		For Class 56 Rating, Add	*2,082.49*	
40 05 19 00-0848	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,464.73	821.31
		For Class 52 Rating, Deduct	*-794.24*	
		For Class 54 Rating, Add	*1,097.98*	
		For Class 55 Rating, Add	*1,640.00*	
		For Class 56 Rating, Add	*2,174.80*	
40 05 19 00-0849	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,782.37	824.88
		For Class 52 Rating, Deduct	*-828.58*	
		For Class 54 Rating, Add	*1,144.88*	
		For Class 55 Rating, Add	*1,709.76*	
		For Class 56 Rating, Add	*2,267.10*	
40 05 19 00-0850	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,100.00	828.44
		For Class 52 Rating, Deduct	*-862.93*	
		For Class 54 Rating, Add	*1,191.78*	
		For Class 55 Rating, Add	*1,779.51*	
		For Class 56 Rating, Add	*2,359.40*	
40 05 19 00-0851	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,417.63	832.01
		For Class 52 Rating, Deduct	*-897.27*	
		For Class 54 Rating, Add	*1,238.68*	
		For Class 55 Rating, Add	*1,849.27*	
		For Class 56 Rating, Add	*2,451.70*	
40 05 19 00-0852	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,735.26	835.57
		For Class 52 Rating, Deduct	*-931.62*	
		For Class 54 Rating, Add	*1,285.58*	
		For Class 55 Rating, Add	*1,919.03*	
		For Class 56 Rating, Add	*2,544.01*	
40 05 19 00-0853	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,052.89	839.13
		For Class 52 Rating, Deduct	*-965.96*	
		For Class 54 Rating, Add	*1,332.48*	
		For Class 55 Rating, Add	*1,988.78*	
		For Class 56 Rating, Add	*2,636.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0854	EA	18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,370.52	842.70
		For Class 52 Rating, Deduct	*-1,000.31*	
		For Class 54 Rating, Add	*1,379.38*	
		For Class 55 Rating, Add	*2,058.54*	
		For Class 56 Rating, Add	*2,728.61*	
40 05 19 00-0855	EA	18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,688.15	846.26
		For Class 52 Rating, Deduct	*-1,034.65*	
		For Class 54 Rating, Add	*1,426.28*	
		For Class 55 Rating, Add	*2,128.30*	
		For Class 56 Rating, Add	*2,820.91*	
40 05 19 00-0856	EA	18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,005.78	849.82
		For Class 52 Rating, Deduct	*-1,069.00*	
		For Class 54 Rating, Add	*1,473.18*	
		For Class 55 Rating, Add	*2,198.05*	
		For Class 56 Rating, Add	*2,913.21*	
40 05 19 00-0857	EA	18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,323.42	853.40
		For Class 52 Rating, Deduct	*-1,103.34*	
		For Class 54 Rating, Add	*1,520.08*	
		For Class 55 Rating, Add	*2,267.81*	
		For Class 56 Rating, Add	*3,005.52*	
40 05 19 00-0858	EA	18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,641.04	856.96
		For Class 52 Rating, Deduct	*-1,137.69*	
		For Class 54 Rating, Add	*1,566.98*	
		For Class 55 Rating, Add	*2,337.57*	
		For Class 56 Rating, Add	*3,097.82*	
40 05 19 00-0859	EA	18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,958.68	860.53
		For Class 52 Rating, Deduct	*-1,172.03*	
		For Class 54 Rating, Add	*1,613.87*	
		For Class 55 Rating, Add	*2,407.33*	
		For Class 56 Rating, Add	*3,190.12*	
40 05 19 00-0860	EA	18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,276.30	864.09
		For Class 52 Rating, Deduct	*-1,206.38*	
		For Class 54 Rating, Add	*1,660.77*	
		For Class 55 Rating, Add	*2,477.08*	
		For Class 56 Rating, Add	*3,282.42*	
40 05 19 00-0861	EA	18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,593.94	867.65
		For Class 52 Rating, Deduct	*-1,240.73*	
		For Class 54 Rating, Add	*1,707.67*	
		For Class 55 Rating, Add	*2,546.84*	
		For Class 56 Rating, Add	*3,374.73*	
40 05 19 00-0862	EA	18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,911.57	871.22
		For Class 52 Rating, Deduct	*-1,275.07*	
		For Class 54 Rating, Add	*1,754.57*	
		For Class 55 Rating, Add	*2,616.60*	
		For Class 56 Rating, Add	*3,467.03*	
40 05 19 00-0863	EA	18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,229.20	874.78
		For Class 52 Rating, Deduct	*-1,309.42*	
		For Class 54 Rating, Add	*1,801.47*	
		For Class 55 Rating, Add	*2,686.35*	
		For Class 56 Rating, Add	*3,559.33*	
40 05 19 00-0864	EA	18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,546.83	878.34
		For Class 52 Rating, Deduct	*-1,343.76*	
		For Class 54 Rating, Add	*1,848.37*	
		For Class 55 Rating, Add	*2,756.11*	
		For Class 56 Rating, Add	*3,651.63*	
40 05 19 00-0865	EA	18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,864.46	881.92
		For Class 52 Rating, Deduct	*-1,378.11*	
		For Class 54 Rating, Add	*1,895.27*	
		For Class 55 Rating, Add	*2,825.87*	
		For Class 56 Rating, Add	*3,743.93*	
40 05 19 00-0866	EA	18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,182.10	885.48
		For Class 52 Rating, Deduct	*-1,412.45*	
		For Class 54 Rating, Add	*1,942.17*	
		For Class 55 Rating, Add	*2,895.63*	
		For Class 56 Rating, Add	*3,836.24*	
40 05 19 00-0867	EA	18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,499.73	889.04
		For Class 52 Rating, Deduct	*-1,446.80*	
		For Class 54 Rating, Add	*1,989.07*	
		For Class 55 Rating, Add	*2,965.38*	
		For Class 56 Rating, Add	*3,928.54*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0868	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,817.36	892.61
		For Class 52 Rating, Deduct	*-1,481.14*	
		For Class 54 Rating, Add	*2,035.97*	
		For Class 55 Rating, Add	*3,035.14*	
		For Class 56 Rating, Add	*4,020.84*	
40 05 19 00-0869	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,135.00	896.17
		For Class 52 Rating, Deduct	*-1,515.49*	
		For Class 54 Rating, Add	*2,082.87*	
		For Class 55 Rating, Add	*3,104.90*	
		For Class 56 Rating, Add	*4,113.15*	
40 05 19 00-0870	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,452.62	899.73
		For Class 52 Rating, Deduct	*-1,549.83*	
		For Class 54 Rating, Add	*2,129.77*	
		For Class 55 Rating, Add	*3,174.65*	
		For Class 56 Rating, Add	*4,205.45*	
40 05 19 00-0871	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,770.26	903.30
		For Class 52 Rating, Deduct	*-1,584.18*	
		For Class 54 Rating, Add	*2,176.67*	
		For Class 55 Rating, Add	*3,244.41*	
		For Class 56 Rating, Add	*4,297.75*	

40 05 19 00-0872 20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0873	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,661.92	880.48
		For Class 52 Rating, Deduct	*-366.06*	
		For Class 54 Rating, Add	*515.19*	
		For Class 55 Rating, Add	*774.13*	
		For Class 56 Rating, Add	*1,029.74*	
40 05 19 00-0874	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,026.38	884.05
		For Class 52 Rating, Deduct	*-405.56*	
		For Class 54 Rating, Add	*569.11*	
		For Class 55 Rating, Add	*854.33*	
		For Class 56 Rating, Add	*1,135.86*	
40 05 19 00-0875	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,390.85	887.61
		For Class 52 Rating, Deduct	*-445.06*	
		For Class 54 Rating, Add	*623.04*	
		For Class 55 Rating, Add	*934.53*	
		For Class 56 Rating, Add	*1,241.98*	
40 05 19 00-0876	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,755.31	891.18
		For Class 52 Rating, Deduct	*-484.56*	
		For Class 54 Rating, Add	*676.96*	
		For Class 55 Rating, Add	*1,014.73*	
		For Class 56 Rating, Add	*1,348.10*	
40 05 19 00-0877	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,119.79	894.74
		For Class 52 Rating, Deduct	*-524.05*	
		For Class 54 Rating, Add	*730.89*	
		For Class 55 Rating, Add	*1,094.93*	
		For Class 56 Rating, Add	*1,454.22*	
40 05 19 00-0878	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,484.25	898.30
		For Class 52 Rating, Deduct	*-563.55*	
		For Class 54 Rating, Add	*784.81*	
		For Class 55 Rating, Add	*1,175.13*	
		For Class 56 Rating, Add	*1,560.34*	
40 05 19 00-0879	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,848.72	901.87
		For Class 52 Rating, Deduct	*-603.05*	
		For Class 54 Rating, Add	*838.74*	
		For Class 55 Rating, Add	*1,255.34*	
		For Class 56 Rating, Add	*1,666.46*	
40 05 19 00-0880	EA	20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,213.18	905.43
		For Class 52 Rating, Deduct	*-642.54*	
		For Class 54 Rating, Add	*892.66*	
		For Class 55 Rating, Add	*1,335.54*	
		For Class 56 Rating, Add	*1,772.57*	
40 05 19 00-0881	EA	20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,577.65	908.99
		For Class 52 Rating, Deduct	*-682.04*	
		For Class 54 Rating, Add	*946.58*	
		For Class 55 Rating, Add	*1,415.74*	
		For Class 56 Rating, Add	*1,878.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0882	EA	20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,942.11	912.57
		For Class 52 Rating, Deduct	*-721.54*	
		For Class 54 Rating, Add	*1,000.51*	
		For Class 55 Rating, Add	*1,495.94*	
		For Class 56 Rating, Add	*1,984.81*	
40 05 19 00-0883	EA	20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,306.59	916.13
		For Class 52 Rating, Deduct	*-761.04*	
		For Class 54 Rating, Add	*1,054.43*	
		For Class 55 Rating, Add	*1,576.14*	
		For Class 56 Rating, Add	*2,090.93*	
40 05 19 00-0884	EA	20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,671.04	919.69
		For Class 52 Rating, Deduct	*-800.53*	
		For Class 54 Rating, Add	*1,108.36*	
		For Class 55 Rating, Add	*1,656.34*	
		For Class 56 Rating, Add	*2,197.05*	
40 05 19 00-0885	EA	20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,035.52	923.26
		For Class 52 Rating, Deduct	*-840.03*	
		For Class 54 Rating, Add	*1,162.28*	
		For Class 55 Rating, Add	*1,736.54*	
		For Class 56 Rating, Add	*2,303.17*	
40 05 19 00-0886	EA	20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,399.97	926.82
		For Class 52 Rating, Deduct	*-879.53*	
		For Class 54 Rating, Add	*1,216.21*	
		For Class 55 Rating, Add	*1,816.74*	
		For Class 56 Rating, Add	*2,409.29*	
40 05 19 00-0887	EA	20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,764.45	930.38
		For Class 52 Rating, Deduct	*-919.02*	
		For Class 54 Rating, Add	*1,270.13*	
		For Class 55 Rating, Add	*1,896.95*	
		For Class 56 Rating, Add	*2,515.41*	
40 05 19 00-0888	EA	20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,128.90	933.95
		For Class 52 Rating, Deduct	*-958.52*	
		For Class 54 Rating, Add	*1,324.06*	
		For Class 55 Rating, Add	*1,977.15*	
		For Class 56 Rating, Add	*2,621.52*	
40 05 19 00-0889	EA	20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,493.38	937.51
		For Class 52 Rating, Deduct	*-998.02*	
		For Class 54 Rating, Add	*1,377.98*	
		For Class 55 Rating, Add	*2,057.35*	
		For Class 56 Rating, Add	*2,727.64*	
40 05 19 00-0890	EA	20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,857.84	941.09
		For Class 52 Rating, Deduct	*-1,037.52*	
		For Class 54 Rating, Add	*1,431.90*	
		For Class 55 Rating, Add	*2,137.55*	
		For Class 56 Rating, Add	*2,833.76*	
40 05 19 00-0891	EA	20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,222.30	944.65
		For Class 52 Rating, Deduct	*-1,077.01*	
		For Class 54 Rating, Add	*1,485.83*	
		For Class 55 Rating, Add	*2,217.75*	
		For Class 56 Rating, Add	*2,939.88*	
40 05 19 00-0892	EA	20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,586.77	948.21
		For Class 52 Rating, Deduct	*-1,116.51*	
		For Class 54 Rating, Add	*1,539.75*	
		For Class 55 Rating, Add	*2,297.95*	
		For Class 56 Rating, Add	*3,046.00*	
40 05 19 00-0893	EA	20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,951.23	951.78
		For Class 52 Rating, Deduct	*-1,156.01*	
		For Class 54 Rating, Add	*1,593.68*	
		For Class 55 Rating, Add	*2,378.15*	
		For Class 56 Rating, Add	*3,152.11*	
40 05 19 00-0894	EA	20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,315.70	955.34
		For Class 52 Rating, Deduct	*-1,195.50*	
		For Class 54 Rating, Add	*1,647.60*	
		For Class 55 Rating, Add	*2,458.35*	
		For Class 56 Rating, Add	*3,258.23*	
40 05 19 00-0895	EA	20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,680.17	958.90
		For Class 52 Rating, Deduct	*-1,235.00*	
		For Class 54 Rating, Add	*1,701.53*	
		For Class 55 Rating, Add	*2,538.55*	
		For Class 56 Rating, Add	*3,364.35*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0896	EA	20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,044.63	962.47
		For Class 52 Rating, Deduct	*-1,274.50*	
		For Class 54 Rating, Add	*1,755.45*	
		For Class 55 Rating, Add	*2,618.75*	
		For Class 56 Rating, Add	*3,470.47*	
40 05 19 00-0897	EA	20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,409.10	966.03
		For Class 52 Rating, Deduct	*-1,314.00*	
		For Class 54 Rating, Add	*1,809.38*	
		For Class 55 Rating, Add	*2,698.95*	
		For Class 56 Rating, Add	*3,576.59*	
40 05 19 00-0898	EA	20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,773.56	969.60
		For Class 52 Rating, Deduct	*-1,353.49*	
		For Class 54 Rating, Add	*1,863.30*	
		For Class 55 Rating, Add	*2,779.16*	
		For Class 56 Rating, Add	*3,682.71*	
40 05 19 00-0899	EA	20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,138.03	973.17
		For Class 52 Rating, Deduct	*-1,392.99*	
		For Class 54 Rating, Add	*1,917.22*	
		For Class 55 Rating, Add	*2,859.36*	
		For Class 56 Rating, Add	*3,788.83*	
40 05 19 00-0900	EA	20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,502.50	976.73
		For Class 52 Rating, Deduct	*-1,432.49*	
		For Class 54 Rating, Add	*1,971.15*	
		For Class 55 Rating, Add	*2,939.56*	
		For Class 56 Rating, Add	*3,894.95*	
40 05 19 00-0901	EA	20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,866.96	980.29
		For Class 52 Rating, Deduct	*-1,471.98*	
		For Class 54 Rating, Add	*2,025.07*	
		For Class 55 Rating, Add	*3,019.76*	
		For Class 56 Rating, Add	*4,001.06*	
40 05 19 00-0902	EA	20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,231.44	983.86
		For Class 52 Rating, Deduct	*-1,511.48*	
		For Class 54 Rating, Add	*2,079.00*	
		For Class 55 Rating, Add	*3,099.96*	
		For Class 56 Rating, Add	*4,107.18*	
40 05 19 00-0903	EA	20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,595.89	987.42
		For Class 52 Rating, Deduct	*-1,550.98*	
		For Class 54 Rating, Add	*2,132.92*	
		For Class 55 Rating, Add	*3,180.16*	
		For Class 56 Rating, Add	*4,213.30*	
40 05 19 00-0904	EA	20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,960.37	990.98
		For Class 52 Rating, Deduct	*-1,590.48*	
		For Class 54 Rating, Add	*2,186.85*	
		For Class 55 Rating, Add	*3,260.36*	
		For Class 56 Rating, Add	*4,319.42*	
40 05 19 00-0905	EA	20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,324.82	994.55
		For Class 52 Rating, Deduct	*-1,629.97*	
		For Class 54 Rating, Add	*2,240.77*	
		For Class 55 Rating, Add	*3,340.56*	
		For Class 56 Rating, Add	*4,425.54*	
40 05 19 00-0906	EA	20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,689.30	998.11
		For Class 52 Rating, Deduct	*-1,669.47*	
		For Class 54 Rating, Add	*2,294.70*	
		For Class 55 Rating, Add	*3,420.77*	
		For Class 56 Rating, Add	*4,531.66*	
40 05 19 00-0907	EA	20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,053.76	1,001.68
		For Class 52 Rating, Deduct	*-1,708.97*	
		For Class 54 Rating, Add	*2,348.62*	
		For Class 55 Rating, Add	*3,500.97*	
		For Class 56 Rating, Add	*4,637.77*	
40 05 19 00-0908	EA	20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,418.23	1,005.25
		For Class 52 Rating, Deduct	*-1,748.46*	
		For Class 54 Rating, Add	*2,402.55*	
		For Class 55 Rating, Add	*3,581.17*	
		For Class 56 Rating, Add	*4,743.89*	
40 05 19 00-0909	EA	20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,782.69	1,008.81
		For Class 52 Rating, Deduct	*-1,787.96*	
		For Class 54 Rating, Add	*2,456.47*	
		For Class 55 Rating, Add	*3,661.37*	
		For Class 56 Rating, Add	*4,850.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0910	EA	20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,147.16	1,012.37
		For Class 52 Rating, Deduct	*-1,827.46*	
		For Class 54 Rating, Add	*2,510.40*	
		For Class 55 Rating, Add	*3,741.57*	
		For Class 56 Rating, Add	*4,956.13*	

40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0912	EA	24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,781.81	1,040.89
		For Class 52 Rating, Deduct	*-462.52*	
		For Class 54 Rating, Add	*649.63*	
		For Class 55 Rating, Add	*975.50*	
		For Class 56 Rating, Add	*1,297.16*	
40 05 19 00-0913	EA	24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,232.14	1,044.46
		For Class 52 Rating, Deduct	*-511.46*	
		For Class 54 Rating, Add	*716.43*	
		For Class 55 Rating, Add	*1,074.85*	
		For Class 56 Rating, Add	*1,428.61*	
40 05 19 00-0914	EA	24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,682.47	1,048.02
		For Class 52 Rating, Deduct	*-560.40*	
		For Class 54 Rating, Add	*783.24*	
		For Class 55 Rating, Add	*1,174.20*	
		For Class 56 Rating, Add	*1,560.06*	
40 05 19 00-0915	EA	24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,132.80	1,051.58
		For Class 52 Rating, Deduct	*-609.34*	
		For Class 54 Rating, Add	*850.04*	
		For Class 55 Rating, Add	*1,273.55*	
		For Class 56 Rating, Add	*1,691.51*	
40 05 19 00-0916	EA	24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,583.13	1,055.15
		For Class 52 Rating, Deduct	*-658.29*	
		For Class 54 Rating, Add	*916.85*	
		For Class 55 Rating, Add	*1,372.89*	
		For Class 56 Rating, Add	*1,822.96*	
40 05 19 00-0917	EA	24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,033.45	1,058.72
		For Class 52 Rating, Deduct	*-707.23*	
		For Class 54 Rating, Add	*983.65*	
		For Class 55 Rating, Add	*1,472.24*	
		For Class 56 Rating, Add	*1,954.40*	
40 05 19 00-0918	EA	24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,483.79	1,062.28
		For Class 52 Rating, Deduct	*-756.17*	
		For Class 54 Rating, Add	*1,050.45*	
		For Class 55 Rating, Add	*1,571.59*	
		For Class 56 Rating, Add	*2,085.85*	
40 05 19 00-0919	EA	24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,934.11	1,065.85
		For Class 52 Rating, Deduct	*-805.11*	
		For Class 54 Rating, Add	*1,117.26*	
		For Class 55 Rating, Add	*1,670.94*	
		For Class 56 Rating, Add	*2,217.30*	
40 05 19 00-0920	EA	24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,384.45	1,069.41
		For Class 52 Rating, Deduct	*-854.05*	
		For Class 54 Rating, Add	*1,184.06*	
		For Class 55 Rating, Add	*1,770.29*	
		For Class 56 Rating, Add	*2,348.75*	
40 05 19 00-0921	EA	24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,834.78	1,072.97
		For Class 52 Rating, Deduct	*-903.00*	
		For Class 54 Rating, Add	*1,250.87*	
		For Class 55 Rating, Add	*1,869.64*	
		For Class 56 Rating, Add	*2,480.20*	
40 05 19 00-0922	EA	24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,285.11	1,076.54
		For Class 52 Rating, Deduct	*-951.94*	
		For Class 54 Rating, Add	*1,317.67*	
		For Class 55 Rating, Add	*1,968.99*	
		For Class 56 Rating, Add	*2,611.65*	
40 05 19 00-0923	EA	24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,735.44	1,080.10
		For Class 52 Rating, Deduct	*-1,000.88*	
		For Class 54 Rating, Add	*1,384.47*	
		For Class 55 Rating, Add	*2,068.33*	
		For Class 56 Rating, Add	*2,743.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0924	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,185.76	1,083.66
		For Class 52 Rating, Deduct	*-1,049.82*	
		For Class 54 Rating, Add	*1,451.28*	
		For Class 55 Rating, Add	*2,167.68*	
		For Class 56 Rating, Add	*2,874.54*	
40 05 19 00-0925	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,636.10	1,087.24
		For Class 52 Rating, Deduct	*-1,098.76*	
		For Class 54 Rating, Add	*1,518.08*	
		For Class 55 Rating, Add	*2,267.03*	
		For Class 56 Rating, Add	*3,005.99*	
40 05 19 00-0926	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,086.42	1,090.80
		For Class 52 Rating, Deduct	*-1,147.71*	
		For Class 54 Rating, Add	*1,584.89*	
		For Class 55 Rating, Add	*2,366.38*	
		For Class 56 Rating, Add	*3,137.44*	
40 05 19 00-0927	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,536.76	1,094.36
		For Class 52 Rating, Deduct	*-1,196.65*	
		For Class 54 Rating, Add	*1,651.69*	
		For Class 55 Rating, Add	*2,465.73*	
		For Class 56 Rating, Add	*3,268.89*	
40 05 19 00-0928	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,987.08	1,097.93
		For Class 52 Rating, Deduct	*-1,245.59*	
		For Class 54 Rating, Add	*1,718.50*	
		For Class 55 Rating, Add	*2,565.08*	
		For Class 56 Rating, Add	*3,400.34*	
40 05 19 00-0929	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,437.41	1,101.49
		For Class 52 Rating, Deduct	*-1,294.53*	
		For Class 54 Rating, Add	*1,785.30*	
		For Class 55 Rating, Add	*2,664.43*	
		For Class 56 Rating, Add	*3,531.78*	
40 05 19 00-0930	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,887.74	1,105.05
		For Class 52 Rating, Deduct	*-1,343.48*	
		For Class 54 Rating, Add	*1,852.10*	
		For Class 55 Rating, Add	*2,763.77*	
		For Class 56 Rating, Add	*3,663.23*	
40 05 19 00-0931	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,338.07	1,108.62
		For Class 52 Rating, Deduct	*-1,392.42*	
		For Class 54 Rating, Add	*1,918.91*	
		For Class 55 Rating, Add	*2,863.12*	
		For Class 56 Rating, Add	*3,794.68*	
40 05 19 00-0932	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,788.40	1,112.18
		For Class 52 Rating, Deduct	*-1,441.36*	
		For Class 54 Rating, Add	*1,985.71*	
		For Class 55 Rating, Add	*2,962.47*	
		For Class 56 Rating, Add	*3,926.13*	
40 05 19 00-0933	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,238.73	1,115.75
		For Class 52 Rating, Deduct	*-1,490.30*	
		For Class 54 Rating, Add	*2,052.52*	
		For Class 55 Rating, Add	*3,061.82*	
		For Class 56 Rating, Add	*4,057.58*	
40 05 19 00-0934	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,689.06	1,119.32
		For Class 52 Rating, Deduct	*-1,539.24*	
		For Class 54 Rating, Add	*2,119.32*	
		For Class 55 Rating, Add	*3,161.17*	
		For Class 56 Rating, Add	*4,189.03*	
40 05 19 00-0935	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,139.39	1,122.88
		For Class 52 Rating, Deduct	*-1,588.19*	
		For Class 54 Rating, Add	*2,186.12*	
		For Class 55 Rating, Add	*3,260.52*	
		For Class 56 Rating, Add	*4,320.47*	
40 05 19 00-0936	EA	24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,589.71	1,126.45
		For Class 52 Rating, Deduct	*-1,637.13*	
		For Class 54 Rating, Add	*2,252.93*	
		For Class 55 Rating, Add	*3,359.87*	
		For Class 56 Rating, Add	*4,451.92*	
40 05 19 00-0937	EA	24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,040.05	1,130.01
		For Class 52 Rating, Deduct	*-1,686.07*	
		For Class 54 Rating, Add	*2,319.73*	
		For Class 55 Rating, Add	*3,459.22*	
		For Class 56 Rating, Add	*4,583.37*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938	EA	24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,490.37	1,133.57
		For Class 52 Rating, Deduct	*-1,735.01*	
		For Class 54 Rating, Add	*2,386.54*	
		For Class 55 Rating, Add	*3,558.56*	
		For Class 56 Rating, Add	*4,714.82*	
40 05 19 00-0939	EA	24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,940.71	1,137.14
		For Class 52 Rating, Deduct	*-1,783.95*	
		For Class 54 Rating, Add	*2,453.34*	
		For Class 55 Rating, Add	*3,657.91*	
		For Class 56 Rating, Add	*4,846.27*	
40 05 19 00-0940	EA	24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,391.03	1,140.70
		For Class 52 Rating, Deduct	*-1,832.90*	
		For Class 54 Rating, Add	*2,520.14*	
		For Class 55 Rating, Add	*3,757.26*	
		For Class 56 Rating, Add	*4,977.72*	
40 05 19 00-0941	EA	24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,933.18	1,204.87
		For Class 52 Rating, Deduct	*-1,881.84*	
		For Class 54 Rating, Add	*2,588.05*	
		For Class 55 Rating, Add	*3,858.81*	
		For Class 56 Rating, Add	*5,112.47*	
40 05 19 00-0942	EA	24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,383.51	1,208.44
		For Class 52 Rating, Deduct	*-1,930.78*	
		For Class 54 Rating, Add	*2,654.85*	
		For Class 55 Rating, Add	*3,958.16*	
		For Class 56 Rating, Add	*5,243.92*	
40 05 19 00-0943	EA	24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,833.84	1,212.00
		For Class 52 Rating, Deduct	*-1,979.72*	
		For Class 54 Rating, Add	*2,721.66*	
		For Class 55 Rating, Add	*4,057.51*	
		For Class 56 Rating, Add	*5,375.37*	
40 05 19 00-0944	EA	24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,284.17	1,215.56
		For Class 52 Rating, Deduct	*-2,028.67*	
		For Class 54 Rating, Add	*2,788.46*	
		For Class 55 Rating, Add	*4,156.86*	
		For Class 56 Rating, Add	*5,506.81*	
40 05 19 00-0945	EA	24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,734.50	1,219.13
		For Class 52 Rating, Deduct	*-2,077.61*	
		For Class 54 Rating, Add	*2,855.27*	
		For Class 55 Rating, Add	*4,256.21*	
		For Class 56 Rating, Add	*5,638.26*	
40 05 19 00-0946	EA	24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,184.83	1,222.69
		For Class 52 Rating, Deduct	*-2,126.55*	
		For Class 54 Rating, Add	*2,922.07*	
		For Class 55 Rating, Add	*4,355.56*	
		For Class 56 Rating, Add	*5,769.71*	
40 05 19 00-0947	EA	24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,635.16	1,226.25
		For Class 52 Rating, Deduct	*-2,175.49*	
		For Class 54 Rating, Add	*2,988.87*	
		For Class 55 Rating, Add	*4,454.90*	
		For Class 56 Rating, Add	*5,901.16*	
40 05 19 00-0948	EA	24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,085.48	1,229.83
		For Class 52 Rating, Deduct	*-2,224.43*	
		For Class 54 Rating, Add	*3,055.68*	
		For Class 55 Rating, Add	*4,554.25*	
		For Class 56 Rating, Add	*6,032.61*	
40 05 19 00-0949	EA	24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,535.82	1,233.39
		For Class 52 Rating, Deduct	*-2,273.38*	
		For Class 54 Rating, Add	*3,122.48*	
		For Class 55 Rating, Add	*4,653.60*	
		For Class 56 Rating, Add	*6,164.06*	

40 05 19 00-0950 30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0951	EA	30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,938.18	1,468.66
		For Class 52 Rating, Deduct	*-738.42*	
		For Class 54 Rating, Add	*1,033.65*	
		For Class 55 Rating, Add	*1,550.39*	
		For Class 56 Rating, Add	*2,060.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0952	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,586.27	1,472.22
		For Class 52 Rating, Deduct	*-809.12*	
		For Class 54 Rating, Add	*1,130.11*	
		For Class 55 Rating, Add	*1,693.84*	
		For Class 56 Rating, Add	*2,250.21*	
40 05 19 00-0953	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,234.34	1,475.79
		For Class 52 Rating, Deduct	*-879.81*	
		For Class 54 Rating, Add	*1,226.58*	
		For Class 55 Rating, Add	*1,837.29*	
		For Class 56 Rating, Add	*2,440.00*	
40 05 19 00-0954	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,882.42	1,479.35
		For Class 52 Rating, Deduct	*-950.51*	
		For Class 54 Rating, Add	*1,323.04*	
		For Class 55 Rating, Add	*1,980.73*	
		For Class 56 Rating, Add	*2,629.78*	
40 05 19 00-0955	EA	30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,530.49	1,482.91
		For Class 52 Rating, Deduct	*-1,021.20*	
		For Class 54 Rating, Add	*1,419.51*	
		For Class 55 Rating, Add	*2,124.18*	
		For Class 56 Rating, Add	*2,819.56*	
40 05 19 00-0956	EA	30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,178.56	1,486.48
		For Class 52 Rating, Deduct	*-1,091.90*	
		For Class 54 Rating, Add	*1,515.97*	
		For Class 55 Rating, Add	*2,267.62*	
		For Class 56 Rating, Add	*3,009.35*	
40 05 19 00-0957	EA	30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,826.64	1,490.05
		For Class 52 Rating, Deduct	*-1,162.59*	
		For Class 54 Rating, Add	*1,612.44*	
		For Class 55 Rating, Add	*2,411.07*	
		For Class 56 Rating, Add	*3,199.13*	
40 05 19 00-0958	EA	30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,474.71	1,493.61
		For Class 52 Rating, Deduct	*-1,233.28*	
		For Class 54 Rating, Add	*1,708.91*	
		For Class 55 Rating, Add	*2,554.52*	
		For Class 56 Rating, Add	*3,388.91*	
40 05 19 00-0959	EA	30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,122.79	1,497.18
		For Class 52 Rating, Deduct	*-1,303.98*	
		For Class 54 Rating, Add	*1,805.37*	
		For Class 55 Rating, Add	*2,697.96*	
		For Class 56 Rating, Add	*3,578.70*	
40 05 19 00-0960	EA	30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,770.87	1,500.74
		For Class 52 Rating, Deduct	*-1,374.67*	
		For Class 54 Rating, Add	*1,901.84*	
		For Class 55 Rating, Add	*2,841.41*	
		For Class 56 Rating, Add	*3,768.48*	
40 05 19 00-0961	EA	30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,418.94	1,504.30
		For Class 52 Rating, Deduct	*-1,445.37*	
		For Class 54 Rating, Add	*1,998.31*	
		For Class 55 Rating, Add	*2,984.85*	
		For Class 56 Rating, Add	*3,958.26*	
40 05 19 00-0962	EA	30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,067.02	1,507.87
		For Class 52 Rating, Deduct	*-1,516.06*	
		For Class 54 Rating, Add	*2,094.77*	
		For Class 55 Rating, Add	*3,128.30*	
		For Class 56 Rating, Add	*4,148.05*	
40 05 19 00-0963	EA	30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,715.08	1,511.43
		For Class 52 Rating, Deduct	*-1,586.75*	
		For Class 54 Rating, Add	*2,191.24*	
		For Class 55 Rating, Add	*3,271.74*	
		For Class 56 Rating, Add	*4,337.83*	
40 05 19 00-0964	EA	30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,363.17	1,514.99
		For Class 52 Rating, Deduct	*-1,657.45*	
		For Class 54 Rating, Add	*2,287.70*	
		For Class 55 Rating, Add	*3,415.19*	
		For Class 56 Rating, Add	*4,527.61*	
40 05 19 00-0965	EA	30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,011.25	1,518.56
		For Class 52 Rating, Deduct	*-1,728.14*	
		For Class 54 Rating, Add	*2,384.17*	
		For Class 55 Rating, Add	*3,558.64*	
		For Class 56 Rating, Add	*4,717.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0966	EA	30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,659.32	1,522.13
		For Class 52 Rating, Deduct	*-1,798.84*	
		For Class 54 Rating, Add	*2,480.64*	
		For Class 55 Rating, Add	*3,702.08*	
		For Class 56 Rating, Add	*4,907.18*	
40 05 19 00-0967	EA	30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,307.40	1,525.69
		For Class 52 Rating, Deduct	*-1,869.53*	
		For Class 54 Rating, Add	*2,577.10*	
		For Class 55 Rating, Add	*3,845.53*	
		For Class 56 Rating, Add	*5,096.96*	
40 05 19 00-0968	EA	30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,955.47	1,529.26
		For Class 52 Rating, Deduct	*-1,940.23*	
		For Class 54 Rating, Add	*2,673.57*	
		For Class 55 Rating, Add	*3,988.98*	
		For Class 56 Rating, Add	*5,286.75*	
40 05 19 00-0969	EA	30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,603.55	1,532.82
		For Class 52 Rating, Deduct	*-2,010.92*	
		For Class 54 Rating, Add	*2,770.03*	
		For Class 55 Rating, Add	*4,132.42*	
		For Class 56 Rating, Add	*5,476.53*	
40 05 19 00-0970	EA	30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,251.61	1,536.38
		For Class 52 Rating, Deduct	*-2,081.61*	
		For Class 54 Rating, Add	*2,866.50*	
		For Class 55 Rating, Add	*4,275.87*	
		For Class 56 Rating, Add	*5,666.31*	
40 05 19 00-0971	EA	30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,899.70	1,539.95
		For Class 52 Rating, Deduct	*-2,152.31*	
		For Class 54 Rating, Add	*2,962.97*	
		For Class 55 Rating, Add	*4,419.31*	
		For Class 56 Rating, Add	*5,856.10*	
40 05 19 00-0972	EA	30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,547.77	1,543.51
		For Class 52 Rating, Deduct	*-2,223.00*	
		For Class 54 Rating, Add	*3,059.43*	
		For Class 55 Rating, Add	*4,562.76*	
		For Class 56 Rating, Add	*6,045.88*	
40 05 19 00-0973	EA	30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,195.85	1,547.07
		For Class 52 Rating, Deduct	*-2,293.70*	
		For Class 54 Rating, Add	*3,155.90*	
		For Class 55 Rating, Add	*4,706.21*	
		For Class 56 Rating, Add	*6,235.66*	
40 05 19 00-0974	EA	30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,843.92	1,550.65
		For Class 52 Rating, Deduct	*-2,364.39*	
		For Class 54 Rating, Add	*3,252.36*	
		For Class 55 Rating, Add	*4,849.65*	
		For Class 56 Rating, Add	*6,425.45*	
40 05 19 00-0975	EA	30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,492.00	1,554.21
		For Class 52 Rating, Deduct	*-2,435.09*	
		For Class 54 Rating, Add	*3,348.83*	
		For Class 55 Rating, Add	*4,993.10*	
		For Class 56 Rating, Add	*6,615.23*	
40 05 19 00-0976	EA	30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,140.07	1,557.77
		For Class 52 Rating, Deduct	*-2,505.78*	
		For Class 54 Rating, Add	*3,445.29*	
		For Class 55 Rating, Add	*5,136.54*	
		For Class 56 Rating, Add	*6,805.01*	
40 05 19 00-0977	EA	30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,788.15	1,561.34
		For Class 52 Rating, Deduct	*-2,576.47*	
		For Class 54 Rating, Add	*3,541.76*	
		For Class 55 Rating, Add	*5,279.99*	
		For Class 56 Rating, Add	*6,994.80*	
40 05 19 00-0978	EA	30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,436.22	1,564.90
		For Class 52 Rating, Deduct	*-2,647.17*	
		For Class 54 Rating, Add	*3,638.23*	
		For Class 55 Rating, Add	*5,423.44*	
		For Class 56 Rating, Add	*7,184.58*	
40 05 19 00-0979	EA	30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,084.30	1,568.47
		For Class 52 Rating, Deduct	*-2,717.86*	
		For Class 54 Rating, Add	*3,734.69*	
		For Class 55 Rating, Add	*5,566.88*	
		For Class 56 Rating, Add	*7,374.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0980	EA	30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,732.37	1,572.03
		For Class 52 Rating, Deduct	*-2,788.56*	
		For Class 54 Rating, Add	*3,831.16*	
		For Class 55 Rating, Add	*5,710.33*	
		For Class 56 Rating, Add	*7,564.15*	
40 05 19 00-0981	EA	30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,380.45	1,575.59
		For Class 52 Rating, Deduct	*-2,859.25*	
		For Class 54 Rating, Add	*3,927.62*	
		For Class 55 Rating, Add	*5,853.77*	
		For Class 56 Rating, Add	*7,753.93*	
40 05 19 00-0982	EA	30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,028.53	1,579.17
		For Class 52 Rating, Deduct	*-2,929.94*	
		For Class 54 Rating, Add	*4,024.09*	
		For Class 55 Rating, Add	*5,997.22*	
		For Class 56 Rating, Add	*7,943.71*	
40 05 19 00-0983	EA	30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,676.60	1,582.73
		For Class 52 Rating, Deduct	*-3,000.64*	
		For Class 54 Rating, Add	*4,120.56*	
		For Class 55 Rating, Add	*6,140.67*	
		For Class 56 Rating, Add	*8,133.50*	
40 05 19 00-0984	EA	30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,324.67	1,586.29
		For Class 52 Rating, Deduct	*-3,071.33*	
		For Class 54 Rating, Add	*4,217.02*	
		For Class 55 Rating, Add	*6,284.11*	
		For Class 56 Rating, Add	*8,323.28*	
40 05 19 00-0985	EA	30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,972.75	1,589.86
		For Class 52 Rating, Deduct	*-3,142.03*	
		For Class 54 Rating, Add	*4,313.49*	
		For Class 55 Rating, Add	*6,427.56*	
		For Class 56 Rating, Add	*8,513.06*	
40 05 19 00-0986	EA	30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,620.82	1,593.42
		For Class 52 Rating, Deduct	*-3,212.72*	
		For Class 54 Rating, Add	*4,409.95*	
		For Class 55 Rating, Add	*6,571.00*	
		For Class 56 Rating, Add	*8,702.85*	
40 05 19 00-0987	EA	30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,268.90	1,596.98
		For Class 52 Rating, Deduct	*-3,283.42*	
		For Class 54 Rating, Add	*4,506.42*	
		For Class 55 Rating, Add	*6,714.45*	
		For Class 56 Rating, Add	*8,892.63*	
40 05 19 00-0988	EA	30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,916.97	1,600.55
		For Class 52 Rating, Deduct	*-3,354.11*	
		For Class 54 Rating, Add	*4,602.89*	
		For Class 55 Rating, Add	*6,857.90*	
		For Class 56 Rating, Add	*9,082.41*	

40 05 19 00-0989 36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0990	EA	36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,282.53	1,860.77
		For Class 52 Rating, Deduct	*-1,040.95*	
		For Class 54 Rating, Add	*1,453.31*	
		For Class 55 Rating, Add	*2,177.95*	
		For Class 56 Rating, Add	*2,893.13*	
40 05 19 00-0991	EA	36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,162.18	1,864.33
		For Class 52 Rating, Deduct	*-1,137.12*	
		For Class 54 Rating, Add	*1,584.51*	
		For Class 55 Rating, Add	*2,373.04*	
		For Class 56 Rating, Add	*3,151.23*	
40 05 19 00-0992	EA	36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,041.82	1,867.91
		For Class 52 Rating, Deduct	*-1,233.28*	
		For Class 54 Rating, Add	*1,715.71*	
		For Class 55 Rating, Add	*2,568.13*	
		For Class 56 Rating, Add	*3,409.33*	
40 05 19 00-0993	EA	36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,921.48	1,871.47
		For Class 52 Rating, Deduct	*-1,329.45*	
		For Class 54 Rating, Add	*1,846.91*	
		For Class 55 Rating, Add	*2,763.21*	
		For Class 56 Rating, Add	*3,667.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0994	EA	36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,801.12	1,875.03
		For Class 52 Rating, Deduct	*-1,425.62*	
		For Class 54 Rating, Add	*1,978.12*	
		For Class 55 Rating, Add	*2,958.30*	
		For Class 56 Rating, Add	*3,925.52*	
40 05 19 00-0995	EA	36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,680.77	1,878.60
		For Class 52 Rating, Deduct	*-1,521.79*	
		For Class 54 Rating, Add	*2,109.32*	
		For Class 55 Rating, Add	*3,153.39*	
		For Class 56 Rating, Add	*4,183.62*	
40 05 19 00-0996	EA	36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,560.41	1,882.16
		For Class 52 Rating, Deduct	*-1,617.95*	
		For Class 54 Rating, Add	*2,240.52*	
		For Class 55 Rating, Add	*3,348.47*	
		For Class 56 Rating, Add	*4,441.72*	
40 05 19 00-0997	EA	36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,440.06	1,885.72
		For Class 52 Rating, Deduct	*-1,714.12*	
		For Class 54 Rating, Add	*2,371.72*	
		For Class 55 Rating, Add	*3,543.56*	
		For Class 56 Rating, Add	*4,699.81*	
40 05 19 00-0998	EA	36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,319.70	1,889.29
		For Class 52 Rating, Deduct	*-1,810.29*	
		For Class 54 Rating, Add	*2,502.92*	
		For Class 55 Rating, Add	*3,738.64*	
		For Class 56 Rating, Add	*4,957.91*	
40 05 19 00-0999	EA	36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,199.35	1,892.85
		For Class 52 Rating, Deduct	*-1,906.45*	
		For Class 54 Rating, Add	*2,634.12*	
		For Class 55 Rating, Add	*3,933.73*	
		For Class 56 Rating, Add	*5,216.01*	
40 05 19 00-1000	EA	36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,079.00	1,896.42
		For Class 52 Rating, Deduct	*-2,002.62*	
		For Class 54 Rating, Add	*2,765.32*	
		For Class 55 Rating, Add	*4,128.82*	
		For Class 56 Rating, Add	*5,474.10*	
40 05 19 00-1001	EA	36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,958.64	1,899.99
		For Class 52 Rating, Deduct	*-2,098.79*	
		For Class 54 Rating, Add	*2,896.53*	
		For Class 55 Rating, Add	*4,323.90*	
		For Class 56 Rating, Add	*5,732.20*	
40 05 19 00-1002	EA	36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,838.29	1,903.55
		For Class 52 Rating, Deduct	*-2,194.95*	
		For Class 54 Rating, Add	*3,027.73*	
		For Class 55 Rating, Add	*4,518.99*	
		For Class 56 Rating, Add	*5,990.30*	
40 05 19 00-1003	EA	36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,717.93	1,907.11
		For Class 52 Rating, Deduct	*-2,291.12*	
		For Class 54 Rating, Add	*3,158.93*	
		For Class 55 Rating, Add	*4,714.08*	
		For Class 56 Rating, Add	*6,248.39*	
40 05 19 00-1004	EA	36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,597.58	1,910.68
		For Class 52 Rating, Deduct	*-2,387.29*	
		For Class 54 Rating, Add	*3,290.13*	
		For Class 55 Rating, Add	*4,909.16*	
		For Class 56 Rating, Add	*6,506.49*	
40 05 19 00-1005	EA	36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,477.23	1,914.24
		For Class 52 Rating, Deduct	*-2,483.45*	
		For Class 54 Rating, Add	*3,421.33*	
		For Class 55 Rating, Add	*5,104.25*	
		For Class 56 Rating, Add	*6,764.59*	
40 05 19 00-1006	EA	36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,356.87	1,917.80
		For Class 52 Rating, Deduct	*-2,579.62*	
		For Class 54 Rating, Add	*3,552.53*	
		For Class 55 Rating, Add	*5,299.33*	
		For Class 56 Rating, Add	*7,022.68*	
40 05 19 00-1007	EA	36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,236.52	1,921.37
		For Class 52 Rating, Deduct	*-2,675.79*	
		For Class 54 Rating, Add	*3,683.74*	
		For Class 55 Rating, Add	*5,494.42*	
		For Class 56 Rating, Add	*7,280.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1008	EA	36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,116.17	1,924.94
		For Class 52 Rating, Deduct	*-2,771.96*	
		For Class 54 Rating, Add	*3,814.94*	
		For Class 55 Rating, Add	*5,689.51*	
		For Class 56 Rating, Add	*7,538.88*	
40 05 19 00-1009	EA	36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,995.81	1,928.51
		For Class 52 Rating, Deduct	*-2,868.12*	
		For Class 54 Rating, Add	*3,946.14*	
		For Class 55 Rating, Add	*5,884.59*	
		For Class 56 Rating, Add	*7,796.97*	
40 05 19 00-1010	EA	36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,875.47	1,932.07
		For Class 52 Rating, Deduct	*-2,964.29*	
		For Class 54 Rating, Add	*4,077.34*	
		For Class 55 Rating, Add	*6,079.68*	
		For Class 56 Rating, Add	*8,055.07*	
40 05 19 00-1011	EA	36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,755.10	1,935.63
		For Class 52 Rating, Deduct	*-3,060.46*	
		For Class 54 Rating, Add	*4,208.54*	
		For Class 55 Rating, Add	*6,274.77*	
		For Class 56 Rating, Add	*8,313.17*	
40 05 19 00-1012	EA	36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,634.76	1,939.20
		For Class 52 Rating, Deduct	*-3,156.62*	
		For Class 54 Rating, Add	*4,339.75*	
		For Class 55 Rating, Add	*6,469.85*	
		For Class 56 Rating, Add	*8,571.27*	
40 05 19 00-1013	EA	36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,514.39	1,942.76
		For Class 52 Rating, Deduct	*-3,252.79*	
		For Class 54 Rating, Add	*4,470.95*	
		For Class 55 Rating, Add	*6,664.94*	
		For Class 56 Rating, Add	*8,829.36*	
40 05 19 00-1014	EA	36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,394.05	1,946.32
		For Class 52 Rating, Deduct	*-3,348.96*	
		For Class 54 Rating, Add	*4,602.15*	
		For Class 55 Rating, Add	*6,860.03*	
		For Class 56 Rating, Add	*9,087.46*	
40 05 19 00-1015	EA	36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,273.68	1,949.89
		For Class 52 Rating, Deduct	*-3,445.12*	
		For Class 54 Rating, Add	*4,733.35*	
		For Class 55 Rating, Add	*7,055.11*	
		For Class 56 Rating, Add	*9,345.55*	
40 05 19 00-1016	EA	36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,153.34	1,953.46
		For Class 52 Rating, Deduct	*-3,541.29*	
		For Class 54 Rating, Add	*4,864.55*	
		For Class 55 Rating, Add	*7,250.20*	
		For Class 56 Rating, Add	*9,603.65*	
40 05 19 00-1017	EA	36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,032.98	1,957.02
		For Class 52 Rating, Deduct	*-3,637.46*	
		For Class 54 Rating, Add	*4,995.75*	
		For Class 55 Rating, Add	*7,445.28*	
		For Class 56 Rating, Add	*9,861.75*	
40 05 19 00-1018	EA	36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,912.63	1,960.59
		For Class 52 Rating, Deduct	*-3,733.63*	
		For Class 54 Rating, Add	*5,126.95*	
		For Class 55 Rating, Add	*7,640.37*	
		For Class 56 Rating, Add	*10,119.85*	
40 05 19 00-1019	EA	36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,792.28	1,964.15
		For Class 52 Rating, Deduct	*-3,829.79*	
		For Class 54 Rating, Add	*5,258.16*	
		For Class 55 Rating, Add	*7,835.46*	
		For Class 56 Rating, Add	*10,377.94*	
40 05 19 00-1020	EA	36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,671.92	1,967.71
		For Class 52 Rating, Deduct	*-3,925.96*	
		For Class 54 Rating, Add	*5,389.36*	
		For Class 55 Rating, Add	*8,030.54*	
		For Class 56 Rating, Add	*10,636.04*	
40 05 19 00-1021	EA	36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,551.57	1,971.28
		For Class 52 Rating, Deduct	*-4,022.13*	
		For Class 54 Rating, Add	*5,520.56*	
		For Class 55 Rating, Add	*8,225.63*	
		For Class 56 Rating, Add	*10,894.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1022	EA	36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,431.22	1,974.84
		For Class 52 Rating, Deduct	*-4,118.29*	
		For Class 54 Rating, Add	*5,651.76*	
		For Class 55 Rating, Add	*8,420.72*	
		For Class 56 Rating, Add	*11,152.23*	
40 05 19 00-1023	EA	36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,310.86	1,978.40
		For Class 52 Rating, Deduct	*-4,214.46*	
		For Class 54 Rating, Add	*5,782.96*	
		For Class 55 Rating, Add	*8,615.80*	
		For Class 56 Rating, Add	*11,410.33*	
40 05 19 00-1024	EA	36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,190.51	1,981.97
		For Class 52 Rating, Deduct	*-4,310.63*	
		For Class 54 Rating, Add	*5,914.16*	
		For Class 55 Rating, Add	*8,810.89*	
		For Class 56 Rating, Add	*11,668.43*	
40 05 19 00-1025	EA	36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,070.15	1,985.54
		For Class 52 Rating, Deduct	*-4,406.79*	
		For Class 54 Rating, Add	*6,045.36*	
		For Class 55 Rating, Add	*9,005.97*	
		For Class 56 Rating, Add	*11,926.52*	
40 05 19 00-1026	EA	36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,949.80	1,989.10
		For Class 52 Rating, Deduct	*-4,502.96*	
		For Class 54 Rating, Add	*6,176.57*	
		For Class 55 Rating, Add	*9,201.06*	
		For Class 56 Rating, Add	*12,184.62*	
40 05 19 00-1027	EA	36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,829.44	1,992.67
		For Class 52 Rating, Deduct	*-4,599.13*	
		For Class 54 Rating, Add	*6,307.77*	
		For Class 55 Rating, Add	*9,396.15*	
		For Class 56 Rating, Add	*12,442.71*	

40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Piping *(40 05 19 00-0001)*

40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1030	EA	4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	641.42	174.33
		For Class 52 Rating, Deduct	*-41.50*	
		For Class 54 Rating, Add	*59.76*	
		For Class 55 Rating, Add	*90.47*	
		For Class 56 Rating, Add	*120.81*	
40 05 19 00-1031	EA	4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	713.69	177.38
		For Class 52 Rating, Deduct	*-48.94*	
		For Class 54 Rating, Add	*69.96*	
		For Class 55 Rating, Add	*105.67*	
		For Class 56 Rating, Add	*140.93*	
40 05 19 00-1032	EA	4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	785.95	180.43
		For Class 52 Rating, Deduct	*-56.38*	
		For Class 54 Rating, Add	*80.17*	
		For Class 55 Rating, Add	*120.87*	
		For Class 56 Rating, Add	*161.05*	
40 05 19 00-1033	EA	4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	858.22	183.47
		For Class 52 Rating, Deduct	*-63.83*	
		For Class 54 Rating, Add	*90.37*	
		For Class 55 Rating, Add	*136.06*	
		For Class 56 Rating, Add	*181.18*	
40 05 19 00-1034	EA	4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	930.49	186.52
		For Class 52 Rating, Deduct	*-71.27*	
		For Class 54 Rating, Add	*100.57*	
		For Class 55 Rating, Add	*151.26*	
		For Class 56 Rating, Add	*201.30*	
40 05 19 00-1035	EA	4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,002.76	189.58
		For Class 52 Rating, Deduct	*-78.71*	
		For Class 54 Rating, Add	*110.78*	
		For Class 55 Rating, Add	*166.46*	
		For Class 56 Rating, Add	*221.42*	
40 05 19 00-1036	EA	4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,075.03	192.63
		For Class 52 Rating, Deduct	*-86.15*	
		For Class 54 Rating, Add	*120.98*	
		For Class 55 Rating, Add	*181.65*	
		For Class 56 Rating, Add	*241.54*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1037	EA	4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,147.29	195.67
		For Class 52 Rating, Deduct	*-93.59*	
		For Class 54 Rating, Add	*131.18*	
		For Class 55 Rating, Add	*196.85*	
		For Class 56 Rating, Add	*261.67*	
40 05 19 00-1038	EA	4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,219.56	198.72
		For Class 52 Rating, Deduct	*-101.03*	
		For Class 54 Rating, Add	*141.38*	
		For Class 55 Rating, Add	*212.05*	
		For Class 56 Rating, Add	*281.79*	
40 05 19 00-1039	EA	4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,291.83	201.77
		For Class 52 Rating, Deduct	*-108.47*	
		For Class 54 Rating, Add	*151.59*	
		For Class 55 Rating, Add	*227.24*	
		For Class 56 Rating, Add	*301.91*	
40 05 19 00-1040	EA	4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,364.10	204.81
		For Class 52 Rating, Deduct	*-115.92*	
		For Class 54 Rating, Add	*161.79*	
		For Class 55 Rating, Add	*242.44*	
		For Class 56 Rating, Add	*322.04*	
40 05 19 00-1041	EA	4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,436.37	207.86
		For Class 52 Rating, Deduct	*-123.36*	
		For Class 54 Rating, Add	*171.99*	
		For Class 55 Rating, Add	*257.64*	
		For Class 56 Rating, Add	*342.16*	
40 05 19 00-1042	EA	4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,508.63	210.91
		For Class 52 Rating, Deduct	*-130.80*	
		For Class 54 Rating, Add	*182.20*	
		For Class 55 Rating, Add	*272.83*	
		For Class 56 Rating, Add	*362.28*	
40 05 19 00-1043	EA	4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,580.90	213.97
		For Class 52 Rating, Deduct	*-138.24*	
		For Class 54 Rating, Add	*192.40*	
		For Class 55 Rating, Add	*288.03*	
		For Class 56 Rating, Add	*382.41*	
40 05 19 00-1044	EA	4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,653.17	217.00
		For Class 52 Rating, Deduct	*-145.68*	
		For Class 54 Rating, Add	*202.60*	
		For Class 55 Rating, Add	*303.23*	
		For Class 56 Rating, Add	*402.53*	
40 05 19 00-1045	EA	4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,725.44	220.05
		For Class 52 Rating, Deduct	*-153.12*	
		For Class 54 Rating, Add	*212.81*	
		For Class 55 Rating, Add	*318.42*	
		For Class 56 Rating, Add	*422.65*	
40 05 19 00-1046	EA	4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,797.70	223.10
		For Class 52 Rating, Deduct	*-160.56*	
		For Class 54 Rating, Add	*223.01*	
		For Class 55 Rating, Add	*333.62*	
		For Class 56 Rating, Add	*442.77*	
40 05 19 00-1047	EA	4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,869.98	226.14
		For Class 52 Rating, Deduct	*-168.01*	
		For Class 54 Rating, Add	*233.21*	
		For Class 55 Rating, Add	*348.82*	
		For Class 56 Rating, Add	*462.90*	
40 05 19 00-1048	EA	4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,942.24	229.19
		For Class 52 Rating, Deduct	*-175.45*	
		For Class 54 Rating, Add	*243.41*	
		For Class 55 Rating, Add	*364.01*	
		For Class 56 Rating, Add	*483.02*	
40 05 19 00-1049	EA	4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,014.51	232.24
		For Class 52 Rating, Deduct	*-182.89*	
		For Class 54 Rating, Add	*253.62*	
		For Class 55 Rating, Add	*379.21*	
		For Class 56 Rating, Add	*503.14*	
40 05 19 00-1050	EA	4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,086.78	235.30
		For Class 52 Rating, Deduct	*-190.33*	
		For Class 54 Rating, Add	*263.82*	
		For Class 55 Rating, Add	*394.41*	
		For Class 56 Rating, Add	*523.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1051	EA	4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,159.04	238.34
		For Class 52 Rating, Deduct	*-197.77*	
		For Class 54 Rating, Add	*274.02*	
		For Class 55 Rating, Add	*409.61*	
		For Class 56 Rating, Add	*543.39*	
40 05 19 00-1052	EA	4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,231.32	241.39
		For Class 52 Rating, Deduct	*-205.21*	
		For Class 54 Rating, Add	*284.23*	
		For Class 55 Rating, Add	*424.80*	
		For Class 56 Rating, Add	*563.51*	
40 05 19 00-1053	EA	4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,303.58	244.44
		For Class 52 Rating, Deduct	*-212.66*	
		For Class 54 Rating, Add	*294.43*	
		For Class 55 Rating, Add	*440.00*	
		For Class 56 Rating, Add	*583.64*	
40 05 19 00-1054	EA	4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,375.84	247.48
		For Class 52 Rating, Deduct	*-220.10*	
		For Class 54 Rating, Add	*304.63*	
		For Class 55 Rating, Add	*455.20*	
		For Class 56 Rating, Add	*603.76*	
40 05 19 00-1055	EA	4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,448.12	250.53
		For Class 52 Rating, Deduct	*-227.54*	
		For Class 54 Rating, Add	*314.83*	
		For Class 55 Rating, Add	*470.39*	
		For Class 56 Rating, Add	*623.88*	
40 05 19 00-1056	EA	4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,520.38	253.58
		For Class 52 Rating, Deduct	*-234.98*	
		For Class 54 Rating, Add	*325.04*	
		For Class 55 Rating, Add	*485.59*	
		For Class 56 Rating, Add	*644.00*	
40 05 19 00-1057	EA	4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,592.66	256.63
		For Class 52 Rating, Deduct	*-242.42*	
		For Class 54 Rating, Add	*335.24*	
		For Class 55 Rating, Add	*500.79*	
		For Class 56 Rating, Add	*664.13*	
40 05 19 00-1058	EA	4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,664.92	259.66
		For Class 52 Rating, Deduct	*-249.86*	
		For Class 54 Rating, Add	*345.44*	
		For Class 55 Rating, Add	*515.98*	
		For Class 56 Rating, Add	*684.25*	
40 05 19 00-1059	EA	4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,737.18	262.72
		For Class 52 Rating, Deduct	*-257.30*	
		For Class 54 Rating, Add	*355.65*	
		For Class 55 Rating, Add	*531.18*	
		For Class 56 Rating, Add	*704.37*	
40 05 19 00-1060	EA	4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,809.46	265.77
		For Class 52 Rating, Deduct	*-264.75*	
		For Class 54 Rating, Add	*365.85*	
		For Class 55 Rating, Add	*546.38*	
		For Class 56 Rating, Add	*724.50*	
40 05 19 00-1061	EA	4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,881.72	268.82
		For Class 52 Rating, Deduct	*-272.19*	
		For Class 54 Rating, Add	*376.05*	
		For Class 55 Rating, Add	*561.57*	
		For Class 56 Rating, Add	*744.62*	
40 05 19 00-1062	EA	4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,954.00	271.86
		For Class 52 Rating, Deduct	*-279.63*	
		For Class 54 Rating, Add	*386.26*	
		For Class 55 Rating, Add	*576.77*	
		For Class 56 Rating, Add	*764.74*	
40 05 19 00-1063	EA	4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,026.26	274.91
		For Class 52 Rating, Deduct	*-287.07*	
		For Class 54 Rating, Add	*396.46*	
		For Class 55 Rating, Add	*591.97*	
		For Class 56 Rating, Add	*784.87*	
40 05 19 00-1064	EA	4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,098.52	277.96
		For Class 52 Rating, Deduct	*-294.51*	
		For Class 54 Rating, Add	*406.66*	
		For Class 55 Rating, Add	*607.16*	
		For Class 56 Rating, Add	*804.99*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1065	EA	4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,170.80	281.00
		For Class 52 Rating, Deduct	*-301.95*	
		For Class 54 Rating, Add	*416.86*	
		For Class 55 Rating, Add	*622.36*	
		For Class 56 Rating, Add	*825.11*	
40 05 19 00-1066	EA	4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,243.06	284.06
		For Class 52 Rating, Deduct	*-309.39*	
		For Class 54 Rating, Add	*427.07*	
		For Class 55 Rating, Add	*637.56*	
		For Class 56 Rating, Add	*845.23*	
40 05 19 00-1067	EA	4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,315.33	287.11
		For Class 52 Rating, Deduct	*-316.84*	
		For Class 54 Rating, Add	*437.27*	
		For Class 55 Rating, Add	*652.75*	
		For Class 56 Rating, Add	*865.36*	
40 05 19 00-1068	EA	4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,387.60	290.16
		For Class 52 Rating, Deduct	*-324.28*	
		For Class 54 Rating, Add	*447.47*	
		For Class 55 Rating, Add	*667.95*	
		For Class 56 Rating, Add	*885.48*	

40 05 19 00-1069 6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1070	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	803.43	219.44
		For Class 52 Rating, Deduct	*-51.80*	
		For Class 54 Rating, Add	*74.63*	
		For Class 55 Rating, Add	*113.00*	
		For Class 56 Rating, Add	*150.90*	
40 05 19 00-1071	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	891.32	222.50
		For Class 52 Rating, Deduct	*-60.96*	
		For Class 54 Rating, Add	*87.18*	
		For Class 55 Rating, Add	*131.68*	
		For Class 56 Rating, Add	*175.63*	
40 05 19 00-1072	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	979.19	225.54
		For Class 52 Rating, Deduct	*-70.12*	
		For Class 54 Rating, Add	*99.72*	
		For Class 55 Rating, Add	*150.36*	
		For Class 56 Rating, Add	*200.36*	
40 05 19 00-1073	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,067.08	228.59
		For Class 52 Rating, Deduct	*-79.28*	
		For Class 54 Rating, Add	*112.27*	
		For Class 55 Rating, Add	*169.04*	
		For Class 56 Rating, Add	*225.08*	
40 05 19 00-1074	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,154.95	231.64
		For Class 52 Rating, Deduct	*-88.44*	
		For Class 54 Rating, Add	*124.81*	
		For Class 55 Rating, Add	*187.71*	
		For Class 56 Rating, Add	*249.81*	
40 05 19 00-1075	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,242.83	234.68
		For Class 52 Rating, Deduct	*-97.60*	
		For Class 54 Rating, Add	*137.35*	
		For Class 55 Rating, Add	*206.39*	
		For Class 56 Rating, Add	*274.54*	
40 05 19 00-1076	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,330.72	237.73
		For Class 52 Rating, Deduct	*-106.76*	
		For Class 54 Rating, Add	*149.90*	
		For Class 55 Rating, Add	*225.07*	
		For Class 56 Rating, Add	*299.27*	
40 05 19 00-1077	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,418.59	240.78
		For Class 52 Rating, Deduct	*-115.92*	
		For Class 54 Rating, Add	*162.44*	
		For Class 55 Rating, Add	*243.75*	
		For Class 56 Rating, Add	*324.00*	
40 05 19 00-1078	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,506.47	243.84
		For Class 52 Rating, Deduct	*-125.07*	
		For Class 54 Rating, Add	*174.99*	
		For Class 55 Rating, Add	*262.43*	
		For Class 56 Rating, Add	*348.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1079	EA	6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,594.35	246.86
		For Class 52 Rating, Deduct	*-134.23*	
		For Class 54 Rating, Add	*187.53*	
		For Class 55 Rating, Add	*281.10*	
		For Class 56 Rating, Add	*373.45*	
40 05 19 00-1080	EA	6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,682.23	249.92
		For Class 52 Rating, Deduct	*-143.39*	
		For Class 54 Rating, Add	*200.08*	
		For Class 55 Rating, Add	*299.78*	
		For Class 56 Rating, Add	*398.18*	
40 05 19 00-1081	EA	6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,770.11	252.97
		For Class 52 Rating, Deduct	*-152.55*	
		For Class 54 Rating, Add	*212.62*	
		For Class 55 Rating, Add	*318.46*	
		For Class 56 Rating, Add	*422.91*	
40 05 19 00-1082	EA	6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,857.98	256.01
		For Class 52 Rating, Deduct	*-161.71*	
		For Class 54 Rating, Add	*225.17*	
		For Class 55 Rating, Add	*337.14*	
		For Class 56 Rating, Add	*447.64*	
40 05 19 00-1083	EA	6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,945.87	259.06
		For Class 52 Rating, Deduct	*-170.87*	
		For Class 54 Rating, Add	*237.71*	
		For Class 55 Rating, Add	*355.82*	
		For Class 56 Rating, Add	*472.37*	
40 05 19 00-1084	EA	6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,033.75	262.11
		For Class 52 Rating, Deduct	*-180.03*	
		For Class 54 Rating, Add	*250.26*	
		For Class 55 Rating, Add	*374.50*	
		For Class 56 Rating, Add	*497.10*	
40 05 19 00-1085	EA	6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,121.63	265.16
		For Class 52 Rating, Deduct	*-189.19*	
		For Class 54 Rating, Add	*262.80*	
		For Class 55 Rating, Add	*393.17*	
		For Class 56 Rating, Add	*521.83*	
40 05 19 00-1086	EA	6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,209.51	268.20
		For Class 52 Rating, Deduct	*-198.34*	
		For Class 54 Rating, Add	*275.35*	
		For Class 55 Rating, Add	*411.85*	
		For Class 56 Rating, Add	*546.55*	
40 05 19 00-1087	EA	6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,297.38	271.26
		For Class 52 Rating, Deduct	*-207.50*	
		For Class 54 Rating, Add	*287.89*	
		For Class 55 Rating, Add	*430.53*	
		For Class 56 Rating, Add	*571.28*	
40 05 19 00-1088	EA	6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,385.26	274.31
		For Class 52 Rating, Deduct	*-216.66*	
		For Class 54 Rating, Add	*300.43*	
		For Class 55 Rating, Add	*449.21*	
		For Class 56 Rating, Add	*596.01*	
40 05 19 00-1089	EA	6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,473.14	277.36
		For Class 52 Rating, Deduct	*-225.82*	
		For Class 54 Rating, Add	*312.98*	
		For Class 55 Rating, Add	*467.88*	
		For Class 56 Rating, Add	*620.74*	
40 05 19 00-1090	EA	6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,561.03	280.40
		For Class 52 Rating, Deduct	*-234.98*	
		For Class 54 Rating, Add	*325.53*	
		For Class 55 Rating, Add	*486.56*	
		For Class 56 Rating, Add	*645.47*	
40 05 19 00-1091	EA	6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,648.90	283.45
		For Class 52 Rating, Deduct	*-244.14*	
		For Class 54 Rating, Add	*338.07*	
		For Class 55 Rating, Add	*505.24*	
		For Class 56 Rating, Add	*670.20*	
40 05 19 00-1092	EA	6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,736.78	286.50
		For Class 52 Rating, Deduct	*-253.30*	
		For Class 54 Rating, Add	*350.61*	
		For Class 55 Rating, Add	*523.92*	
		For Class 56 Rating, Add	*694.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1093	EA	6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,824.66	289.53
		For Class 52 Rating, Deduct	*-262.46*	
		For Class 54 Rating, Add	*363.16*	
		For Class 55 Rating, Add	*542.60*	
		For Class 56 Rating, Add	*719.65*	
40 05 19 00-1094	EA	6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,912.54	292.58
		For Class 52 Rating, Deduct	*-271.61*	
		For Class 54 Rating, Add	*375.70*	
		For Class 55 Rating, Add	*561.28*	
		For Class 56 Rating, Add	*744.38*	
40 05 19 00-1095	EA	6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,000.42	295.64
		For Class 52 Rating, Deduct	*-280.77*	
		For Class 54 Rating, Add	*388.25*	
		For Class 55 Rating, Add	*579.95*	
		For Class 56 Rating, Add	*769.11*	
40 05 19 00-1096	EA	6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,088.29	298.69
		For Class 52 Rating, Deduct	*-289.93*	
		For Class 54 Rating, Add	*400.79*	
		For Class 55 Rating, Add	*598.63*	
		For Class 56 Rating, Add	*793.84*	
40 05 19 00-1097	EA	6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,176.19	301.73
		For Class 52 Rating, Deduct	*-299.09*	
		For Class 54 Rating, Add	*413.34*	
		For Class 55 Rating, Add	*617.31*	
		For Class 56 Rating, Add	*818.57*	
40 05 19 00-1098	EA	6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,264.06	304.78
		For Class 52 Rating, Deduct	*-308.25*	
		For Class 54 Rating, Add	*425.88*	
		For Class 55 Rating, Add	*635.99*	
		For Class 56 Rating, Add	*843.29*	
40 05 19 00-1099	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,351.93	307.83
		For Class 52 Rating, Deduct	*-317.41*	
		For Class 54 Rating, Add	*438.43*	
		For Class 55 Rating, Add	*654.67*	
		For Class 56 Rating, Add	*868.02*	
40 05 19 00-1100	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,439.82	310.87
		For Class 52 Rating, Deduct	*-326.57*	
		For Class 54 Rating, Add	*450.97*	
		For Class 55 Rating, Add	*673.34*	
		For Class 56 Rating, Add	*892.75*	
40 05 19 00-1101	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,527.69	313.92
		For Class 52 Rating, Deduct	*-335.73*	
		For Class 54 Rating, Add	*463.52*	
		For Class 55 Rating, Add	*692.02*	
		For Class 56 Rating, Add	*917.48*	
40 05 19 00-1102	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,615.58	316.98
		For Class 52 Rating, Deduct	*-344.88*	
		For Class 54 Rating, Add	*476.06*	
		For Class 55 Rating, Add	*710.70*	
		For Class 56 Rating, Add	*942.21*	
40 05 19 00-1103	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,703.46	320.03
		For Class 52 Rating, Deduct	*-354.04*	
		For Class 54 Rating, Add	*488.61*	
		For Class 55 Rating, Add	*729.38*	
		For Class 56 Rating, Add	*966.94*	
40 05 19 00-1104	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,791.33	323.07
		For Class 52 Rating, Deduct	*-363.20*	
		For Class 54 Rating, Add	*501.15*	
		For Class 55 Rating, Add	*748.06*	
		For Class 56 Rating, Add	*991.66*	
40 05 19 00-1105	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,879.22	326.12
		For Class 52 Rating, Deduct	*-372.36*	
		For Class 54 Rating, Add	*513.69*	
		For Class 55 Rating, Add	*766.74*	
		For Class 56 Rating, Add	*1,016.39*	
40 05 19 00-1106	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,967.09	329.17
		For Class 52 Rating, Deduct	*-381.52*	
		For Class 54 Rating, Add	*526.24*	
		For Class 55 Rating, Add	*785.41*	
		For Class 56 Rating, Add	*1,041.12*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1107	EA	6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,054.98	332.20
		For Class 52 Rating, Deduct	*-390.68*	
		For Class 54 Rating, Add	*538.78*	
		For Class 55 Rating, Add	*804.09*	
		For Class 56 Rating, Add	*1,065.85*	
40 05 19 00-1108	EA	6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,142.85	335.25
		For Class 52 Rating, Deduct	*-399.84*	
		For Class 54 Rating, Add	*551.33*	
		For Class 55 Rating, Add	*822.77*	
		For Class 56 Rating, Add	*1,090.58*	

40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1110	EA	8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,109.15	280.40
		For Class 52 Rating, Deduct	*-75.27*	
		For Class 54 Rating, Add	*107.74*	
		For Class 55 Rating, Add	*162.80*	
		For Class 56 Rating, Add	*217.16*	
40 05 19 00-1111	EA	8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,228.25	283.45
		For Class 52 Rating, Deduct	*-87.87*	
		For Class 54 Rating, Add	*124.97*	
		For Class 55 Rating, Add	*188.44*	
		For Class 56 Rating, Add	*251.10*	
40 05 19 00-1112	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,347.35	286.50
		For Class 52 Rating, Deduct	*-100.46*	
		For Class 54 Rating, Add	*142.20*	
		For Class 55 Rating, Add	*214.08*	
		For Class 56 Rating, Add	*285.04*	
40 05 19 00-1113	EA	8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,466.46	289.53
		For Class 52 Rating, Deduct	*-113.05*	
		For Class 54 Rating, Add	*159.43*	
		For Class 55 Rating, Add	*239.72*	
		For Class 56 Rating, Add	*318.98*	
40 05 19 00-1114	EA	8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,585.56	292.58
		For Class 52 Rating, Deduct	*-125.65*	
		For Class 54 Rating, Add	*176.66*	
		For Class 55 Rating, Add	*265.36*	
		For Class 56 Rating, Add	*352.92*	
40 05 19 00-1115	EA	8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,704.67	295.64
		For Class 52 Rating, Deduct	*-138.24*	
		For Class 54 Rating, Add	*193.88*	
		For Class 55 Rating, Add	*291.00*	
		For Class 56 Rating, Add	*386.86*	
40 05 19 00-1116	EA	8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,823.76	298.69
		For Class 52 Rating, Deduct	*-150.83*	
		For Class 54 Rating, Add	*211.11*	
		For Class 55 Rating, Add	*316.64*	
		For Class 56 Rating, Add	*420.80*	
40 05 19 00-1117	EA	8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,942.88	301.73
		For Class 52 Rating, Deduct	*-163.43*	
		For Class 54 Rating, Add	*228.34*	
		For Class 55 Rating, Add	*342.28*	
		For Class 56 Rating, Add	*454.74*	
40 05 19 00-1118	EA	8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,061.97	304.78
		For Class 52 Rating, Deduct	*-176.02*	
		For Class 54 Rating, Add	*245.57*	
		For Class 55 Rating, Add	*367.92*	
		For Class 56 Rating, Add	*488.68*	
40 05 19 00-1119	EA	8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,181.07	307.83
		For Class 52 Rating, Deduct	*-188.61*	
		For Class 54 Rating, Add	*262.80*	
		For Class 55 Rating, Add	*393.57*	
		For Class 56 Rating, Add	*522.62*	
40 05 19 00-1120	EA	8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,300.18	310.87
		For Class 52 Rating, Deduct	*-201.21*	
		For Class 54 Rating, Add	*280.02*	
		For Class 55 Rating, Add	*419.21*	
		For Class 56 Rating, Add	*556.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1121	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,419.27	313.92
		For Class 52 Rating, Deduct	*-213.80*	
		For Class 54 Rating, Add	*297.25*	
		For Class 55 Rating, Add	*444.84*	
		For Class 56 Rating, Add	*590.49*	
40 05 19 00-1122	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,538.39	316.98
		For Class 52 Rating, Deduct	*-226.39*	
		For Class 54 Rating, Add	*314.48*	
		For Class 55 Rating, Add	*470.49*	
		For Class 56 Rating, Add	*624.44*	
40 05 19 00-1123	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,657.48	320.03
		For Class 52 Rating, Deduct	*-238.99*	
		For Class 54 Rating, Add	*331.71*	
		For Class 55 Rating, Add	*496.13*	
		For Class 56 Rating, Add	*658.37*	
40 05 19 00-1124	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,776.58	323.07
		For Class 52 Rating, Deduct	*-251.58*	
		For Class 54 Rating, Add	*348.94*	
		For Class 55 Rating, Add	*521.77*	
		For Class 56 Rating, Add	*692.31*	
40 05 19 00-1125	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,895.69	326.12
		For Class 52 Rating, Deduct	*-264.17*	
		For Class 54 Rating, Add	*366.16*	
		For Class 55 Rating, Add	*547.41*	
		For Class 56 Rating, Add	*726.25*	
40 05 19 00-1126	EA	8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,014.79	329.17
		For Class 52 Rating, Deduct	*-276.77*	
		For Class 54 Rating, Add	*383.39*	
		For Class 55 Rating, Add	*573.05*	
		For Class 56 Rating, Add	*760.19*	
40 05 19 00-1127	EA	8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,133.90	332.20
		For Class 52 Rating, Deduct	*-289.36*	
		For Class 54 Rating, Add	*400.62*	
		For Class 55 Rating, Add	*598.69*	
		For Class 56 Rating, Add	*794.13*	
40 05 19 00-1128	EA	8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,253.00	335.25
		For Class 52 Rating, Deduct	*-301.95*	
		For Class 54 Rating, Add	*417.85*	
		For Class 55 Rating, Add	*624.33*	
		For Class 56 Rating, Add	*828.07*	
40 05 19 00-1129	EA	8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,372.09	338.30
		For Class 52 Rating, Deduct	*-314.55*	
		For Class 54 Rating, Add	*435.08*	
		For Class 55 Rating, Add	*649.97*	
		For Class 56 Rating, Add	*862.01*	
40 05 19 00-1130	EA	8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,491.20	341.36
		For Class 52 Rating, Deduct	*-327.14*	
		For Class 54 Rating, Add	*452.31*	
		For Class 55 Rating, Add	*675.61*	
		For Class 56 Rating, Add	*895.95*	
40 05 19 00-1131	EA	8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,610.30	344.40
		For Class 52 Rating, Deduct	*-339.73*	
		For Class 54 Rating, Add	*469.53*	
		For Class 55 Rating, Add	*701.25*	
		For Class 56 Rating, Add	*929.89*	
40 05 19 00-1132	EA	8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,729.40	347.45
		For Class 52 Rating, Deduct	*-352.33*	
		For Class 54 Rating, Add	*486.76*	
		For Class 55 Rating, Add	*726.89*	
		For Class 56 Rating, Add	*963.83*	
40 05 19 00-1133	EA	8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,848.51	350.50
		For Class 52 Rating, Deduct	*-364.92*	
		For Class 54 Rating, Add	*503.99*	
		For Class 55 Rating, Add	*752.54*	
		For Class 56 Rating, Add	*997.77*	
40 05 19 00-1134	EA	8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,967.61	353.55
		For Class 52 Rating, Deduct	*-377.51*	
		For Class 54 Rating, Add	*521.22*	
		For Class 55 Rating, Add	*778.18*	
		For Class 56 Rating, Add	*1,031.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1135	EA	8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,086.72	356.59
		For Class 52 Rating, Deduct	*-390.11*	
		For Class 54 Rating, Add	*538.45*	
		For Class 55 Rating, Add	*803.82*	
		For Class 56 Rating, Add	*1,065.64*	
40 05 19 00-1136	EA	8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,205.81	359.64
		For Class 52 Rating, Deduct	*-402.70*	
		For Class 54 Rating, Add	*555.67*	
		For Class 55 Rating, Add	*829.46*	
		For Class 56 Rating, Add	*1,099.58*	
40 05 19 00-1137	EA	8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,324.92	362.70
		For Class 52 Rating, Deduct	*-415.29*	
		For Class 54 Rating, Add	*572.90*	
		For Class 55 Rating, Add	*855.10*	
		For Class 56 Rating, Add	*1,133.52*	
40 05 19 00-1138	EA	8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,444.02	365.74
		For Class 52 Rating, Deduct	*-427.89*	
		For Class 54 Rating, Add	*590.13*	
		For Class 55 Rating, Add	*880.74*	
		For Class 56 Rating, Add	*1,167.46*	
40 05 19 00-1139	EA	8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,563.12	368.79
		For Class 52 Rating, Deduct	*-440.48*	
		For Class 54 Rating, Add	*607.36*	
		For Class 55 Rating, Add	*906.38*	
		For Class 56 Rating, Add	*1,201.40*	
40 05 19 00-1140	EA	8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,682.22	371.84
		For Class 52 Rating, Deduct	*-453.07*	
		For Class 54 Rating, Add	*624.59*	
		For Class 55 Rating, Add	*932.02*	
		For Class 56 Rating, Add	*1,235.34*	
40 05 19 00-1141	EA	8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,801.32	374.89
		For Class 52 Rating, Deduct	*-465.67*	
		For Class 54 Rating, Add	*641.81*	
		For Class 55 Rating, Add	*957.66*	
		For Class 56 Rating, Add	*1,269.28*	
40 05 19 00-1142	EA	8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,920.43	377.92
		For Class 52 Rating, Deduct	*-478.26*	
		For Class 54 Rating, Add	*659.04*	
		For Class 55 Rating, Add	*983.30*	
		For Class 56 Rating, Add	*1,303.22*	
40 05 19 00-1143	EA	8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,039.53	380.97
		For Class 52 Rating, Deduct	*-490.85*	
		For Class 54 Rating, Add	*676.27*	
		For Class 55 Rating, Add	*1,008.94*	
		For Class 56 Rating, Add	*1,337.16*	
40 05 19 00-1144	EA	8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,158.64	384.02
		For Class 52 Rating, Deduct	*-503.45*	
		For Class 54 Rating, Add	*693.50*	
		For Class 55 Rating, Add	*1,034.59*	
		For Class 56 Rating, Add	*1,371.10*	
40 05 19 00-1145	EA	8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,277.73	387.06
		For Class 52 Rating, Deduct	*-516.04*	
		For Class 54 Rating, Add	*710.73*	
		For Class 55 Rating, Add	*1,060.23*	
		For Class 56 Rating, Add	*1,405.03*	
40 05 19 00-1146	EA	8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,396.84	390.12
		For Class 52 Rating, Deduct	*-528.63*	
		For Class 54 Rating, Add	*727.96*	
		For Class 55 Rating, Add	*1,085.87*	
		For Class 56 Rating, Add	*1,438.98*	
40 05 19 00-1147	EA	8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,515.94	393.17
		For Class 52 Rating, Deduct	*-541.23*	
		For Class 54 Rating, Add	*745.18*	
		For Class 55 Rating, Add	*1,111.51*	
		For Class 56 Rating, Add	*1,472.91*	
40 05 19 00-1148	EA	8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,635.05	396.22
		For Class 52 Rating, Deduct	*-553.82*	
		For Class 54 Rating, Add	*762.41*	
		For Class 55 Rating, Add	*1,137.15*	
		For Class 56 Rating, Add	*1,506.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1149		10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*		
40 05 19 00-1150	EA	10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,399.26	341.36
		For Class 52 Rating, Deduct	*-97.03*	
		For Class 54 Rating, Add	*138.51*	
		For Class 55 Rating, Add	*209.11*	
		For Class 56 Rating, Add	*278.82*	
40 05 19 00-1151	EA	10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,554.78	344.40
		For Class 52 Rating, Deduct	*-113.63*	
		For Class 54 Rating, Add	*161.21*	
		For Class 55 Rating, Add	*242.87*	
		For Class 56 Rating, Add	*323.51*	
40 05 19 00-1152	EA	10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,710.31	347.45
		For Class 52 Rating, Deduct	*-130.23*	
		For Class 54 Rating, Add	*183.90*	
		For Class 55 Rating, Add	*276.64*	
		For Class 56 Rating, Add	*368.19*	
40 05 19 00-1153	EA	10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,865.84	350.50
		For Class 52 Rating, Deduct	*-146.83*	
		For Class 54 Rating, Add	*206.59*	
		For Class 55 Rating, Add	*310.40*	
		For Class 56 Rating, Add	*412.88*	
40 05 19 00-1154	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,021.38	353.55
		For Class 52 Rating, Deduct	*-163.43*	
		For Class 54 Rating, Add	*229.28*	
		For Class 55 Rating, Add	*344.17*	
		For Class 56 Rating, Add	*457.57*	
40 05 19 00-1155	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,176.91	356.59
		For Class 52 Rating, Deduct	*-180.03*	
		For Class 54 Rating, Add	*251.98*	
		For Class 55 Rating, Add	*377.93*	
		For Class 56 Rating, Add	*502.25*	
40 05 19 00-1156	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,332.43	359.64
		For Class 52 Rating, Deduct	*-196.63*	
		For Class 54 Rating, Add	*274.67*	
		For Class 55 Rating, Add	*411.69*	
		For Class 56 Rating, Add	*546.94*	
40 05 19 00-1157	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,487.96	362.70
		For Class 52 Rating, Deduct	*-213.23*	
		For Class 54 Rating, Add	*297.36*	
		For Class 55 Rating, Add	*445.46*	
		For Class 56 Rating, Add	*591.62*	
40 05 19 00-1158	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,643.49	365.74
		For Class 52 Rating, Deduct	*-229.83*	
		For Class 54 Rating, Add	*320.05*	
		For Class 55 Rating, Add	*479.22*	
		For Class 56 Rating, Add	*636.30*	
40 05 19 00-1159	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,799.02	368.79
		For Class 52 Rating, Deduct	*-246.43*	
		For Class 54 Rating, Add	*342.74*	
		For Class 55 Rating, Add	*512.99*	
		For Class 56 Rating, Add	*680.99*	
40 05 19 00-1160	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,954.54	371.84
		For Class 52 Rating, Deduct	*-263.03*	
		For Class 54 Rating, Add	*365.43*	
		For Class 55 Rating, Add	*546.75*	
		For Class 56 Rating, Add	*725.67*	
40 05 19 00-1161	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,110.08	374.89
		For Class 52 Rating, Deduct	*-279.63*	
		For Class 54 Rating, Add	*388.13*	
		For Class 55 Rating, Add	*580.52*	
		For Class 56 Rating, Add	*770.36*	
40 05 19 00-1162	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,265.61	377.92
		For Class 52 Rating, Deduct	*-296.23*	
		For Class 54 Rating, Add	*410.82*	
		For Class 55 Rating, Add	*614.28*	
		For Class 56 Rating, Add	*815.05*	
40 05 19 00-1163	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,421.14	380.97
		For Class 52 Rating, Deduct	*-312.83*	
		For Class 54 Rating, Add	*433.51*	
		For Class 55 Rating, Add	*648.04*	
		For Class 56 Rating, Add	*859.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1164	EA	10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,576.67	384.02
		For Class 52 Rating, Deduct	*-329.43*	
		For Class 54 Rating, Add	*456.20*	
		For Class 55 Rating, Add	*681.81*	
		For Class 56 Rating, Add	*904.42*	
40 05 19 00-1165	EA	10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,732.19	387.06
		For Class 52 Rating, Deduct	*-346.03*	
		For Class 54 Rating, Add	*478.90*	
		For Class 55 Rating, Add	*715.57*	
		For Class 56 Rating, Add	*949.10*	
40 05 19 00-1166	EA	10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,887.72	390.12
		For Class 52 Rating, Deduct	*-362.63*	
		For Class 54 Rating, Add	*501.59*	
		For Class 55 Rating, Add	*749.33*	
		For Class 56 Rating, Add	*993.79*	
40 05 19 00-1167	EA	10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,043.25	393.17
		For Class 52 Rating, Deduct	*-379.23*	
		For Class 54 Rating, Add	*524.28*	
		For Class 55 Rating, Add	*783.10*	
		For Class 56 Rating, Add	*1,038.47*	
40 05 19 00-1168	EA	10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,198.79	396.22
		For Class 52 Rating, Deduct	*-395.83*	
		For Class 54 Rating, Add	*546.97*	
		For Class 55 Rating, Add	*816.86*	
		For Class 56 Rating, Add	*1,083.16*	
40 05 19 00-1169	EA	10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,354.32	399.26
		For Class 52 Rating, Deduct	*-412.43*	
		For Class 54 Rating, Add	*569.66*	
		For Class 55 Rating, Add	*850.63*	
		For Class 56 Rating, Add	*1,127.84*	
40 05 19 00-1170	EA	10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,509.84	402.31
		For Class 52 Rating, Deduct	*-429.03*	
		For Class 54 Rating, Add	*592.36*	
		For Class 55 Rating, Add	*884.39*	
		For Class 56 Rating, Add	*1,172.53*	
40 05 19 00-1171	EA	10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,665.37	405.36
		For Class 52 Rating, Deduct	*-445.63*	
		For Class 54 Rating, Add	*615.05*	
		For Class 55 Rating, Add	*918.16*	
		For Class 56 Rating, Add	*1,217.21*	
40 05 19 00-1172	EA	10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,820.90	408.40
		For Class 52 Rating, Deduct	*-462.23*	
		For Class 54 Rating, Add	*637.74*	
		For Class 55 Rating, Add	*951.92*	
		For Class 56 Rating, Add	*1,261.90*	
40 05 19 00-1173	EA	10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,976.42	411.46
		For Class 52 Rating, Deduct	*-478.83*	
		For Class 54 Rating, Add	*660.43*	
		For Class 55 Rating, Add	*985.68*	
		For Class 56 Rating, Add	*1,306.58*	
40 05 19 00-1174	EA	10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,131.96	414.51
		For Class 52 Rating, Deduct	*-495.43*	
		For Class 54 Rating, Add	*683.12*	
		For Class 55 Rating, Add	*1,019.45*	
		For Class 56 Rating, Add	*1,351.27*	
40 05 19 00-1175	EA	10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,287.48	417.56
		For Class 52 Rating, Deduct	*-512.03*	
		For Class 54 Rating, Add	*705.82*	
		For Class 55 Rating, Add	*1,053.21*	
		For Class 56 Rating, Add	*1,395.95*	
40 05 19 00-1176	EA	10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,443.03	420.59
		For Class 52 Rating, Deduct	*-528.63*	
		For Class 54 Rating, Add	*728.51*	
		For Class 55 Rating, Add	*1,086.98*	
		For Class 56 Rating, Add	*1,440.64*	
40 05 19 00-1177	EA	10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,598.55	423.64
		For Class 52 Rating, Deduct	*-545.23*	
		For Class 54 Rating, Add	*751.20*	
		For Class 55 Rating, Add	*1,120.74*	
		For Class 56 Rating, Add	*1,485.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1178	EA	10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,754.07	426.69
		For Class 52 Rating, Deduct	*-561.83*	
		For Class 54 Rating, Add	*773.89*	
		For Class 55 Rating, Add	*1,154.50*	
		For Class 56 Rating, Add	*1,530.01*	
40 05 19 00-1179	EA	10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,909.61	429.74
		For Class 52 Rating, Deduct	*-578.43*	
		For Class 54 Rating, Add	*796.59*	
		For Class 55 Rating, Add	*1,188.27*	
		For Class 56 Rating, Add	*1,574.69*	
40 05 19 00-1180	EA	10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,065.13	432.78
		For Class 52 Rating, Deduct	*-595.03*	
		For Class 54 Rating, Add	*819.28*	
		For Class 55 Rating, Add	*1,222.03*	
		For Class 56 Rating, Add	*1,619.38*	
40 05 19 00-1181	EA	10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,220.66	435.84
		For Class 52 Rating, Deduct	*-611.63*	
		For Class 54 Rating, Add	*841.97*	
		For Class 55 Rating, Add	*1,255.80*	
		For Class 56 Rating, Add	*1,664.06*	
40 05 19 00-1182	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,376.19	438.89
		For Class 52 Rating, Deduct	*-628.23*	
		For Class 54 Rating, Add	*864.66*	
		For Class 55 Rating, Add	*1,289.56*	
		For Class 56 Rating, Add	*1,708.75*	
40 05 19 00-1183	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,531.72	441.93
		For Class 52 Rating, Deduct	*-644.83*	
		For Class 54 Rating, Add	*887.35*	
		For Class 55 Rating, Add	*1,323.33*	
		For Class 56 Rating, Add	*1,753.43*	
40 05 19 00-1184	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,687.26	444.98
		For Class 52 Rating, Deduct	*-661.43*	
		For Class 54 Rating, Add	*910.05*	
		For Class 55 Rating, Add	*1,357.09*	
		For Class 56 Rating, Add	*1,798.12*	
40 05 19 00-1185	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,842.78	448.03
		For Class 52 Rating, Deduct	*-678.03*	
		For Class 54 Rating, Add	*932.74*	
		For Class 55 Rating, Add	*1,390.85*	
		For Class 56 Rating, Add	*1,842.80*	
40 05 19 00-1186	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,998.31	451.08
		For Class 52 Rating, Deduct	*-694.63*	
		For Class 54 Rating, Add	*955.43*	
		For Class 55 Rating, Add	*1,424.62*	
		For Class 56 Rating, Add	*1,887.49*	
40 05 19 00-1187	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,153.84	454.12
		For Class 52 Rating, Deduct	*-711.23*	
		For Class 54 Rating, Add	*978.12*	
		For Class 55 Rating, Add	*1,458.38*	
		For Class 56 Rating, Add	*1,932.17*	
40 05 19 00-1188	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,309.36	457.18
		For Class 52 Rating, Deduct	*-727.83*	
		For Class 54 Rating, Add	*1,000.81*	
		For Class 55 Rating, Add	*1,492.14*	
		For Class 56 Rating, Add	*1,976.86*	

40 05 19 00-1189 12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1190	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,822.57	426.69
		For Class 52 Rating, Deduct	*-129.37*	
		For Class 54 Rating, Add	*184.17*	
		For Class 55 Rating, Add	*277.78*	
		For Class 56 Rating, Add	*370.21*	
40 05 19 00-1191	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,017.14	429.74
		For Class 52 Rating, Deduct	*-150.26*	
		For Class 54 Rating, Add	*212.72*	
		For Class 55 Rating, Add	*320.25*	
		For Class 56 Rating, Add	*426.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1192	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,211.69	432.78
		For Class 52 Rating, Deduct	*-171.15*	
		For Class 54 Rating, Add	*241.26*	
		For Class 55 Rating, Add	*362.71*	
		For Class 56 Rating, Add	*482.61*	
40 05 19 00-1193	EA	12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,406.25	435.84
		For Class 52 Rating, Deduct	*-192.05*	
		For Class 54 Rating, Add	*269.81*	
		For Class 55 Rating, Add	*405.18*	
		For Class 56 Rating, Add	*538.81*	
40 05 19 00-1194	EA	12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,600.81	438.89
		For Class 52 Rating, Deduct	*-212.94*	
		For Class 54 Rating, Add	*298.35*	
		For Class 55 Rating, Add	*447.65*	
		For Class 56 Rating, Add	*595.01*	
40 05 19 00-1195	EA	12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,795.36	441.93
		For Class 52 Rating, Deduct	*-233.83*	
		For Class 54 Rating, Add	*326.90*	
		For Class 55 Rating, Add	*490.12*	
		For Class 56 Rating, Add	*651.21*	
40 05 19 00-1196	EA	12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,989.93	444.98
		For Class 52 Rating, Deduct	*-254.73*	
		For Class 54 Rating, Add	*355.45*	
		For Class 55 Rating, Add	*532.58*	
		For Class 56 Rating, Add	*707.41*	
40 05 19 00-1197	EA	12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,184.48	448.03
		For Class 52 Rating, Deduct	*-275.62*	
		For Class 54 Rating, Add	*383.99*	
		For Class 55 Rating, Add	*575.05*	
		For Class 56 Rating, Add	*763.60*	
40 05 19 00-1198	EA	12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,379.04	451.08
		For Class 52 Rating, Deduct	*-296.51*	
		For Class 54 Rating, Add	*412.54*	
		For Class 55 Rating, Add	*617.52*	
		For Class 56 Rating, Add	*819.80*	
40 05 19 00-1199	EA	12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,573.60	454.12
		For Class 52 Rating, Deduct	*-317.41*	
		For Class 54 Rating, Add	*441.09*	
		For Class 55 Rating, Add	*659.99*	
		For Class 56 Rating, Add	*876.00*	
40 05 19 00-1200	EA	12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,768.15	457.18
		For Class 52 Rating, Deduct	*-338.30*	
		For Class 54 Rating, Add	*469.63*	
		For Class 55 Rating, Add	*702.45*	
		For Class 56 Rating, Add	*932.20*	
40 05 19 00-1201	EA	12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,962.72	460.23
		For Class 52 Rating, Deduct	*-359.20*	
		For Class 54 Rating, Add	*498.18*	
		For Class 55 Rating, Add	*744.92*	
		For Class 56 Rating, Add	*988.40*	
40 05 19 00-1202	EA	12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,157.27	463.27
		For Class 52 Rating, Deduct	*-380.09*	
		For Class 54 Rating, Add	*526.73*	
		For Class 55 Rating, Add	*787.39*	
		For Class 56 Rating, Add	*1,044.60*	
40 05 19 00-1203	EA	12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,351.83	466.31
		For Class 52 Rating, Deduct	*-400.98*	
		For Class 54 Rating, Add	*555.27*	
		For Class 55 Rating, Add	*829.86*	
		For Class 56 Rating, Add	*1,100.80*	
40 05 19 00-1204	EA	12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,546.39	469.36
		For Class 52 Rating, Deduct	*-421.88*	
		For Class 54 Rating, Add	*583.82*	
		For Class 55 Rating, Add	*872.32*	
		For Class 56 Rating, Add	*1,156.99*	
40 05 19 00-1205	EA	12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,740.94	472.41
		For Class 52 Rating, Deduct	*-442.77*	
		For Class 54 Rating, Add	*612.36*	
		For Class 55 Rating, Add	*914.79*	
		For Class 56 Rating, Add	*1,213.19*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1206	EA	12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,935.50	475.45
		For Class 52 Rating, Deduct	*-463.66*	
		For Class 54 Rating, Add	*640.91*	
		For Class 55 Rating, Add	*957.26*	
		For Class 56 Rating, Add	*1,269.39*	
40 05 19 00-1207	EA	12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,130.06	478.50
		For Class 52 Rating, Deduct	*-484.56*	
		For Class 54 Rating, Add	*669.46*	
		For Class 55 Rating, Add	*999.73*	
		For Class 56 Rating, Add	*1,325.59*	
40 05 19 00-1208	EA	12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,324.62	481.56
		For Class 52 Rating, Deduct	*-505.45*	
		For Class 54 Rating, Add	*698.00*	
		For Class 55 Rating, Add	*1,042.19*	
		For Class 56 Rating, Add	*1,381.79*	
40 05 19 00-1209	EA	12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,519.18	484.60
		For Class 52 Rating, Deduct	*-526.34*	
		For Class 54 Rating, Add	*726.55*	
		For Class 55 Rating, Add	*1,084.66*	
		For Class 56 Rating, Add	*1,437.99*	
40 05 19 00-1210	EA	12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,713.74	487.65
		For Class 52 Rating, Deduct	*-547.24*	
		For Class 54 Rating, Add	*755.10*	
		For Class 55 Rating, Add	*1,127.13*	
		For Class 56 Rating, Add	*1,494.19*	
40 05 19 00-1211	EA	12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,908.29	490.70
		For Class 52 Rating, Deduct	*-568.13*	
		For Class 54 Rating, Add	*783.64*	
		For Class 55 Rating, Add	*1,169.60*	
		For Class 56 Rating, Add	*1,550.38*	
40 05 19 00-1212	EA	12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,102.85	493.75
		For Class 52 Rating, Deduct	*-589.02*	
		For Class 54 Rating, Add	*812.19*	
		For Class 55 Rating, Add	*1,212.06*	
		For Class 56 Rating, Add	*1,606.58*	
40 05 19 00-1213	EA	12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,297.41	496.79
		For Class 52 Rating, Deduct	*-609.92*	
		For Class 54 Rating, Add	*840.74*	
		For Class 55 Rating, Add	*1,254.53*	
		For Class 56 Rating, Add	*1,662.78*	
40 05 19 00-1214	EA	12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,491.96	499.84
		For Class 52 Rating, Deduct	*-630.81*	
		For Class 54 Rating, Add	*869.28*	
		For Class 55 Rating, Add	*1,297.00*	
		For Class 56 Rating, Add	*1,718.98*	
40 05 19 00-1215	EA	12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,686.53	502.90
		For Class 52 Rating, Deduct	*-651.70*	
		For Class 54 Rating, Add	*897.83*	
		For Class 55 Rating, Add	*1,339.47*	
		For Class 56 Rating, Add	*1,775.18*	
40 05 19 00-1216	EA	12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,881.08	505.95
		For Class 52 Rating, Deduct	*-672.60*	
		For Class 54 Rating, Add	*926.38*	
		For Class 55 Rating, Add	*1,381.93*	
		For Class 56 Rating, Add	*1,831.38*	
40 05 19 00-1217	EA	12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,075.64	508.98
		For Class 52 Rating, Deduct	*-693.49*	
		For Class 54 Rating, Add	*954.92*	
		For Class 55 Rating, Add	*1,424.40*	
		For Class 56 Rating, Add	*1,887.58*	
40 05 19 00-1218	EA	12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,270.20	512.03
		For Class 52 Rating, Deduct	*-714.38*	
		For Class 54 Rating, Add	*983.47*	
		For Class 55 Rating, Add	*1,466.87*	
		For Class 56 Rating, Add	*1,943.77*	
40 05 19 00-1219	EA	12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,464.75	515.08
		For Class 52 Rating, Deduct	*-735.28*	
		For Class 54 Rating, Add	*1,012.01*	
		For Class 55 Rating, Add	*1,509.34*	
		For Class 56 Rating, Add	*1,999.97*	

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	MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1220		EA	12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,659.32	518.12
			For Class 52 Rating, Deduct	*-756.17*	
			For Class 54 Rating, Add	*1,040.56*	
			For Class 55 Rating, Add	*1,551.80*	
			For Class 56 Rating, Add	*2,056.17*	
40 05 19 00-1221		EA	12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,853.87	521.17
			For Class 52 Rating, Deduct	*-777.06*	
			For Class 54 Rating, Add	*1,069.11*	
			For Class 55 Rating, Add	*1,594.27*	
			For Class 56 Rating, Add	*2,112.37*	
40 05 19 00-1222		EA	12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,048.43	524.22
			For Class 52 Rating, Deduct	*-797.96*	
			For Class 54 Rating, Add	*1,097.65*	
			For Class 55 Rating, Add	*1,636.74*	
			For Class 56 Rating, Add	*2,168.57*	
40 05 19 00-1223		EA	12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,242.99	527.28
			For Class 52 Rating, Deduct	*-818.85*	
			For Class 54 Rating, Add	*1,126.20*	
			For Class 55 Rating, Add	*1,679.21*	
			For Class 56 Rating, Add	*2,224.77*	
40 05 19 00-1224		EA	12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,437.54	530.32
			For Class 52 Rating, Deduct	*-839.74*	
			For Class 54 Rating, Add	*1,154.75*	
			For Class 55 Rating, Add	*1,721.67*	
			For Class 56 Rating, Add	*2,280.97*	
40 05 19 00-1225		EA	12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,632.11	533.37
			For Class 52 Rating, Deduct	*-860.64*	
			For Class 54 Rating, Add	*1,183.29*	
			For Class 55 Rating, Add	*1,764.14*	
			For Class 56 Rating, Add	*2,337.16*	
40 05 19 00-1226		EA	12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,826.66	536.42
			For Class 52 Rating, Deduct	*-881.53*	
			For Class 54 Rating, Add	*1,211.84*	
			For Class 55 Rating, Add	*1,806.61*	
			For Class 56 Rating, Add	*2,393.36*	
40 05 19 00-1227		EA	12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,021.22	539.46
			For Class 52 Rating, Deduct	*-902.42*	
			For Class 54 Rating, Add	*1,240.39*	
			For Class 55 Rating, Add	*1,849.08*	
			For Class 56 Rating, Add	*2,449.56*	
40 05 19 00-1228		EA	12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,215.78	542.51
			For Class 52 Rating, Deduct	*-923.32*	
			For Class 54 Rating, Add	*1,268.93*	
			For Class 55 Rating, Add	*1,891.54*	
			For Class 56 Rating, Add	*2,505.76*	

40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1230		EA	14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,454.05	512.03
			For Class 52 Rating, Deduct	*-184.61*	
			For Class 54 Rating, Add	*261.05*	
			For Class 55 Rating, Add	*392.87*	
			For Class 56 Rating, Add	*523.01*	
40 05 19 00-1231		EA	14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,690.23	515.08
			For Class 52 Rating, Deduct	*-210.08*	
			For Class 54 Rating, Add	*295.84*	
			For Class 55 Rating, Add	*444.62*	
			For Class 56 Rating, Add	*591.49*	
40 05 19 00-1232		EA	14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,926.43	518.12
			For Class 52 Rating, Deduct	*-235.55*	
			For Class 54 Rating, Add	*330.63*	
			For Class 55 Rating, Add	*496.37*	
			For Class 56 Rating, Add	*659.97*	
40 05 19 00-1233		EA	14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,162.61	521.17
			For Class 52 Rating, Deduct	*-261.02*	
			For Class 54 Rating, Add	*365.42*	
			For Class 55 Rating, Add	*548.12*	
			For Class 56 Rating, Add	*728.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1234	EA	14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,398.80	524.22
		For Class 52 Rating, Deduct	*-286.50*	
		For Class 54 Rating, Add	*400.21*	
		For Class 55 Rating, Add	*599.87*	
		For Class 56 Rating, Add	*796.93*	
40 05 19 00-1235	EA	14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,634.99	527.28
		For Class 52 Rating, Deduct	*-311.97*	
		For Class 54 Rating, Add	*435.00*	
		For Class 55 Rating, Add	*651.62*	
		For Class 56 Rating, Add	*865.41*	
40 05 19 00-1236	EA	14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,871.17	530.32
		For Class 52 Rating, Deduct	*-337.44*	
		For Class 54 Rating, Add	*469.79*	
		For Class 55 Rating, Add	*703.37*	
		For Class 56 Rating, Add	*933.89*	
40 05 19 00-1237	EA	14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,107.37	533.37
		For Class 52 Rating, Deduct	*-362.92*	
		For Class 54 Rating, Add	*504.58*	
		For Class 55 Rating, Add	*755.12*	
		For Class 56 Rating, Add	*1,002.37*	
40 05 19 00-1238	EA	14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,343.56	536.42
		For Class 52 Rating, Deduct	*-388.39*	
		For Class 54 Rating, Add	*539.37*	
		For Class 55 Rating, Add	*806.88*	
		For Class 56 Rating, Add	*1,070.85*	
40 05 19 00-1239	EA	14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,579.75	539.46
		For Class 52 Rating, Deduct	*-413.86*	
		For Class 54 Rating, Add	*574.17*	
		For Class 55 Rating, Add	*858.63*	
		For Class 56 Rating, Add	*1,139.33*	
40 05 19 00-1240	EA	14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,815.94	542.51
		For Class 52 Rating, Deduct	*-439.33*	
		For Class 54 Rating, Add	*608.96*	
		For Class 55 Rating, Add	*910.38*	
		For Class 56 Rating, Add	*1,207.81*	
40 05 19 00-1241	EA	14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,052.12	545.56
		For Class 52 Rating, Deduct	*-464.81*	
		For Class 54 Rating, Add	*643.75*	
		For Class 55 Rating, Add	*962.13*	
		For Class 56 Rating, Add	*1,276.29*	
40 05 19 00-1242	EA	14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,288.32	548.62
		For Class 52 Rating, Deduct	*-490.28*	
		For Class 54 Rating, Add	*678.54*	
		For Class 55 Rating, Add	*1,013.88*	
		For Class 56 Rating, Add	*1,344.77*	
40 05 19 00-1243	EA	14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,524.50	551.66
		For Class 52 Rating, Deduct	*-515.75*	
		For Class 54 Rating, Add	*713.33*	
		For Class 55 Rating, Add	*1,065.63*	
		For Class 56 Rating, Add	*1,413.24*	
40 05 19 00-1244	EA	14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,760.69	554.71
		For Class 52 Rating, Deduct	*-541.23*	
		For Class 54 Rating, Add	*748.12*	
		For Class 55 Rating, Add	*1,117.38*	
		For Class 56 Rating, Add	*1,481.72*	
40 05 19 00-1245	EA	14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,996.88	557.75
		For Class 52 Rating, Deduct	*-566.70*	
		For Class 54 Rating, Add	*782.91*	
		For Class 55 Rating, Add	*1,169.13*	
		For Class 56 Rating, Add	*1,550.20*	
40 05 19 00-1246	EA	14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,233.06	560.79
		For Class 52 Rating, Deduct	*-592.17*	
		For Class 54 Rating, Add	*817.70*	
		For Class 55 Rating, Add	*1,220.88*	
		For Class 56 Rating, Add	*1,618.68*	
40 05 19 00-1247	EA	14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,469.25	563.84
		For Class 52 Rating, Deduct	*-617.64*	
		For Class 54 Rating, Add	*852.49*	
		For Class 55 Rating, Add	*1,272.64*	
		For Class 56 Rating, Add	*1,687.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1248	EA	14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,705.44	566.89
		For Class 52 Rating, Deduct	*-643.12*	
		For Class 54 Rating, Add	*887.28*	
		For Class 55 Rating, Add	*1,324.39*	
		For Class 56 Rating, Add	*1,755.64*	
40 05 19 00-1249	EA	14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,941.64	569.94
		For Class 52 Rating, Deduct	*-668.59*	
		For Class 54 Rating, Add	*922.08*	
		For Class 55 Rating, Add	*1,376.14*	
		For Class 56 Rating, Add	*1,824.12*	
40 05 19 00-1250	EA	14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,177.83	572.98
		For Class 52 Rating, Deduct	*-694.06*	
		For Class 54 Rating, Add	*956.87*	
		For Class 55 Rating, Add	*1,427.89*	
		For Class 56 Rating, Add	*1,892.60*	
40 05 19 00-1251	EA	14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,414.01	576.04
		For Class 52 Rating, Deduct	*-719.54*	
		For Class 54 Rating, Add	*991.66*	
		For Class 55 Rating, Add	*1,479.64*	
		For Class 56 Rating, Add	*1,961.08*	
40 05 19 00-1252	EA	14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,650.20	579.09
		For Class 52 Rating, Deduct	*-745.01*	
		For Class 54 Rating, Add	*1,026.45*	
		For Class 55 Rating, Add	*1,531.39*	
		For Class 56 Rating, Add	*2,029.56*	
40 05 19 00-1253	EA	14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,886.39	582.14
		For Class 52 Rating, Deduct	*-770.48*	
		For Class 54 Rating, Add	*1,061.24*	
		For Class 55 Rating, Add	*1,583.14*	
		For Class 56 Rating, Add	*2,098.04*	
40 05 19 00-1254	EA	14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,122.58	585.18
		For Class 52 Rating, Deduct	*-795.95*	
		For Class 54 Rating, Add	*1,096.03*	
		For Class 55 Rating, Add	*1,634.89*	
		For Class 56 Rating, Add	*2,166.52*	
40 05 19 00-1255	EA	14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,358.77	588.23
		For Class 52 Rating, Deduct	*-821.43*	
		For Class 54 Rating, Add	*1,130.82*	
		For Class 55 Rating, Add	*1,686.64*	
		For Class 56 Rating, Add	*2,235.00*	
40 05 19 00-1256	EA	14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,594.95	591.28
		For Class 52 Rating, Deduct	*-846.90*	
		For Class 54 Rating, Add	*1,165.61*	
		For Class 55 Rating, Add	*1,738.40*	
		For Class 56 Rating, Add	*2,303.48*	
40 05 19 00-1257	EA	14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,831.14	594.32
		For Class 52 Rating, Deduct	*-872.37*	
		For Class 54 Rating, Add	*1,200.40*	
		For Class 55 Rating, Add	*1,790.15*	
		For Class 56 Rating, Add	*2,371.96*	
40 05 19 00-1258	EA	14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,067.33	597.38
		For Class 52 Rating, Deduct	*-897.84*	
		For Class 54 Rating, Add	*1,235.19*	
		For Class 55 Rating, Add	*1,841.90*	
		For Class 56 Rating, Add	*2,440.44*	
40 05 19 00-1259	EA	14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,303.52	600.42
		For Class 52 Rating, Deduct	*-923.32*	
		For Class 54 Rating, Add	*1,269.99*	
		For Class 55 Rating, Add	*1,893.65*	
		For Class 56 Rating, Add	*2,508.92*	
40 05 19 00-1260	EA	14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,539.70	603.47
		For Class 52 Rating, Deduct	*-948.79*	
		For Class 54 Rating, Add	*1,304.78*	
		For Class 55 Rating, Add	*1,945.40*	
		For Class 56 Rating, Add	*2,577.40*	
40 05 19 00-1261	EA	14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,775.91	606.51
		For Class 52 Rating, Deduct	*-974.26*	
		For Class 54 Rating, Add	*1,339.57*	
		For Class 55 Rating, Add	*1,997.15*	
		For Class 56 Rating, Add	*2,645.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1262	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,012.09	609.56
		For Class 52 Rating, Deduct	*-999.74*	
		For Class 54 Rating, Add	*1,374.36*	
		For Class 55 Rating, Add	*2,048.90*	
		For Class 56 Rating, Add	*2,714.36*	
40 05 19 00-1263	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,248.28	612.61
		For Class 52 Rating, Deduct	*-1,025.21*	
		For Class 54 Rating, Add	*1,409.15*	
		For Class 55 Rating, Add	*2,100.65*	
		For Class 56 Rating, Add	*2,782.84*	
40 05 19 00-1264	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,484.47	615.65
		For Class 52 Rating, Deduct	*-1,050.68*	
		For Class 54 Rating, Add	*1,443.94*	
		For Class 55 Rating, Add	*2,152.41*	
		For Class 56 Rating, Add	*2,851.32*	
40 05 19 00-1265	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,720.65	618.70
		For Class 52 Rating, Deduct	*-1,076.15*	
		For Class 54 Rating, Add	*1,478.73*	
		For Class 55 Rating, Add	*2,204.16*	
		For Class 56 Rating, Add	*2,919.80*	
40 05 19 00-1266	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,956.85	621.76
		For Class 52 Rating, Deduct	*-1,101.63*	
		For Class 54 Rating, Add	*1,513.52*	
		For Class 55 Rating, Add	*2,255.91*	
		For Class 56 Rating, Add	*2,988.28*	
40 05 19 00-1267	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,193.03	624.81
		For Class 52 Rating, Deduct	*-1,127.10*	
		For Class 54 Rating, Add	*1,548.31*	
		For Class 55 Rating, Add	*2,307.66*	
		For Class 56 Rating, Add	*3,056.76*	

40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1269	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,871.90	585.18
		For Class 52 Rating, Deduct	*-218.38*	
		For Class 54 Rating, Add	*308.43*	
		For Class 55 Rating, Add	*463.99*	
		For Class 56 Rating, Add	*617.57*	
40 05 19 00-1270	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,147.12	588.23
		For Class 52 Rating, Deduct	*-248.14*	
		For Class 54 Rating, Add	*349.07*	
		For Class 55 Rating, Add	*524.45*	
		For Class 56 Rating, Add	*697.56*	
40 05 19 00-1271	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,422.33	591.28
		For Class 52 Rating, Deduct	*-277.91*	
		For Class 54 Rating, Add	*389.72*	
		For Class 55 Rating, Add	*584.90*	
		For Class 56 Rating, Add	*777.56*	
40 05 19 00-1272	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,697.55	594.32
		For Class 52 Rating, Deduct	*-307.68*	
		For Class 54 Rating, Add	*430.36*	
		For Class 55 Rating, Add	*645.36*	
		For Class 56 Rating, Add	*857.55*	
40 05 19 00-1273	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,972.77	597.38
		For Class 52 Rating, Deduct	*-337.44*	
		For Class 54 Rating, Add	*471.01*	
		For Class 55 Rating, Add	*705.81*	
		For Class 56 Rating, Add	*937.54*	
40 05 19 00-1274	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,247.99	600.42
		For Class 52 Rating, Deduct	*-367.21*	
		For Class 54 Rating, Add	*511.66*	
		For Class 55 Rating, Add	*766.27*	
		For Class 56 Rating, Add	*1,017.54*	
40 05 19 00-1275	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,523.20	603.47
		For Class 52 Rating, Deduct	*-396.97*	
		For Class 54 Rating, Add	*552.30*	
		For Class 55 Rating, Add	*826.72*	
		For Class 56 Rating, Add	*1,097.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1276	EA	16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,798.43	606.51
		For Class 52 Rating, Deduct	*-426.74*	
		For Class 54 Rating, Add	*592.95*	
		For Class 55 Rating, Add	*887.17*	
		For Class 56 Rating, Add	*1,177.52*	
40 05 19 00-1277	EA	16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,073.64	609.56
		For Class 52 Rating, Deduct	*-456.51*	
		For Class 54 Rating, Add	*633.59*	
		For Class 55 Rating, Add	*947.63*	
		For Class 56 Rating, Add	*1,257.52*	
40 05 19 00-1278	EA	16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,348.86	612.61
		For Class 52 Rating, Deduct	*-486.27*	
		For Class 54 Rating, Add	*674.24*	
		For Class 55 Rating, Add	*1,008.08*	
		For Class 56 Rating, Add	*1,337.51*	
40 05 19 00-1279	EA	16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,624.08	615.65
		For Class 52 Rating, Deduct	*-516.04*	
		For Class 54 Rating, Add	*714.88*	
		For Class 55 Rating, Add	*1,068.54*	
		For Class 56 Rating, Add	*1,417.50*	
40 05 19 00-1280	EA	16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,899.29	618.70
		For Class 52 Rating, Deduct	*-545.80*	
		For Class 54 Rating, Add	*755.53*	
		For Class 55 Rating, Add	*1,128.99*	
		For Class 56 Rating, Add	*1,497.50*	
40 05 19 00-1281	EA	16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,174.52	621.76
		For Class 52 Rating, Deduct	*-575.57*	
		For Class 54 Rating, Add	*796.17*	
		For Class 55 Rating, Add	*1,189.45*	
		For Class 56 Rating, Add	*1,577.49*	
40 05 19 00-1282	EA	16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,449.73	624.81
		For Class 52 Rating, Deduct	*-605.34*	
		For Class 54 Rating, Add	*836.82*	
		For Class 55 Rating, Add	*1,249.90*	
		For Class 56 Rating, Add	*1,657.48*	
40 05 19 00-1283	EA	16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,724.94	627.85
		For Class 52 Rating, Deduct	*-635.10*	
		For Class 54 Rating, Add	*877.46*	
		For Class 55 Rating, Add	*1,310.36*	
		For Class 56 Rating, Add	*1,737.48*	
40 05 19 00-1284	EA	16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,000.17	630.90
		For Class 52 Rating, Deduct	*-664.87*	
		For Class 54 Rating, Add	*918.11*	
		For Class 55 Rating, Add	*1,370.81*	
		For Class 56 Rating, Add	*1,817.47*	
40 05 19 00-1285	EA	16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,275.38	633.95
		For Class 52 Rating, Deduct	*-694.63*	
		For Class 54 Rating, Add	*958.76*	
		For Class 55 Rating, Add	*1,431.27*	
		For Class 56 Rating, Add	*1,897.46*	
40 05 19 00-1286	EA	16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,550.61	636.99
		For Class 52 Rating, Deduct	*-724.40*	
		For Class 54 Rating, Add	*999.40*	
		For Class 55 Rating, Add	*1,491.72*	
		For Class 56 Rating, Add	*1,977.46*	
40 05 19 00-1287	EA	16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,825.82	640.04
		For Class 52 Rating, Deduct	*-754.17*	
		For Class 54 Rating, Add	*1,040.05*	
		For Class 55 Rating, Add	*1,552.18*	
		For Class 56 Rating, Add	*2,057.45*	
40 05 19 00-1288	EA	16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,101.03	643.10
		For Class 52 Rating, Deduct	*-783.93*	
		For Class 54 Rating, Add	*1,080.69*	
		For Class 55 Rating, Add	*1,612.63*	
		For Class 56 Rating, Add	*2,137.44*	
40 05 19 00-1289	EA	16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,376.26	646.15
		For Class 52 Rating, Deduct	*-813.70*	
		For Class 54 Rating, Add	*1,121.34*	
		For Class 55 Rating, Add	*1,673.08*	
		For Class 56 Rating, Add	*2,217.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1290	EA	16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,651.47	649.18
		For Class 52 Rating, Deduct	*-843.46*	
		For Class 54 Rating, Add	*1,161.98*	
		For Class 55 Rating, Add	*1,733.54*	
		For Class 56 Rating, Add	*2,297.43*	
40 05 19 00-1291	EA	16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,926.70	652.23
		For Class 52 Rating, Deduct	*-873.23*	
		For Class 54 Rating, Add	*1,202.63*	
		For Class 55 Rating, Add	*1,793.99*	
		For Class 56 Rating, Add	*2,377.42*	
40 05 19 00-1292	EA	16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,201.91	655.28
		For Class 52 Rating, Deduct	*-903.00*	
		For Class 54 Rating, Add	*1,243.27*	
		For Class 55 Rating, Add	*1,854.45*	
		For Class 56 Rating, Add	*2,457.42*	
40 05 19 00-1293	EA	16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,477.12	658.33
		For Class 52 Rating, Deduct	*-932.76*	
		For Class 54 Rating, Add	*1,283.92*	
		For Class 55 Rating, Add	*1,914.90*	
		For Class 56 Rating, Add	*2,537.41*	
40 05 19 00-1294	EA	16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,752.35	661.37
		For Class 52 Rating, Deduct	*-962.53*	
		For Class 54 Rating, Add	*1,324.56*	
		For Class 55 Rating, Add	*1,975.36*	
		For Class 56 Rating, Add	*2,617.40*	
40 05 19 00-1295	EA	16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,027.56	664.42
		For Class 52 Rating, Deduct	*-992.29*	
		For Class 54 Rating, Add	*1,365.21*	
		For Class 55 Rating, Add	*2,035.81*	
		For Class 56 Rating, Add	*2,697.39*	
40 05 19 00-1296	EA	16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,302.78	667.48
		For Class 52 Rating, Deduct	*-1,022.06*	
		For Class 54 Rating, Add	*1,405.85*	
		For Class 55 Rating, Add	*2,096.27*	
		For Class 56 Rating, Add	*2,777.39*	
40 05 19 00-1297	EA	16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,578.00	670.52
		For Class 52 Rating, Deduct	*-1,051.83*	
		For Class 54 Rating, Add	*1,446.50*	
		For Class 55 Rating, Add	*2,156.72*	
		For Class 56 Rating, Add	*2,857.38*	
40 05 19 00-1298	EA	16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,853.22	673.57
		For Class 52 Rating, Deduct	*-1,081.59*	
		For Class 54 Rating, Add	*1,487.15*	
		For Class 55 Rating, Add	*2,217.18*	
		For Class 56 Rating, Add	*2,937.37*	
40 05 19 00-1299	EA	16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,128.44	676.62
		For Class 52 Rating, Deduct	*-1,111.36*	
		For Class 54 Rating, Add	*1,527.79*	
		For Class 55 Rating, Add	*2,277.63*	
		For Class 56 Rating, Add	*3,017.37*	
40 05 19 00-1300	EA	16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,403.65	679.67
		For Class 52 Rating, Deduct	*-1,141.12*	
		For Class 54 Rating, Add	*1,568.44*	
		For Class 55 Rating, Add	*2,338.09*	
		For Class 56 Rating, Add	*3,097.36*	
40 05 19 00-1301	EA	16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,678.86	682.71
		For Class 52 Rating, Deduct	*-1,170.89*	
		For Class 54 Rating, Add	*1,609.08*	
		For Class 55 Rating, Add	*2,398.54*	
		For Class 56 Rating, Add	*3,177.35*	
40 05 19 00-1302	EA	16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,954.08	685.76
		For Class 52 Rating, Deduct	*-1,200.66*	
		For Class 54 Rating, Add	*1,649.73*	
		For Class 55 Rating, Add	*2,458.99*	
		For Class 56 Rating, Add	*3,257.34*	
40 05 19 00-1303	EA	16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,229.30	688.82
		For Class 52 Rating, Deduct	*-1,230.42*	
		For Class 54 Rating, Add	*1,690.37*	
		For Class 55 Rating, Add	*2,519.45*	
		For Class 56 Rating, Add	*3,337.34*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1304	EA	16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,504.51	691.84
		For Class 52 Rating, Deduct	*-1,260.19*	
		For Class 54 Rating, Add	*1,731.02*	
		For Class 55 Rating, Add	*2,579.90*	
		For Class 56 Rating, Add	*3,417.33*	
40 05 19 00-1305	EA	16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,779.73	694.90
		For Class 52 Rating, Deduct	*-1,289.95*	
		For Class 54 Rating, Add	*1,771.66*	
		For Class 55 Rating, Add	*2,640.36*	
		For Class 56 Rating, Add	*3,497.32*	
40 05 19 00-1306	EA	16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,054.95	697.95
		For Class 52 Rating, Deduct	*-1,319.72*	
		For Class 54 Rating, Add	*1,812.31*	
		For Class 55 Rating, Add	*2,700.81*	
		For Class 56 Rating, Add	*3,577.32*	

40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1308	EA	18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,328.04	659.55
		For Class 52 Rating, Deduct	*-256.16*	
		For Class 54 Rating, Add	*361.30*	
		For Class 55 Rating, Add	*543.29*	
		For Class 56 Rating, Add	*722.95*	
40 05 19 00-1309	EA	18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,644.88	662.60
		For Class 52 Rating, Deduct	*-290.50*	
		For Class 54 Rating, Add	*408.19*	
		For Class 55 Rating, Add	*613.03*	
		For Class 56 Rating, Add	*815.22*	
40 05 19 00-1310	EA	18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,961.73	665.64
		For Class 52 Rating, Deduct	*-324.85*	
		For Class 54 Rating, Add	*455.08*	
		For Class 55 Rating, Add	*682.76*	
		For Class 56 Rating, Add	*907.50*	
40 05 19 00-1311	EA	18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,278.58	668.69
		For Class 52 Rating, Deduct	*-359.20*	
		For Class 54 Rating, Add	*501.97*	
		For Class 55 Rating, Add	*752.50*	
		For Class 56 Rating, Add	*999.77*	
40 05 19 00-1312	EA	18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,595.43	671.75
		For Class 52 Rating, Deduct	*-393.54*	
		For Class 54 Rating, Add	*548.86*	
		For Class 55 Rating, Add	*822.24*	
		For Class 56 Rating, Add	*1,092.04*	
40 05 19 00-1313	EA	18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,912.28	674.79
		For Class 52 Rating, Deduct	*-427.89*	
		For Class 54 Rating, Add	*595.75*	
		For Class 55 Rating, Add	*891.98*	
		For Class 56 Rating, Add	*1,184.32*	
40 05 19 00-1314	EA	18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,229.13	677.84
		For Class 52 Rating, Deduct	*-462.23*	
		For Class 54 Rating, Add	*642.64*	
		For Class 55 Rating, Add	*961.72*	
		For Class 56 Rating, Add	*1,276.59*	
40 05 19 00-1315	EA	18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,545.97	680.88
		For Class 52 Rating, Deduct	*-496.58*	
		For Class 54 Rating, Add	*689.53*	
		For Class 55 Rating, Add	*1,031.45*	
		For Class 56 Rating, Add	*1,368.87*	
40 05 19 00-1316	EA	18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,862.82	683.93
		For Class 52 Rating, Deduct	*-530.92*	
		For Class 54 Rating, Add	*736.42*	
		For Class 55 Rating, Add	*1,101.19*	
		For Class 56 Rating, Add	*1,461.14*	
40 05 19 00-1317	EA	18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,179.67	686.97
		For Class 52 Rating, Deduct	*-565.27*	
		For Class 54 Rating, Add	*783.31*	
		For Class 55 Rating, Add	*1,170.93*	
		For Class 56 Rating, Add	*1,553.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1318	EA	18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,496.51	690.02
		For Class 52 Rating, Deduct	*-599.61*	
		For Class 54 Rating, Add	*830.20*	
		For Class 55 Rating, Add	*1,240.67*	
		For Class 56 Rating, Add	*1,645.69*	
40 05 19 00-1319	EA	18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,813.37	693.07
		For Class 52 Rating, Deduct	*-633.96*	
		For Class 54 Rating, Add	*877.09*	
		For Class 55 Rating, Add	*1,310.41*	
		For Class 56 Rating, Add	*1,737.96*	
40 05 19 00-1320	EA	18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,130.21	696.11
		For Class 52 Rating, Deduct	*-668.30*	
		For Class 54 Rating, Add	*923.98*	
		For Class 55 Rating, Add	*1,380.15*	
		For Class 56 Rating, Add	*1,830.24*	
40 05 19 00-1321	EA	18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,447.06	699.17
		For Class 52 Rating, Deduct	*-702.65*	
		For Class 54 Rating, Add	*970.87*	
		For Class 55 Rating, Add	*1,449.88*	
		For Class 56 Rating, Add	*1,922.51*	
40 05 19 00-1322	EA	18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,763.91	702.22
		For Class 52 Rating, Deduct	*-736.99*	
		For Class 54 Rating, Add	*1,017.76*	
		For Class 55 Rating, Add	*1,519.62*	
		For Class 56 Rating, Add	*2,014.79*	
40 05 19 00-1323	EA	18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,080.75	705.27
		For Class 52 Rating, Deduct	*-771.34*	
		For Class 54 Rating, Add	*1,064.65*	
		For Class 55 Rating, Add	*1,589.36*	
		For Class 56 Rating, Add	*2,107.06*	
40 05 19 00-1324	EA	18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,397.61	708.31
		For Class 52 Rating, Deduct	*-805.68*	
		For Class 54 Rating, Add	*1,111.54*	
		For Class 55 Rating, Add	*1,659.10*	
		For Class 56 Rating, Add	*2,199.33*	
40 05 19 00-1325	EA	18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,714.46	711.36
		For Class 52 Rating, Deduct	*-840.03*	
		For Class 54 Rating, Add	*1,158.43*	
		For Class 55 Rating, Add	*1,728.84*	
		For Class 56 Rating, Add	*2,291.61*	
40 05 19 00-1326	EA	18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,031.30	714.41
		For Class 52 Rating, Deduct	*-874.38*	
		For Class 54 Rating, Add	*1,205.32*	
		For Class 55 Rating, Add	*1,798.58*	
		For Class 56 Rating, Add	*2,383.88*	
40 05 19 00-1327	EA	18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,348.16	717.45
		For Class 52 Rating, Deduct	*-908.72*	
		For Class 54 Rating, Add	*1,252.21*	
		For Class 55 Rating, Add	*1,868.31*	
		For Class 56 Rating, Add	*2,476.16*	
40 05 19 00-1328	EA	18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,665.00	720.51
		For Class 52 Rating, Deduct	*-943.07*	
		For Class 54 Rating, Add	*1,299.10*	
		For Class 55 Rating, Add	*1,938.05*	
		For Class 56 Rating, Add	*2,568.43*	
40 05 19 00-1329	EA	18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,981.86	723.56
		For Class 52 Rating, Deduct	*-977.41*	
		For Class 54 Rating, Add	*1,345.99*	
		For Class 55 Rating, Add	*2,007.79*	
		For Class 56 Rating, Add	*2,660.71*	
40 05 19 00-1330	EA	18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,298.70	726.60
		For Class 52 Rating, Deduct	*-1,011.76*	
		For Class 54 Rating, Add	*1,392.88*	
		For Class 55 Rating, Add	*2,077.53*	
		For Class 56 Rating, Add	*2,752.98*	
40 05 19 00-1331	EA	18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,615.54	729.64
		For Class 52 Rating, Deduct	*-1,046.10*	
		For Class 54 Rating, Add	*1,439.77*	
		For Class 55 Rating, Add	*2,147.27*	
		For Class 56 Rating, Add	*2,845.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1332	EA	18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,932.40	732.69
		For Class 52 Rating, Deduct	*-1,080.45*	
		For Class 54 Rating, Add	*1,486.66*	
		For Class 55 Rating, Add	*2,217.01*	
		For Class 56 Rating, Add	*2,937.53*	
40 05 19 00-1333	EA	18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,249.24	735.74
		For Class 52 Rating, Deduct	*-1,114.79*	
		For Class 54 Rating, Add	*1,533.55*	
		For Class 55 Rating, Add	*2,286.74*	
		For Class 56 Rating, Add	*3,029.80*	
40 05 19 00-1334	EA	18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,566.10	738.79
		For Class 52 Rating, Deduct	*-1,149.14*	
		For Class 54 Rating, Add	*1,580.44*	
		For Class 55 Rating, Add	*2,356.48*	
		For Class 56 Rating, Add	*3,122.08*	
40 05 19 00-1335	EA	18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,882.94	741.83
		For Class 52 Rating, Deduct	*-1,183.48*	
		For Class 54 Rating, Add	*1,627.33*	
		For Class 55 Rating, Add	*2,426.22*	
		For Class 56 Rating, Add	*3,214.35*	
40 05 19 00-1336	EA	18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,199.79	744.89
		For Class 52 Rating, Deduct	*-1,217.83*	
		For Class 54 Rating, Add	*1,674.22*	
		For Class 55 Rating, Add	*2,495.96*	
		For Class 56 Rating, Add	*3,306.63*	
40 05 19 00-1337	EA	18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,516.64	747.94
		For Class 52 Rating, Deduct	*-1,252.17*	
		For Class 54 Rating, Add	*1,721.11*	
		For Class 55 Rating, Add	*2,565.70*	
		For Class 56 Rating, Add	*3,398.90*	
40 05 19 00-1338	EA	18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,833.48	750.98
		For Class 52 Rating, Deduct	*-1,286.52*	
		For Class 54 Rating, Add	*1,768.00*	
		For Class 55 Rating, Add	*2,635.43*	
		For Class 56 Rating, Add	*3,491.17*	
40 05 19 00-1339	EA	18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,150.33	754.03
		For Class 52 Rating, Deduct	*-1,320.86*	
		For Class 54 Rating, Add	*1,814.89*	
		For Class 55 Rating, Add	*2,705.17*	
		For Class 56 Rating, Add	*3,583.45*	
40 05 19 00-1340	EA	18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,467.18	757.08
		For Class 52 Rating, Deduct	*-1,355.21*	
		For Class 54 Rating, Add	*1,861.78*	
		For Class 55 Rating, Add	*2,774.91*	
		For Class 56 Rating, Add	*3,675.72*	
40 05 19 00-1341	EA	18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,784.03	760.13
		For Class 52 Rating, Deduct	*-1,389.56*	
		For Class 54 Rating, Add	*1,908.67*	
		For Class 55 Rating, Add	*2,844.65*	
		For Class 56 Rating, Add	*3,768.00*	
40 05 19 00-1342	EA	18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,100.88	763.17
		For Class 52 Rating, Deduct	*-1,423.90*	
		For Class 54 Rating, Add	*1,955.56*	
		For Class 55 Rating, Add	*2,914.39*	
		For Class 56 Rating, Add	*3,860.27*	
40 05 19 00-1343	EA	18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,417.72	766.23
		For Class 52 Rating, Deduct	*-1,458.25*	
		For Class 54 Rating, Add	*2,002.45*	
		For Class 55 Rating, Add	*2,984.12*	
		For Class 56 Rating, Add	*3,952.54*	
40 05 19 00-1344	EA	18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,734.57	769.28
		For Class 52 Rating, Deduct	*-1,492.59*	
		For Class 54 Rating, Add	*2,049.34*	
		For Class 55 Rating, Add	*3,053.86*	
		For Class 56 Rating, Add	*4,044.82*	
40 05 19 00-1345	EA	18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,051.42	772.31
		For Class 52 Rating, Deduct	*-1,526.94*	
		For Class 54 Rating, Add	*2,096.23*	
		For Class 55 Rating, Add	*3,123.60*	
		For Class 56 Rating, Add	*4,137.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346		20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*		
40 05 19 00-1347	EA	20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,883.04	752.81
		For Class 52 Rating, Deduct	*-301.67*	
		For Class 54 Rating, Add	*425.05*	
		For Class 55 Rating, Add	*638.93*	
		For Class 56 Rating, Add	*850.08*	
40 05 19 00-1348	EA	20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,246.73	755.86
		For Class 52 Rating, Deduct	*-341.16*	
		For Class 54 Rating, Add	*478.97*	
		For Class 55 Rating, Add	*719.12*	
		For Class 56 Rating, Add	*956.17*	
40 05 19 00-1349	EA	20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,610.41	758.90
		For Class 52 Rating, Deduct	*-380.66*	
		For Class 54 Rating, Add	*532.88*	
		For Class 55 Rating, Add	*799.30*	
		For Class 56 Rating, Add	*1,062.26*	
40 05 19 00-1350	EA	20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,974.09	761.96
		For Class 52 Rating, Deduct	*-420.16*	
		For Class 54 Rating, Add	*586.80*	
		For Class 55 Rating, Add	*879.48*	
		For Class 56 Rating, Add	*1,168.35*	
40 05 19 00-1351	EA	20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,337.78	765.01
		For Class 52 Rating, Deduct	*-459.65*	
		For Class 54 Rating, Add	*640.71*	
		For Class 55 Rating, Add	*959.66*	
		For Class 56 Rating, Add	*1,274.44*	
40 05 19 00-1352	EA	20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,701.46	768.05
		For Class 52 Rating, Deduct	*-499.15*	
		For Class 54 Rating, Add	*694.63*	
		For Class 55 Rating, Add	*1,039.85*	
		For Class 56 Rating, Add	*1,380.53*	
40 05 19 00-1353	EA	20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,065.14	771.10
		For Class 52 Rating, Deduct	*-538.65*	
		For Class 54 Rating, Add	*748.54*	
		For Class 55 Rating, Add	*1,120.03*	
		For Class 56 Rating, Add	*1,486.62*	
40 05 19 00-1354	EA	20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,428.83	774.15
		For Class 52 Rating, Deduct	*-578.15*	
		For Class 54 Rating, Add	*802.46*	
		For Class 55 Rating, Add	*1,200.21*	
		For Class 56 Rating, Add	*1,592.71*	
40 05 19 00-1355	EA	20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,792.50	777.20
		For Class 52 Rating, Deduct	*-617.64*	
		For Class 54 Rating, Add	*856.37*	
		For Class 55 Rating, Add	*1,280.39*	
		For Class 56 Rating, Add	*1,698.80*	
40 05 19 00-1356	EA	20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,156.20	780.23
		For Class 52 Rating, Deduct	*-657.14*	
		For Class 54 Rating, Add	*910.29*	
		For Class 55 Rating, Add	*1,360.58*	
		For Class 56 Rating, Add	*1,804.89*	
40 05 19 00-1357	EA	20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,519.87	783.28
		For Class 52 Rating, Deduct	*-696.64*	
		For Class 54 Rating, Add	*964.20*	
		For Class 55 Rating, Add	*1,440.76*	
		For Class 56 Rating, Add	*1,910.98*	
40 05 19 00-1358	EA	20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,883.56	786.34
		For Class 52 Rating, Deduct	*-736.14*	
		For Class 54 Rating, Add	*1,018.12*	
		For Class 55 Rating, Add	*1,520.94*	
		For Class 56 Rating, Add	*2,017.07*	
40 05 19 00-1359	EA	20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,247.24	789.38
		For Class 52 Rating, Deduct	*-775.63*	
		For Class 54 Rating, Add	*1,072.03*	
		For Class 55 Rating, Add	*1,601.12*	
		For Class 56 Rating, Add	*2,123.16*	
40 05 19 00-1360	EA	20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,610.92	792.43
		For Class 52 Rating, Deduct	*-815.13*	
		For Class 54 Rating, Add	*1,125.95*	
		For Class 55 Rating, Add	*1,681.31*	
		For Class 56 Rating, Add	*2,229.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1361	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,974.60	795.48
		For Class 52 Rating, Deduct	*-854.63*	
		For Class 54 Rating, Add	*1,179.86*	
		For Class 55 Rating, Add	*1,761.49*	
		For Class 56 Rating, Add	*2,335.34*	
40 05 19 00-1362	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,338.29	798.53
		For Class 52 Rating, Deduct	*-894.12*	
		For Class 54 Rating, Add	*1,233.78*	
		For Class 55 Rating, Add	*1,841.67*	
		For Class 56 Rating, Add	*2,441.43*	
40 05 19 00-1363	EA	20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,701.97	801.57
		For Class 52 Rating, Deduct	*-933.62*	
		For Class 54 Rating, Add	*1,287.69*	
		For Class 55 Rating, Add	*1,921.85*	
		For Class 56 Rating, Add	*2,547.52*	
40 05 19 00-1364	EA	20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,065.66	804.62
		For Class 52 Rating, Deduct	*-973.12*	
		For Class 54 Rating, Add	*1,341.61*	
		For Class 55 Rating, Add	*2,002.04*	
		For Class 56 Rating, Add	*2,653.62*	
40 05 19 00-1365	EA	20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,429.34	807.68
		For Class 52 Rating, Deduct	*-1,012.61*	
		For Class 54 Rating, Add	*1,395.52*	
		For Class 55 Rating, Add	*2,082.22*	
		For Class 56 Rating, Add	*2,759.70*	
40 05 19 00-1366	EA	20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,793.02	810.73
		For Class 52 Rating, Deduct	*-1,052.11*	
		For Class 54 Rating, Add	*1,449.44*	
		For Class 55 Rating, Add	*2,162.40*	
		For Class 56 Rating, Add	*2,865.80*	
40 05 19 00-1367	EA	20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,156.70	813.77
		For Class 52 Rating, Deduct	*-1,091.61*	
		For Class 54 Rating, Add	*1,503.35*	
		For Class 55 Rating, Add	*2,242.58*	
		For Class 56 Rating, Add	*2,971.88*	
40 05 19 00-1368	EA	20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,520.39	816.82
		For Class 52 Rating, Deduct	*-1,131.11*	
		For Class 54 Rating, Add	*1,557.27*	
		For Class 55 Rating, Add	*2,322.76*	
		For Class 56 Rating, Add	*3,077.98*	
40 05 19 00-1369	EA	20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,884.06	819.87
		For Class 52 Rating, Deduct	*-1,170.60*	
		For Class 54 Rating, Add	*1,611.18*	
		For Class 55 Rating, Add	*2,402.95*	
		For Class 56 Rating, Add	*3,184.07*	
40 05 19 00-1370	EA	20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,247.76	822.90
		For Class 52 Rating, Deduct	*-1,210.10*	
		For Class 54 Rating, Add	*1,665.10*	
		For Class 55 Rating, Add	*2,483.13*	
		For Class 56 Rating, Add	*3,290.16*	
40 05 19 00-1371	EA	20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,611.43	825.95
		For Class 52 Rating, Deduct	*-1,249.60*	
		For Class 54 Rating, Add	*1,719.01*	
		For Class 55 Rating, Add	*2,563.31*	
		For Class 56 Rating, Add	*3,396.25*	
40 05 19 00-1372	EA	20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,975.12	829.00
		For Class 52 Rating, Deduct	*-1,289.10*	
		For Class 54 Rating, Add	*1,772.93*	
		For Class 55 Rating, Add	*2,643.49*	
		For Class 56 Rating, Add	*3,502.34*	
40 05 19 00-1373	EA	20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,338.80	832.06
		For Class 52 Rating, Deduct	*-1,328.59*	
		For Class 54 Rating, Add	*1,826.84*	
		For Class 55 Rating, Add	*2,723.68*	
		For Class 56 Rating, Add	*3,608.43*	
40 05 19 00-1374	EA	20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,702.48	835.10
		For Class 52 Rating, Deduct	*-1,368.09*	
		For Class 54 Rating, Add	*1,880.76*	
		For Class 55 Rating, Add	*2,803.86*	
		For Class 56 Rating, Add	*3,714.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1375	EA	20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,066.17	838.15
		For Class 52 Rating, Deduct	*-1,407.59*	
		For Class 54 Rating, Add	*1,934.68*	
		For Class 55 Rating, Add	*2,884.04*	
		For Class 56 Rating, Add	*3,820.61*	
40 05 19 00-1376	EA	20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,429.85	841.20
		For Class 52 Rating, Deduct	*-1,447.08*	
		For Class 54 Rating, Add	*1,988.59*	
		For Class 55 Rating, Add	*2,964.22*	
		For Class 56 Rating, Add	*3,926.70*	
40 05 19 00-1377	EA	20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,793.53	844.24
		For Class 52 Rating, Deduct	*-1,486.58*	
		For Class 54 Rating, Add	*2,042.51*	
		For Class 55 Rating, Add	*3,044.40*	
		For Class 56 Rating, Add	*4,032.79*	
40 05 19 00-1378	EA	20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,157.22	847.29
		For Class 52 Rating, Deduct	*-1,526.08*	
		For Class 54 Rating, Add	*2,096.42*	
		For Class 55 Rating, Add	*3,124.59*	
		For Class 56 Rating, Add	*4,138.88*	
40 05 19 00-1379	EA	20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,520.89	850.34
		For Class 52 Rating, Deduct	*-1,565.58*	
		For Class 54 Rating, Add	*2,150.34*	
		For Class 55 Rating, Add	*3,204.77*	
		For Class 56 Rating, Add	*4,244.97*	
40 05 19 00-1380	EA	20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,884.59	853.40
		For Class 52 Rating, Deduct	*-1,605.07*	
		For Class 54 Rating, Add	*2,204.25*	
		For Class 55 Rating, Add	*3,284.95*	
		For Class 56 Rating, Add	*4,351.06*	
40 05 19 00-1381	EA	20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,248.26	856.44
		For Class 52 Rating, Deduct	*-1,644.57*	
		For Class 54 Rating, Add	*2,258.17*	
		For Class 55 Rating, Add	*3,365.13*	
		For Class 56 Rating, Add	*4,457.15*	
40 05 19 00-1382	EA	20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,611.95	859.49
		For Class 52 Rating, Deduct	*-1,684.07*	
		For Class 54 Rating, Add	*2,312.08*	
		For Class 55 Rating, Add	*3,445.32*	
		For Class 56 Rating, Add	*4,563.24*	
40 05 19 00-1383	EA	20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,975.63	862.54
		For Class 52 Rating, Deduct	*-1,723.56*	
		For Class 54 Rating, Add	*2,366.00*	
		For Class 55 Rating, Add	*3,525.50*	
		For Class 56 Rating, Add	*4,669.33*	
40 05 19 00-1384	EA	20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,339.31	865.57
		For Class 52 Rating, Deduct	*-1,763.06*	
		For Class 54 Rating, Add	*2,419.91*	
		For Class 55 Rating, Add	*3,605.68*	
		For Class 56 Rating, Add	*4,775.42*	

40 05 19 00-1385 24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1386	EA	24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,772.56	889.96
		For Class 52 Rating, Deduct	*-376.65*	
		For Class 54 Rating, Add	*529.80*	
		For Class 55 Rating, Add	*795.94*	
		For Class 56 Rating, Add	*1,058.66*	
40 05 19 00-1387	EA	24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,222.11	893.01
		For Class 52 Rating, Deduct	*-425.60*	
		For Class 54 Rating, Add	*596.60*	
		For Class 55 Rating, Add	*895.27*	
		For Class 56 Rating, Add	*1,190.08*	
40 05 19 00-1388	EA	24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,671.64	896.06
		For Class 52 Rating, Deduct	*-474.54*	
		For Class 54 Rating, Add	*663.39*	
		For Class 55 Rating, Add	*994.60*	
		For Class 56 Rating, Add	*1,321.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1389	EA	24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,121.19	899.10
		For Class 52 Rating, Deduct	*-523.48*	
		For Class 54 Rating, Add	*730.18*	
		For Class 55 Rating, Add	*1,093.93*	
		For Class 56 Rating, Add	*1,452.92*	
40 05 19 00-1390	EA	24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,570.74	902.16
		For Class 52 Rating, Deduct	*-572.42*	
		For Class 54 Rating, Add	*796.98*	
		For Class 55 Rating, Add	*1,193.26*	
		For Class 56 Rating, Add	*1,584.34*	
40 05 19 00-1391	EA	24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,020.29	905.21
		For Class 52 Rating, Deduct	*-621.36*	
		For Class 54 Rating, Add	*863.77*	
		For Class 55 Rating, Add	*1,292.59*	
		For Class 56 Rating, Add	*1,715.76*	
40 05 19 00-1392	EA	24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,469.83	908.26
		For Class 52 Rating, Deduct	*-670.31*	
		For Class 54 Rating, Add	*930.57*	
		For Class 55 Rating, Add	*1,391.92*	
		For Class 56 Rating, Add	*1,847.18*	
40 05 19 00-1393	EA	24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,919.37	911.29
		For Class 52 Rating, Deduct	*-719.25*	
		For Class 54 Rating, Add	*997.36*	
		For Class 55 Rating, Add	*1,491.25*	
		For Class 56 Rating, Add	*1,978.60*	
40 05 19 00-1394	EA	24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,368.92	914.34
		For Class 52 Rating, Deduct	*-768.19*	
		For Class 54 Rating, Add	*1,064.16*	
		For Class 55 Rating, Add	*1,590.58*	
		For Class 56 Rating, Add	*2,110.02*	
40 05 19 00-1395	EA	24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,818.47	917.39
		For Class 52 Rating, Deduct	*-817.13*	
		For Class 54 Rating, Add	*1,130.95*	
		For Class 55 Rating, Add	*1,689.91*	
		For Class 56 Rating, Add	*2,241.44*	
40 05 19 00-1396	EA	24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,268.02	920.43
		For Class 52 Rating, Deduct	*-866.08*	
		For Class 54 Rating, Add	*1,197.75*	
		For Class 55 Rating, Add	*1,789.24*	
		For Class 56 Rating, Add	*2,372.86*	
40 05 19 00-1397	EA	24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,717.56	923.48
		For Class 52 Rating, Deduct	*-915.02*	
		For Class 54 Rating, Add	*1,264.54*	
		For Class 55 Rating, Add	*1,888.57*	
		For Class 56 Rating, Add	*2,504.28*	
40 05 19 00-1398	EA	24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,167.12	926.54
		For Class 52 Rating, Deduct	*-963.96*	
		For Class 54 Rating, Add	*1,331.34*	
		For Class 55 Rating, Add	*1,987.90*	
		For Class 56 Rating, Add	*2,635.70*	
40 05 19 00-1399	EA	24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,616.65	929.59
		For Class 52 Rating, Deduct	*-1,012.90*	
		For Class 54 Rating, Add	*1,398.13*	
		For Class 55 Rating, Add	*2,087.23*	
		For Class 56 Rating, Add	*2,767.12*	
40 05 19 00-1400	EA	24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,066.20	932.63
		For Class 52 Rating, Deduct	*-1,061.84*	
		For Class 54 Rating, Add	*1,464.92*	
		For Class 55 Rating, Add	*2,186.56*	
		For Class 56 Rating, Add	*2,898.54*	
40 05 19 00-1401	EA	24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,515.75	935.68
		For Class 52 Rating, Deduct	*-1,110.79*	
		For Class 54 Rating, Add	*1,531.72*	
		For Class 55 Rating, Add	*2,285.89*	
		For Class 56 Rating, Add	*3,029.96*	
40 05 19 00-1402	EA	24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,965.29	938.73
		For Class 52 Rating, Deduct	*-1,159.73*	
		For Class 54 Rating, Add	*1,598.51*	
		For Class 55 Rating, Add	*2,385.22*	
		For Class 56 Rating, Add	*3,161.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1403	EA	24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,414.85	941.77
		For Class 52 Rating, Deduct	*-1,208.67*	
		For Class 54 Rating, Add	*1,665.31*	
		For Class 55 Rating, Add	*2,484.55*	
		For Class 56 Rating, Add	*3,292.80*	
40 05 19 00-1404	EA	24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,864.39	944.82
		For Class 52 Rating, Deduct	*-1,257.61*	
		For Class 54 Rating, Add	*1,732.10*	
		For Class 55 Rating, Add	*2,583.88*	
		For Class 56 Rating, Add	*3,424.22*	
40 05 19 00-1405	EA	24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,313.92	947.88
		For Class 52 Rating, Deduct	*-1,306.55*	
		For Class 54 Rating, Add	*1,798.90*	
		For Class 55 Rating, Add	*2,683.21*	
		For Class 56 Rating, Add	*3,555.64*	
40 05 19 00-1406	EA	24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,763.48	950.93
		For Class 52 Rating, Deduct	*-1,355.50*	
		For Class 54 Rating, Add	*1,865.69*	
		For Class 55 Rating, Add	*2,782.54*	
		For Class 56 Rating, Add	*3,687.06*	
40 05 19 00-1407	EA	24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,213.02	953.96
		For Class 52 Rating, Deduct	*-1,404.44*	
		For Class 54 Rating, Add	*1,932.49*	
		For Class 55 Rating, Add	*2,881.87*	
		For Class 56 Rating, Add	*3,818.48*	
40 05 19 00-1408	EA	24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,662.58	957.01
		For Class 52 Rating, Deduct	*-1,453.38*	
		For Class 54 Rating, Add	*1,999.28*	
		For Class 55 Rating, Add	*2,981.20*	
		For Class 56 Rating, Add	*3,949.90*	
40 05 19 00-1409	EA	24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,112.12	960.06
		For Class 52 Rating, Deduct	*-1,502.32*	
		For Class 54 Rating, Add	*2,066.08*	
		For Class 55 Rating, Add	*3,080.53*	
		For Class 56 Rating, Add	*4,081.32*	
40 05 19 00-1410	EA	24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,561.66	963.11
		For Class 52 Rating, Deduct	*-1,551.27*	
		For Class 54 Rating, Add	*2,132.87*	
		For Class 55 Rating, Add	*3,179.86*	
		For Class 56 Rating, Add	*4,212.74*	
40 05 19 00-1411	EA	24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,011.21	966.15
		For Class 52 Rating, Deduct	*-1,600.21*	
		For Class 54 Rating, Add	*2,199.67*	
		For Class 55 Rating, Add	*3,279.19*	
		For Class 56 Rating, Add	*4,344.16*	
40 05 19 00-1412	EA	24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,460.75	969.20
		For Class 52 Rating, Deduct	*-1,649.15*	
		For Class 54 Rating, Add	*2,266.46*	
		For Class 55 Rating, Add	*3,378.52*	
		For Class 56 Rating, Add	*4,475.58*	
40 05 19 00-1413	EA	24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,910.30	972.26
		For Class 52 Rating, Deduct	*-1,698.09*	
		For Class 54 Rating, Add	*2,333.26*	
		For Class 55 Rating, Add	*3,477.85*	
		For Class 56 Rating, Add	*4,607.00*	
40 05 19 00-1414	EA	24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,359.85	975.30
		For Class 52 Rating, Deduct	*-1,747.03*	
		For Class 54 Rating, Add	*2,400.05*	
		For Class 55 Rating, Add	*3,577.18*	
		For Class 56 Rating, Add	*4,738.42*	
40 05 19 00-1415	EA	24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,887.90	1,030.16
		For Class 52 Rating, Deduct	*-1,795.98*	
		For Class 54 Rating, Add	*2,467.79*	
		For Class 55 Rating, Add	*3,678.39*	
		For Class 56 Rating, Add	*4,872.67*	
40 05 19 00-1416	EA	24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,337.45	1,033.21
		For Class 52 Rating, Deduct	*-1,844.92*	
		For Class 54 Rating, Add	*2,534.58*	
		For Class 55 Rating, Add	*3,777.72*	
		For Class 56 Rating, Add	*5,004.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1417	EA	24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,786.98	1,036.26
		For Class 52 Rating, Deduct	*-1,893.86*	
		For Class 54 Rating, Add	*2,601.38*	
		For Class 55 Rating, Add	*3,877.05*	
		For Class 56 Rating, Add	*5,135.51*	
40 05 19 00-1418	EA	24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,236.54	1,039.32
		For Class 52 Rating, Deduct	*-1,942.80*	
		For Class 54 Rating, Add	*2,668.17*	
		For Class 55 Rating, Add	*3,976.38*	
		For Class 56 Rating, Add	*5,266.93*	
40 05 19 00-1419	EA	24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,686.08	1,042.35
		For Class 52 Rating, Deduct	*-1,991.74*	
		For Class 54 Rating, Add	*2,734.97*	
		For Class 55 Rating, Add	*4,075.71*	
		For Class 56 Rating, Add	*5,398.35*	
40 05 19 00-1420	EA	24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,135.63	1,045.40
		For Class 52 Rating, Deduct	*-2,040.69*	
		For Class 54 Rating, Add	*2,801.76*	
		For Class 55 Rating, Add	*4,175.04*	
		For Class 56 Rating, Add	*5,529.77*	
40 05 19 00-1421	EA	24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,585.18	1,048.45
		For Class 52 Rating, Deduct	*-2,089.63*	
		For Class 54 Rating, Add	*2,868.56*	
		For Class 55 Rating, Add	*4,274.37*	
		For Class 56 Rating, Add	*5,661.19*	
40 05 19 00-1422	EA	24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,034.72	1,051.49
		For Class 52 Rating, Deduct	*-2,138.57*	
		For Class 54 Rating, Add	*2,935.35*	
		For Class 55 Rating, Add	*4,373.70*	
		For Class 56 Rating, Add	*5,792.61*	
40 05 19 00-1423	EA	24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,484.27	1,054.54
		For Class 52 Rating, Deduct	*-2,187.51*	
		For Class 54 Rating, Add	*3,002.14*	
		For Class 55 Rating, Add	*4,473.03*	
		For Class 56 Rating, Add	*5,924.03*	

40 05 19 00-1424 30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1425	EA	30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,314.57	1,255.71
		For Class 52 Rating, Deduct	*-595.32*	
		For Class 54 Rating, Add	*834.63*	
		For Class 55 Rating, Add	*1,252.54*	
		For Class 56 Rating, Add	*1,665.03*	
40 05 19 00-1426	EA	30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,961.86	1,258.75
		For Class 52 Rating, Deduct	*-666.01*	
		For Class 54 Rating, Add	*931.09*	
		For Class 55 Rating, Add	*1,395.96*	
		For Class 56 Rating, Add	*1,854.79*	
40 05 19 00-1427	EA	30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,609.16	1,261.80
		For Class 52 Rating, Deduct	*-736.71*	
		For Class 54 Rating, Add	*1,027.54*	
		For Class 55 Rating, Add	*1,539.39*	
		For Class 56 Rating, Add	*2,044.54*	
40 05 19 00-1428	EA	30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,256.45	1,264.85
		For Class 52 Rating, Deduct	*-807.40*	
		For Class 54 Rating, Add	*1,124.00*	
		For Class 55 Rating, Add	*1,682.82*	
		For Class 56 Rating, Add	*2,234.30*	
40 05 19 00-1429	EA	30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,903.73	1,267.90
		For Class 52 Rating, Deduct	*-878.10*	
		For Class 54 Rating, Add	*1,220.46*	
		For Class 55 Rating, Add	*1,826.24*	
		For Class 56 Rating, Add	*2,424.05*	
40 05 19 00-1430	EA	30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,551.03	1,270.93
		For Class 52 Rating, Deduct	*-948.79*	
		For Class 54 Rating, Add	*1,316.91*	
		For Class 55 Rating, Add	*1,969.67*	
		For Class 56 Rating, Add	*2,613.81*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431	EA	30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,198.32	1,273.98
		For Class 52 Rating, Deduct	*-1,019.48*	
		For Class 54 Rating, Add	*1,413.37*	
		For Class 55 Rating, Add	*2,113.10*	
		For Class 56 Rating, Add	*2,803.56*	
40 05 19 00-1432	EA	30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,845.62	1,277.04
		For Class 52 Rating, Deduct	*-1,090.18*	
		For Class 54 Rating, Add	*1,509.83*	
		For Class 55 Rating, Add	*2,256.53*	
		For Class 56 Rating, Add	*2,993.32*	
40 05 19 00-1433	EA	30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,492.91	1,280.08
		For Class 52 Rating, Deduct	*-1,160.87*	
		For Class 54 Rating, Add	*1,606.28*	
		For Class 55 Rating, Add	*2,399.95*	
		For Class 56 Rating, Add	*3,183.07*	
40 05 19 00-1434	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,140.19	1,283.13
		For Class 52 Rating, Deduct	*-1,231.57*	
		For Class 54 Rating, Add	*1,702.74*	
		For Class 55 Rating, Add	*2,543.38*	
		For Class 56 Rating, Add	*3,372.83*	
40 05 19 00-1435	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,787.50	1,286.18
		For Class 52 Rating, Deduct	*-1,302.26*	
		For Class 54 Rating, Add	*1,799.20*	
		For Class 55 Rating, Add	*2,686.81*	
		For Class 56 Rating, Add	*3,562.58*	
40 05 19 00-1436	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,434.78	1,289.23
		For Class 52 Rating, Deduct	*-1,372.96*	
		For Class 54 Rating, Add	*1,895.65*	
		For Class 55 Rating, Add	*2,830.24*	
		For Class 56 Rating, Add	*3,752.34*	
40 05 19 00-1437	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,082.07	1,292.27
		For Class 52 Rating, Deduct	*-1,443.65*	
		For Class 54 Rating, Add	*1,992.11*	
		For Class 55 Rating, Add	*2,973.66*	
		For Class 56 Rating, Add	*3,942.09*	
40 05 19 00-1438	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,729.37	1,295.32
		For Class 52 Rating, Deduct	*-1,514.34*	
		For Class 54 Rating, Add	*2,088.57*	
		For Class 55 Rating, Add	*3,117.09*	
		For Class 56 Rating, Add	*4,131.85*	
40 05 19 00-1439	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,376.65	1,298.38
		For Class 52 Rating, Deduct	*-1,585.04*	
		For Class 54 Rating, Add	*2,185.02*	
		For Class 55 Rating, Add	*3,260.52*	
		For Class 56 Rating, Add	*4,321.60*	
40 05 19 00-1440	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,023.96	1,301.42
		For Class 52 Rating, Deduct	*-1,655.73*	
		For Class 54 Rating, Add	*2,281.48*	
		For Class 55 Rating, Add	*3,403.94*	
		For Class 56 Rating, Add	*4,511.36*	
40 05 19 00-1441	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,671.24	1,304.47
		For Class 52 Rating, Deduct	*-1,726.43*	
		For Class 54 Rating, Add	*2,377.93*	
		For Class 55 Rating, Add	*3,547.37*	
		For Class 56 Rating, Add	*4,701.11*	
40 05 19 00-1442	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,318.54	1,307.52
		For Class 52 Rating, Deduct	*-1,797.12*	
		For Class 54 Rating, Add	*2,474.39*	
		For Class 55 Rating, Add	*3,690.80*	
		For Class 56 Rating, Add	*4,890.87*	
40 05 19 00-1443	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,965.83	1,310.57
		For Class 52 Rating, Deduct	*-1,867.81*	
		For Class 54 Rating, Add	*2,570.85*	
		For Class 55 Rating, Add	*3,834.23*	
		For Class 56 Rating, Add	*5,080.62*	
40 05 19 00-1444	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,613.12	1,313.60
		For Class 52 Rating, Deduct	*-1,938.51*	
		For Class 54 Rating, Add	*2,667.30*	
		For Class 55 Rating, Add	*3,977.65*	
		For Class 56 Rating, Add	*5,270.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1445	EA	30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,260.42	1,316.65
		For Class 52 Rating, Deduct	*-2,009.20*	
		For Class 54 Rating, Add	*2,763.76*	
		For Class 55 Rating, Add	*4,121.08*	
		For Class 56 Rating, Add	*5,460.13*	
40 05 19 00-1446	EA	30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,907.70	1,319.70
		For Class 52 Rating, Deduct	*-2,079.90*	
		For Class 54 Rating, Add	*2,860.22*	
		For Class 55 Rating, Add	*4,264.51*	
		For Class 56 Rating, Add	*5,649.89*	
40 05 19 00-1447	EA	30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,555.00	1,322.74
		For Class 52 Rating, Deduct	*-2,150.59*	
		For Class 54 Rating, Add	*2,956.67*	
		For Class 55 Rating, Add	*4,407.94*	
		For Class 56 Rating, Add	*5,839.64*	
40 05 19 00-1448	EA	30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,202.29	1,325.80
		For Class 52 Rating, Deduct	*-2,221.29*	
		For Class 54 Rating, Add	*3,053.13*	
		For Class 55 Rating, Add	*4,551.36*	
		For Class 56 Rating, Add	*6,029.40*	
40 05 19 00-1449	EA	30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,849.59	1,328.85
		For Class 52 Rating, Deduct	*-2,291.98*	
		For Class 54 Rating, Add	*3,149.59*	
		For Class 55 Rating, Add	*4,694.79*	
		For Class 56 Rating, Add	*6,219.16*	
40 05 19 00-1450	EA	30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,496.87	1,331.90
		For Class 52 Rating, Deduct	*-2,362.67*	
		For Class 54 Rating, Add	*3,246.04*	
		For Class 55 Rating, Add	*4,838.22*	
		For Class 56 Rating, Add	*6,408.91*	
40 05 19 00-1451	EA	30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,144.16	1,334.94
		For Class 52 Rating, Deduct	*-2,433.37*	
		For Class 54 Rating, Add	*3,342.50*	
		For Class 55 Rating, Add	*4,981.64*	
		For Class 56 Rating, Add	*6,598.66*	
40 05 19 00-1452	EA	30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,791.46	1,337.99
		For Class 52 Rating, Deduct	*-2,504.06*	
		For Class 54 Rating, Add	*3,438.96*	
		For Class 55 Rating, Add	*5,125.07*	
		For Class 56 Rating, Add	*6,788.42*	
40 05 19 00-1453	EA	30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,438.75	1,341.04
		For Class 52 Rating, Deduct	*-2,574.76*	
		For Class 54 Rating, Add	*3,535.41*	
		For Class 55 Rating, Add	*5,268.50*	
		For Class 56 Rating, Add	*6,978.17*	
40 05 19 00-1454	EA	30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,086.05	1,344.10
		For Class 52 Rating, Deduct	*-2,645.45*	
		For Class 54 Rating, Add	*3,631.87*	
		For Class 55 Rating, Add	*5,411.93*	
		For Class 56 Rating, Add	*7,167.93*	
40 05 19 00-1455	EA	30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,733.33	1,347.14
		For Class 52 Rating, Deduct	*-2,716.14*	
		For Class 54 Rating, Add	*3,728.33*	
		For Class 55 Rating, Add	*5,555.35*	
		For Class 56 Rating, Add	*7,357.68*	
40 05 19 00-1456	EA	30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,380.63	1,350.19
		For Class 52 Rating, Deduct	*-2,786.84*	
		For Class 54 Rating, Add	*3,824.78*	
		For Class 55 Rating, Add	*5,698.78*	
		For Class 56 Rating, Add	*7,547.44*	
40 05 19 00-1457	EA	30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,027.92	1,353.24
		For Class 52 Rating, Deduct	*-2,857.53*	
		For Class 54 Rating, Add	*3,921.24*	
		For Class 55 Rating, Add	*5,842.21*	
		For Class 56 Rating, Add	*7,737.20*	
40 05 19 00-1458	EA	30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,675.20	1,356.27
		For Class 52 Rating, Deduct	*-2,928.23*	
		For Class 54 Rating, Add	*4,017.70*	
		For Class 55 Rating, Add	*5,985.63*	
		For Class 56 Rating, Add	*7,926.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1459	EA	30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,322.51	1,359.32
		For Class 52 Rating, Deduct	*-2,998.92*	
		For Class 54 Rating, Add	*4,114.15*	
		For Class 55 Rating, Add	*6,129.06*	
		For Class 56 Rating, Add	*8,116.71*	
40 05 19 00-1460	EA	30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,969.79	1,362.37
		For Class 52 Rating, Deduct	*-3,069.61*	
		For Class 54 Rating, Add	*4,210.61*	
		For Class 55 Rating, Add	*6,272.49*	
		For Class 56 Rating, Add	*8,306.46*	
40 05 19 00-1461	EA	30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,617.10	1,365.42
		For Class 52 Rating, Deduct	*-3,140.31*	
		For Class 54 Rating, Add	*4,307.07*	
		For Class 55 Rating, Add	*6,415.92*	
		For Class 56 Rating, Add	*8,496.22*	
40 05 19 00-1462	EA	30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,264.38	1,368.46
		For Class 52 Rating, Deduct	*-3,211.00*	
		For Class 54 Rating, Add	*4,403.52*	
		For Class 55 Rating, Add	*6,559.34*	
		For Class 56 Rating, Add	*8,685.97*	

40 05 19 00-1463 36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1464	EA	36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,117.44	1,590.96
		For Class 52 Rating, Deduct	*-847.76*	
		For Class 54 Rating, Add	*1,184.96*	
		For Class 55 Rating, Add	*1,776.49*	
		For Class 56 Rating, Add	*2,360.31*	
40 05 19 00-1465	EA	36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,996.29	1,594.01
		For Class 52 Rating, Deduct	*-943.92*	
		For Class 54 Rating, Add	*1,316.15*	
		For Class 55 Rating, Add	*1,971.56*	
		For Class 56 Rating, Add	*2,618.38*	
40 05 19 00-1466	EA	36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,875.17	1,597.05
		For Class 52 Rating, Deduct	*-1,040.09*	
		For Class 54 Rating, Add	*1,447.34*	
		For Class 55 Rating, Add	*2,166.62*	
		For Class 56 Rating, Add	*2,876.45*	
40 05 19 00-1467	EA	36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,754.02	1,600.10
		For Class 52 Rating, Deduct	*-1,136.26*	
		For Class 54 Rating, Add	*1,578.54*	
		For Class 55 Rating, Add	*2,361.69*	
		For Class 56 Rating, Add	*3,134.52*	
40 05 19 00-1468	EA	36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,632.88	1,603.16
		For Class 52 Rating, Deduct	*-1,232.43*	
		For Class 54 Rating, Add	*1,709.73*	
		For Class 55 Rating, Add	*2,556.76*	
		For Class 56 Rating, Add	*3,392.59*	
40 05 19 00-1469	EA	36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,511.75	1,606.20
		For Class 52 Rating, Deduct	*-1,328.59*	
		For Class 54 Rating, Add	*1,840.92*	
		For Class 55 Rating, Add	*2,751.83*	
		For Class 56 Rating, Add	*3,650.65*	
40 05 19 00-1470	EA	36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,390.61	1,609.25
		For Class 52 Rating, Deduct	*-1,424.76*	
		For Class 54 Rating, Add	*1,972.11*	
		For Class 55 Rating, Add	*2,946.89*	
		For Class 56 Rating, Add	*3,908.72*	
40 05 19 00-1471	EA	36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,269.47	1,612.30
		For Class 52 Rating, Deduct	*-1,520.93*	
		For Class 54 Rating, Add	*2,103.30*	
		For Class 55 Rating, Add	*3,141.96*	
		For Class 56 Rating, Add	*4,166.79*	
40 05 19 00-1472	EA	36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,148.34	1,615.35
		For Class 52 Rating, Deduct	*-1,617.09*	
		For Class 54 Rating, Add	*2,234.50*	
		For Class 55 Rating, Add	*3,337.03*	
		For Class 56 Rating, Add	*4,424.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1473	EA	36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,027.19	1,618.39
		For Class 52 Rating, Deduct	*-1,713.26*	
		For Class 54 Rating, Add	*2,365.69*	
		For Class 55 Rating, Add	*3,532.10*	
		For Class 56 Rating, Add	*4,682.93*	
40 05 19 00-1474	EA	36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,906.07	1,621.43
		For Class 52 Rating, Deduct	*-1,809.43*	
		For Class 54 Rating, Add	*2,496.88*	
		For Class 55 Rating, Add	*3,727.16*	
		For Class 56 Rating, Add	*4,941.00*	
40 05 19 00-1475	EA	36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,784.92	1,624.49
		For Class 52 Rating, Deduct	*-1,905.59*	
		For Class 54 Rating, Add	*2,628.07*	
		For Class 55 Rating, Add	*3,922.23*	
		For Class 56 Rating, Add	*5,199.06*	
40 05 19 00-1476	EA	36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,663.79	1,627.53
		For Class 52 Rating, Deduct	*-2,001.76*	
		For Class 54 Rating, Add	*2,759.27*	
		For Class 55 Rating, Add	*4,117.30*	
		For Class 56 Rating, Add	*5,457.13*	
40 05 19 00-1477	EA	36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,542.65	1,630.58
		For Class 52 Rating, Deduct	*-2,097.93*	
		For Class 54 Rating, Add	*2,890.46*	
		For Class 55 Rating, Add	*4,312.37*	
		For Class 56 Rating, Add	*5,715.20*	
40 05 19 00-1478	EA	36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,421.52	1,633.63
		For Class 52 Rating, Deduct	*-2,194.10*	
		For Class 54 Rating, Add	*3,021.65*	
		For Class 55 Rating, Add	*4,507.43*	
		For Class 56 Rating, Add	*5,973.27*	
40 05 19 00-1479	EA	36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,300.38	1,636.68
		For Class 52 Rating, Deduct	*-2,290.26*	
		For Class 54 Rating, Add	*3,152.84*	
		For Class 55 Rating, Add	*4,702.50*	
		For Class 56 Rating, Add	*6,231.34*	
40 05 19 00-1480	EA	36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,179.24	1,639.72
		For Class 52 Rating, Deduct	*-2,386.43*	
		For Class 54 Rating, Add	*3,284.03*	
		For Class 55 Rating, Add	*4,897.57*	
		For Class 56 Rating, Add	*6,489.41*	
40 05 19 00-1481	EA	36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,058.10	1,642.77
		For Class 52 Rating, Deduct	*-2,482.60*	
		For Class 54 Rating, Add	*3,415.23*	
		For Class 55 Rating, Add	*5,092.64*	
		For Class 56 Rating, Add	*6,747.48*	
40 05 19 00-1482	EA	36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,936.97	1,645.82
		For Class 52 Rating, Deduct	*-2,578.76*	
		For Class 54 Rating, Add	*3,546.42*	
		For Class 55 Rating, Add	*5,287.70*	
		For Class 56 Rating, Add	*7,005.55*	
40 05 19 00-1483	EA	36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,815.83	1,648.88
		For Class 52 Rating, Deduct	*-2,674.93*	
		For Class 54 Rating, Add	*3,677.61*	
		For Class 55 Rating, Add	*5,482.77*	
		For Class 56 Rating, Add	*7,263.61*	
40 05 19 00-1484	EA	36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,694.69	1,651.92
		For Class 52 Rating, Deduct	*-2,771.10*	
		For Class 54 Rating, Add	*3,808.80*	
		For Class 55 Rating, Add	*5,677.84*	
		For Class 56 Rating, Add	*7,521.68*	
40 05 19 00-1485	EA	36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,573.55	1,654.97
		For Class 52 Rating, Deduct	*-2,867.26*	
		For Class 54 Rating, Add	*3,939.99*	
		For Class 55 Rating, Add	*5,872.91*	
		For Class 56 Rating, Add	*7,779.75*	
40 05 19 00-1486	EA	36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,452.42	1,658.02
		For Class 52 Rating, Deduct	*-2,963.43*	
		For Class 54 Rating, Add	*4,071.19*	
		For Class 55 Rating, Add	*6,067.97*	
		For Class 56 Rating, Add	*8,037.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1487	EA	36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,331.28	1,661.06
		For Class 52 Rating, Deduct	*-3,059.60*	
		For Class 54 Rating, Add	*4,202.38*	
		For Class 55 Rating, Add	*6,263.04*	
		For Class 56 Rating, Add	*8,295.89*	
40 05 19 00-1488	EA	36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,210.15	1,664.11
		For Class 52 Rating, Deduct	*-3,155.76*	
		For Class 54 Rating, Add	*4,333.57*	
		For Class 55 Rating, Add	*6,458.11*	
		For Class 56 Rating, Add	*8,553.96*	
40 05 19 00-1489	EA	36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,089.01	1,667.15
		For Class 52 Rating, Deduct	*-3,251.93*	
		For Class 54 Rating, Add	*4,464.76*	
		For Class 55 Rating, Add	*6,653.18*	
		For Class 56 Rating, Add	*8,812.03*	
40 05 19 00-1490	EA	36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,967.87	1,670.21
		For Class 52 Rating, Deduct	*-3,348.10*	
		For Class 54 Rating, Add	*4,595.96*	
		For Class 55 Rating, Add	*6,848.24*	
		For Class 56 Rating, Add	*9,070.09*	
40 05 19 00-1491	EA	36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,846.74	1,673.24
		For Class 52 Rating, Deduct	*-3,444.27*	
		For Class 54 Rating, Add	*4,727.15*	
		For Class 55 Rating, Add	*7,043.31*	
		For Class 56 Rating, Add	*9,328.16*	
40 05 19 00-1492	EA	36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,725.59	1,676.30
		For Class 52 Rating, Deduct	*-3,540.43*	
		For Class 54 Rating, Add	*4,858.34*	
		For Class 55 Rating, Add	*7,238.38*	
		For Class 56 Rating, Add	*9,586.23*	
40 05 19 00-1493	EA	36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,604.47	1,679.35
		For Class 52 Rating, Deduct	*-3,636.60*	
		For Class 54 Rating, Add	*4,989.53*	
		For Class 55 Rating, Add	*7,433.45*	
		For Class 56 Rating, Add	*9,844.30*	
40 05 19 00-1494	EA	36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,483.32	1,682.39
		For Class 52 Rating, Deduct	*-3,732.77*	
		For Class 54 Rating, Add	*5,120.72*	
		For Class 55 Rating, Add	*7,628.51*	
		For Class 56 Rating, Add	*10,102.37*	
40 05 19 00-1495	EA	36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,362.20	1,685.44
		For Class 52 Rating, Deduct	*-3,828.93*	
		For Class 54 Rating, Add	*5,251.92*	
		For Class 55 Rating, Add	*7,823.58*	
		For Class 56 Rating, Add	*10,360.44*	
40 05 19 00-1496	EA	36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,241.05	1,688.49
		For Class 52 Rating, Deduct	*-3,925.10*	
		For Class 54 Rating, Add	*5,383.11*	
		For Class 55 Rating, Add	*8,018.65*	
		For Class 56 Rating, Add	*10,618.50*	
40 05 19 00-1497	EA	36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,119.91	1,691.54
		For Class 52 Rating, Deduct	*-4,021.27*	
		For Class 54 Rating, Add	*5,514.30*	
		For Class 55 Rating, Add	*8,213.72*	
		For Class 56 Rating, Add	*10,876.57*	
40 05 19 00-1498	EA	36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,998.78	1,694.58
		For Class 52 Rating, Deduct	*-4,117.43*	
		For Class 54 Rating, Add	*5,645.49*	
		For Class 55 Rating, Add	*8,408.78*	
		For Class 56 Rating, Add	*11,134.64*	
40 05 19 00-1499	EA	36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,877.64	1,697.64
		For Class 52 Rating, Deduct	*-4,213.60*	
		For Class 54 Rating, Add	*5,776.69*	
		For Class 55 Rating, Add	*8,603.85*	
		For Class 56 Rating, Add	*11,392.71*	
40 05 19 00-1500	EA	36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,756.51	1,700.69
		For Class 52 Rating, Deduct	*-4,309.77*	
		For Class 54 Rating, Add	*5,907.88*	
		For Class 55 Rating, Add	*8,798.92*	
		For Class 56 Rating, Add	*11,650.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1501	EA	36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,635.37	1,703.73
		For Class 52 Rating, Deduct	*-4,405.94*	
		For Class 54 Rating, Add	*6,039.07*	
		For Class 55 Rating, Add	*8,993.99*	
		For Class 56 Rating, Add	*11,908.85*	

40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1503	EA	42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,370.81	2,005.47
		For Class 52 Rating, Deduct	*-1,136.54*	
		For Class 54 Rating, Add	*1,586.30*	
		For Class 55 Rating, Add	*2,377.01*	
		For Class 56 Rating, Add	*3,157.39*	
40 05 19 00-1504	EA	42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,681.59	2,008.51
		For Class 52 Rating, Deduct	*-1,280.22*	
		For Class 54 Rating, Add	*1,782.28*	
		For Class 55 Rating, Add	*2,668.40*	
		For Class 56 Rating, Add	*3,542.88*	
40 05 19 00-1505	EA	42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,976.75	2,011.56
		For Class 52 Rating, Deduct	*-1,422.18*	
		For Class 54 Rating, Add	*1,975.91*	
		For Class 55 Rating, Add	*2,956.30*	
		For Class 56 Rating, Add	*3,923.76*	
40 05 19 00-1506	EA	42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,284.94	2,014.61
		For Class 52 Rating, Deduct	*-1,565.58*	
		For Class 54 Rating, Add	*2,171.50*	
		For Class 55 Rating, Add	*3,247.11*	
		For Class 56 Rating, Add	*4,308.48*	
40 05 19 00-1507	EA	42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,580.10	2,017.66
		For Class 52 Rating, Deduct	*-1,707.54*	
		For Class 54 Rating, Add	*2,365.14*	
		For Class 55 Rating, Add	*3,535.01*	
		For Class 56 Rating, Add	*4,689.35*	
40 05 19 00-1508	EA	42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,890.90	2,020.69
		For Class 52 Rating, Deduct	*-1,851.21*	
		For Class 54 Rating, Add	*2,561.12*	
		For Class 55 Rating, Add	*3,826.40*	
		For Class 56 Rating, Add	*5,074.84*	
40 05 19 00-1509	EA	42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,183.46	2,023.75
		For Class 52 Rating, Deduct	*-1,992.89*	
		For Class 54 Rating, Add	*2,754.37*	
		For Class 55 Rating, Add	*4,113.72*	
		For Class 56 Rating, Add	*5,454.95*	
40 05 19 00-1510	EA	42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,494.23	2,026.80
		For Class 52 Rating, Deduct	*-2,136.57*	
		For Class 54 Rating, Add	*2,950.35*	
		For Class 55 Rating, Add	*4,405.10*	
		For Class 56 Rating, Add	*5,840.43*	
40 05 19 00-1511	EA	42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,789.42	2,029.85
		For Class 52 Rating, Deduct	*-2,278.53*	
		For Class 54 Rating, Add	*3,143.99*	
		For Class 55 Rating, Add	*4,693.01*	
		For Class 56 Rating, Add	*6,221.32*	
40 05 19 00-1512	EA	42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,097.59	2,032.89
		For Class 52 Rating, Deduct	*-2,421.92*	
		For Class 54 Rating, Add	*3,339.58*	
		For Class 55 Rating, Add	*4,983.81*	
		For Class 56 Rating, Add	*6,606.03*	
40 05 19 00-1513	EA	42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,392.76	2,035.94
		For Class 52 Rating, Deduct	*-2,563.88*	
		For Class 54 Rating, Add	*3,533.22*	
		For Class 55 Rating, Add	*5,271.72*	
		For Class 56 Rating, Add	*6,986.91*	
40 05 19 00-1514	EA	42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,700.94	2,038.99
		For Class 52 Rating, Deduct	*-2,707.27*	
		For Class 54 Rating, Add	*3,728.81*	
		For Class 55 Rating, Add	*5,562.52*	
		For Class 56 Rating, Add	*7,371.63*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1515	EA	42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,996.10	2,042.03
		For Class 52 Rating, Deduct	*-2,849.23*	
		For Class 54 Rating, Add	*3,922.44*	
		For Class 55 Rating, Add	*5,850.43*	
		For Class 56 Rating, Add	*7,752.51*	
40 05 19 00-1516	EA	42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,293.89	2,045.08
		For Class 52 Rating, Deduct	*-2,991.48*	
		For Class 54 Rating, Add	*4,116.47*	
		For Class 55 Rating, Add	*6,138.91*	
		For Class 56 Rating, Add	*8,134.15*	
40 05 19 00-1517	EA	42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,599.46	2,048.14
		For Class 52 Rating, Deduct	*-3,134.59*	
		For Class 54 Rating, Add	*4,311.67*	
		For Class 55 Rating, Add	*6,429.14*	
		For Class 56 Rating, Add	*8,518.10*	
40 05 19 00-1518	EA	42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,894.63	2,051.19
		For Class 52 Rating, Deduct	*-3,276.55*	
		For Class 54 Rating, Add	*4,505.31*	
		For Class 55 Rating, Add	*6,717.04*	
		For Class 56 Rating, Add	*8,898.98*	
40 05 19 00-1519	EA	42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,205.41	2,054.23
		For Class 52 Rating, Deduct	*-3,420.22*	
		For Class 54 Rating, Add	*4,701.29*	
		For Class 55 Rating, Add	*7,008.42*	
		For Class 56 Rating, Add	*9,284.47*	
40 05 19 00-1520	EA	42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,500.58	2,057.28
		For Class 52 Rating, Deduct	*-3,562.19*	
		For Class 54 Rating, Add	*4,894.93*	
		For Class 55 Rating, Add	*7,296.33*	
		For Class 56 Rating, Add	*9,665.35*	
40 05 19 00-1521	EA	42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,808.76	2,060.33
		For Class 52 Rating, Deduct	*-3,705.58*	
		For Class 54 Rating, Add	*5,090.52*	
		For Class 55 Rating, Add	*7,587.14*	
		For Class 56 Rating, Add	*10,050.06*	
40 05 19 00-1522	EA	42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,103.93	2,063.36
		For Class 52 Rating, Deduct	*-3,847.54*	
		For Class 54 Rating, Add	*5,284.16*	
		For Class 55 Rating, Add	*7,875.04*	
		For Class 56 Rating, Add	*10,430.94*	
40 05 19 00-1523	EA	42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,414.71	2,066.41
		For Class 52 Rating, Deduct	*-3,991.21*	
		For Class 54 Rating, Add	*5,480.14*	
		For Class 55 Rating, Add	*8,166.42*	
		For Class 56 Rating, Add	*10,816.43*	
40 05 19 00-1524	EA	42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,709.89	2,069.47
		For Class 52 Rating, Deduct	*-4,133.18*	
		For Class 54 Rating, Add	*5,673.78*	
		For Class 55 Rating, Add	*8,454.33*	
		For Class 56 Rating, Add	*11,197.31*	
40 05 19 00-1525	EA	42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,018.07	2,072.52
		For Class 52 Rating, Deduct	*-4,276.57*	
		For Class 54 Rating, Add	*5,869.37*	
		For Class 55 Rating, Add	*8,745.13*	
		For Class 56 Rating, Add	*11,582.02*	
40 05 19 00-1526	EA	42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,313.23	2,075.56
		For Class 52 Rating, Deduct	*-4,418.53*	
		For Class 54 Rating, Add	*6,063.00*	
		For Class 55 Rating, Add	*9,033.04*	
		For Class 56 Rating, Add	*11,962.90*	
40 05 19 00-1527	EA	42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,624.01	2,078.61
		For Class 52 Rating, Deduct	*-4,562.21*	
		For Class 54 Rating, Add	*6,258.98*	
		For Class 55 Rating, Add	*9,324.42*	
		For Class 56 Rating, Add	*12,348.39*	
40 05 19 00-1528	EA	42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,919.19	2,081.66
		For Class 52 Rating, Deduct	*-4,704.17*	
		For Class 54 Rating, Add	*6,452.62*	
		For Class 55 Rating, Add	*9,612.33*	
		For Class 56 Rating, Add	*12,729.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1529	EA	42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,224.77	2,084.70
		For Class 52 Rating, Deduct	*-4,847.27*	
		For Class 54 Rating, Add	*6,647.82*	
		For Class 55 Rating, Add	*9,902.55*	
		For Class 56 Rating, Add	*13,113.22*	
40 05 19 00-1530	EA	42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,522.54	2,087.75
		For Class 52 Rating, Deduct	*-4,989.52*	
		For Class 54 Rating, Add	*6,841.85*	
		For Class 55 Rating, Add	*10,191.04*	
		For Class 56 Rating, Add	*13,494.86*	
40 05 19 00-1531	EA	42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,557.51	2,090.80
		For Class 52 Rating, Deduct	*-5,102.86*	
		For Class 54 Rating, Add	*6,996.46*	
		For Class 55 Rating, Add	*10,420.92*	
		For Class 56 Rating, Add	*13,798.98*	
40 05 19 00-1532	EA	42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,125.89	2,093.86
		For Class 52 Rating, Deduct	*-5,274.87*	
		For Class 54 Rating, Add	*7,231.08*	
		For Class 55 Rating, Add	*10,769.75*	
		For Class 56 Rating, Add	*14,260.46*	
40 05 19 00-1533	EA	42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,421.06	2,096.90
		For Class 52 Rating, Deduct	*-5,416.83*	
		For Class 54 Rating, Add	*7,424.72*	
		For Class 55 Rating, Add	*11,057.65*	
		For Class 56 Rating, Add	*14,641.34*	
40 05 19 00-1534	EA	42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,729.23	2,099.95
		For Class 52 Rating, Deduct	*-5,560.23*	
		For Class 54 Rating, Add	*7,620.31*	
		For Class 55 Rating, Add	*11,348.45*	
		For Class 56 Rating, Add	*15,026.05*	
40 05 19 00-1535	EA	42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,024.41	2,103.00
		For Class 52 Rating, Deduct	*-5,702.19*	
		For Class 54 Rating, Add	*7,813.94*	
		For Class 55 Rating, Add	*11,636.36*	
		For Class 56 Rating, Add	*15,406.93*	
40 05 19 00-1536	EA	42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,335.19	2,106.05
		For Class 52 Rating, Deduct	*-5,845.86*	
		For Class 54 Rating, Add	*8,009.92*	
		For Class 55 Rating, Add	*11,927.74*	
		For Class 56 Rating, Add	*15,792.42*	
40 05 19 00-1537	EA	42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,627.76	2,109.08
		For Class 52 Rating, Deduct	*-5,987.54*	
		For Class 54 Rating, Add	*8,203.17*	
		For Class 55 Rating, Add	*12,215.07*	
		For Class 56 Rating, Add	*16,172.53*	
40 05 19 00-1538	EA	42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,938.54	2,112.13
		For Class 52 Rating, Deduct	*-6,131.22*	
		For Class 54 Rating, Add	*8,399.15*	
		For Class 55 Rating, Add	*12,506.45*	
		For Class 56 Rating, Add	*16,558.01*	
40 05 19 00-1539	EA	42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,233.70	2,115.19
		For Class 52 Rating, Deduct	*-6,273.18*	
		For Class 54 Rating, Add	*8,592.79*	
		For Class 55 Rating, Add	*12,794.36*	
		For Class 56 Rating, Add	*16,938.89*	
40 05 19 00-1540	EA	42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,541.89	2,118.22
		For Class 52 Rating, Deduct	*-6,416.57*	
		For Class 54 Rating, Add	*8,788.38*	
		For Class 55 Rating, Add	*13,085.16*	
		For Class 56 Rating, Add	*17,323.61*	
40 05 19 00-1541		48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*		
40 05 19 00-1542	EA	48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,255.32	2,520.54
		For Class 52 Rating, Deduct	*-1,477.99*	
		For Class 54 Rating, Add	*2,061.27*	
		For Class 55 Rating, Add	*3,087.95*	
		For Class 56 Rating, Add	*4,101.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1543	EA	48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,161.94	2,523.59
		For Class 52 Rating, Deduct	*-1,687.22*	
		For Class 54 Rating, Add	*2,346.63*	
		For Class 55 Rating, Add	*3,512.21*	
		For Class 56 Rating, Add	*4,662.45*	
40 05 19 00-1544	EA	48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,065.97	2,526.64
		For Class 52 Rating, Deduct	*-1,896.15*	
		For Class 54 Rating, Add	*2,631.60*	
		For Class 55 Rating, Add	*3,935.89*	
		For Class 56 Rating, Add	*5,222.94*	
40 05 19 00-1545	EA	48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,985.59	2,529.69
		For Class 52 Rating, Deduct	*-2,106.80*	
		For Class 54 Rating, Add	*2,918.90*	
		For Class 55 Rating, Add	*4,363.05*	
		For Class 56 Rating, Add	*5,788.04*	
40 05 19 00-1546	EA	48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,892.21	2,532.73
		For Class 52 Rating, Deduct	*-2,316.02*	
		For Class 54 Rating, Add	*3,204.26*	
		For Class 55 Rating, Add	*4,787.31*	
		For Class 56 Rating, Add	*6,349.30*	
40 05 19 00-1547	EA	48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,798.84	2,535.78
		For Class 52 Rating, Deduct	*-2,525.24*	
		For Class 54 Rating, Add	*3,489.62*	
		For Class 55 Rating, Add	*5,211.56*	
		For Class 56 Rating, Add	*6,910.55*	
40 05 19 00-1548	EA	48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,715.86	2,538.84
		For Class 52 Rating, Deduct	*-2,735.61*	
		For Class 54 Rating, Add	*3,776.53*	
		For Class 55 Rating, Add	*5,638.14*	
		For Class 56 Rating, Add	*7,474.88*	
40 05 19 00-1549	EA	48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,625.10	2,541.88
		For Class 52 Rating, Deduct	*-2,945.11*	
		For Class 54 Rating, Add	*4,062.28*	
		For Class 55 Rating, Add	*6,062.98*	
		For Class 56 Rating, Add	*8,036.91*	
40 05 19 00-1550	EA	48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,529.11	2,544.93
		For Class 52 Rating, Deduct	*-3,154.05*	
		For Class 54 Rating, Add	*4,347.25*	
		For Class 55 Rating, Add	*6,486.66*	
		For Class 56 Rating, Add	*8,597.40*	
40 05 19 00-1551	EA	48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,448.73	2,547.98
		For Class 52 Rating, Deduct	*-3,364.70*	
		For Class 54 Rating, Add	*4,634.55*	
		For Class 55 Rating, Add	*6,913.82*	
		For Class 56 Rating, Add	*9,162.49*	
40 05 19 00-1552	EA	48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,355.37	2,551.03
		For Class 52 Rating, Deduct	*-3,573.92*	
		For Class 54 Rating, Add	*4,919.91*	
		For Class 55 Rating, Add	*7,338.07*	
		For Class 56 Rating, Add	*9,723.75*	
40 05 19 00-1553	EA	48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,274.99	2,554.06
		For Class 52 Rating, Deduct	*-3,784.57*	
		For Class 54 Rating, Add	*5,207.22*	
		For Class 55 Rating, Add	*7,765.23*	
		For Class 56 Rating, Add	*10,288.84*	
40 05 19 00-1554	EA	48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,179.02	2,557.11
		For Class 52 Rating, Deduct	*-3,993.50*	
		For Class 54 Rating, Add	*5,492.18*	
		For Class 55 Rating, Add	*8,188.91*	
		For Class 56 Rating, Add	*10,849.33*	
40 05 19 00-1555	EA	48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,085.63	2,560.17
		For Class 52 Rating, Deduct	*-4,202.72*	
		For Class 54 Rating, Add	*5,777.54*	
		For Class 55 Rating, Add	*8,613.17*	
		For Class 56 Rating, Add	*11,410.59*	
40 05 19 00-1556	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,005.26	2,563.22
		For Class 52 Rating, Deduct	*-4,413.38*	
		For Class 54 Rating, Add	*6,064.85*	
		For Class 55 Rating, Add	*9,040.33*	
		For Class 56 Rating, Add	*11,975.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1557	EA	48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,911.89	2,566.26
		For Class 52 Rating, Deduct	*-4,622.60*	
		For Class 54 Rating, Add	*6,350.20*	
		For Class 55 Rating, Add	*9,464.58*	
		For Class 56 Rating, Add	*12,536.94*	
40 05 19 00-1558	EA	48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,815.90	2,569.31
		For Class 52 Rating, Deduct	*-4,831.53*	
		For Class 54 Rating, Add	*6,635.17*	
		For Class 55 Rating, Add	*9,888.26*	
		For Class 56 Rating, Add	*13,097.43*	
40 05 19 00-1559	EA	48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,735.53	2,572.36
		For Class 52 Rating, Deduct	*-5,042.18*	
		For Class 54 Rating, Add	*6,922.47*	
		For Class 55 Rating, Add	*10,315.42*	
		For Class 56 Rating, Add	*13,662.53*	
40 05 19 00-1560	EA	48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,642.16	2,575.40
		For Class 52 Rating, Deduct	*-5,251.40*	
		For Class 54 Rating, Add	*7,207.83*	
		For Class 55 Rating, Add	*10,739.68*	
		For Class 56 Rating, Add	*14,223.79*	
40 05 19 00-1561	EA	48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,546.18	2,578.45
		For Class 52 Rating, Deduct	*-5,460.34*	
		For Class 54 Rating, Add	*7,492.80*	
		For Class 55 Rating, Add	*11,163.35*	
		For Class 56 Rating, Add	*14,784.27*	
40 05 19 00-1562	EA	48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,465.81	2,581.50
		For Class 52 Rating, Deduct	*-5,670.99*	
		For Class 54 Rating, Add	*7,780.10*	
		For Class 55 Rating, Add	*11,590.51*	
		For Class 56 Rating, Add	*15,349.37*	
40 05 19 00-1563	EA	48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,375.03	2,584.56
		For Class 52 Rating, Deduct	*-5,880.50*	
		For Class 54 Rating, Add	*8,065.85*	
		For Class 55 Rating, Add	*12,015.35*	
		For Class 56 Rating, Add	*15,911.40*	
40 05 19 00-1564	EA	48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,279.05	2,587.60
		For Class 52 Rating, Deduct	*-6,089.43*	
		For Class 54 Rating, Add	*8,350.81*	
		For Class 55 Rating, Add	*12,439.03*	
		For Class 56 Rating, Add	*16,471.88*	
40 05 19 00-1565	EA	48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,198.68	2,590.65
		For Class 52 Rating, Deduct	*-6,300.08*	
		For Class 54 Rating, Add	*8,638.12*	
		For Class 55 Rating, Add	*12,866.19*	
		For Class 56 Rating, Add	*17,036.98*	
40 05 19 00-1566	EA	48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	63,105.31	2,593.70
		For Class 52 Rating, Deduct	*-6,509.30*	
		For Class 54 Rating, Add	*8,923.48*	
		For Class 55 Rating, Add	*13,290.45*	
		For Class 56 Rating, Add	*17,598.24*	
40 05 19 00-1567	EA	48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,009.32	2,596.73
		For Class 52 Rating, Deduct	*-6,718.24*	
		For Class 54 Rating, Add	*9,208.44*	
		For Class 55 Rating, Add	*13,714.12*	
		For Class 56 Rating, Add	*18,158.73*	
40 05 19 00-1568	EA	48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,928.95	2,599.78
		For Class 52 Rating, Deduct	*-6,928.89*	
		For Class 54 Rating, Add	*9,495.75*	
		For Class 55 Rating, Add	*14,141.28*	
		For Class 56 Rating, Add	*18,723.82*	
40 05 19 00-1569	EA	48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,835.57	2,602.83
		For Class 52 Rating, Deduct	*-7,138.11*	
		For Class 54 Rating, Add	*9,781.11*	
		For Class 55 Rating, Add	*14,565.54*	
		For Class 56 Rating, Add	*19,285.08*	
40 05 19 00-1570	EA	48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,508.03	2,605.89
		For Class 52 Rating, Deduct	*-7,321.57*	
		For Class 54 Rating, Add	*10,031.34*	
		For Class 55 Rating, Add	*14,937.58*	
		For Class 56 Rating, Add	*19,777.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1571	EA	48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	72,661.83	2,608.93
		For Class 52 Rating, Deduct	*-7,557.98*	
		For Class 54 Rating, Add	*10,353.77*	
		For Class 55 Rating, Add	*15,416.96*	
		For Class 56 Rating, Add	*20,411.43*	
40 05 19 00-1572	EA	48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	74,565.84	2,611.98
		For Class 52 Rating, Deduct	*-7,766.91*	
		For Class 54 Rating, Add	*10,638.74*	
		For Class 55 Rating, Add	*15,840.63*	
		For Class 56 Rating, Add	*20,971.92*	
40 05 19 00-1573	EA	48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	76,488.08	2,615.03
		For Class 52 Rating, Deduct	*-7,977.85*	
		For Class 54 Rating, Add	*10,926.43*	
		For Class 55 Rating, Add	*16,268.37*	
		For Class 56 Rating, Add	*21,537.78*	
40 05 19 00-1574	EA	48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	78,392.10	2,618.07
		For Class 52 Rating, Deduct	*-8,186.79*	
		For Class 54 Rating, Add	*11,211.40*	
		For Class 55 Rating, Add	*16,692.05*	
		For Class 56 Rating, Add	*22,098.27*	
40 05 19 00-1575	EA	48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	80,296.12	2,621.12
		For Class 52 Rating, Deduct	*-8,395.72*	
		For Class 54 Rating, Add	*11,496.36*	
		For Class 55 Rating, Add	*17,115.73*	
		For Class 56 Rating, Add	*22,658.76*	
40 05 19 00-1576	EA	48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	82,218.36	2,624.17
		For Class 52 Rating, Deduct	*-8,606.66*	
		For Class 54 Rating, Add	*11,784.06*	
		For Class 55 Rating, Add	*17,543.47*	
		For Class 56 Rating, Add	*23,224.63*	
40 05 19 00-1577	EA	48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	84,122.37	2,627.22
		For Class 52 Rating, Deduct	*-8,815.59*	
		For Class 54 Rating, Add	*12,069.03*	
		For Class 55 Rating, Add	*17,967.14*	
		For Class 56 Rating, Add	*23,785.12*	
40 05 19 00-1578	EA	48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	86,028.99	2,630.26
		For Class 52 Rating, Deduct	*-9,024.81*	
		For Class 54 Rating, Add	*12,354.38*	
		For Class 55 Rating, Add	*18,391.40*	
		For Class 56 Rating, Add	*24,346.37*	
40 05 19 00-1579	EA	48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	87,948.62	2,633.32
		For Class 52 Rating, Deduct	*-9,235.46*	
		For Class 54 Rating, Add	*12,641.69*	
		For Class 55 Rating, Add	*18,818.56*	
		For Class 56 Rating, Add	*24,911.47*	

40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows *(40 05 19 00-0001)*

40 05 19 00-1581	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	439.71	147.05
40 05 19 00-1582	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	620.58	188.04
40 05 19 00-1583	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	875.30	212.99
40 05 19 00-1584	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,286.31	270.03
40 05 19 00-1585	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,596.88	299.43
40 05 19 00-1586	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,997.03	325.28
40 05 19 00-1587	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,460.15	401.03
40 05 19 00-1588	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,234.02	481.24
40 05 19 00-1589	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,981.98	606.00
40 05 19 00-1590	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	6,090.63	686.20
40 05 19 00-1591	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	10,277.34	908.99
40 05 19 00-1592	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	14,604.85	1,029.31
40 05 19 00-1593	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	24,536.82	1,176.35
40 05 19 00-1594	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	32,687.69	1,443.70

40 05 19 00-1595 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows *(40 05 19 00-0001)*

40 05 19 00-1596	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	415.96	147.05
40 05 19 00-1597	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	582.58	188.04
40 05 19 00-1598	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	778.72	212.99
40 05 19 00-1599	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,146.98	270.03
40 05 19 00-1600	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,419.54	299.43
40 05 19 00-1601	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,636.03	325.28
40 05 19 00-1602	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,061.14	401.03
40 05 19 00-1603	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,697.26	481.24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1604	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,492.72	606.00
40 05 19 00-1605	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	4,614.94	686.20
40 05 19 00-1606	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	9,197.49	908.99
40 05 19 00-1607	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	13,816.34	1,029.31
40 05 19 00-1608	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	21,146.84	1,176.35
40 05 19 00-1609	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	28,852.80	1,443.70
40 05 19 00-1610		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows** *(40 05 19 00-0001)*		
40 05 19 00-1611	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	414.38	147.05
40 05 19 00-1612	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	569.91	188.04
40 05 19 00-1613	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	767.63	212.99
40 05 19 00-1614	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,115.31	270.03
40 05 19 00-1615	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,489.21	299.43
40 05 19 00-1616	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,856.11	325.28
40 05 19 00-1617	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,110.23	401.03
40 05 19 00-1618	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,757.42	481.24
40 05 19 00-1619	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,753.98	606.00
40 05 19 00-1620	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	5,210.28	686.20
40 05 19 00-1621	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,303.57	908.99
40 05 19 00-1622	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	14,060.18	1,029.31
40 05 19 00-1623	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	21,632.93	1,176.35
40 05 19 00-1624	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	29,486.14	1,443.70
40 05 19 00-1625		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows** *(40 05 19 00-0001)*		
40 05 19 00-1626	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	453.96	147.05
40 05 19 00-1627	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	644.33	188.04
40 05 19 00-1628	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	799.30	212.99
40 05 19 00-1629	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,227.73	270.03
40 05 19 00-1630	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,696.63	299.43
40 05 19 00-1631	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,909.95	325.28
40 05 19 00-1632	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,335.07	401.03
40 05 19 00-1633	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,757.42	481.24
40 05 19 00-1634	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,753.98	606.00
40 05 19 00-1635	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,424.03	686.20
40 05 19 00-1636	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,409.66	908.99
40 05 19 00-1637	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	14,164.68	1,029.31
40 05 19 00-1638	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	21,743.77	1,176.35
40 05 19 00-1639	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	29,709.39	1,443.70
40 05 19 00-1640		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows** *(40 05 19 00-0001)*		
40 05 19 00-1641	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	587.94	167.54
40 05 19 00-1642	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	728.77	180.02
40 05 19 00-1643	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	821.57	200.52
40 05 19 00-1644	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,104.47	208.54
40 05 19 00-1645	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,165.62	229.04
40 05 19 00-1646	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,274.77	241.51
40 05 19 00-1647	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,187.60	223.69
40 05 19 00-1648	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,338.99	244.18
40 05 19 00-1649	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,541.56	256.66
40 05 19 00-1650	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,641.78	285.18
40 05 19 00-1651	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,541.56	256.66
40 05 19 00-1652	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,709.30	269.14
40 05 19 00-1653	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,904.51	297.65
40 05 19 00-1654	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,109.55	312.80
40 05 19 00-1655	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,777.87	294.54
40 05 19 00-1656	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,918.68	307.00
40 05 19 00-1657	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,204.15	335.52
40 05 19 00-1658	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,406.94	350.23
40 05 19 00-1659	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,578.52	363.16
40 05 19 00-1660	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,080.88	334.64
40 05 19 00-1661	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,494.05	347.12
40 05 19 00-1662	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,567.34	375.63
40 05 19 00-1663	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,711.53	390.33
40 05 19 00-1664	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,943.28	403.26
40 05 19 00-1665	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,209.67	441.14
40 05 19 00-1666	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,688.41	397.01
40 05 19 00-1667	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,870.39	409.49
40 05 19 00-1668	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,564.38	438.01
40 05 19 00-1669	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,699.06	452.72
40 05 19 00-1670	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,082.83	465.63
40 05 19 00-1671	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,989.79	503.51
40 05 19 00-1672	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,246.88	543.61
40 05 19 00-1673	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,791.03	437.12
40 05 19 00-1674	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,974.60	449.59

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1675	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,277.48	478.11
40 05 19 00-1676	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,496.10	492.82
40 05 19 00-1677	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,906.76	505.75
40 05 19 00-1678	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,288.74	543.61
40 05 19 00-1679	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,414.41	583.72
40 05 19 00-1680	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,697.54	577.27
40 05 19 00-1681	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,780.25	604.21
40 05 19 00-1682	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,219.41	617.14
40 05 19 00-1683	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,141.32	655.01
40 05 19 00-1684	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,468.76	695.12
40 05 19 00-1685	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,951.89	757.50
40 05 19 00-1686	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,566.83	797.60
40 05 19 00-1687	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,352.51	664.37
40 05 19 00-1688	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,127.14	677.29
40 05 19 00-1689	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,849.07	715.17
40 05 19 00-1690	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,873.88	755.27
40 05 19 00-1691	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,308.13	817.65
40 05 19 00-1692	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,421.83	857.76
40 05 19 00-1693	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,315.79	969.16
40 05 19 00-1694	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,576.93	750.81
40 05 19 00-1695	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,969.54	788.69
40 05 19 00-1696	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,832.62	828.79
40 05 19 00-1697	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,526.55	891.18
40 05 19 00-1698	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,160.03	931.28
40 05 19 00-1699	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	19,045.85	1,042.68
40 05 19 00-1700	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	26,920.79	1,102.83
40 05 19 00-1701	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	25,764.02	1,076.09
40 05 19 00-1702	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	28,018.09	1,187.49
40 05 19 00-1703	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	28,837.57	1,247.64
40 05 19 00-1704	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	36,895.86	1,321.17
40 05 19 00-1705		Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows *(40 05 19 00-0001)*		
40 05 19 00-1706	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	526.80	147.05
40 05 19 00-1707	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	815.34	188.04
40 05 19 00-1708	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,201.47	212.99
40 05 19 00-1709	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,710.65	270.03
40 05 19 00-1710	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,421.81	299.43
40 05 19 00-1711	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,825.13	325.28
40 05 19 00-1712	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,666.67	401.03
40 05 19 00-1713	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,543.45	481.24
40 05 19 00-1714	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,198.69	606.00
40 05 19 00-1715	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	9,121.18	686.20
40 05 19 00-1716	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	16,077.18	908.99
40 05 19 00-1717	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	24,499.27	1,029.31
40 05 19 00-1718	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	38,019.13	1,176.35
40 05 19 00-1719		Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base *(40 05 19 00-0001)*		
40 05 19 00-1720	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	556.88	147.05
40 05 19 00-1721	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	756.75	188.04
40 05 19 00-1722	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,242.64	212.99
40 05 19 00-1723	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,680.57	270.03
40 05 19 00-1724	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,261.89	299.43
40 05 19 00-1725	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,673.13	325.28
40 05 19 00-1726	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,302.50	401.03
40 05 19 00-1727	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,150.78	481.24
40 05 19 00-1728	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,479.84	606.00
40 05 19 00-1729	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,753.16	686.20
40 05 19 00-1730	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	12,725.21	908.99
40 05 19 00-1731	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	18,214.91	1,029.31
40 05 19 00-1732	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	33,883.39	1,176.35
40 05 19 00-1733	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	36,524.17	1,443.70
40 05 19 00-1734		Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees *(40 05 19 00-0001)*		
40 05 19 00-1735	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	753.66	236.16
40 05 19 00-1736	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	934.20	290.53
40 05 19 00-1737	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,316.42	324.39
40 05 19 00-1738	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,892.69	421.52
40 05 19 00-1739	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,520.77	459.85
40 05 19 00-1740	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,382.52	494.60
40 05 19 00-1741	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,828.49	623.83
40 05 19 00-1742	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,671.27	712.94
40 05 19 00-1743	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	5,892.18	900.09
40 05 19 00-1744	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	8,697.16	993.66
40 05 19 00-1745	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	14,820.71	1,372.40
40 05 19 00-1746	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	21,386.70	1,572.92

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1747	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	44,316.16	1,818.00
40 05 19 00-1748		Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees *(40 05 19 00-0001)*		
40 05 19 00-1749	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	945.93	263.79
40 05 19 00-1750	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,174.13	269.14
40 05 19 00-1751	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,171.60	302.99
40 05 19 00-1752	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,551.43	297.65
40 05 19 00-1753	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,529.89	331.51
40 05 19 00-1754	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,612.97	352.90
40 05 19 00-1755	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,970.22	312.80
40 05 19 00-1756	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,962.94	346.67
40 05 19 00-1757	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,072.93	368.05
40 05 19 00-1758	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,469.83	436.68
40 05 19 00-1759	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,878.96	325.28
40 05 19 00-1760	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,814.70	359.15
40 05 19 00-1761	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,938.94	380.53
40 05 19 00-1762	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,101.50	449.16
40 05 19 00-1763	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,289.28	472.77
40 05 19 00-1764	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,493.71	363.16
40 05 19 00-1765	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,215.67	397.01
40 05 19 00-1766	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,162.58	418.41
40 05 19 00-1767	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,711.47	487.02
40 05 19 00-1768	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,600.00	510.64
40 05 19 00-1769	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,016.25	532.48
40 05 19 00-1770	EA	18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,274.89	403.26
40 05 19 00-1771	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,214.69	437.12
40 05 19 00-1772	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,875.68	458.51
40 05 19 00-1773	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,886.24	527.13
40 05 19 00-1774	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,230.78	550.75
40 05 19 00-1775	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,620.10	572.58
40 05 19 00-1776	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,940.60	663.93
40 05 19 00-1777	EA	20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	9,471.00	465.63
40 05 19 00-1778	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,734.22	499.50
40 05 19 00-1779	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,831.55	520.89
40 05 19 00-1780	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	5,033.69	589.51
40 05 19 00-1781	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	5,230.97	613.13
40 05 19 00-1782	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	5,297.30	634.96
40 05 19 00-1783	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,380.97	726.30
40 05 19 00-1784	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,520.15	775.32
40 05 19 00-1785	EA	24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,274.78	505.75
40 05 19 00-1786	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	5,414.08	539.60
40 05 19 00-1787	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	5,660.24	560.99
40 05 19 00-1788	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	5,882.96	629.61
40 05 19 00-1789	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,596.42	653.23
40 05 19 00-1790	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,759.34	675.07
40 05 19 00-1791	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,983.24	766.41
40 05 19 00-1792	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	9,187.12	815.42
40 05 19 00-1793	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	9,501.44	871.35
40 05 19 00-1794	EA	30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,148.37	651.00
40 05 19 00-1795	EA	30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,214.04	672.40
40 05 19 00-1796	EA	30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,528.59	741.01
40 05 19 00-1797	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,564.37	764.63
40 05 19 00-1798	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,597.45	786.47
40 05 19 00-1799	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,840.35	877.81
40 05 19 00-1800	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,984.28	926.82
40 05 19 00-1801	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	12,345.91	1,051.58
40 05 19 00-1802	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	15,815.32	1,105.05
40 05 19 00-1803	EA	36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	15,376.94	931.72
40 05 19 00-1804	EA	36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	16,452.36	948.66
40 05 19 00-1805	EA	36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	16,560.79	997.23
40 05 19 00-1806	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	16,694.32	1,016.38
40 05 19 00-1807	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	16,755.48	1,033.77
40 05 19 00-1808	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	16,923.05	1,098.37
40 05 19 00-1809	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,025.39	1,142.93
40 05 19 00-1810	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,306.50	1,236.51
40 05 19 00-1811	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,692.48	1,283.29
40 05 19 00-1812	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	23,179.16	1,472.67
40 05 19 00-1813	EA	42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	27,544.67	806.07
40 05 19 00-1814	EA	42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	24,899.94	874.69
40 05 19 00-1815	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	24,935.72	898.30
40 05 19 00-1816	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	25,005.21	920.14
40 05 19 00-1817	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	25,218.03	1,011.48
40 05 19 00-1818	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	25,479.13	1,060.50
40 05 19 00-1819	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	25,668.17	1,185.26
40 05 19 00-1820	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	26,046.86	1,238.73
40 05 19 00-1821	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	33,005.47	1,506.09
40 05 19 00-1822	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	42,417.46	1,646.44
40 05 19 00-1823	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	33,721.10	1,043.12
40 05 19 00-1824	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	33,754.19	1,064.95
40 05 19 00-1825	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	34,003.43	1,156.30

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1826	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	34,077.69	1,205.32
40 05 19 00-1827	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	34,413.98	1,330.08
40 05 19 00-1828	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	34,756.25	1,383.55
40 05 19 00-1829	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	35,683.84	1,650.90
40 05 19 00-1830		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base** *(40 05 19 00-0001)*		
40 05 19 00-1831	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	813.83	236.16
40 05 19 00-1832	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,106.78	290.53
40 05 19 00-1833	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,614.09	324.39
40 05 19 00-1834	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	2,454.78	421.52
40 05 19 00-1835	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	3,299.78	459.85
40 05 19 00-1836	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	3,686.52	494.60
40 05 19 00-1837	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	4,575.83	623.83
40 05 19 00-1838	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	5,559.54	712.94
40 05 19 00-1839	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	7,424.87	900.09
40 05 19 00-1840	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	10,695.36	993.66
40 05 19 00-1841	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	17,932.01	1,372.40
40 05 19 00-1842	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	25,565.18	1,572.92
40 05 19 00-1843		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes** *(40 05 19 00-0001)*		
40 05 19 00-1844	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	661.83	236.16
40 05 19 00-1845	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	926.28	290.53
40 05 19 00-1846	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	1,340.17	324.39
40 05 19 00-1847	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	1,761.27	421.52
40 05 19 00-1848	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	2,512.85	459.85
40 05 19 00-1849	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	3,262.18	494.60
40 05 19 00-1850		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses** *(40 05 19 00-0001)*		
40 05 19 00-1851	EA	4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	909.26	325.28
40 05 19 00-1852	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,200.62	352.46
40 05 19 00-1853	EA	6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,271.56	393.00
40 05 19 00-1854	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,481.74	358.25
40 05 19 00-1855	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,615.05	405.48
40 05 19 00-1856	EA	8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,672.05	435.79
40 05 19 00-1857	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,917.63	386.77
40 05 19 00-1858	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,111.10	434.00
40 05 19 00-1859	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,309.01	464.30
40 05 19 00-1860	EA	10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,866.42	573.02
40 05 19 00-1861	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,484.57	401.47
40 05 19 00-1862	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,616.31	448.71
40 05 19 00-1863	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,815.81	479.00
40 05 19 00-1864	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,403.29	587.73
40 05 19 00-1865	EA	12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,203.98	620.25
40 05 19 00-1866	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,120.40	461.62
40 05 19 00-1867	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,318.31	491.93
40 05 19 00-1868	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,695.21	600.65
40 05 19 00-1869	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,018.41	633.18
40 05 19 00-1870	EA	14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,215.42	663.93
40 05 19 00-1871	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,724.04	499.50
40 05 19 00-1872	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,950.45	529.81
40 05 19 00-1873	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,327.36	638.53
40 05 19 00-1874	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,680.65	671.05
40 05 19 00-1875	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	6,530.67	701.80
40 05 19 00-1876	EA	16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,309.23	846.62
40 05 19 00-1877	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,876.64	539.60
40 05 19 00-1878	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,101.47	569.91
40 05 19 00-1879	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,418.20	678.63
40 05 19 00-1880	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,769.91	711.16
40 05 19 00-1881	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,481.51	741.91
40 05 19 00-1882	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,974.85	886.72
40 05 19 00-1883	EA	18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	6,244.69	944.65
40 05 19 00-1884	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,052.59	601.99
40 05 19 00-1885	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,293.25	632.28
40 05 19 00-1886	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,587.83	741.01
40 05 19 00-1887	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,963.28	773.54
40 05 19 00-1888	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	6,074.78	804.28
40 05 19 00-1889	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	7,402.55	949.11
40 05 19 00-1890	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	7,685.06	1,007.02
40 05 19 00-1891	EA	20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	8,426.21	1,194.17
40 05 19 00-1892	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	6,677.72	642.09
40 05 19 00-1893	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	6,851.88	672.40
40 05 19 00-1894	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	7,244.60	781.12
40 05 19 00-1895	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	7,490.23	813.64
40 05 19 00-1896	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	7,634.99	844.38
40 05 19 00-1897	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	8,082.41	989.21
40 05 19 00-1898	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	10,485.04	1,047.13

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1899	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	11,085.47	1,165.44
40 05 19 00-1900	EA	24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,204.65	1,301.12
40 05 19 00-1901	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,331.50	925.03
40 05 19 00-1902	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,412.93	955.79
40 05 19 00-1903	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,876.19	1,100.60
40 05 19 00-1904	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,033.61	1,158.53
40 05 19 00-1905	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,701.93	1,345.67
40 05 19 00-1906	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,818.60	1,412.52
40 05 19 00-1907	EA	30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	20,238.09	1,835.82
40 05 19 00-1908	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,423.45	1,176.80
40 05 19 00-1909	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,463.29	1,203.08
40 05 19 00-1910	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,854.37	1,321.17
40 05 19 00-1911	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,003.46	1,374.64
40 05 19 00-1912	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,554.85	1,530.60
40 05 19 00-1913	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	19,204.92	1,590.75
40 05 19 00-1914	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,976.09	1,936.08
40 05 19 00-1915	EA	36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	28,483.64	2,116.54
40 05 19 00-1916	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,737.68	1,058.72
40 05 19 00-1917	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,784.27	1,089.46
40 05 19 00-1918	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,226.95	1,234.27
40 05 19 00-1919	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,351.12	1,292.20
40 05 19 00-1920	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,970.36	1,479.35
40 05 19 00-1921	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	27,630.55	1,546.19
40 05 19 00-1922	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,569.64	1,969.50
40 05 19 00-1923	EA	42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	49,162.89	2,190.06
40 05 19 00-1924	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	36,424.70	2,459.64
40 05 19 00-1925	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,530.09	1,234.27
40 05 19 00-1926	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,974.34	1,379.09
40 05 19 00-1927	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,098.52	1,437.02
40 05 19 00-1928	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,679.75	1,624.17
40 05 19 00-1929	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	36,339.95	1,691.00
40 05 19 00-1930	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	37,986.75	2,114.31

40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers *(40 05 19 00-0001)*

40 05 19 00-1932	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	485.02	167.54
40 05 19 00-1933	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	619.52	180.02
40 05 19 00-1934	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	682.23	200.52
40 05 19 00-1935	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	833.72	208.54
40 05 19 00-1936	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	841.03	229.04
40 05 19 00-1937	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	983.43	241.51
40 05 19 00-1938	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,065.68	223.69
40 05 19 00-1939	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,101.48	244.18
40 05 19 00-1940	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,207.47	256.66
40 05 19 00-1941	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,358.36	285.18
40 05 19 00-1942	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,668.33	244.18
40 05 19 00-1943	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,327.80	256.66
40 05 19 00-1944	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,468.63	269.14
40 05 19 00-1945	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,614.76	297.65
40 05 19 00-1946	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,569.63	312.80
40 05 19 00-1947	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,974.82	274.04
40 05 19 00-1948	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,598.95	294.54
40 05 19 00-1949	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,510.18	307.00
40 05 19 00-1950	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,683.22	335.52
40 05 19 00-1951	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,087.10	350.23
40 05 19 00-1952	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,246.02	363.16
40 05 19 00-1953	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,498.89	334.64
40 05 19 00-1954	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,979.45	347.12
40 05 19 00-1955	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,174.67	375.63
40 05 19 00-1956	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,160.52	390.33
40 05 19 00-1957	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,487.27	403.26
40 05 19 00-1958	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,482.91	441.14
40 05 19 00-1959	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,556.99	397.01
40 05 19 00-1960	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,479.30	409.49
40 05 19 00-1961	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,685.61	438.01
40 05 19 00-1962	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,617.63	452.72
40 05 19 00-1963	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,021.98	465.63
40 05 19 00-1964	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,835.52	503.51
40 05 19 00-1965	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,497.96	543.61
40 05 19 00-1966	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,353.92	449.59
40 05 19 00-1967	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,788.22	478.11
40 05 19 00-1968	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,074.92	492.82
40 05 19 00-1969	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,183.16	505.75
40 05 19 00-1970	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,700.63	543.61
40 05 19 00-1971	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,469.15	583.72
40 05 19 00-1972	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,720.61	577.27
40 05 19 00-1973	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,439.21	655.01
40 05 19 00-1974	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,710.55	695.12
40 05 19 00-1975	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,224.66	757.50
40 05 19 00-1976	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,983.69	797.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1977	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,800.89	715.17
40 05 19 00-1978	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,244.82	755.27
40 05 19 00-1979	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,828.59	817.65
40 05 19 00-1980	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,693.70	857.76
40 05 19 00-1981	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,328.68	969.16
40 05 19 00-1982	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	14,967.76	931.28
40 05 19 00-1983	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,922.57	1,042.68
40 05 19 00-1984	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	19,136.99	1,102.83
40 05 19 00-1985	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	19,022.08	1,076.09
40 05 19 00-1986	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	21,350.56	1,187.49
40 05 19 00-1987	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	23,862.66	1,247.64
40 05 19 00-1988	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	26,730.69	1,321.17
40 05 19 00-1989		Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers *(40 05 19 00-0001)*		
40 05 19 00-1990	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	527.77	167.54
40 05 19 00-1991	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	668.60	180.02
40 05 19 00-1992	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	759.82	200.52
40 05 19 00-1993	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	833.72	208.54
40 05 19 00-1994	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	893.28	229.04
40 05 19 00-1995	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,032.51	241.51
40 05 19 00-1996	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,065.68	223.69
40 05 19 00-1997	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,158.48	244.18
40 05 19 00-1998	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,267.63	256.66
40 05 19 00-1999	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,462.86	285.18
40 05 19 00-2000	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,327.80	256.66
40 05 19 00-2001	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,438.55	269.14
40 05 19 00-2002	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,603.68	297.65
40 05 19 00-2003	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,837.21	312.80
40 05 19 00-2004	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,598.95	294.54
40 05 19 00-2005	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,736.60	307.00
40 05 19 00-2006	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,931.81	335.52
40 05 19 00-2007	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,136.19	350.23
40 05 19 00-2008	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,246.02	363.16
40 05 19 00-2009	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,979.45	347.12
40 05 19 00-2010	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,174.67	375.63
40 05 19 00-2011	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,379.02	390.33
40 05 19 00-2012	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,487.27	403.26
40 05 19 00-2013	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,726.75	441.14
40 05 19 00-2014	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,895.83	397.01
40 05 19 00-2015	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,642.39	409.49
40 05 19 00-2016	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,685.61	438.01
40 05 19 00-2017	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,935.88	452.72
40 05 19 00-2018	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,021.98	465.63
40 05 19 00-2019	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,304.19	503.51
40 05 19 00-2020	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,496.37	543.61
40 05 19 00-2021	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,680.09	449.59
40 05 19 00-2022	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,788.22	478.11
40 05 19 00-2023	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,875.42	492.82
40 05 19 00-2024	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,959.91	505.75
40 05 19 00-2025	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,246.88	543.61
40 05 19 00-2026	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,469.15	583.72
40 05 19 00-2027	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,720.61	577.27
40 05 19 00-2028	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,710.25	617.14
40 05 19 00-2029	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,522.23	655.01
40 05 19 00-2030	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,745.38	695.12
40 05 19 00-2031	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,224.66	757.50
40 05 19 00-2032	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,983.69	797.60
40 05 19 00-2033	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,870.55	715.17
40 05 19 00-2034	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	9,244.82	755.27
40 05 19 00-2035	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	9,793.75	817.65
40 05 19 00-2036	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	10,655.70	857.76
40 05 19 00-2037	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,293.84	969.16
40 05 19 00-2038	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,967.76	931.28
40 05 19 00-2039	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,647.50	1,042.68
40 05 19 00-2040	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	19,136.99	1,102.83
40 05 19 00-2041	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	21,350.56	1,187.49
40 05 19 00-2042	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	23,862.66	1,247.64
40 05 19 00-2043	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	26,730.69	1,321.17
40 05 19 00-2044		Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges *(40 05 19 00-0001)*		
40 05 19 00-2045	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	187.52	57.93
40 05 19 00-2046	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	281.62	85.55
40 05 19 00-2047	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	408.85	101.59
40 05 19 00-2048	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	562.75	118.53
40 05 19 00-2049	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	726.82	139.03
40 05 19 00-2050	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	961.48	155.96
40 05 19 00-2051	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,148.81	178.23

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2052	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,556.09	249.53
40 05 19 00-2053	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,067.03	311.91
40 05 19 00-2054	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,945.73	378.75
40 05 19 00-2055	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	4,154.94	441.14
40 05 19 00-2056	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,427.18	485.69
40 05 19 00-2057	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	10,474.99	534.70
40 05 19 00-2058	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	13,845.90	601.54

40 05 19 00-2059 Flanged End (FxF), Ductile Iron Flexible Ball Joint *(40 05 19 00-0001)*

Note: All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.

40 05 19 00-2060	EA	3" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	1,175.76	104.46
40 05 19 00-2061	EA	4" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	1,364.89	122.56
40 05 19 00-2062	EA	6" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	2,171.40	153.20
40 05 19 00-2063	EA	8" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	2,881.04	175.10
40 05 19 00-2064	EA	10" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	3,977.09	263.24
40 05 19 00-2065	EA	12" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	5,204.62	287.17
40 05 19 00-2066	EA	14" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	6,029.13	315.89
40 05 19 00-2067	EA	16" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	6,701.59	350.95
40 05 19 00-2068	EA	18" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	9,595.02	394.86
40 05 19 00-2069	EA	20" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	9,800.39	451.21
40 05 19 00-2070	EA	24" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	17,142.33	526.48
40 05 19 00-2071	EA	30" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	60,090.06	631.77
40 05 19 00-2072	EA	36" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	85,324.27	789.72

40 05 19 00-2073 Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Piping *(40 05 19)*

Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be ceramic epoxy. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4103 for bolts, 40 05 19 00-4118 for gaskets.

40 05 19 00-2074 Flanged End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2073)*

40 05 19 00-2075 4" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2076	EA	4" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,227.12	254.87
		For Class 52 Rating, Deduct	*-92.50*	
		For Class 54 Rating, Add	*130.78*	
		For Class 55 Rating, Add	*196.80*	
		For Class 56 Rating, Add	*261.98*	
40 05 19 00-2077	EA	4" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,353.56	259.33
		For Class 52 Rating, Deduct	*-105.67*	
		For Class 54 Rating, Add	*148.81*	
		For Class 55 Rating, Add	*223.65*	
		For Class 56 Rating, Add	*297.53*	
40 05 19 00-2078	EA	4" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,479.98	263.79
		For Class 52 Rating, Deduct	*-118.83*	
		For Class 54 Rating, Add	*166.84*	
		For Class 55 Rating, Add	*250.50*	
		For Class 56 Rating, Add	*333.08*	
40 05 19 00-2079	EA	4" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,606.43	268.24
		For Class 52 Rating, Deduct	*-132.00*	
		For Class 54 Rating, Add	*184.88*	
		For Class 55 Rating, Add	*277.35*	
		For Class 56 Rating, Add	*368.63*	
40 05 19 00-2080	EA	4" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,732.86	272.70
		For Class 52 Rating, Deduct	*-145.16*	
		For Class 54 Rating, Add	*202.91*	
		For Class 55 Rating, Add	*304.20*	
		For Class 56 Rating, Add	*404.18*	
40 05 19 00-2081	EA	4" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,859.31	277.16
		For Class 52 Rating, Deduct	*-158.33*	
		For Class 54 Rating, Add	*220.94*	
		For Class 55 Rating, Add	*331.06*	
		For Class 56 Rating, Add	*439.73*	
40 05 19 00-2082	EA	4" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,985.73	281.61
		For Class 52 Rating, Deduct	*-171.50*	
		For Class 54 Rating, Add	*238.98*	
		For Class 55 Rating, Add	*357.91*	
		For Class 56 Rating, Add	*475.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2083	EA	4" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,112.17	286.07
		For Class 52 Rating, Deduct	*-184.66*	
		For Class 54 Rating, Add	*257.01*	
		For Class 55 Rating, Add	*384.76*	
		For Class 56 Rating, Add	*510.83*	
40 05 19 00-2084	EA	4" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,238.61	290.53
		For Class 52 Rating, Deduct	*-197.83*	
		For Class 54 Rating, Add	*275.05*	
		For Class 55 Rating, Add	*411.61*	
		For Class 56 Rating, Add	*546.38*	
40 05 19 00-2085	EA	4" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,365.04	294.97
		For Class 52 Rating, Deduct	*-210.99*	
		For Class 54 Rating, Add	*293.08*	
		For Class 55 Rating, Add	*438.46*	
		For Class 56 Rating, Add	*581.93*	
40 05 19 00-2086	EA	4" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,491.48	299.43
		For Class 52 Rating, Deduct	*-224.16*	
		For Class 54 Rating, Add	*311.11*	
		For Class 55 Rating, Add	*465.32*	
		For Class 56 Rating, Add	*617.48*	
40 05 19 00-2087	EA	4" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,617.92	303.89
		For Class 52 Rating, Deduct	*-237.32*	
		For Class 54 Rating, Add	*329.15*	
		For Class 55 Rating, Add	*492.17*	
		For Class 56 Rating, Add	*653.03*	
40 05 19 00-2088	EA	4" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,744.35	308.34
		For Class 52 Rating, Deduct	*-250.49*	
		For Class 54 Rating, Add	*347.18*	
		For Class 55 Rating, Add	*519.02*	
		For Class 56 Rating, Add	*688.58*	
40 05 19 00-2089	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,870.79	312.80
		For Class 52 Rating, Deduct	*-263.65*	
		For Class 54 Rating, Add	*365.21*	
		For Class 55 Rating, Add	*545.87*	
		For Class 56 Rating, Add	*724.13*	
40 05 19 00-2090	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,997.22	317.26
		For Class 52 Rating, Deduct	*-276.82*	
		For Class 54 Rating, Add	*383.25*	
		For Class 55 Rating, Add	*572.72*	
		For Class 56 Rating, Add	*759.68*	
40 05 19 00-2091	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,123.67	321.72
		For Class 52 Rating, Deduct	*-289.98*	
		For Class 54 Rating, Add	*401.28*	
		For Class 55 Rating, Add	*599.58*	
		For Class 56 Rating, Add	*795.23*	
40 05 19 00-2092	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,250.10	326.17
		For Class 52 Rating, Deduct	*-303.15*	
		For Class 54 Rating, Add	*419.32*	
		For Class 55 Rating, Add	*626.43*	
		For Class 56 Rating, Add	*830.78*	
40 05 19 00-2093	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,376.52	330.63
		For Class 52 Rating, Deduct	*-316.31*	
		For Class 54 Rating, Add	*437.35*	
		For Class 55 Rating, Add	*653.28*	
		For Class 56 Rating, Add	*866.33*	
40 05 19 00-2094	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,502.97	335.09
		For Class 52 Rating, Deduct	*-329.48*	
		For Class 54 Rating, Add	*455.38*	
		For Class 55 Rating, Add	*680.13*	
		For Class 56 Rating, Add	*901.88*	
40 05 19 00-2095	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,629.40	339.53
		For Class 52 Rating, Deduct	*-342.64*	
		For Class 54 Rating, Add	*473.42*	
		For Class 55 Rating, Add	*706.98*	
		For Class 56 Rating, Add	*937.43*	
40 05 19 00-2096	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,755.85	343.99
		For Class 52 Rating, Deduct	*-355.81*	
		For Class 54 Rating, Add	*491.45*	
		For Class 55 Rating, Add	*733.83*	
		For Class 56 Rating, Add	*972.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2097	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,882.27	348.45
		For Class 52 Rating, Deduct	*-368.98*	
		For Class 54 Rating, Add	*509.48*	
		For Class 55 Rating, Add	*760.68*	
		For Class 56 Rating, Add	*1,008.53*	
40 05 19 00-2098	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,008.71	352.90
		For Class 52 Rating, Deduct	*-382.14*	
		For Class 54 Rating, Add	*527.52*	
		For Class 55 Rating, Add	*787.54*	
		For Class 56 Rating, Add	*1,044.08*	
40 05 19 00-2099	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,135.15	357.36
		For Class 52 Rating, Deduct	*-395.31*	
		For Class 54 Rating, Add	*545.55*	
		For Class 55 Rating, Add	*814.39*	
		For Class 56 Rating, Add	*1,079.63*	
40 05 19 00-2100	EA	4" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,261.58	361.82
		For Class 52 Rating, Deduct	*-408.47*	
		For Class 54 Rating, Add	*563.59*	
		For Class 55 Rating, Add	*841.24*	
		For Class 56 Rating, Add	*1,115.18*	
40 05 19 00-2101	EA	4" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,388.02	366.27
		For Class 52 Rating, Deduct	*-421.64*	
		For Class 54 Rating, Add	*581.62*	
		For Class 55 Rating, Add	*868.09*	
		For Class 56 Rating, Add	*1,150.73*	
40 05 19 00-2102	EA	4" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,514.46	370.73
		For Class 52 Rating, Deduct	*-434.80*	
		For Class 54 Rating, Add	*599.65*	
		For Class 55 Rating, Add	*894.94*	
		For Class 56 Rating, Add	*1,186.28*	
40 05 19 00-2103	EA	4" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,640.89	375.19
		For Class 52 Rating, Deduct	*-447.97*	
		For Class 54 Rating, Add	*617.69*	
		For Class 55 Rating, Add	*921.79*	
		For Class 56 Rating, Add	*1,221.83*	
40 05 19 00-2104	EA	4" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,767.33	379.64
		For Class 52 Rating, Deduct	*-461.13*	
		For Class 54 Rating, Add	*635.72*	
		For Class 55 Rating, Add	*948.65*	
		For Class 56 Rating, Add	*1,257.38*	
40 05 19 00-2105	EA	4" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,893.76	384.10
		For Class 52 Rating, Deduct	*-474.30*	
		For Class 54 Rating, Add	*653.75*	
		For Class 55 Rating, Add	*975.50*	
		For Class 56 Rating, Add	*1,292.93*	
40 05 19 00-2106	EA	4" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,020.21	388.55
		For Class 52 Rating, Deduct	*-487.46*	
		For Class 54 Rating, Add	*671.79*	
		For Class 55 Rating, Add	*1,002.35*	
		For Class 56 Rating, Add	*1,328.48*	
40 05 19 00-2107	EA	4" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,146.64	393.00
		For Class 52 Rating, Deduct	*-500.63*	
		For Class 54 Rating, Add	*689.82*	
		For Class 55 Rating, Add	*1,029.20*	
		For Class 56 Rating, Add	*1,364.03*	
40 05 19 00-2108	EA	4" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,273.07	397.46
		For Class 52 Rating, Deduct	*-513.79*	
		For Class 54 Rating, Add	*707.86*	
		For Class 55 Rating, Add	*1,056.05*	
		For Class 56 Rating, Add	*1,399.58*	
40 05 19 00-2109	EA	4" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,399.51	401.92
		For Class 52 Rating, Deduct	*-526.96*	
		For Class 54 Rating, Add	*725.89*	
		For Class 55 Rating, Add	*1,082.91*	
		For Class 56 Rating, Add	*1,435.13*	
40 05 19 00-2110	EA	4" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,525.95	406.38
		For Class 52 Rating, Deduct	*-540.13*	
		For Class 54 Rating, Add	*743.92*	
		For Class 55 Rating, Add	*1,109.76*	
		For Class 56 Rating, Add	*1,470.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2111	EA	4" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,652.39	410.83
		For Class 52 Rating, Deduct	*-553.29*	
		For Class 54 Rating, Add	*761.96*	
		For Class 55 Rating, Add	*1,136.61*	
		For Class 56 Rating, Add	*1,506.23*	
40 05 19 00-2112	EA	4" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,778.82	415.29
		For Class 52 Rating, Deduct	*-566.46*	
		For Class 54 Rating, Add	*779.99*	
		For Class 55 Rating, Add	*1,163.46*	
		For Class 56 Rating, Add	*1,541.78*	
40 05 19 00-2113	EA	4" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,905.25	419.75
		For Class 52 Rating, Deduct	*-579.62*	
		For Class 54 Rating, Add	*798.02*	
		For Class 55 Rating, Add	*1,190.31*	
		For Class 56 Rating, Add	*1,577.33*	
40 05 19 00-2114	EA	4" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,031.70	424.20
		For Class 52 Rating, Deduct	*-592.79*	
		For Class 54 Rating, Add	*816.06*	
		For Class 55 Rating, Add	*1,217.17*	
		For Class 56 Rating, Add	*1,612.88*	

40 05 19 00-2115 6" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2116	EA	6" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,534.92	320.82
		For Class 52 Rating, Deduct	*-115.37*	
		For Class 54 Rating, Add	*163.16*	
		For Class 55 Rating, Add	*245.55*	
		For Class 56 Rating, Add	*326.90*	
40 05 19 00-2117	EA	6" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,680.24	325.28
		For Class 52 Rating, Deduct	*-130.61*	
		For Class 54 Rating, Add	*184.02*	
		For Class 55 Rating, Add	*276.62*	
		For Class 56 Rating, Add	*368.03*	
40 05 19 00-2118	EA	6" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,825.58	329.74
		For Class 52 Rating, Deduct	*-145.86*	
		For Class 54 Rating, Add	*204.89*	
		For Class 55 Rating, Add	*307.68*	
		For Class 56 Rating, Add	*409.15*	
40 05 19 00-2119	EA	6" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,970.91	334.19
		For Class 52 Rating, Deduct	*-161.10*	
		For Class 54 Rating, Add	*225.76*	
		For Class 55 Rating, Add	*338.75*	
		For Class 56 Rating, Add	*450.27*	
40 05 19 00-2120	EA	6" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,116.25	338.65
		For Class 52 Rating, Deduct	*-176.35*	
		For Class 54 Rating, Add	*246.63*	
		For Class 55 Rating, Add	*369.82*	
		For Class 56 Rating, Add	*491.40*	
40 05 19 00-2121	EA	6" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,261.58	343.11
		For Class 52 Rating, Deduct	*-191.59*	
		For Class 54 Rating, Add	*267.50*	
		For Class 55 Rating, Add	*400.88*	
		For Class 56 Rating, Add	*532.52*	
40 05 19 00-2122	EA	6" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,406.91	347.56
		For Class 52 Rating, Deduct	*-206.83*	
		For Class 54 Rating, Add	*288.37*	
		For Class 55 Rating, Add	*431.95*	
		For Class 56 Rating, Add	*573.65*	
40 05 19 00-2123	EA	6" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,552.25	352.01
		For Class 52 Rating, Deduct	*-222.08*	
		For Class 54 Rating, Add	*309.23*	
		For Class 55 Rating, Add	*463.01*	
		For Class 56 Rating, Add	*614.77*	
40 05 19 00-2124	EA	6" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,697.59	356.47
		For Class 52 Rating, Deduct	*-237.32*	
		For Class 54 Rating, Add	*330.10*	
		For Class 55 Rating, Add	*494.08*	
		For Class 56 Rating, Add	*655.90*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2125	EA	6" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,842.91	360.92
		For Class 52 Rating, Deduct	*-252.57*	
		For Class 54 Rating, Add	*350.97*	
		For Class 55 Rating, Add	*525.15*	
		For Class 56 Rating, Add	*697.02*	
40 05 19 00-2126	EA	6" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,988.25	365.38
		For Class 52 Rating, Deduct	*-267.81*	
		For Class 54 Rating, Add	*371.84*	
		For Class 55 Rating, Add	*556.21*	
		For Class 56 Rating, Add	*738.15*	
40 05 19 00-2127	EA	6" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,133.58	369.84
		For Class 52 Rating, Deduct	*-283.05*	
		For Class 54 Rating, Add	*392.71*	
		For Class 55 Rating, Add	*587.28*	
		For Class 56 Rating, Add	*779.27*	
40 05 19 00-2128	EA	6" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,278.93	374.29
		For Class 52 Rating, Deduct	*-298.30*	
		For Class 54 Rating, Add	*413.58*	
		For Class 55 Rating, Add	*618.34*	
		For Class 56 Rating, Add	*820.40*	
40 05 19 00-2129	EA	6" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,424.25	378.75
		For Class 52 Rating, Deduct	*-313.54*	
		For Class 54 Rating, Add	*434.44*	
		For Class 55 Rating, Add	*649.41*	
		For Class 56 Rating, Add	*861.52*	
40 05 19 00-2130	EA	6" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,569.58	383.21
		For Class 52 Rating, Deduct	*-328.79*	
		For Class 54 Rating, Add	*455.31*	
		For Class 55 Rating, Add	*680.47*	
		For Class 56 Rating, Add	*902.65*	
40 05 19 00-2131	EA	6" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,714.92	387.66
		For Class 52 Rating, Deduct	*-344.03*	
		For Class 54 Rating, Add	*476.18*	
		For Class 55 Rating, Add	*711.54*	
		For Class 56 Rating, Add	*943.77*	
40 05 19 00-2132	EA	6" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,860.25	392.12
		For Class 52 Rating, Deduct	*-359.28*	
		For Class 54 Rating, Add	*497.05*	
		For Class 55 Rating, Add	*742.61*	
		For Class 56 Rating, Add	*984.90*	
40 05 19 00-2133	EA	6" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,005.59	396.57
		For Class 52 Rating, Deduct	*-374.52*	
		For Class 54 Rating, Add	*517.92*	
		For Class 55 Rating, Add	*773.67*	
		For Class 56 Rating, Add	*1,026.02*	
40 05 19 00-2134	EA	6" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,150.92	401.03
		For Class 52 Rating, Deduct	*-389.76*	
		For Class 54 Rating, Add	*538.79*	
		For Class 55 Rating, Add	*804.74*	
		For Class 56 Rating, Add	*1,067.15*	
40 05 19 00-2135	EA	6" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,296.25	405.48
		For Class 52 Rating, Deduct	*-405.01*	
		For Class 54 Rating, Add	*559.65*	
		For Class 55 Rating, Add	*835.80*	
		For Class 56 Rating, Add	*1,108.27*	
40 05 19 00-2136	EA	6" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,441.58	409.94
		For Class 52 Rating, Deduct	*-420.25*	
		For Class 54 Rating, Add	*580.52*	
		For Class 55 Rating, Add	*866.87*	
		For Class 56 Rating, Add	*1,149.40*	
40 05 19 00-2137	EA	6" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,586.92	414.40
		For Class 52 Rating, Deduct	*-435.50*	
		For Class 54 Rating, Add	*601.39*	
		For Class 55 Rating, Add	*897.94*	
		For Class 56 Rating, Add	*1,190.52*	
40 05 19 00-2138	EA	6" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,732.26	418.85
		For Class 52 Rating, Deduct	*-450.74*	
		For Class 54 Rating, Add	*622.26*	
		For Class 55 Rating, Add	*929.00*	
		For Class 56 Rating, Add	*1,231.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2139	EA	6" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,877.59	423.31
		For Class 52 Rating, Deduct	*-465.98*	
		For Class 54 Rating, Add	*643.13*	
		For Class 55 Rating, Add	*960.07*	
		For Class 56 Rating, Add	*1,272.77*	
40 05 19 00-2140	EA	6" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,022.91	427.77
		For Class 52 Rating, Deduct	*-481.23*	
		For Class 54 Rating, Add	*664.00*	
		For Class 55 Rating, Add	*991.13*	
		For Class 56 Rating, Add	*1,313.90*	
40 05 19 00-2141	EA	6" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,168.26	432.22
		For Class 52 Rating, Deduct	*-496.47*	
		For Class 54 Rating, Add	*684.87*	
		For Class 55 Rating, Add	*1,022.20*	
		For Class 56 Rating, Add	*1,355.02*	
40 05 19 00-2142	EA	6" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,313.59	436.68
		For Class 52 Rating, Deduct	*-511.72*	
		For Class 54 Rating, Add	*705.73*	
		For Class 55 Rating, Add	*1,053.27*	
		For Class 56 Rating, Add	*1,396.15*	
40 05 19 00-2143	EA	6" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,458.92	441.14
		For Class 52 Rating, Deduct	*-526.96*	
		For Class 54 Rating, Add	*726.60*	
		For Class 55 Rating, Add	*1,084.33*	
		For Class 56 Rating, Add	*1,437.27*	
40 05 19 00-2144	EA	6" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,604.25	445.58
		For Class 52 Rating, Deduct	*-542.20*	
		For Class 54 Rating, Add	*747.47*	
		For Class 55 Rating, Add	*1,115.40*	
		For Class 56 Rating, Add	*1,478.40*	
40 05 19 00-2145	EA	6" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,749.59	450.04
		For Class 52 Rating, Deduct	*-557.45*	
		For Class 54 Rating, Add	*768.34*	
		For Class 55 Rating, Add	*1,146.46*	
		For Class 56 Rating, Add	*1,519.52*	
40 05 19 00-2146	EA	6" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,894.93	454.50
		For Class 52 Rating, Deduct	*-572.69*	
		For Class 54 Rating, Add	*789.21*	
		For Class 55 Rating, Add	*1,177.53*	
		For Class 56 Rating, Add	*1,560.65*	
40 05 19 00-2147	EA	6" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,040.25	458.95
		For Class 52 Rating, Deduct	*-587.94*	
		For Class 54 Rating, Add	*810.08*	
		For Class 55 Rating, Add	*1,208.60*	
		For Class 56 Rating, Add	*1,601.77*	
40 05 19 00-2148	EA	6" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,185.59	463.41
		For Class 52 Rating, Deduct	*-603.18*	
		For Class 54 Rating, Add	*830.94*	
		For Class 55 Rating, Add	*1,239.66*	
		For Class 56 Rating, Add	*1,642.89*	
40 05 19 00-2149	EA	6" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,330.93	467.87
		For Class 52 Rating, Deduct	*-618.42*	
		For Class 54 Rating, Add	*851.81*	
		For Class 55 Rating, Add	*1,270.73*	
		For Class 56 Rating, Add	*1,684.02*	
40 05 19 00-2150	EA	6" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,476.26	472.32
		For Class 52 Rating, Deduct	*-633.67*	
		For Class 54 Rating, Add	*872.68*	
		For Class 55 Rating, Add	*1,301.79*	
		For Class 56 Rating, Add	*1,725.15*	
40 05 19 00-2151	EA	6" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,621.59	476.78
		For Class 52 Rating, Deduct	*-648.91*	
		For Class 54 Rating, Add	*893.55*	
		For Class 55 Rating, Add	*1,332.86*	
		For Class 56 Rating, Add	*1,766.27*	
40 05 19 00-2152	EA	6" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,766.92	481.24
		For Class 52 Rating, Deduct	*-664.16*	
		For Class 54 Rating, Add	*914.42*	
		For Class 55 Rating, Add	*1,363.92*	
		For Class 56 Rating, Add	*1,807.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2153	EA	6" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,912.27	485.69
		For Class 52 Rating, Deduct	*-679.40*	
		For Class 54 Rating, Add	*935.29*	
		For Class 55 Rating, Add	*1,394.99*	
		For Class 56 Rating, Add	*1,848.52*	
40 05 19 00-2154	EA	6" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,057.60	490.14
		For Class 52 Rating, Deduct	*-694.64*	
		For Class 54 Rating, Add	*956.15*	
		For Class 55 Rating, Add	*1,426.06*	
		For Class 56 Rating, Add	*1,889.65*	

40 05 19 00-2155 8" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2156	EA	8" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,136.08	409.94
		For Class 52 Rating, Deduct	*-166.65*	
		For Class 54 Rating, Add	*234.70*	
		For Class 55 Rating, Add	*352.74*	
		For Class 56 Rating, Add	*469.27*	
40 05 19 00-2157	EA	8" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,322.35	414.40
		For Class 52 Rating, Deduct	*-186.39*	
		For Class 54 Rating, Add	*261.71*	
		For Class 55 Rating, Add	*392.94*	
		For Class 56 Rating, Add	*522.47*	
40 05 19 00-2158	EA	8" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,508.64	418.85
		For Class 52 Rating, Deduct	*-206.14*	
		For Class 54 Rating, Add	*288.72*	
		For Class 55 Rating, Add	*433.14*	
		For Class 56 Rating, Add	*575.68*	
40 05 19 00-2159	EA	8" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,694.92	423.31
		For Class 52 Rating, Deduct	*-225.89*	
		For Class 54 Rating, Add	*315.73*	
		For Class 55 Rating, Add	*473.33*	
		For Class 56 Rating, Add	*628.88*	
40 05 19 00-2160	EA	8" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,881.19	427.77
		For Class 52 Rating, Deduct	*-245.64*	
		For Class 54 Rating, Add	*342.74*	
		For Class 55 Rating, Add	*513.53*	
		For Class 56 Rating, Add	*682.09*	
40 05 19 00-2161	EA	8" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,067.47	432.22
		For Class 52 Rating, Deduct	*-265.38*	
		For Class 54 Rating, Add	*369.75*	
		For Class 55 Rating, Add	*553.72*	
		For Class 56 Rating, Add	*735.29*	
40 05 19 00-2162	EA	8" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,253.75	436.68
		For Class 52 Rating, Deduct	*-285.13*	
		For Class 54 Rating, Add	*396.76*	
		For Class 55 Rating, Add	*593.92*	
		For Class 56 Rating, Add	*788.49*	
40 05 19 00-2163	EA	8" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,440.03	441.14
		For Class 52 Rating, Deduct	*-304.88*	
		For Class 54 Rating, Add	*423.77*	
		For Class 55 Rating, Add	*634.12*	
		For Class 56 Rating, Add	*841.70*	
40 05 19 00-2164	EA	8" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,626.31	445.58
		For Class 52 Rating, Deduct	*-324.63*	
		For Class 54 Rating, Add	*450.78*	
		For Class 55 Rating, Add	*674.32*	
		For Class 56 Rating, Add	*894.90*	
40 05 19 00-2165	EA	8" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,812.58	450.04
		For Class 52 Rating, Deduct	*-344.38*	
		For Class 54 Rating, Add	*477.79*	
		For Class 55 Rating, Add	*714.51*	
		For Class 56 Rating, Add	*948.10*	
40 05 19 00-2166	EA	8" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,998.87	454.50
		For Class 52 Rating, Deduct	*-364.13*	
		For Class 54 Rating, Add	*504.80*	
		For Class 55 Rating, Add	*754.71*	
		For Class 56 Rating, Add	*1,001.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2167	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,185.14	458.95
		For Class 52 Rating, Deduct	*-383.87*	
		For Class 54 Rating, Add	*531.81*	
		For Class 55 Rating, Add	*794.91*	
		For Class 56 Rating, Add	*1,054.51*	
40 05 19 00-2168	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,371.42	463.41
		For Class 52 Rating, Deduct	*-403.62*	
		For Class 54 Rating, Add	*558.82*	
		For Class 55 Rating, Add	*835.10*	
		For Class 56 Rating, Add	*1,107.71*	
40 05 19 00-2169	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,557.70	467.87
		For Class 52 Rating, Deduct	*-423.37*	
		For Class 54 Rating, Add	*585.83*	
		For Class 55 Rating, Add	*875.30*	
		For Class 56 Rating, Add	*1,160.92*	
40 05 19 00-2170	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,743.98	472.32
		For Class 52 Rating, Deduct	*-443.12*	
		For Class 54 Rating, Add	*612.84*	
		For Class 55 Rating, Add	*915.50*	
		For Class 56 Rating, Add	*1,214.12*	
40 05 19 00-2171	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,930.26	476.78
		For Class 52 Rating, Deduct	*-462.87*	
		For Class 54 Rating, Add	*639.85*	
		For Class 55 Rating, Add	*955.69*	
		For Class 56 Rating, Add	*1,267.33*	
40 05 19 00-2172	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,116.53	481.24
		For Class 52 Rating, Deduct	*-482.61*	
		For Class 54 Rating, Add	*666.86*	
		For Class 55 Rating, Add	*995.89*	
		For Class 56 Rating, Add	*1,320.53*	
40 05 19 00-2173	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,302.82	485.69
		For Class 52 Rating, Deduct	*-502.36*	
		For Class 54 Rating, Add	*693.87*	
		For Class 55 Rating, Add	*1,036.08*	
		For Class 56 Rating, Add	*1,373.73*	
40 05 19 00-2174	EA	8" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,489.10	490.14
		For Class 52 Rating, Deduct	*-522.11*	
		For Class 54 Rating, Add	*720.88*	
		For Class 55 Rating, Add	*1,076.28*	
		For Class 56 Rating, Add	*1,426.94*	
40 05 19 00-2175	EA	8" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,675.36	494.60
		For Class 52 Rating, Deduct	*-541.86*	
		For Class 54 Rating, Add	*747.89*	
		For Class 55 Rating, Add	*1,116.48*	
		For Class 56 Rating, Add	*1,480.14*	
40 05 19 00-2176	EA	8" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,861.65	499.06
		For Class 52 Rating, Deduct	*-561.61*	
		For Class 54 Rating, Add	*774.90*	
		For Class 55 Rating, Add	*1,156.67*	
		For Class 56 Rating, Add	*1,533.34*	
40 05 19 00-2177	EA	8" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,047.93	503.51
		For Class 52 Rating, Deduct	*-581.35*	
		For Class 54 Rating, Add	*801.91*	
		For Class 55 Rating, Add	*1,196.87*	
		For Class 56 Rating, Add	*1,586.55*	
40 05 19 00-2178	EA	8" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,234.21	507.97
		For Class 52 Rating, Deduct	*-601.10*	
		For Class 54 Rating, Add	*828.92*	
		For Class 55 Rating, Add	*1,237.07*	
		For Class 56 Rating, Add	*1,639.75*	
40 05 19 00-2179	EA	8" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,420.48	512.43
		For Class 52 Rating, Deduct	*-620.85*	
		For Class 54 Rating, Add	*855.93*	
		For Class 55 Rating, Add	*1,277.26*	
		For Class 56 Rating, Add	*1,692.95*	
40 05 19 00-2180	EA	8" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,606.76	516.88
		For Class 52 Rating, Deduct	*-640.60*	
		For Class 54 Rating, Add	*882.94*	
		For Class 55 Rating, Add	*1,317.46*	
		For Class 56 Rating, Add	*1,746.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2181	EA	8" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,793.05	521.34
		For Class 52 Rating, Deduct	*-660.35*	
		For Class 54 Rating, Add	*909.95*	
		For Class 55 Rating, Add	*1,357.66*	
		For Class 56 Rating, Add	*1,799.36*	
40 05 19 00-2182	EA	8" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,979.31	525.80
		For Class 52 Rating, Deduct	*-680.09*	
		For Class 54 Rating, Add	*936.96*	
		For Class 55 Rating, Add	*1,397.85*	
		For Class 56 Rating, Add	*1,852.56*	
40 05 19 00-2183	EA	8" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,165.60	530.25
		For Class 52 Rating, Deduct	*-699.84*	
		For Class 54 Rating, Add	*963.97*	
		For Class 55 Rating, Add	*1,438.05*	
		For Class 56 Rating, Add	*1,905.77*	
40 05 19 00-2184	EA	8" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,351.88	534.70
		For Class 52 Rating, Deduct	*-719.59*	
		For Class 54 Rating, Add	*990.98*	
		For Class 55 Rating, Add	*1,478.25*	
		For Class 56 Rating, Add	*1,958.97*	
40 05 19 00-2185	EA	8" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,538.16	539.16
		For Class 52 Rating, Deduct	*-739.34*	
		For Class 54 Rating, Add	*1,017.99*	
		For Class 55 Rating, Add	*1,518.44*	
		For Class 56 Rating, Add	*2,012.18*	
40 05 19 00-2186	EA	8" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,724.43	543.61
		For Class 52 Rating, Deduct	*-759.08*	
		For Class 54 Rating, Add	*1,045.00*	
		For Class 55 Rating, Add	*1,558.64*	
		For Class 56 Rating, Add	*2,065.38*	
40 05 19 00-2187	EA	8" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,910.71	548.07
		For Class 52 Rating, Deduct	*-778.83*	
		For Class 54 Rating, Add	*1,072.01*	
		For Class 55 Rating, Add	*1,598.84*	
		For Class 56 Rating, Add	*2,118.58*	
40 05 19 00-2188	EA	8" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,097.00	552.53
		For Class 52 Rating, Deduct	*-798.58*	
		For Class 54 Rating, Add	*1,099.02*	
		For Class 55 Rating, Add	*1,639.03*	
		For Class 56 Rating, Add	*2,171.79*	
40 05 19 00-2189	EA	8" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,283.28	556.98
		For Class 52 Rating, Deduct	*-818.33*	
		For Class 54 Rating, Add	*1,126.03*	
		For Class 55 Rating, Add	*1,679.23*	
		For Class 56 Rating, Add	*2,224.99*	
40 05 19 00-2190	EA	8" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,469.54	561.44
		For Class 52 Rating, Deduct	*-838.08*	
		For Class 54 Rating, Add	*1,153.04*	
		For Class 55 Rating, Add	*1,719.43*	
		For Class 56 Rating, Add	*2,278.19*	
40 05 19 00-2191	EA	8" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,655.83	565.90
		For Class 52 Rating, Deduct	*-857.83*	
		For Class 54 Rating, Add	*1,180.05*	
		For Class 55 Rating, Add	*1,759.62*	
		For Class 56 Rating, Add	*2,331.40*	
40 05 19 00-2192	EA	8" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,842.11	570.35
		For Class 52 Rating, Deduct	*-877.57*	
		For Class 54 Rating, Add	*1,207.06*	
		For Class 55 Rating, Add	*1,799.82*	
		For Class 56 Rating, Add	*2,384.60*	
40 05 19 00-2193	EA	8" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,028.38	574.81
		For Class 52 Rating, Deduct	*-897.32*	
		For Class 54 Rating, Add	*1,234.07*	
		For Class 55 Rating, Add	*1,840.02*	
		For Class 56 Rating, Add	*2,437.80*	
40 05 19 00-2194	EA	8" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,214.66	579.27
		For Class 52 Rating, Deduct	*-917.07*	
		For Class 54 Rating, Add	*1,261.08*	
		For Class 55 Rating, Add	*1,880.21*	
		For Class 56 Rating, Add	*2,491.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2195		10" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*		
40 05 19 00-2196	EA	10" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,696.30	499.06
		For Class 52 Rating, Deduct	*-213.42*	
		For Class 54 Rating, Add	*300.10*	
		For Class 55 Rating, Add	*450.80*	
		For Class 56 Rating, Add	*599.57*	
40 05 19 00-2197	EA	10" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,936.12	503.51
		For Class 52 Rating, Deduct	*-239.05*	
		For Class 54 Rating, Add	*335.14*	
		For Class 55 Rating, Add	*502.94*	
		For Class 56 Rating, Add	*668.56*	
40 05 19 00-2198	EA	10" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,175.94	507.97
		For Class 52 Rating, Deduct	*-264.69*	
		For Class 54 Rating, Add	*370.18*	
		For Class 55 Rating, Add	*555.07*	
		For Class 56 Rating, Add	*737.56*	
40 05 19 00-2199	EA	10" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,415.76	512.43
		For Class 52 Rating, Deduct	*-290.33*	
		For Class 54 Rating, Add	*405.22*	
		For Class 55 Rating, Add	*607.21*	
		For Class 56 Rating, Add	*806.56*	
40 05 19 00-2200	EA	10" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,655.59	516.88
		For Class 52 Rating, Deduct	*-315.97*	
		For Class 54 Rating, Add	*440.26*	
		For Class 55 Rating, Add	*659.35*	
		For Class 56 Rating, Add	*875.56*	
40 05 19 00-2201	EA	10" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,895.42	521.34
		For Class 52 Rating, Deduct	*-341.61*	
		For Class 54 Rating, Add	*475.31*	
		For Class 55 Rating, Add	*711.49*	
		For Class 56 Rating, Add	*944.56*	
40 05 19 00-2202	EA	10" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,135.23	525.80
		For Class 52 Rating, Deduct	*-367.24*	
		For Class 54 Rating, Add	*510.35*	
		For Class 55 Rating, Add	*763.62*	
		For Class 56 Rating, Add	*1,013.56*	
40 05 19 00-2203	EA	10" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,375.06	530.25
		For Class 52 Rating, Deduct	*-392.88*	
		For Class 54 Rating, Add	*545.39*	
		For Class 55 Rating, Add	*815.76*	
		For Class 56 Rating, Add	*1,082.56*	
40 05 19 00-2204	EA	10" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,614.88	534.70
		For Class 52 Rating, Deduct	*-418.52*	
		For Class 54 Rating, Add	*580.43*	
		For Class 55 Rating, Add	*867.90*	
		For Class 56 Rating, Add	*1,151.56*	
40 05 19 00-2205	EA	10" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,854.70	539.16
		For Class 52 Rating, Deduct	*-444.16*	
		For Class 54 Rating, Add	*615.47*	
		For Class 55 Rating, Add	*920.03*	
		For Class 56 Rating, Add	*1,220.56*	
40 05 19 00-2206	EA	10" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,094.52	543.61
		For Class 52 Rating, Deduct	*-469.79*	
		For Class 54 Rating, Add	*650.51*	
		For Class 55 Rating, Add	*972.17*	
		For Class 56 Rating, Add	*1,289.56*	
40 05 19 00-2207	EA	10" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,334.34	548.07
		For Class 52 Rating, Deduct	*-495.43*	
		For Class 54 Rating, Add	*685.55*	
		For Class 55 Rating, Add	*1,024.31*	
		For Class 56 Rating, Add	*1,358.55*	
40 05 19 00-2208	EA	10" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,574.17	552.53
		For Class 52 Rating, Deduct	*-521.07*	
		For Class 54 Rating, Add	*720.60*	
		For Class 55 Rating, Add	*1,076.44*	
		For Class 56 Rating, Add	*1,427.55*	
40 05 19 00-2209	EA	10" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,813.99	556.98
		For Class 52 Rating, Deduct	*-546.71*	
		For Class 54 Rating, Add	*755.64*	
		For Class 55 Rating, Add	*1,128.58*	
		For Class 56 Rating, Add	*1,496.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2210	EA	10" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,053.80	561.44
		For Class 52 Rating, Deduct	*-572.35*	
		For Class 54 Rating, Add	*790.68*	
		For Class 55 Rating, Add	*1,180.72*	
		For Class 56 Rating, Add	*1,565.55*	
40 05 19 00-2211	EA	10" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,293.63	565.90
		For Class 52 Rating, Deduct	*-597.98*	
		For Class 54 Rating, Add	*825.72*	
		For Class 55 Rating, Add	*1,232.85*	
		For Class 56 Rating, Add	*1,634.55*	
40 05 19 00-2212	EA	10" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,533.45	570.35
		For Class 52 Rating, Deduct	*-623.62*	
		For Class 54 Rating, Add	*860.76*	
		For Class 55 Rating, Add	*1,284.99*	
		For Class 56 Rating, Add	*1,703.55*	
40 05 19 00-2213	EA	10" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,773.27	574.81
		For Class 52 Rating, Deduct	*-649.26*	
		For Class 54 Rating, Add	*895.80*	
		For Class 55 Rating, Add	*1,337.13*	
		For Class 56 Rating, Add	*1,772.55*	
40 05 19 00-2214	EA	10" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,013.09	579.27
		For Class 52 Rating, Deduct	*-674.90*	
		For Class 54 Rating, Add	*930.85*	
		For Class 55 Rating, Add	*1,389.26*	
		For Class 56 Rating, Add	*1,841.55*	
40 05 19 00-2215	EA	10" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,252.91	583.72
		For Class 52 Rating, Deduct	*-700.53*	
		For Class 54 Rating, Add	*965.89*	
		For Class 55 Rating, Add	*1,441.40*	
		For Class 56 Rating, Add	*1,910.54*	
40 05 19 00-2216	EA	10" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,492.74	588.17
		For Class 52 Rating, Deduct	*-726.17*	
		For Class 54 Rating, Add	*1,000.93*	
		For Class 55 Rating, Add	*1,493.54*	
		For Class 56 Rating, Add	*1,979.54*	
40 05 19 00-2217	EA	10" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,732.55	592.63
		For Class 52 Rating, Deduct	*-751.81*	
		For Class 54 Rating, Add	*1,035.97*	
		For Class 55 Rating, Add	*1,545.67*	
		For Class 56 Rating, Add	*2,048.54*	
40 05 19 00-2218	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,972.38	597.09
		For Class 52 Rating, Deduct	*-777.45*	
		For Class 54 Rating, Add	*1,071.01*	
		For Class 55 Rating, Add	*1,597.81*	
		For Class 56 Rating, Add	*2,117.54*	
40 05 19 00-2219	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,212.20	601.54
		For Class 52 Rating, Deduct	*-803.08*	
		For Class 54 Rating, Add	*1,106.05*	
		For Class 55 Rating, Add	*1,649.95*	
		For Class 56 Rating, Add	*2,186.54*	
40 05 19 00-2220	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,452.02	606.00
		For Class 52 Rating, Deduct	*-828.72*	
		For Class 54 Rating, Add	*1,141.09*	
		For Class 55 Rating, Add	*1,702.08*	
		For Class 56 Rating, Add	*2,255.54*	
40 05 19 00-2221	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,691.84	610.46
		For Class 52 Rating, Deduct	*-854.36*	
		For Class 54 Rating, Add	*1,176.14*	
		For Class 55 Rating, Add	*1,754.22*	
		For Class 56 Rating, Add	*2,324.54*	
40 05 19 00-2222	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,931.66	614.91
		For Class 52 Rating, Deduct	*-880.00*	
		For Class 54 Rating, Add	*1,211.18*	
		For Class 55 Rating, Add	*1,806.36*	
		For Class 56 Rating, Add	*2,393.53*	
40 05 19 00-2223	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,171.49	619.37
		For Class 52 Rating, Deduct	*-905.64*	
		For Class 54 Rating, Add	*1,246.22*	
		For Class 55 Rating, Add	*1,858.49*	
		For Class 56 Rating, Add	*2,462.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2224	EA	10" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,411.31	623.83
		For Class 52 Rating, Deduct	*-931.27*	
		For Class 54 Rating, Add	*1,281.26*	
		For Class 55 Rating, Add	*1,910.63*	
		For Class 56 Rating, Add	*2,531.53*	
40 05 19 00-2225	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,651.13	628.27
		For Class 52 Rating, Deduct	*-956.91*	
		For Class 54 Rating, Add	*1,316.30*	
		For Class 55 Rating, Add	*1,962.77*	
		For Class 56 Rating, Add	*2,600.53*	
40 05 19 00-2226	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,890.96	632.73
		For Class 52 Rating, Deduct	*-982.55*	
		For Class 54 Rating, Add	*1,351.34*	
		For Class 55 Rating, Add	*2,014.90*	
		For Class 56 Rating, Add	*2,669.53*	
40 05 19 00-2227	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,130.78	637.19
		For Class 52 Rating, Deduct	*-1,008.19*	
		For Class 54 Rating, Add	*1,386.39*	
		For Class 55 Rating, Add	*2,067.04*	
		For Class 56 Rating, Add	*2,738.53*	
40 05 19 00-2228	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,370.60	641.64
		For Class 52 Rating, Deduct	*-1,033.83*	
		For Class 54 Rating, Add	*1,421.43*	
		For Class 55 Rating, Add	*2,119.18*	
		For Class 56 Rating, Add	*2,807.53*	
40 05 19 00-2229	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,610.42	646.10
		For Class 52 Rating, Deduct	*-1,059.46*	
		For Class 54 Rating, Add	*1,456.47*	
		For Class 55 Rating, Add	*2,171.31*	
		For Class 56 Rating, Add	*2,876.53*	
40 05 19 00-2230	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,850.24	650.56
		For Class 52 Rating, Deduct	*-1,085.10*	
		For Class 54 Rating, Add	*1,491.51*	
		For Class 55 Rating, Add	*2,223.45*	
		For Class 56 Rating, Add	*2,945.53*	
40 05 19 00-2231	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,090.07	655.01
		For Class 52 Rating, Deduct	*-1,110.74*	
		For Class 54 Rating, Add	*1,526.55*	
		For Class 55 Rating, Add	*2,275.59*	
		For Class 56 Rating, Add	*3,014.53*	
40 05 19 00-2232	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,329.88	659.47
		For Class 52 Rating, Deduct	*-1,136.38*	
		For Class 54 Rating, Add	*1,561.59*	
		For Class 55 Rating, Add	*2,327.72*	
		For Class 56 Rating, Add	*3,083.52*	
40 05 19 00-2233	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,569.71	663.93
		For Class 52 Rating, Deduct	*-1,162.01*	
		For Class 54 Rating, Add	*1,596.64*	
		For Class 55 Rating, Add	*2,379.86*	
		For Class 56 Rating, Add	*3,152.52*	
40 05 19 00-2234	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,809.53	668.38
		For Class 52 Rating, Deduct	*-1,187.65*	
		For Class 54 Rating, Add	*1,631.68*	
		For Class 55 Rating, Add	*2,432.00*	
		For Class 56 Rating, Add	*3,221.52*	

40 05 19 00-2235 12" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2236	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,527.86	623.83
		For Class 52 Rating, Deduct	*-284.09*	
		For Class 54 Rating, Add	*398.74*	
		For Class 55 Rating, Add	*598.62*	
		For Class 56 Rating, Add	*795.91*	
40 05 19 00-2237	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,824.37	628.27
		For Class 52 Rating, Deduct	*-315.97*	
		For Class 54 Rating, Add	*442.29*	
		For Class 55 Rating, Add	*663.40*	
		For Class 56 Rating, Add	*881.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2238	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,120.89	632.73
		For Class 52 Rating, Deduct	*-347.84*	
		For Class 54 Rating, Add	*485.83*	
		For Class 55 Rating, Add	*728.18*	
		For Class 56 Rating, Add	*967.36*	
40 05 19 00-2239	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,417.40	637.19
		For Class 52 Rating, Deduct	*-379.72*	
		For Class 54 Rating, Add	*529.38*	
		For Class 55 Rating, Add	*792.96*	
		For Class 56 Rating, Add	*1,053.08*	
40 05 19 00-2240	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,713.91	641.64
		For Class 52 Rating, Deduct	*-411.59*	
		For Class 54 Rating, Add	*572.92*	
		For Class 55 Rating, Add	*857.74*	
		For Class 56 Rating, Add	*1,138.81*	
40 05 19 00-2241	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,010.43	646.10
		For Class 52 Rating, Deduct	*-443.46*	
		For Class 54 Rating, Add	*616.47*	
		For Class 55 Rating, Add	*922.52*	
		For Class 56 Rating, Add	*1,224.53*	
40 05 19 00-2242	EA	12" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,306.94	650.56
		For Class 52 Rating, Deduct	*-475.34*	
		For Class 54 Rating, Add	*660.02*	
		For Class 55 Rating, Add	*987.30*	
		For Class 56 Rating, Add	*1,310.25*	
40 05 19 00-2243	EA	12" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,603.46	655.01
		For Class 52 Rating, Deduct	*-507.21*	
		For Class 54 Rating, Add	*703.56*	
		For Class 55 Rating, Add	*1,052.07*	
		For Class 56 Rating, Add	*1,395.98*	
40 05 19 00-2244	EA	12" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,899.97	659.47
		For Class 52 Rating, Deduct	*-539.09*	
		For Class 54 Rating, Add	*747.11*	
		For Class 55 Rating, Add	*1,116.85*	
		For Class 56 Rating, Add	*1,481.70*	
40 05 19 00-2245	EA	12" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,196.49	663.93
		For Class 52 Rating, Deduct	*-570.96*	
		For Class 54 Rating, Add	*790.65*	
		For Class 55 Rating, Add	*1,181.63*	
		For Class 56 Rating, Add	*1,567.42*	
40 05 19 00-2246	EA	12" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,493.00	668.38
		For Class 52 Rating, Deduct	*-602.83*	
		For Class 54 Rating, Add	*834.20*	
		For Class 55 Rating, Add	*1,246.41*	
		For Class 56 Rating, Add	*1,653.15*	
40 05 19 00-2247	EA	12" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,789.52	672.83
		For Class 52 Rating, Deduct	*-634.71*	
		For Class 54 Rating, Add	*877.74*	
		For Class 55 Rating, Add	*1,311.19*	
		For Class 56 Rating, Add	*1,738.87*	
40 05 19 00-2248	EA	12" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,086.03	677.29
		For Class 52 Rating, Deduct	*-666.58*	
		For Class 54 Rating, Add	*921.29*	
		For Class 55 Rating, Add	*1,375.97*	
		For Class 56 Rating, Add	*1,824.59*	
40 05 19 00-2249	EA	12" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,382.54	681.75
		For Class 52 Rating, Deduct	*-698.45*	
		For Class 54 Rating, Add	*964.83*	
		For Class 55 Rating, Add	*1,440.75*	
		For Class 56 Rating, Add	*1,910.32*	
40 05 19 00-2250	EA	12" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,679.07	686.20
		For Class 52 Rating, Deduct	*-730.33*	
		For Class 54 Rating, Add	*1,008.38*	
		For Class 55 Rating, Add	*1,505.53*	
		For Class 56 Rating, Add	*1,996.04*	
40 05 19 00-2251	EA	12" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,975.58	690.66
		For Class 52 Rating, Deduct	*-762.20*	
		For Class 54 Rating, Add	*1,051.93*	
		For Class 55 Rating, Add	*1,570.31*	
		For Class 56 Rating, Add	*2,081.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2252	EA	12" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,272.08	695.12
		For Class 52 Rating, Deduct	*-794.08*	
		For Class 54 Rating, Add	*1,095.47*	
		For Class 55 Rating, Add	*1,635.09*	
		For Class 56 Rating, Add	*2,167.48*	
40 05 19 00-2253	EA	12" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,568.61	699.57
		For Class 52 Rating, Deduct	*-825.95*	
		For Class 54 Rating, Add	*1,139.02*	
		For Class 55 Rating, Add	*1,699.87*	
		For Class 56 Rating, Add	*2,253.21*	
40 05 19 00-2254	EA	12" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,865.12	704.03
		For Class 52 Rating, Deduct	*-857.83*	
		For Class 54 Rating, Add	*1,182.56*	
		For Class 55 Rating, Add	*1,764.65*	
		For Class 56 Rating, Add	*2,338.93*	
40 05 19 00-2255	EA	12" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,161.63	708.49
		For Class 52 Rating, Deduct	*-889.70*	
		For Class 54 Rating, Add	*1,226.11*	
		For Class 55 Rating, Add	*1,829.42*	
		For Class 56 Rating, Add	*2,424.65*	
40 05 19 00-2256	EA	12" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,458.15	712.94
		For Class 52 Rating, Deduct	*-921.57*	
		For Class 54 Rating, Add	*1,269.65*	
		For Class 55 Rating, Add	*1,894.21*	
		For Class 56 Rating, Add	*2,510.38*	
40 05 19 00-2257	EA	12" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,754.66	717.40
		For Class 52 Rating, Deduct	*-953.45*	
		For Class 54 Rating, Add	*1,313.20*	
		For Class 55 Rating, Add	*1,958.98*	
		For Class 56 Rating, Add	*2,596.10*	
40 05 19 00-2258	EA	12" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,051.18	721.85
		For Class 52 Rating, Deduct	*-985.32*	
		For Class 54 Rating, Add	*1,356.74*	
		For Class 55 Rating, Add	*2,023.76*	
		For Class 56 Rating, Add	*2,681.82*	
40 05 19 00-2259	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,347.69	726.30
		For Class 52 Rating, Deduct	*-1,017.20*	
		For Class 54 Rating, Add	*1,400.29*	
		For Class 55 Rating, Add	*2,088.54*	
		For Class 56 Rating, Add	*2,767.55*	
40 05 19 00-2260	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,641.06	730.76
		For Class 52 Rating, Deduct	*-1,048.72*	
		For Class 54 Rating, Add	*1,443.36*	
		For Class 55 Rating, Add	*2,152.62*	
		For Class 56 Rating, Add	*2,852.34*	
40 05 19 00-2261	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,940.72	735.22
		For Class 52 Rating, Deduct	*-1,080.94*	
		For Class 54 Rating, Add	*1,487.38*	
		For Class 55 Rating, Add	*2,218.10*	
		For Class 56 Rating, Add	*2,938.99*	
40 05 19 00-2262	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,237.24	739.67
		For Class 52 Rating, Deduct	*-1,112.82*	
		For Class 54 Rating, Add	*1,530.93*	
		For Class 55 Rating, Add	*2,282.88*	
		For Class 56 Rating, Add	*3,024.72*	
40 05 19 00-2263	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,533.75	744.13
		For Class 52 Rating, Deduct	*-1,144.69*	
		For Class 54 Rating, Add	*1,574.47*	
		For Class 55 Rating, Add	*2,347.66*	
		For Class 56 Rating, Add	*3,110.44*	
40 05 19 00-2264	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,830.26	748.59
		For Class 52 Rating, Deduct	*-1,176.56*	
		For Class 54 Rating, Add	*1,618.02*	
		For Class 55 Rating, Add	*2,412.44*	
		For Class 56 Rating, Add	*3,196.16*	
40 05 19 00-2265	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,126.78	753.04
		For Class 52 Rating, Deduct	*-1,208.44*	
		For Class 54 Rating, Add	*1,661.56*	
		For Class 55 Rating, Add	*2,477.22*	
		For Class 56 Rating, Add	*3,281.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2266	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,423.29	757.50
		For Class 52 Rating, Deduct	*-1,240.31*	
		For Class 54 Rating, Add	*1,705.11*	
		For Class 55 Rating, Add	*2,542.00*	
		For Class 56 Rating, Add	*3,367.61*	
40 05 19 00-2267	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,719.80	761.96
		For Class 52 Rating, Deduct	*-1,272.19*	
		For Class 54 Rating, Add	*1,748.65*	
		For Class 55 Rating, Add	*2,606.78*	
		For Class 56 Rating, Add	*3,453.33*	
40 05 19 00-2268	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,016.32	766.41
		For Class 52 Rating, Deduct	*-1,304.06*	
		For Class 54 Rating, Add	*1,792.20*	
		For Class 55 Rating, Add	*2,671.55*	
		For Class 56 Rating, Add	*3,539.06*	
40 05 19 00-2269	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,312.84	770.86
		For Class 52 Rating, Deduct	*-1,335.93*	
		For Class 54 Rating, Add	*1,835.74*	
		For Class 55 Rating, Add	*2,736.34*	
		For Class 56 Rating, Add	*3,624.78*	
40 05 19 00-2270	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,609.35	775.32
		For Class 52 Rating, Deduct	*-1,367.81*	
		For Class 54 Rating, Add	*1,879.29*	
		For Class 55 Rating, Add	*2,801.11*	
		For Class 56 Rating, Add	*3,710.50*	
40 05 19 00-2271	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,905.86	779.78
		For Class 52 Rating, Deduct	*-1,399.68*	
		For Class 54 Rating, Add	*1,922.83*	
		For Class 55 Rating, Add	*2,865.89*	
		For Class 56 Rating, Add	*3,796.23*	
40 05 19 00-2272	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,202.38	784.23
		For Class 52 Rating, Deduct	*-1,431.56*	
		For Class 54 Rating, Add	*1,966.38*	
		For Class 55 Rating, Add	*2,930.67*	
		For Class 56 Rating, Add	*3,881.95*	
40 05 19 00-2273	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,498.90	788.69
		For Class 52 Rating, Deduct	*-1,463.43*	
		For Class 54 Rating, Add	*2,009.93*	
		For Class 55 Rating, Add	*2,995.45*	
		For Class 56 Rating, Add	*3,967.67*	
40 05 19 00-2274	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,795.40	793.15
		For Class 52 Rating, Deduct	*-1,495.30*	
		For Class 54 Rating, Add	*2,053.47*	
		For Class 55 Rating, Add	*3,060.23*	
		For Class 56 Rating, Add	*4,053.39*	

40 05 19 00-2275 14" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2276	EA	14" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,727.91	748.59
		For Class 52 Rating, Deduct	*-395.31*	
		For Class 54 Rating, Add	*552.66*	
		For Class 55 Rating, Add	*828.61*	
		For Class 56 Rating, Add	*1,100.97*	
40 05 19 00-2277	EA	14" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,087.43	753.04
		For Class 52 Rating, Deduct	*-434.11*	
		For Class 54 Rating, Add	*605.66*	
		For Class 55 Rating, Add	*907.44*	
		For Class 56 Rating, Add	*1,205.28*	
40 05 19 00-2278	EA	14" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,446.92	757.50
		For Class 52 Rating, Deduct	*-472.91*	
		For Class 54 Rating, Add	*658.65*	
		For Class 55 Rating, Add	*986.27*	
		For Class 56 Rating, Add	*1,309.58*	
40 05 19 00-2279	EA	14" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,806.43	761.96
		For Class 52 Rating, Deduct	*-511.72*	
		For Class 54 Rating, Add	*711.65*	
		For Class 55 Rating, Add	*1,065.09*	
		For Class 56 Rating, Add	*1,413.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2280	EA	14" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,165.94	766.41
		For Class 52 Rating, Deduct	*-550.52*	
		For Class 54 Rating, Add	*764.64*	
		For Class 55 Rating, Add	*1,143.92*	
		For Class 56 Rating, Add	*1,518.19*	
40 05 19 00-2281	EA	14" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,525.45	770.86
		For Class 52 Rating, Deduct	*-589.32*	
		For Class 54 Rating, Add	*817.64*	
		For Class 55 Rating, Add	*1,222.75*	
		For Class 56 Rating, Add	*1,622.50*	
40 05 19 00-2282	EA	14" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,884.95	775.32
		For Class 52 Rating, Deduct	*-628.12*	
		For Class 54 Rating, Add	*870.63*	
		For Class 55 Rating, Add	*1,301.57*	
		For Class 56 Rating, Add	*1,726.81*	
40 05 19 00-2283	EA	14" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,244.46	779.78
		For Class 52 Rating, Deduct	*-666.93*	
		For Class 54 Rating, Add	*923.62*	
		For Class 55 Rating, Add	*1,380.40*	
		For Class 56 Rating, Add	*1,831.11*	
40 05 19 00-2284	EA	14" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,603.97	784.23
		For Class 52 Rating, Deduct	*-705.73*	
		For Class 54 Rating, Add	*976.62*	
		For Class 55 Rating, Add	*1,459.23*	
		For Class 56 Rating, Add	*1,935.42*	
40 05 19 00-2285	EA	14" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,963.48	788.69
		For Class 52 Rating, Deduct	*-744.53*	
		For Class 54 Rating, Add	*1,029.61*	
		For Class 55 Rating, Add	*1,538.05*	
		For Class 56 Rating, Add	*2,039.72*	
40 05 19 00-2286	EA	14" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,322.98	793.15
		For Class 52 Rating, Deduct	*-783.34*	
		For Class 54 Rating, Add	*1,082.61*	
		For Class 55 Rating, Add	*1,616.88*	
		For Class 56 Rating, Add	*2,144.03*	
40 05 19 00-2287	EA	14" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,682.49	797.60
		For Class 52 Rating, Deduct	*-822.14*	
		For Class 54 Rating, Add	*1,135.60*	
		For Class 55 Rating, Add	*1,695.71*	
		For Class 56 Rating, Add	*2,248.34*	
40 05 19 00-2288	EA	14" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,042.00	802.06
		For Class 52 Rating, Deduct	*-860.94*	
		For Class 54 Rating, Add	*1,188.60*	
		For Class 55 Rating, Add	*1,774.53*	
		For Class 56 Rating, Add	*2,352.64*	
40 05 19 00-2289	EA	14" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,401.50	806.52
		For Class 52 Rating, Deduct	*-899.75*	
		For Class 54 Rating, Add	*1,241.59*	
		For Class 55 Rating, Add	*1,853.36*	
		For Class 56 Rating, Add	*2,456.95*	
40 05 19 00-2290	EA	14" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,761.01	810.97
		For Class 52 Rating, Deduct	*-938.55*	
		For Class 54 Rating, Add	*1,294.59*	
		For Class 55 Rating, Add	*1,932.19*	
		For Class 56 Rating, Add	*2,561.25*	
40 05 19 00-2291	EA	14" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,120.51	815.42
		For Class 52 Rating, Deduct	*-977.35*	
		For Class 54 Rating, Add	*1,347.58*	
		For Class 55 Rating, Add	*2,011.01*	
		For Class 56 Rating, Add	*2,665.56*	
40 05 19 00-2292	EA	14" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,480.03	819.88
		For Class 52 Rating, Deduct	*-1,016.16*	
		For Class 54 Rating, Add	*1,400.57*	
		For Class 55 Rating, Add	*2,089.84*	
		For Class 56 Rating, Add	*2,769.87*	
40 05 19 00-2293	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,839.52	824.33
		For Class 52 Rating, Deduct	*-1,054.96*	
		For Class 54 Rating, Add	*1,453.57*	
		For Class 55 Rating, Add	*2,168.66*	
		For Class 56 Rating, Add	*2,874.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2294	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,199.03	828.79
		For Class 52 Rating, Deduct	*-1,093.76*	
		For Class 54 Rating, Add	*1,506.56*	
		For Class 55 Rating, Add	*2,247.49*	
		For Class 56 Rating, Add	*2,978.48*	
40 05 19 00-2295	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,558.54	833.25
		For Class 52 Rating, Deduct	*-1,132.56*	
		For Class 54 Rating, Add	*1,559.56*	
		For Class 55 Rating, Add	*2,326.32*	
		For Class 56 Rating, Add	*3,082.78*	
40 05 19 00-2296	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,918.05	837.70
		For Class 52 Rating, Deduct	*-1,171.37*	
		For Class 54 Rating, Add	*1,612.55*	
		For Class 55 Rating, Add	*2,405.14*	
		For Class 56 Rating, Add	*3,187.09*	
40 05 19 00-2297	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,277.55	842.16
		For Class 52 Rating, Deduct	*-1,210.17*	
		For Class 54 Rating, Add	*1,665.54*	
		For Class 55 Rating, Add	*2,483.97*	
		For Class 56 Rating, Add	*3,291.39*	
40 05 19 00-2298	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,637.06	846.62
		For Class 52 Rating, Deduct	*-1,248.97*	
		For Class 54 Rating, Add	*1,718.54*	
		For Class 55 Rating, Add	*2,562.80*	
		For Class 56 Rating, Add	*3,395.70*	
40 05 19 00-2299	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,996.56	851.08
		For Class 52 Rating, Deduct	*-1,287.78*	
		For Class 54 Rating, Add	*1,771.53*	
		For Class 55 Rating, Add	*2,641.62*	
		For Class 56 Rating, Add	*3,500.00*	
40 05 19 00-2300	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,356.08	855.53
		For Class 52 Rating, Deduct	*-1,326.58*	
		For Class 54 Rating, Add	*1,824.53*	
		For Class 55 Rating, Add	*2,720.45*	
		For Class 56 Rating, Add	*3,604.31*	
40 05 19 00-2301	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,715.57	859.98
		For Class 52 Rating, Deduct	*-1,365.38*	
		For Class 54 Rating, Add	*1,877.52*	
		For Class 55 Rating, Add	*2,799.28*	
		For Class 56 Rating, Add	*3,708.62*	
40 05 19 00-2302	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,075.09	864.44
		For Class 52 Rating, Deduct	*-1,404.19*	
		For Class 54 Rating, Add	*1,930.52*	
		For Class 55 Rating, Add	*2,878.10*	
		For Class 56 Rating, Add	*3,812.92*	
40 05 19 00-2303	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,434.59	868.89
		For Class 52 Rating, Deduct	*-1,442.99*	
		For Class 54 Rating, Add	*1,983.51*	
		For Class 55 Rating, Add	*2,956.93*	
		For Class 56 Rating, Add	*3,917.23*	
40 05 19 00-2304	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,794.10	873.35
		For Class 52 Rating, Deduct	*-1,481.79*	
		For Class 54 Rating, Add	*2,036.51*	
		For Class 55 Rating, Add	*3,035.76*	
		For Class 56 Rating, Add	*4,021.54*	
40 05 19 00-2305	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,153.60	877.81
		For Class 52 Rating, Deduct	*-1,520.59*	
		For Class 54 Rating, Add	*2,089.50*	
		For Class 55 Rating, Add	*3,114.58*	
		For Class 56 Rating, Add	*4,125.84*	
40 05 19 00-2306	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,513.11	882.26
		For Class 52 Rating, Deduct	*-1,559.40*	
		For Class 54 Rating, Add	*2,142.49*	
		For Class 55 Rating, Add	*3,193.41*	
		For Class 56 Rating, Add	*4,230.15*	
40 05 19 00-2307	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,872.62	886.72
		For Class 52 Rating, Deduct	*-1,598.20*	
		For Class 54 Rating, Add	*2,195.49*	
		For Class 55 Rating, Add	*3,272.23*	
		For Class 56 Rating, Add	*4,334.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2308	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,232.12	891.18
		For Class 52 Rating, Deduct	*-1,637.00*	
		For Class 54 Rating, Add	*2,248.48*	
		For Class 55 Rating, Add	*3,351.06*	
		For Class 56 Rating, Add	*4,438.76*	
40 05 19 00-2309	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,591.63	895.63
		For Class 52 Rating, Deduct	*-1,675.81*	
		For Class 54 Rating, Add	*2,301.48*	
		For Class 55 Rating, Add	*3,429.89*	
		For Class 56 Rating, Add	*4,543.07*	
40 05 19 00-2310	EA	14" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,951.14	900.09
		For Class 52 Rating, Deduct	*-1,714.61*	
		For Class 54 Rating, Add	*2,354.47*	
		For Class 55 Rating, Add	*3,508.71*	
		For Class 56 Rating, Add	*4,647.37*	
40 05 19 00-2311	EA	14" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,310.65	904.55
		For Class 52 Rating, Deduct	*-1,753.41*	
		For Class 54 Rating, Add	*2,407.47*	
		For Class 55 Rating, Add	*3,587.54*	
		For Class 56 Rating, Add	*4,751.68*	
40 05 19 00-2312	EA	14" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,670.15	908.99
		For Class 52 Rating, Deduct	*-1,792.22*	
		For Class 54 Rating, Add	*2,460.46*	
		For Class 55 Rating, Add	*3,666.37*	
		For Class 56 Rating, Add	*4,855.98*	
40 05 19 00-2313	EA	14" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,029.66	913.45
		For Class 52 Rating, Deduct	*-1,831.02*	
		For Class 54 Rating, Add	*2,513.45*	
		For Class 55 Rating, Add	*3,745.19*	
		For Class 56 Rating, Add	*4,960.29*	

40 05 19 00-2314 16" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2315	EA	16" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,548.22	855.53
		For Class 52 Rating, Deduct	*-467.72*	
		For Class 54 Rating, Add	*653.35*	
		For Class 55 Rating, Add	*979.30*	
		For Class 56 Rating, Add	*1,300.99*	
40 05 19 00-2316	EA	16" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,964.41	859.98
		For Class 52 Rating, Deduct	*-512.76*	
		For Class 54 Rating, Add	*714.85*	
		For Class 55 Rating, Add	*1,070.77*	
		For Class 56 Rating, Add	*1,422.02*	
40 05 19 00-2317	EA	16" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,380.62	864.44
		For Class 52 Rating, Deduct	*-557.79*	
		For Class 54 Rating, Add	*776.35*	
		For Class 55 Rating, Add	*1,162.24*	
		For Class 56 Rating, Add	*1,543.06*	
40 05 19 00-2318	EA	16" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,796.81	868.89
		For Class 52 Rating, Deduct	*-602.83*	
		For Class 54 Rating, Add	*837.84*	
		For Class 55 Rating, Add	*1,253.70*	
		For Class 56 Rating, Add	*1,664.08*	
40 05 19 00-2319	EA	16" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,213.01	873.35
		For Class 52 Rating, Deduct	*-647.87*	
		For Class 54 Rating, Add	*899.34*	
		For Class 55 Rating, Add	*1,345.17*	
		For Class 56 Rating, Add	*1,785.11*	
40 05 19 00-2320	EA	16" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,629.21	877.81
		For Class 52 Rating, Deduct	*-692.91*	
		For Class 54 Rating, Add	*960.84*	
		For Class 55 Rating, Add	*1,436.64*	
		For Class 56 Rating, Add	*1,906.14*	
40 05 19 00-2321	EA	16" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,045.41	882.26
		For Class 52 Rating, Deduct	*-737.95*	
		For Class 54 Rating, Add	*1,022.34*	
		For Class 55 Rating, Add	*1,528.11*	
		For Class 56 Rating, Add	*2,027.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2322	EA	16" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,461.62	886.72
		For Class 52 Rating, Deduct	*-782.99*	
		For Class 54 Rating, Add	*1,083.84*	
		For Class 55 Rating, Add	*1,619.58*	
		For Class 56 Rating, Add	*2,148.21*	
40 05 19 00-2323	EA	16" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,877.80	891.18
		For Class 52 Rating, Deduct	*-828.03*	
		For Class 54 Rating, Add	*1,145.33*	
		For Class 55 Rating, Add	*1,711.05*	
		For Class 56 Rating, Add	*2,269.23*	
40 05 19 00-2324	EA	16" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,294.00	895.63
		For Class 52 Rating, Deduct	*-873.07*	
		For Class 54 Rating, Add	*1,206.83*	
		For Class 55 Rating, Add	*1,802.52*	
		For Class 56 Rating, Add	*2,390.26*	
40 05 19 00-2325	EA	16" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,710.21	900.09
		For Class 52 Rating, Deduct	*-918.11*	
		For Class 54 Rating, Add	*1,268.33*	
		For Class 55 Rating, Add	*1,893.99*	
		For Class 56 Rating, Add	*2,511.30*	
40 05 19 00-2326	EA	16" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,126.41	904.55
		For Class 52 Rating, Deduct	*-963.15*	
		For Class 54 Rating, Add	*1,329.83*	
		For Class 55 Rating, Add	*1,985.46*	
		For Class 56 Rating, Add	*2,632.33*	
40 05 19 00-2327	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,542.61	908.99
		For Class 52 Rating, Deduct	*-1,008.19*	
		For Class 54 Rating, Add	*1,391.33*	
		For Class 55 Rating, Add	*2,076.93*	
		For Class 56 Rating, Add	*2,753.36*	
40 05 19 00-2328	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,958.80	913.45
		For Class 52 Rating, Deduct	*-1,053.23*	
		For Class 54 Rating, Add	*1,452.83*	
		For Class 55 Rating, Add	*2,168.39*	
		For Class 56 Rating, Add	*2,874.38*	
40 05 19 00-2329	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,375.00	917.91
		For Class 52 Rating, Deduct	*-1,098.27*	
		For Class 54 Rating, Add	*1,514.32*	
		For Class 55 Rating, Add	*2,259.86*	
		For Class 56 Rating, Add	*2,995.42*	
40 05 19 00-2330	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,791.21	922.36
		For Class 52 Rating, Deduct	*-1,143.30*	
		For Class 54 Rating, Add	*1,575.82*	
		For Class 55 Rating, Add	*2,351.33*	
		For Class 56 Rating, Add	*3,116.45*	
40 05 19 00-2331	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,207.40	926.82
		For Class 52 Rating, Deduct	*-1,188.34*	
		For Class 54 Rating, Add	*1,637.32*	
		For Class 55 Rating, Add	*2,442.80*	
		For Class 56 Rating, Add	*3,237.48*	
40 05 19 00-2332	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,623.61	931.28
		For Class 52 Rating, Deduct	*-1,233.38*	
		For Class 54 Rating, Add	*1,698.82*	
		For Class 55 Rating, Add	*2,534.27*	
		For Class 56 Rating, Add	*3,358.51*	
40 05 19 00-2333	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,039.80	935.73
		For Class 52 Rating, Deduct	*-1,278.42*	
		For Class 54 Rating, Add	*1,760.32*	
		For Class 55 Rating, Add	*2,625.74*	
		For Class 56 Rating, Add	*3,479.54*	
40 05 19 00-2334	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,455.99	940.19
		For Class 52 Rating, Deduct	*-1,323.46*	
		For Class 54 Rating, Add	*1,821.81*	
		For Class 55 Rating, Add	*2,717.21*	
		For Class 56 Rating, Add	*3,600.57*	
40 05 19 00-2335	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,872.20	944.65
		For Class 52 Rating, Deduct	*-1,368.50*	
		For Class 54 Rating, Add	*1,883.31*	
		For Class 55 Rating, Add	*2,808.68*	
		For Class 56 Rating, Add	*3,721.60*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2336	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,288.40	949.11
		For Class 52 Rating, Deduct	*-1,413.54*	
		For Class 54 Rating, Add	*1,944.81*	
		For Class 55 Rating, Add	*2,900.15*	
		For Class 56 Rating, Add	*3,842.63*	
40 05 19 00-2337	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,704.61	953.55
		For Class 52 Rating, Deduct	*-1,458.58*	
		For Class 54 Rating, Add	*2,006.31*	
		For Class 55 Rating, Add	*2,991.61*	
		For Class 56 Rating, Add	*3,963.66*	
40 05 19 00-2338	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,120.79	958.01
		For Class 52 Rating, Deduct	*-1,503.62*	
		For Class 54 Rating, Add	*2,067.81*	
		For Class 55 Rating, Add	*3,083.08*	
		For Class 56 Rating, Add	*4,084.69*	
40 05 19 00-2339	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,536.99	962.47
		For Class 52 Rating, Deduct	*-1,548.66*	
		For Class 54 Rating, Add	*2,129.31*	
		For Class 55 Rating, Add	*3,174.55*	
		For Class 56 Rating, Add	*4,205.72*	
40 05 19 00-2340	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,953.20	966.92
		For Class 52 Rating, Deduct	*-1,593.70*	
		For Class 54 Rating, Add	*2,190.80*	
		For Class 55 Rating, Add	*3,266.02*	
		For Class 56 Rating, Add	*4,326.75*	
40 05 19 00-2341	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,369.40	971.38
		For Class 52 Rating, Deduct	*-1,638.74*	
		For Class 54 Rating, Add	*2,252.30*	
		For Class 55 Rating, Add	*3,357.49*	
		For Class 56 Rating, Add	*4,447.78*	
40 05 19 00-2342	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,785.60	975.84
		For Class 52 Rating, Deduct	*-1,683.78*	
		For Class 54 Rating, Add	*2,313.80*	
		For Class 55 Rating, Add	*3,448.96*	
		For Class 56 Rating, Add	*4,568.81*	
40 05 19 00-2343	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,201.79	980.29
		For Class 52 Rating, Deduct	*-1,728.82*	
		For Class 54 Rating, Add	*2,375.30*	
		For Class 55 Rating, Add	*3,540.43*	
		For Class 56 Rating, Add	*4,689.84*	
40 05 19 00-2344	EA	16" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,617.99	984.75
		For Class 52 Rating, Deduct	*-1,773.85*	
		For Class 54 Rating, Add	*2,436.80*	
		For Class 55 Rating, Add	*3,631.90*	
		For Class 56 Rating, Add	*4,810.87*	
40 05 19 00-2345	EA	16" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,034.20	989.21
		For Class 52 Rating, Deduct	*-1,818.89*	
		For Class 54 Rating, Add	*2,498.30*	
		For Class 55 Rating, Add	*3,723.37*	
		For Class 56 Rating, Add	*4,931.90*	
40 05 19 00-2346	EA	16" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,450.39	993.66
		For Class 52 Rating, Deduct	*-1,863.93*	
		For Class 54 Rating, Add	*2,559.79*	
		For Class 55 Rating, Add	*3,814.83*	
		For Class 56 Rating, Add	*5,052.93*	
40 05 19 00-2347	EA	16" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,866.60	998.11
		For Class 52 Rating, Deduct	*-1,908.97*	
		For Class 54 Rating, Add	*2,621.29*	
		For Class 55 Rating, Add	*3,906.30*	
		For Class 56 Rating, Add	*5,173.96*	
40 05 19 00-2348	EA	16" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,282.79	1,002.57
		For Class 52 Rating, Deduct	*-1,954.01*	
		For Class 54 Rating, Add	*2,682.79*	
		For Class 55 Rating, Add	*3,997.77*	
		For Class 56 Rating, Add	*5,294.99*	
40 05 19 00-2349	EA	16" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,698.98	1,007.02
		For Class 52 Rating, Deduct	*-1,999.05*	
		For Class 54 Rating, Add	*2,744.29*	
		For Class 55 Rating, Add	*4,089.24*	
		For Class 56 Rating, Add	*5,416.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2350	EA	16" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,115.19	1,011.48
		For Class 52 Rating, Deduct	*-2,044.09*	
		For Class 54 Rating, Add	*2,805.79*	
		For Class 55 Rating, Add	*4,180.71*	
		For Class 56 Rating, Add	*5,537.05*	
40 05 19 00-2351	EA	16" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,531.39	1,015.94
		For Class 52 Rating, Deduct	*-2,089.13*	
		For Class 54 Rating, Add	*2,867.29*	
		For Class 55 Rating, Add	*4,272.18*	
		For Class 56 Rating, Add	*5,658.08*	
40 05 19 00-2352	EA	16" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,947.60	1,020.39
		For Class 52 Rating, Deduct	*-2,134.17*	
		For Class 54 Rating, Add	*2,928.78*	
		For Class 55 Rating, Add	*4,363.65*	
		For Class 56 Rating, Add	*5,779.11*	

40 05 19 00-2353 18" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2354	EA	18" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,468.84	964.25
		For Class 52 Rating, Deduct	*-550.86*	
		For Class 54 Rating, Add	*768.71*	
		For Class 55 Rating, Add	*1,151.82*	
		For Class 56 Rating, Add	*1,529.91*	
40 05 19 00-2355	EA	18" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,948.04	968.71
		For Class 52 Rating, Deduct	*-602.83*	
		For Class 54 Rating, Add	*839.66*	
		For Class 55 Rating, Add	*1,257.33*	
		For Class 56 Rating, Add	*1,669.53*	
40 05 19 00-2356	EA	18" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,427.23	973.17
		For Class 52 Rating, Deduct	*-654.80*	
		For Class 54 Rating, Add	*910.60*	
		For Class 55 Rating, Add	*1,362.85*	
		For Class 56 Rating, Add	*1,809.14*	
40 05 19 00-2357	EA	18" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,906.42	977.62
		For Class 52 Rating, Deduct	*-706.77*	
		For Class 54 Rating, Add	*981.55*	
		For Class 55 Rating, Add	*1,468.36*	
		For Class 56 Rating, Add	*1,948.75*	
40 05 19 00-2358	EA	18" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,385.61	982.07
		For Class 52 Rating, Deduct	*-758.74*	
		For Class 54 Rating, Add	*1,052.50*	
		For Class 55 Rating, Add	*1,573.88*	
		For Class 56 Rating, Add	*2,088.37*	
40 05 19 00-2359	EA	18" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,864.80	986.53
		For Class 52 Rating, Deduct	*-810.71*	
		For Class 54 Rating, Add	*1,123.45*	
		For Class 55 Rating, Add	*1,679.40*	
		For Class 56 Rating, Add	*2,227.98*	
40 05 19 00-2360	EA	18" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,344.00	990.98
		For Class 52 Rating, Deduct	*-862.68*	
		For Class 54 Rating, Add	*1,194.39*	
		For Class 55 Rating, Add	*1,784.91*	
		For Class 56 Rating, Add	*2,367.59*	
40 05 19 00-2361	EA	18" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,823.19	995.44
		For Class 52 Rating, Deduct	*-914.64*	
		For Class 54 Rating, Add	*1,265.34*	
		For Class 55 Rating, Add	*1,890.43*	
		For Class 56 Rating, Add	*2,507.20*	
40 05 19 00-2362	EA	18" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,302.37	999.90
		For Class 52 Rating, Deduct	*-966.61*	
		For Class 54 Rating, Add	*1,336.29*	
		For Class 55 Rating, Add	*1,995.95*	
		For Class 56 Rating, Add	*2,646.82*	
40 05 19 00-2363	EA	18" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,781.57	1,004.35
		For Class 52 Rating, Deduct	*-1,018.58*	
		For Class 54 Rating, Add	*1,407.23*	
		For Class 55 Rating, Add	*2,101.46*	
		For Class 56 Rating, Add	*2,786.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2364	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,260.76	1,008.81
		For Class 52 Rating, Deduct	*-1,070.55*	
		For Class 54 Rating, Add	*1,478.18*	
		For Class 55 Rating, Add	*2,206.98*	
		For Class 56 Rating, Add	*2,926.04*	
40 05 19 00-2365	EA	18" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,739.96	1,013.27
		For Class 52 Rating, Deduct	*-1,122.52*	
		For Class 54 Rating, Add	*1,549.13*	
		For Class 55 Rating, Add	*2,312.49*	
		For Class 56 Rating, Add	*3,065.66*	
40 05 19 00-2366	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,219.14	1,017.72
		For Class 52 Rating, Deduct	*-1,174.49*	
		For Class 54 Rating, Add	*1,620.08*	
		For Class 55 Rating, Add	*2,418.01*	
		For Class 56 Rating, Add	*3,205.27*	
40 05 19 00-2367	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,698.33	1,022.18
		For Class 52 Rating, Deduct	*-1,226.45*	
		For Class 54 Rating, Add	*1,691.02*	
		For Class 55 Rating, Add	*2,523.53*	
		For Class 56 Rating, Add	*3,344.88*	
40 05 19 00-2368	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,177.53	1,026.63
		For Class 52 Rating, Deduct	*-1,278.42*	
		For Class 54 Rating, Add	*1,761.97*	
		For Class 55 Rating, Add	*2,629.04*	
		For Class 56 Rating, Add	*3,484.49*	
40 05 19 00-2369	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,656.71	1,031.09
		For Class 52 Rating, Deduct	*-1,330.39*	
		For Class 54 Rating, Add	*1,832.92*	
		For Class 55 Rating, Add	*2,734.56*	
		For Class 56 Rating, Add	*3,624.11*	
40 05 19 00-2370	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,135.91	1,035.54
		For Class 52 Rating, Deduct	*-1,382.36*	
		For Class 54 Rating, Add	*1,903.86*	
		For Class 55 Rating, Add	*2,840.07*	
		For Class 56 Rating, Add	*3,763.72*	
40 05 19 00-2371	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,615.10	1,040.00
		For Class 52 Rating, Deduct	*-1,434.33*	
		For Class 54 Rating, Add	*1,974.81*	
		For Class 55 Rating, Add	*2,945.59*	
		For Class 56 Rating, Add	*3,903.33*	
40 05 19 00-2372	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,094.29	1,044.46
		For Class 52 Rating, Deduct	*-1,486.30*	
		For Class 54 Rating, Add	*2,045.76*	
		For Class 55 Rating, Add	*3,051.11*	
		For Class 56 Rating, Add	*4,042.95*	
40 05 19 00-2373	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,573.48	1,048.91
		For Class 52 Rating, Deduct	*-1,538.26*	
		For Class 54 Rating, Add	*2,116.70*	
		For Class 55 Rating, Add	*3,156.62*	
		For Class 56 Rating, Add	*4,182.56*	
40 05 19 00-2374	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,052.67	1,053.37
		For Class 52 Rating, Deduct	*-1,590.23*	
		For Class 54 Rating, Add	*2,187.65*	
		For Class 55 Rating, Add	*3,262.14*	
		For Class 56 Rating, Add	*4,322.17*	
40 05 19 00-2375	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,531.87	1,057.83
		For Class 52 Rating, Deduct	*-1,642.20*	
		For Class 54 Rating, Add	*2,258.60*	
		For Class 55 Rating, Add	*3,367.66*	
		For Class 56 Rating, Add	*4,461.78*	
40 05 19 00-2376	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,011.06	1,062.28
		For Class 52 Rating, Deduct	*-1,694.17*	
		For Class 54 Rating, Add	*2,329.55*	
		For Class 55 Rating, Add	*3,473.17*	
		For Class 56 Rating, Add	*4,601.40*	
40 05 19 00-2377	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,490.24	1,066.74
		For Class 52 Rating, Deduct	*-1,746.14*	
		For Class 54 Rating, Add	*2,400.49*	
		For Class 55 Rating, Add	*3,578.69*	
		For Class 56 Rating, Add	*4,741.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2378	EA	18" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,969.44	1,071.20
		For Class 52 Rating, Deduct	*-1,798.11*	
		For Class 54 Rating, Add	*2,471.44*	
		For Class 55 Rating, Add	*3,684.20*	
		For Class 56 Rating, Add	*4,880.62*	
40 05 19 00-2379	EA	18" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,448.63	1,075.64
		For Class 52 Rating, Deduct	*-1,850.07*	
		For Class 54 Rating, Add	*2,542.39*	
		For Class 55 Rating, Add	*3,789.72*	
		For Class 56 Rating, Add	*5,020.24*	
40 05 19 00-2380	EA	18" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,927.83	1,080.10
		For Class 52 Rating, Deduct	*-1,902.04*	
		For Class 54 Rating, Add	*2,613.33*	
		For Class 55 Rating, Add	*3,895.24*	
		For Class 56 Rating, Add	*5,159.85*	
40 05 19 00-2381	EA	18" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,407.01	1,084.56
		For Class 52 Rating, Deduct	*-1,954.01*	
		For Class 54 Rating, Add	*2,684.28*	
		For Class 55 Rating, Add	*4,000.75*	
		For Class 56 Rating, Add	*5,299.46*	
40 05 19 00-2382	EA	18" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,886.20	1,089.01
		For Class 52 Rating, Deduct	*-2,005.98*	
		For Class 54 Rating, Add	*2,755.23*	
		For Class 55 Rating, Add	*4,106.27*	
		For Class 56 Rating, Add	*5,439.07*	
40 05 19 00-2383	EA	18" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,365.40	1,093.47
		For Class 52 Rating, Deduct	*-2,057.95*	
		For Class 54 Rating, Add	*2,826.17*	
		For Class 55 Rating, Add	*4,211.78*	
		For Class 56 Rating, Add	*5,578.69*	
40 05 19 00-2384	EA	18" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,844.58	1,097.93
		For Class 52 Rating, Deduct	*-2,109.92*	
		For Class 54 Rating, Add	*2,897.12*	
		For Class 55 Rating, Add	*4,317.30*	
		For Class 56 Rating, Add	*5,718.30*	
40 05 19 00-2385	EA	18" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,323.78	1,102.38
		For Class 52 Rating, Deduct	*-2,161.89*	
		For Class 54 Rating, Add	*2,968.07*	
		For Class 55 Rating, Add	*4,422.82*	
		For Class 56 Rating, Add	*5,857.91*	
40 05 19 00-2386	EA	18" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,802.97	1,106.84
		For Class 52 Rating, Deduct	*-2,213.85*	
		For Class 54 Rating, Add	*3,039.02*	
		For Class 55 Rating, Add	*4,528.33*	
		For Class 56 Rating, Add	*5,997.53*	
40 05 19 00-2387	EA	18" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,282.16	1,111.30
		For Class 52 Rating, Deduct	*-2,265.82*	
		For Class 54 Rating, Add	*3,109.96*	
		For Class 55 Rating, Add	*4,633.85*	
		For Class 56 Rating, Add	*6,137.14*	
40 05 19 00-2388	EA	18" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,761.35	1,115.75
		For Class 52 Rating, Deduct	*-2,317.79*	
		For Class 54 Rating, Add	*3,180.91*	
		For Class 55 Rating, Add	*4,739.37*	
		For Class 56 Rating, Add	*6,276.75*	
40 05 19 00-2389	EA	18" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,240.54	1,120.20
		For Class 52 Rating, Deduct	*-2,369.76*	
		For Class 54 Rating, Add	*3,251.86*	
		For Class 55 Rating, Add	*4,844.88*	
		For Class 56 Rating, Add	*6,416.36*	
40 05 19 00-2390	EA	18" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,719.74	1,124.66
		For Class 52 Rating, Deduct	*-2,421.73*	
		For Class 54 Rating, Add	*3,322.80*	
		For Class 55 Rating, Add	*4,950.40*	
		For Class 56 Rating, Add	*6,555.98*	
40 05 19 00-2391	EA	18" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,198.93	1,129.12
		For Class 52 Rating, Deduct	*-2,473.70*	
		For Class 54 Rating, Add	*3,393.75*	
		For Class 55 Rating, Add	*5,055.91*	
		For Class 56 Rating, Add	*6,695.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2392		20" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*		
40 05 19 00-2393	EA	20" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,573.08	1,100.60
		For Class 52 Rating, Deduct	*-649.61*	
		For Class 54 Rating, Add	*905.84*	
		For Class 55 Rating, Add	*1,356.95*	
		For Class 56 Rating, Add	*1,802.16*	
40 05 19 00-2394	EA	20" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,118.41	1,105.05
		For Class 52 Rating, Deduct	*-708.85*	
		For Class 54 Rating, Add	*986.70*	
		For Class 55 Rating, Add	*1,477.21*	
		For Class 56 Rating, Add	*1,961.28*	
40 05 19 00-2395	EA	20" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,663.74	1,109.51
		For Class 52 Rating, Deduct	*-768.09*	
		For Class 54 Rating, Add	*1,067.57*	
		For Class 55 Rating, Add	*1,597.48*	
		For Class 56 Rating, Add	*2,120.40*	
40 05 19 00-2396	EA	20" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,209.07	1,113.97
		For Class 52 Rating, Deduct	*-827.34*	
		For Class 54 Rating, Add	*1,148.44*	
		For Class 55 Rating, Add	*1,717.74*	
		For Class 56 Rating, Add	*2,279.53*	
40 05 19 00-2397	EA	20" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,754.41	1,118.43
		For Class 52 Rating, Deduct	*-886.58*	
		For Class 54 Rating, Add	*1,229.31*	
		For Class 55 Rating, Add	*1,838.01*	
		For Class 56 Rating, Add	*2,438.65*	
40 05 19 00-2398	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,299.75	1,122.88
		For Class 52 Rating, Deduct	*-945.83*	
		For Class 54 Rating, Add	*1,310.18*	
		For Class 55 Rating, Add	*1,958.28*	
		For Class 56 Rating, Add	*2,597.78*	
40 05 19 00-2399	EA	20" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,845.07	1,127.34
		For Class 52 Rating, Deduct	*-1,005.07*	
		For Class 54 Rating, Add	*1,391.05*	
		For Class 55 Rating, Add	*2,078.54*	
		For Class 56 Rating, Add	*2,756.90*	
40 05 19 00-2400	EA	20" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,390.41	1,131.80
		For Class 52 Rating, Deduct	*-1,064.31*	
		For Class 54 Rating, Add	*1,471.91*	
		For Class 55 Rating, Add	*2,198.81*	
		For Class 56 Rating, Add	*2,916.03*	
40 05 19 00-2401	EA	20" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,935.74	1,136.25
		For Class 52 Rating, Deduct	*-1,123.56*	
		For Class 54 Rating, Add	*1,552.78*	
		For Class 55 Rating, Add	*2,319.07*	
		For Class 56 Rating, Add	*3,075.15*	
40 05 19 00-2402	EA	20" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,481.06	1,140.70
		For Class 52 Rating, Deduct	*-1,182.80*	
		For Class 54 Rating, Add	*1,633.65*	
		For Class 55 Rating, Add	*2,439.34*	
		For Class 56 Rating, Add	*3,234.28*	
40 05 19 00-2403	EA	20" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,026.41	1,145.16
		For Class 52 Rating, Deduct	*-1,242.05*	
		For Class 54 Rating, Add	*1,714.52*	
		For Class 55 Rating, Add	*2,559.61*	
		For Class 56 Rating, Add	*3,393.40*	
40 05 19 00-2404	EA	20" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,571.74	1,149.61
		For Class 52 Rating, Deduct	*-1,301.29*	
		For Class 54 Rating, Add	*1,795.39*	
		For Class 55 Rating, Add	*2,679.87*	
		For Class 56 Rating, Add	*3,552.53*	
40 05 19 00-2405	EA	20" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,117.08	1,154.07
		For Class 52 Rating, Deduct	*-1,360.53*	
		For Class 54 Rating, Add	*1,876.26*	
		For Class 55 Rating, Add	*2,800.14*	
		For Class 56 Rating, Add	*3,711.65*	
40 05 19 00-2406	EA	20" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,662.40	1,158.53
		For Class 52 Rating, Deduct	*-1,419.78*	
		For Class 54 Rating, Add	*1,957.12*	
		For Class 55 Rating, Add	*2,920.40*	
		For Class 56 Rating, Add	*3,870.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2407	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,207.73	1,162.98
		For Class 52 Rating, Deduct	*-1,479.02*	
		For Class 54 Rating, Add	*2,037.99*	
		For Class 55 Rating, Add	*3,040.67*	
		For Class 56 Rating, Add	*4,029.90*	
40 05 19 00-2408	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,753.07	1,167.44
		For Class 52 Rating, Deduct	*-1,538.26*	
		For Class 54 Rating, Add	*2,118.86*	
		For Class 55 Rating, Add	*3,160.93*	
		For Class 56 Rating, Add	*4,189.02*	
40 05 19 00-2409	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,298.41	1,171.90
		For Class 52 Rating, Deduct	*-1,597.51*	
		For Class 54 Rating, Add	*2,199.73*	
		For Class 55 Rating, Add	*3,281.20*	
		For Class 56 Rating, Add	*4,348.15*	
40 05 19 00-2410	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,843.74	1,176.35
		For Class 52 Rating, Deduct	*-1,656.75*	
		For Class 54 Rating, Add	*2,280.60*	
		For Class 55 Rating, Add	*3,401.47*	
		For Class 56 Rating, Add	*4,507.27*	
40 05 19 00-2411	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,389.07	1,180.81
		For Class 52 Rating, Deduct	*-1,716.00*	
		For Class 54 Rating, Add	*2,361.46*	
		For Class 55 Rating, Add	*3,521.73*	
		For Class 56 Rating, Add	*4,666.40*	
40 05 19 00-2412	EA	20" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,934.40	1,185.26
		For Class 52 Rating, Deduct	*-1,775.24*	
		For Class 54 Rating, Add	*2,442.33*	
		For Class 55 Rating, Add	*3,642.00*	
		For Class 56 Rating, Add	*4,825.52*	
40 05 19 00-2413	EA	20" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,479.74	1,189.71
		For Class 52 Rating, Deduct	*-1,834.48*	
		For Class 54 Rating, Add	*2,523.20*	
		For Class 55 Rating, Add	*3,762.26*	
		For Class 56 Rating, Add	*4,984.65*	
40 05 19 00-2414	EA	20" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,025.06	1,194.17
		For Class 52 Rating, Deduct	*-1,893.73*	
		For Class 54 Rating, Add	*2,604.07*	
		For Class 55 Rating, Add	*3,882.53*	
		For Class 56 Rating, Add	*5,143.77*	
40 05 19 00-2415	EA	20" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,570.41	1,198.63
		For Class 52 Rating, Deduct	*-1,952.97*	
		For Class 54 Rating, Add	*2,684.94*	
		For Class 55 Rating, Add	*4,002.80*	
		For Class 56 Rating, Add	*5,302.90*	
40 05 19 00-2416	EA	20" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,115.74	1,203.08
		For Class 52 Rating, Deduct	*-2,012.22*	
		For Class 54 Rating, Add	*2,765.81*	
		For Class 55 Rating, Add	*4,123.06*	
		For Class 56 Rating, Add	*5,462.02*	
40 05 19 00-2417	EA	20" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,661.06	1,207.54
		For Class 52 Rating, Deduct	*-2,071.46*	
		For Class 54 Rating, Add	*2,846.67*	
		For Class 55 Rating, Add	*4,243.33*	
		For Class 56 Rating, Add	*5,621.15*	
40 05 19 00-2418	EA	20" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,206.40	1,212.00
		For Class 52 Rating, Deduct	*-2,130.70*	
		For Class 54 Rating, Add	*2,927.54*	
		For Class 55 Rating, Add	*4,363.59*	
		For Class 56 Rating, Add	*5,780.27*	
40 05 19 00-2419	EA	20" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,751.73	1,216.46
		For Class 52 Rating, Deduct	*-2,189.95*	
		For Class 54 Rating, Add	*3,008.41*	
		For Class 55 Rating, Add	*4,483.86*	
		For Class 56 Rating, Add	*5,939.39*	
40 05 19 00-2420	EA	20" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,297.07	1,220.91
		For Class 52 Rating, Deduct	*-2,249.19*	
		For Class 54 Rating, Add	*3,089.28*	
		For Class 55 Rating, Add	*4,604.12*	
		For Class 56 Rating, Add	*6,098.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2421	EA	20" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,842.39	1,225.37
		For Class 52 Rating, Deduct	*-2,308.44*	
		For Class 54 Rating, Add	*3,170.15*	
		For Class 55 Rating, Add	*4,724.39*	
		For Class 56 Rating, Add	*6,257.64*	
40 05 19 00-2422	EA	20" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,387.73	1,229.83
		For Class 52 Rating, Deduct	*-2,367.68*	
		For Class 54 Rating, Add	*3,251.02*	
		For Class 55 Rating, Add	*4,844.66*	
		For Class 56 Rating, Add	*6,416.77*	
40 05 19 00-2423	EA	20" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,933.07	1,234.27
		For Class 52 Rating, Deduct	*-2,426.92*	
		For Class 54 Rating, Add	*3,331.88*	
		For Class 55 Rating, Add	*4,964.92*	
		For Class 56 Rating, Add	*6,575.89*	
40 05 19 00-2424	EA	20" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,478.40	1,238.73
		For Class 52 Rating, Deduct	*-2,486.17*	
		For Class 54 Rating, Add	*3,412.75*	
		For Class 55 Rating, Add	*5,085.19*	
		For Class 56 Rating, Add	*6,735.02*	
40 05 19 00-2425	EA	20" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,023.73	1,243.19
		For Class 52 Rating, Deduct	*-2,545.41*	
		For Class 54 Rating, Add	*3,493.62*	
		For Class 55 Rating, Add	*5,205.45*	
		For Class 56 Rating, Add	*6,894.14*	
40 05 19 00-2426	EA	20" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,569.06	1,247.64
		For Class 52 Rating, Deduct	*-2,604.66*	
		For Class 54 Rating, Add	*3,574.49*	
		For Class 55 Rating, Add	*5,325.72*	
		For Class 56 Rating, Add	*7,053.27*	
40 05 19 00-2427	EA	20" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,114.39	1,252.10
		For Class 52 Rating, Deduct	*-2,663.90*	
		For Class 54 Rating, Add	*3,655.36*	
		For Class 55 Rating, Add	*5,445.98*	
		For Class 56 Rating, Add	*7,212.39*	
40 05 19 00-2428	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,659.73	1,256.56
		For Class 52 Rating, Deduct	*-2,723.14*	
		For Class 54 Rating, Add	*3,736.23*	
		For Class 55 Rating, Add	*5,566.25*	
		For Class 56 Rating, Add	*7,371.52*	
40 05 19 00-2429	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,205.06	1,261.01
		For Class 52 Rating, Deduct	*-2,782.39*	
		For Class 54 Rating, Add	*3,817.09*	
		For Class 55 Rating, Add	*5,686.52*	
		For Class 56 Rating, Add	*7,530.64*	
40 05 19 00-2430	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,750.40	1,265.47
		For Class 52 Rating, Deduct	*-2,841.63*	
		For Class 54 Rating, Add	*3,897.96*	
		For Class 55 Rating, Add	*5,806.78*	
		For Class 56 Rating, Add	*7,689.77*	

40 05 19 00-2431 24" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2432	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,341.45	1,301.12
		For Class 52 Rating, Deduct	*-810.71*	
		For Class 54 Rating, Add	*1,129.17*	
		For Class 55 Rating, Add	*1,690.84*	
		For Class 56 Rating, Add	*2,245.14*	
40 05 19 00-2433	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,015.92	1,305.57
		For Class 52 Rating, Deduct	*-884.16*	
		For Class 54 Rating, Add	*1,229.40*	
		For Class 55 Rating, Add	*1,839.90*	
		For Class 56 Rating, Add	*2,442.36*	
40 05 19 00-2434	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,690.38	1,310.03
		For Class 52 Rating, Deduct	*-957.60*	
		For Class 54 Rating, Add	*1,329.64*	
		For Class 55 Rating, Add	*1,988.96*	
		For Class 56 Rating, Add	*2,639.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2435	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,364.85	1,314.49
		For Class 52 Rating, Deduct	*-1,031.05*	
		For Class 54 Rating, Add	*1,429.88*	
		For Class 55 Rating, Add	*2,138.03*	
		For Class 56 Rating, Add	*2,836.80*	
40 05 19 00-2436	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,039.31	1,318.94
		For Class 52 Rating, Deduct	*-1,104.50*	
		For Class 54 Rating, Add	*1,530.12*	
		For Class 55 Rating, Add	*2,287.09*	
		For Class 56 Rating, Add	*3,034.01*	
40 05 19 00-2437	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,713.78	1,323.39
		For Class 52 Rating, Deduct	*-1,177.95*	
		For Class 54 Rating, Add	*1,630.36*	
		For Class 55 Rating, Add	*2,436.15*	
		For Class 56 Rating, Add	*3,231.23*	
40 05 19 00-2438	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,388.25	1,327.85
		For Class 52 Rating, Deduct	*-1,251.40*	
		For Class 54 Rating, Add	*1,730.60*	
		For Class 55 Rating, Add	*2,585.21*	
		For Class 56 Rating, Add	*3,428.45*	
40 05 19 00-2439	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,062.72	1,332.30
		For Class 52 Rating, Deduct	*-1,324.85*	
		For Class 54 Rating, Add	*1,830.83*	
		For Class 55 Rating, Add	*2,734.28*	
		For Class 56 Rating, Add	*3,625.67*	
40 05 19 00-2440	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,737.19	1,336.76
		For Class 52 Rating, Deduct	*-1,398.30*	
		For Class 54 Rating, Add	*1,931.07*	
		For Class 55 Rating, Add	*2,883.34*	
		For Class 56 Rating, Add	*3,822.89*	
40 05 19 00-2441	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,411.64	1,341.22
		For Class 52 Rating, Deduct	*-1,471.75*	
		For Class 54 Rating, Add	*2,031.31*	
		For Class 55 Rating, Add	*3,032.40*	
		For Class 56 Rating, Add	*4,020.11*	
40 05 19 00-2442	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,086.12	1,345.67
		For Class 52 Rating, Deduct	*-1,545.19*	
		For Class 54 Rating, Add	*2,131.55*	
		For Class 55 Rating, Add	*3,181.46*	
		For Class 56 Rating, Add	*4,217.33*	
40 05 19 00-2443	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,760.58	1,350.13
		For Class 52 Rating, Deduct	*-1,618.64*	
		For Class 54 Rating, Add	*2,231.79*	
		For Class 55 Rating, Add	*3,330.52*	
		For Class 56 Rating, Add	*4,414.55*	
40 05 19 00-2444	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,435.06	1,354.59
		For Class 52 Rating, Deduct	*-1,692.09*	
		For Class 54 Rating, Add	*2,332.03*	
		For Class 55 Rating, Add	*3,479.59*	
		For Class 56 Rating, Add	*4,611.77*	
40 05 19 00-2445	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,109.51	1,359.04
		For Class 52 Rating, Deduct	*-1,765.54*	
		For Class 54 Rating, Add	*2,432.26*	
		For Class 55 Rating, Add	*3,628.65*	
		For Class 56 Rating, Add	*4,808.99*	
40 05 19 00-2446	EA	24" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,783.98	1,363.50
		For Class 52 Rating, Deduct	*-1,838.99*	
		For Class 54 Rating, Add	*2,532.50*	
		For Class 55 Rating, Add	*3,777.71*	
		For Class 56 Rating, Add	*5,006.21*	
40 05 19 00-2447	EA	24" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,458.45	1,367.96
		For Class 52 Rating, Deduct	*-1,912.44*	
		For Class 54 Rating, Add	*2,632.74*	
		For Class 55 Rating, Add	*3,926.78*	
		For Class 56 Rating, Add	*5,203.42*	
40 05 19 00-2448	EA	24" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,132.92	1,372.40
		For Class 52 Rating, Deduct	*-1,985.89*	
		For Class 54 Rating, Add	*2,732.98*	
		For Class 55 Rating, Add	*4,075.84*	
		For Class 56 Rating, Add	*5,400.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2449	EA	24" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,807.38	1,376.86
		For Class 52 Rating, Deduct	*-2,059.33*	
		For Class 54 Rating, Add	*2,833.22*	
		For Class 55 Rating, Add	*4,224.90*	
		For Class 56 Rating, Add	*5,597.86*	
40 05 19 00-2450	EA	24" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,481.85	1,381.32
		For Class 52 Rating, Deduct	*-2,132.78*	
		For Class 54 Rating, Add	*2,933.46*	
		For Class 55 Rating, Add	*4,373.96*	
		For Class 56 Rating, Add	*5,795.08*	
40 05 19 00-2451	EA	24" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,156.31	1,385.77
		For Class 52 Rating, Deduct	*-2,206.23*	
		For Class 54 Rating, Add	*3,033.69*	
		For Class 55 Rating, Add	*4,523.02*	
		For Class 56 Rating, Add	*5,992.30*	
40 05 19 00-2452	EA	24" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,830.78	1,390.23
		For Class 52 Rating, Deduct	*-2,279.68*	
		For Class 54 Rating, Add	*3,133.93*	
		For Class 55 Rating, Add	*4,672.09*	
		For Class 56 Rating, Add	*6,189.52*	
40 05 19 00-2453	EA	24" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,505.24	1,394.69
		For Class 52 Rating, Deduct	*-2,353.13*	
		For Class 54 Rating, Add	*3,234.17*	
		For Class 55 Rating, Add	*4,821.15*	
		For Class 56 Rating, Add	*6,386.74*	
40 05 19 00-2454	EA	24" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,179.72	1,399.15
		For Class 52 Rating, Deduct	*-2,426.58*	
		For Class 54 Rating, Add	*3,334.41*	
		For Class 55 Rating, Add	*4,970.21*	
		For Class 56 Rating, Add	*6,583.96*	
40 05 19 00-2455	EA	24" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,854.18	1,403.60
		For Class 52 Rating, Deduct	*-2,500.03*	
		For Class 54 Rating, Add	*3,434.65*	
		For Class 55 Rating, Add	*5,119.27*	
		For Class 56 Rating, Add	*6,781.18*	
40 05 19 00-2456	EA	24" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,528.64	1,408.06
		For Class 52 Rating, Deduct	*-2,573.48*	
		For Class 54 Rating, Add	*3,534.89*	
		For Class 55 Rating, Add	*5,268.34*	
		For Class 56 Rating, Add	*6,978.40*	
40 05 19 00-2457	EA	24" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,203.11	1,412.52
		For Class 52 Rating, Deduct	*-2,646.92*	
		For Class 54 Rating, Add	*3,635.12*	
		For Class 55 Rating, Add	*5,417.40*	
		For Class 56 Rating, Add	*7,175.61*	
40 05 19 00-2458	EA	24" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,877.58	1,416.96
		For Class 52 Rating, Deduct	*-2,720.37*	
		For Class 54 Rating, Add	*3,735.36*	
		For Class 55 Rating, Add	*5,566.46*	
		For Class 56 Rating, Add	*7,372.83*	
40 05 19 00-2459	EA	24" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,552.05	1,421.42
		For Class 52 Rating, Deduct	*-2,793.82*	
		For Class 54 Rating, Add	*3,835.60*	
		For Class 55 Rating, Add	*5,715.52*	
		For Class 56 Rating, Add	*7,570.05*	
40 05 19 00-2460	EA	24" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,226.51	1,425.88
		For Class 52 Rating, Deduct	*-2,867.27*	
		For Class 54 Rating, Add	*3,935.84*	
		For Class 55 Rating, Add	*5,864.59*	
		For Class 56 Rating, Add	*7,767.27*	
40 05 19 00-2461	EA	24" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,015.75	1,506.09
		For Class 52 Rating, Deduct	*-2,940.72*	
		For Class 54 Rating, Add	*4,037.45*	
		For Class 55 Rating, Add	*6,016.40*	
		For Class 56 Rating, Add	*7,968.62*	
40 05 19 00-2462	EA	24" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,690.22	1,510.54
		For Class 52 Rating, Deduct	*-3,014.17*	
		For Class 54 Rating, Add	*4,137.69*	
		For Class 55 Rating, Add	*6,165.47*	
		For Class 56 Rating, Add	*8,165.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2463	EA	24" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,364.69	1,514.99
		For Class 52 Rating, Deduct	*-3,087.62*	
		For Class 54 Rating, Add	*4,237.93*	
		For Class 55 Rating, Add	*6,314.53*	
		For Class 56 Rating, Add	*8,363.06*	
40 05 19 00-2464	EA	24" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,039.15	1,519.45
		For Class 52 Rating, Deduct	*-3,161.06*	
		For Class 54 Rating, Add	*4,338.17*	
		For Class 55 Rating, Add	*6,463.59*	
		For Class 56 Rating, Add	*8,560.28*	
40 05 19 00-2465	EA	24" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,713.62	1,523.91
		For Class 52 Rating, Deduct	*-3,234.51*	
		For Class 54 Rating, Add	*4,438.41*	
		For Class 55 Rating, Add	*6,612.66*	
		For Class 56 Rating, Add	*8,757.50*	
40 05 19 00-2466	EA	24" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,388.08	1,528.36
		For Class 52 Rating, Deduct	*-3,307.96*	
		For Class 54 Rating, Add	*4,538.65*	
		For Class 55 Rating, Add	*6,761.72*	
		For Class 56 Rating, Add	*8,954.72*	
40 05 19 00-2467	EA	24" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,062.56	1,532.82
		For Class 52 Rating, Deduct	*-3,381.41*	
		For Class 54 Rating, Add	*4,638.88*	
		For Class 55 Rating, Add	*6,910.78*	
		For Class 56 Rating, Add	*9,151.94*	
40 05 19 00-2468	EA	24" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,737.02	1,537.28
		For Class 52 Rating, Deduct	*-3,454.86*	
		For Class 54 Rating, Add	*4,739.12*	
		For Class 55 Rating, Add	*7,059.84*	
		For Class 56 Rating, Add	*9,349.16*	
40 05 19 00-2469	EA	24" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,411.48	1,541.73
		For Class 52 Rating, Deduct	*-3,528.31*	
		For Class 54 Rating, Add	*4,839.36*	
		For Class 55 Rating, Add	*7,208.91*	
		For Class 56 Rating, Add	*9,546.38*	

40 05 19 00-2470 30" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2471	EA	30" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,447.67	1,835.82
		For Class 52 Rating, Deduct	*-1,283.27*	
		For Class 54 Rating, Add	*1,783.30*	
		For Class 55 Rating, Add	*2,668.30*	
		For Class 56 Rating, Add	*3,541.64*	
40 05 19 00-2472	EA	30" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,411.89	1,840.27
		For Class 52 Rating, Deduct	*-1,388.60*	
		For Class 54 Rating, Add	*1,927.00*	
		For Class 55 Rating, Add	*2,881.98*	
		For Class 56 Rating, Add	*3,824.34*	
40 05 19 00-2473	EA	30" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,376.13	1,844.73
		For Class 52 Rating, Deduct	*-1,493.92*	
		For Class 54 Rating, Add	*2,070.70*	
		For Class 55 Rating, Add	*3,095.66*	
		For Class 56 Rating, Add	*4,107.04*	
40 05 19 00-2474	EA	30" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,340.35	1,849.19
		For Class 52 Rating, Deduct	*-1,599.24*	
		For Class 54 Rating, Add	*2,214.40*	
		For Class 55 Rating, Add	*3,309.34*	
		For Class 56 Rating, Add	*4,389.74*	
40 05 19 00-2475	EA	30" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,304.58	1,853.64
		For Class 52 Rating, Deduct	*-1,704.56*	
		For Class 54 Rating, Add	*2,358.11*	
		For Class 55 Rating, Add	*3,523.02*	
		For Class 56 Rating, Add	*4,672.44*	
40 05 19 00-2476	EA	30" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,268.81	1,858.10
		For Class 52 Rating, Deduct	*-1,809.89*	
		For Class 54 Rating, Add	*2,501.81*	
		For Class 55 Rating, Add	*3,736.70*	
		For Class 56 Rating, Add	*4,955.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2477	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,233.04	1,862.56
		For Class 52 Rating, Deduct	*-1,915.21*	
		For Class 54 Rating, Add	*2,645.51*	
		For Class 55 Rating, Add	*3,950.38*	
		For Class 56 Rating, Add	*5,237.84*	
40 05 19 00-2478	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,197.28	1,867.01
		For Class 52 Rating, Deduct	*-2,020.53*	
		For Class 54 Rating, Add	*2,789.22*	
		For Class 55 Rating, Add	*4,164.06*	
		For Class 56 Rating, Add	*5,520.54*	
40 05 19 00-2479	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,161.51	1,871.47
		For Class 52 Rating, Deduct	*-2,125.85*	
		For Class 54 Rating, Add	*2,932.92*	
		For Class 55 Rating, Add	*4,377.74*	
		For Class 56 Rating, Add	*5,803.24*	
40 05 19 00-2480	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,125.72	1,875.93
		For Class 52 Rating, Deduct	*-2,231.18*	
		For Class 54 Rating, Add	*3,076.62*	
		For Class 55 Rating, Add	*4,591.42*	
		For Class 56 Rating, Add	*6,085.93*	
40 05 19 00-2481	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,089.96	1,880.37
		For Class 52 Rating, Deduct	*-2,336.50*	
		For Class 54 Rating, Add	*3,220.32*	
		For Class 55 Rating, Add	*4,805.10*	
		For Class 56 Rating, Add	*6,368.63*	
40 05 19 00-2482	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,054.19	1,884.83
		For Class 52 Rating, Deduct	*-2,441.82*	
		For Class 54 Rating, Add	*3,364.03*	
		For Class 55 Rating, Add	*5,018.78*	
		For Class 56 Rating, Add	*6,651.33*	
40 05 19 00-2483	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,018.42	1,889.29
		For Class 52 Rating, Deduct	*-2,547.14*	
		For Class 54 Rating, Add	*3,507.73*	
		For Class 55 Rating, Add	*5,232.46*	
		For Class 56 Rating, Add	*6,934.03*	
40 05 19 00-2484	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,982.65	1,893.74
		For Class 52 Rating, Deduct	*-2,652.47*	
		For Class 54 Rating, Add	*3,651.43*	
		For Class 55 Rating, Add	*5,446.14*	
		For Class 56 Rating, Add	*7,216.73*	
40 05 19 00-2485	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,946.88	1,898.20
		For Class 52 Rating, Deduct	*-2,757.79*	
		For Class 54 Rating, Add	*3,795.14*	
		For Class 55 Rating, Add	*5,659.82*	
		For Class 56 Rating, Add	*7,499.43*	
40 05 19 00-2486	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,911.11	1,902.66
		For Class 52 Rating, Deduct	*-2,863.11*	
		For Class 54 Rating, Add	*3,938.84*	
		For Class 55 Rating, Add	*5,873.50*	
		For Class 56 Rating, Add	*7,782.13*	
40 05 19 00-2487	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,875.33	1,907.11
		For Class 52 Rating, Deduct	*-2,968.43*	
		For Class 54 Rating, Add	*4,082.54*	
		For Class 55 Rating, Add	*6,087.18*	
		For Class 56 Rating, Add	*8,064.83*	
40 05 19 00-2488	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,839.57	1,911.57
		For Class 52 Rating, Deduct	*-3,073.76*	
		For Class 54 Rating, Add	*4,226.24*	
		For Class 55 Rating, Add	*6,300.86*	
		For Class 56 Rating, Add	*8,347.53*	
40 05 19 00-2489	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,803.80	1,916.03
		For Class 52 Rating, Deduct	*-3,179.08*	
		For Class 54 Rating, Add	*4,369.95*	
		For Class 55 Rating, Add	*6,514.54*	
		For Class 56 Rating, Add	*8,630.23*	
40 05 19 00-2490	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,768.03	1,920.48
		For Class 52 Rating, Deduct	*-3,284.40*	
		For Class 54 Rating, Add	*4,513.65*	
		For Class 55 Rating, Add	*6,728.22*	
		For Class 56 Rating, Add	*8,912.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2491	EA	30" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,732.26	1,924.94
		For Class 52 Rating, Deduct	*-3,389.73*	
		For Class 54 Rating, Add	*4,657.35*	
		For Class 55 Rating, Add	*6,941.90*	
		For Class 56 Rating, Add	*9,195.63*	
40 05 19 00-2492	EA	30" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,696.48	1,929.39
		For Class 52 Rating, Deduct	*-3,495.05*	
		For Class 54 Rating, Add	*4,801.05*	
		For Class 55 Rating, Add	*7,155.57*	
		For Class 56 Rating, Add	*9,478.32*	
40 05 19 00-2493	EA	30" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,660.72	1,933.85
		For Class 52 Rating, Deduct	*-3,600.37*	
		For Class 54 Rating, Add	*4,944.76*	
		For Class 55 Rating, Add	*7,369.25*	
		For Class 56 Rating, Add	*9,761.02*	
40 05 19 00-2494	EA	30" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,624.95	1,938.30
		For Class 52 Rating, Deduct	*-3,705.69*	
		For Class 54 Rating, Add	*5,088.46*	
		For Class 55 Rating, Add	*7,582.93*	
		For Class 56 Rating, Add	*10,043.72*	
40 05 19 00-2495	EA	30" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,589.17	1,942.76
		For Class 52 Rating, Deduct	*-3,811.02*	
		For Class 54 Rating, Add	*5,232.16*	
		For Class 55 Rating, Add	*7,796.61*	
		For Class 56 Rating, Add	*10,326.42*	
40 05 19 00-2496	EA	30" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,553.41	1,947.22
		For Class 52 Rating, Deduct	*-3,916.34*	
		For Class 54 Rating, Add	*5,375.87*	
		For Class 55 Rating, Add	*8,010.29*	
		For Class 56 Rating, Add	*10,609.12*	
40 05 19 00-2497	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,517.64	1,951.67
		For Class 52 Rating, Deduct	*-4,021.66*	
		For Class 54 Rating, Add	*5,519.57*	
		For Class 55 Rating, Add	*8,223.97*	
		For Class 56 Rating, Add	*10,891.82*	
40 05 19 00-2498	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,481.87	1,956.13
		For Class 52 Rating, Deduct	*-4,126.98*	
		For Class 54 Rating, Add	*5,663.27*	
		For Class 55 Rating, Add	*8,437.65*	
		For Class 56 Rating, Add	*11,174.52*	
40 05 19 00-2499	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,446.09	1,960.59
		For Class 52 Rating, Deduct	*-4,232.31*	
		For Class 54 Rating, Add	*5,806.97*	
		For Class 55 Rating, Add	*8,651.33*	
		For Class 56 Rating, Add	*11,457.22*	
40 05 19 00-2500	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,410.32	1,965.04
		For Class 52 Rating, Deduct	*-4,337.63*	
		For Class 54 Rating, Add	*5,950.68*	
		For Class 55 Rating, Add	*8,865.01*	
		For Class 56 Rating, Add	*11,739.92*	
40 05 19 00-2501	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,374.56	1,969.50
		For Class 52 Rating, Deduct	*-4,442.95*	
		For Class 54 Rating, Add	*6,094.38*	
		For Class 55 Rating, Add	*9,078.69*	
		For Class 56 Rating, Add	*12,022.62*	
40 05 19 00-2502	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,338.78	1,973.95
		For Class 52 Rating, Deduct	*-4,548.27*	
		For Class 54 Rating, Add	*6,238.08*	
		For Class 55 Rating, Add	*9,292.37*	
		For Class 56 Rating, Add	*12,305.32*	
40 05 19 00-2503	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,303.02	1,978.40
		For Class 52 Rating, Deduct	*-4,653.60*	
		For Class 54 Rating, Add	*6,381.79*	
		For Class 55 Rating, Add	*9,506.05*	
		For Class 56 Rating, Add	*12,588.02*	
40 05 19 00-2504	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	46,267.25	1,982.86
		For Class 52 Rating, Deduct	*-4,758.92*	
		For Class 54 Rating, Add	*6,525.49*	
		For Class 55 Rating, Add	*9,719.73*	
		For Class 56 Rating, Add	*12,870.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2505	EA	30" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,231.47	1,987.32
		For Class 52 Rating, Deduct	*-4,864.24*	
		For Class 54 Rating, Add	*6,669.19*	
		For Class 55 Rating, Add	*9,933.41*	
		For Class 56 Rating, Add	*13,153.41*	

40 05 19 00-2506 36" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2507	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,157.23	2,325.97
		For Class 52 Rating, Deduct	*-1,829.63*	
		For Class 54 Rating, Add	*2,537.25*	
		For Class 55 Rating, Add	*3,793.75*	
		For Class 56 Rating, Add	*5,033.62*	
40 05 19 00-2508	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,449.01	2,330.42
		For Class 52 Rating, Deduct	*-1,970.99*	
		For Class 54 Rating, Add	*2,730.08*	
		For Class 55 Rating, Add	*4,080.47*	
		For Class 56 Rating, Add	*5,412.94*	
40 05 19 00-2509	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,740.81	2,334.88
		For Class 52 Rating, Deduct	*-2,112.34*	
		For Class 54 Rating, Add	*2,922.92*	
		For Class 55 Rating, Add	*4,367.20*	
		For Class 56 Rating, Add	*5,792.27*	
40 05 19 00-2510	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,032.59	2,339.34
		For Class 52 Rating, Deduct	*-2,253.70*	
		For Class 54 Rating, Add	*3,115.76*	
		For Class 55 Rating, Add	*4,653.92*	
		For Class 56 Rating, Add	*6,171.60*	
40 05 19 00-2511	EA	36" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,324.37	2,343.79
		For Class 52 Rating, Deduct	*-2,395.05*	
		For Class 54 Rating, Add	*3,308.59*	
		For Class 55 Rating, Add	*4,940.65*	
		For Class 56 Rating, Add	*6,550.93*	
40 05 19 00-2512	EA	36" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,616.17	2,348.24
		For Class 52 Rating, Deduct	*-2,536.40*	
		For Class 54 Rating, Add	*3,501.43*	
		For Class 55 Rating, Add	*5,227.37*	
		For Class 56 Rating, Add	*6,930.26*	
40 05 19 00-2513	EA	36" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,907.96	2,352.70
		For Class 52 Rating, Deduct	*-2,677.76*	
		For Class 54 Rating, Add	*3,694.27*	
		For Class 55 Rating, Add	*5,514.10*	
		For Class 56 Rating, Add	*7,309.59*	
40 05 19 00-2514	EA	36" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,199.75	2,357.15
		For Class 52 Rating, Deduct	*-2,819.11*	
		For Class 54 Rating, Add	*3,887.10*	
		For Class 55 Rating, Add	*5,800.83*	
		For Class 56 Rating, Add	*7,688.92*	
40 05 19 00-2515	EA	36" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,491.53	2,361.61
		For Class 52 Rating, Deduct	*-2,960.47*	
		For Class 54 Rating, Add	*4,079.94*	
		For Class 55 Rating, Add	*6,087.55*	
		For Class 56 Rating, Add	*8,068.25*	
40 05 19 00-2516	EA	36" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,783.32	2,366.07
		For Class 52 Rating, Deduct	*-3,101.82*	
		For Class 54 Rating, Add	*4,272.77*	
		For Class 55 Rating, Add	*6,374.28*	
		For Class 56 Rating, Add	*8,447.58*	
40 05 19 00-2517	EA	36" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,075.12	2,370.53
		For Class 52 Rating, Deduct	*-3,243.18*	
		For Class 54 Rating, Add	*4,465.61*	
		For Class 55 Rating, Add	*6,661.00*	
		For Class 56 Rating, Add	*8,826.91*	
40 05 19 00-2518	EA	36" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,366.89	2,374.98
		For Class 52 Rating, Deduct	*-3,384.53*	
		For Class 54 Rating, Add	*4,658.45*	
		For Class 55 Rating, Add	*6,947.72*	
		For Class 56 Rating, Add	*9,206.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2519	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,658.69	2,379.44
		For Class 52 Rating, Deduct	*-3,525.88*	
		For Class 54 Rating, Add	*4,851.28*	
		For Class 55 Rating, Add	*7,234.45*	
		For Class 56 Rating, Add	*9,585.56*	
40 05 19 00-2520	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,950.48	2,383.90
		For Class 52 Rating, Deduct	*-3,667.24*	
		For Class 54 Rating, Add	*5,044.12*	
		For Class 55 Rating, Add	*7,521.18*	
		For Class 56 Rating, Add	*9,964.89*	
40 05 19 00-2521	EA	36" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,242.25	2,388.35
		For Class 52 Rating, Deduct	*-3,808.59*	
		For Class 54 Rating, Add	*5,236.96*	
		For Class 55 Rating, Add	*7,807.90*	
		For Class 56 Rating, Add	*10,344.22*	
40 05 19 00-2522	EA	36" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,534.05	2,392.80
		For Class 52 Rating, Deduct	*-3,949.94*	
		For Class 54 Rating, Add	*5,429.79*	
		For Class 55 Rating, Add	*8,094.63*	
		For Class 56 Rating, Add	*10,723.55*	
40 05 19 00-2523	EA	36" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,825.84	2,397.26
		For Class 52 Rating, Deduct	*-4,091.30*	
		For Class 54 Rating, Add	*5,622.63*	
		For Class 55 Rating, Add	*8,381.35*	
		For Class 56 Rating, Add	*11,102.88*	
40 05 19 00-2524	EA	36" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,117.63	2,401.71
		For Class 52 Rating, Deduct	*-4,232.65*	
		For Class 54 Rating, Add	*5,815.47*	
		For Class 55 Rating, Add	*8,668.08*	
		For Class 56 Rating, Add	*11,482.21*	
40 05 19 00-2525	EA	36" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,409.41	2,406.17
		For Class 52 Rating, Deduct	*-4,374.01*	
		For Class 54 Rating, Add	*6,008.30*	
		For Class 55 Rating, Add	*8,954.80*	
		For Class 56 Rating, Add	*11,861.54*	
40 05 19 00-2526	EA	36" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,701.20	2,410.63
		For Class 52 Rating, Deduct	*-4,515.36*	
		For Class 54 Rating, Add	*6,201.14*	
		For Class 55 Rating, Add	*9,241.53*	
		For Class 56 Rating, Add	*12,240.87*	
40 05 19 00-2527	EA	36" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,992.99	2,415.08
		For Class 52 Rating, Deduct	*-4,656.71*	
		For Class 54 Rating, Add	*6,393.98*	
		For Class 55 Rating, Add	*9,528.25*	
		For Class 56 Rating, Add	*12,620.19*	
40 05 19 00-2528	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,284.78	2,419.54
		For Class 52 Rating, Deduct	*-4,798.07*	
		For Class 54 Rating, Add	*6,586.81*	
		For Class 55 Rating, Add	*9,814.98*	
		For Class 56 Rating, Add	*12,999.52*	
40 05 19 00-2529	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	48,576.57	2,424.00
		For Class 52 Rating, Deduct	*-4,939.42*	
		For Class 54 Rating, Add	*6,779.65*	
		For Class 55 Rating, Add	*10,101.70*	
		For Class 56 Rating, Add	*13,378.85*	
40 05 19 00-2530	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,868.35	2,428.45
		For Class 52 Rating, Deduct	*-5,080.78*	
		For Class 54 Rating, Add	*6,972.49*	
		For Class 55 Rating, Add	*10,388.43*	
		For Class 56 Rating, Add	*13,758.18*	
40 05 19 00-2531	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	51,160.14	2,432.91
		For Class 52 Rating, Deduct	*-5,222.13*	
		For Class 54 Rating, Add	*7,165.32*	
		For Class 55 Rating, Add	*10,675.15*	
		For Class 56 Rating, Add	*14,137.51*	
40 05 19 00-2532	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,451.94	2,437.36
		For Class 52 Rating, Deduct	*-5,363.49*	
		For Class 54 Rating, Add	*7,358.16*	
		For Class 55 Rating, Add	*10,961.88*	
		For Class 56 Rating, Add	*14,516.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2533	EA	36" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	53,743.71	2,441.81
		For Class 52 Rating, Deduct	*-5,504.84*	
		For Class 54 Rating, Add	*7,551.00*	
		For Class 55 Rating, Add	*11,248.60*	
		For Class 56 Rating, Add	*14,896.17*	
40 05 19 00-2534	EA	36" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	55,035.51	2,446.27
		For Class 52 Rating, Deduct	*-5,646.19*	
		For Class 54 Rating, Add	*7,743.83*	
		For Class 55 Rating, Add	*11,535.33*	
		For Class 56 Rating, Add	*15,275.50*	
40 05 19 00-2535	EA	36" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	56,327.30	2,450.73
		For Class 52 Rating, Deduct	*-5,787.55*	
		For Class 54 Rating, Add	*7,936.67*	
		For Class 55 Rating, Add	*11,822.06*	
		For Class 56 Rating, Add	*15,654.83*	
40 05 19 00-2536	EA	36" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	57,619.07	2,455.18
		For Class 52 Rating, Deduct	*-5,928.90*	
		For Class 54 Rating, Add	*8,129.50*	
		For Class 55 Rating, Add	*12,108.78*	
		For Class 56 Rating, Add	*16,034.15*	
40 05 19 00-2537	EA	36" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	58,910.87	2,459.64
		For Class 52 Rating, Deduct	*-6,070.26*	
		For Class 54 Rating, Add	*8,322.34*	
		For Class 55 Rating, Add	*12,395.50*	
		For Class 56 Rating, Add	*16,413.48*	
40 05 19 00-2538	EA	36" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	60,202.66	2,464.10
		For Class 52 Rating, Deduct	*-6,211.61*	
		For Class 54 Rating, Add	*8,515.18*	
		For Class 55 Rating, Add	*12,682.23*	
		For Class 56 Rating, Add	*16,792.81*	
40 05 19 00-2539	EA	36" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	61,494.46	2,468.56
		For Class 52 Rating, Deduct	*-6,352.96*	
		For Class 54 Rating, Add	*8,708.02*	
		For Class 55 Rating, Add	*12,968.96*	
		For Class 56 Rating, Add	*17,172.14*	
40 05 19 00-2540	EA	36" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	62,786.23	2,473.01
		For Class 52 Rating, Deduct	*-6,494.32*	
		For Class 54 Rating, Add	*8,900.85*	
		For Class 55 Rating, Add	*13,255.68*	
		For Class 56 Rating, Add	*17,551.47*	
40 05 19 00-2541	EA	36" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	64,078.02	2,477.47
		For Class 52 Rating, Deduct	*-6,635.67*	
		For Class 54 Rating, Add	*9,093.69*	
		For Class 55 Rating, Add	*13,542.41*	
		For Class 56 Rating, Add	*17,930.80*	

40 05 19 00-2542 42" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2543	EA	42" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,631.30	2,931.97
		For Class 52 Rating, Deduct	*-2,440.78*	
		For Class 54 Rating, Add	*3,381.65*	
		For Class 55 Rating, Add	*5,054.75*	
		For Class 56 Rating, Add	*6,705.66*	
40 05 19 00-2544	EA	42" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,527.82	2,936.42
		For Class 52 Rating, Deduct	*-2,648.66*	
		For Class 54 Rating, Add	*3,665.19*	
		For Class 55 Rating, Add	*5,476.33*	
		For Class 56 Rating, Add	*7,263.38*	
40 05 19 00-2545	EA	42" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,408.57	2,940.88
		For Class 52 Rating, Deduct	*-2,854.80*	
		For Class 54 Rating, Add	*3,946.38*	
		For Class 55 Rating, Add	*5,894.39*	
		For Class 56 Rating, Add	*7,816.46*	
40 05 19 00-2546	EA	42" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,308.23	2,945.34
		For Class 52 Rating, Deduct	*-3,063.02*	
		For Class 54 Rating, Add	*4,230.39*	
		For Class 55 Rating, Add	*6,316.67*	
		For Class 56 Rating, Add	*8,375.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2547	EA	42" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,195.30	2,949.78
		For Class 52 Rating, Deduct	*-3,269.85*	
		For Class 54 Rating, Add	*4,512.52*	
		For Class 55 Rating, Add	*6,736.15*	
		For Class 56 Rating, Add	*8,930.04*	
40 05 19 00-2548	EA	42" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,101.25	2,954.24
		For Class 52 Rating, Deduct	*-3,478.76*	
		For Class 54 Rating, Add	*4,797.48*	
		For Class 55 Rating, Add	*7,159.83*	
		For Class 56 Rating, Add	*9,490.55*	
40 05 19 00-2549	EA	42" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,988.32	2,958.70
		For Class 52 Rating, Deduct	*-3,685.60*	
		For Class 54 Rating, Add	*5,079.61*	
		For Class 55 Rating, Add	*7,579.30*	
		For Class 56 Rating, Add	*10,045.49*	
40 05 19 00-2550	EA	42" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,897.43	2,963.15
		For Class 52 Rating, Deduct	*-3,894.86*	
		For Class 54 Rating, Add	*5,365.05*	
		For Class 55 Rating, Add	*8,003.69*	
		For Class 56 Rating, Add	*10,606.93*	
40 05 19 00-2551	EA	42" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,790.79	2,967.61
		For Class 52 Rating, Deduct	*-4,102.39*	
		For Class 54 Rating, Add	*5,648.12*	
		For Class 55 Rating, Add	*8,424.57*	
		For Class 56 Rating, Add	*11,163.72*	
40 05 19 00-2552	EA	42" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,699.90	2,972.07
		For Class 52 Rating, Deduct	*-4,311.64*	
		For Class 54 Rating, Add	*5,933.55*	
		For Class 55 Rating, Add	*8,848.95*	
		For Class 56 Rating, Add	*11,725.16*	
40 05 19 00-2553	EA	42" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,593.26	2,976.52
		For Class 52 Rating, Deduct	*-4,519.17*	
		For Class 54 Rating, Add	*6,216.63*	
		For Class 55 Rating, Add	*9,269.83*	
		For Class 56 Rating, Add	*12,281.95*	
40 05 19 00-2554	EA	42" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,505.53	2,980.98
		For Class 52 Rating, Deduct	*-4,728.78*	
		For Class 54 Rating, Add	*6,502.53*	
		For Class 55 Rating, Add	*9,694.92*	
		For Class 56 Rating, Add	*12,844.32*	
40 05 19 00-2555	EA	42" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,398.89	2,985.44
		For Class 52 Rating, Deduct	*-4,936.31*	
		For Class 54 Rating, Add	*6,785.61*	
		For Class 55 Rating, Add	*10,115.80*	
		For Class 56 Rating, Add	*13,401.11*	
40 05 19 00-2556	EA	42" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	51,298.54	2,989.89
		For Class 52 Rating, Deduct	*-5,144.53*	
		For Class 54 Rating, Add	*7,069.62*	
		For Class 55 Rating, Add	*10,538.08*	
		For Class 56 Rating, Add	*13,959.77*	
40 05 19 00-2557	EA	42" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	53,207.66	2,994.34
		For Class 52 Rating, Deduct	*-5,353.78*	
		For Class 54 Rating, Add	*7,355.06*	
		For Class 55 Rating, Add	*10,962.47*	
		For Class 56 Rating, Add	*14,521.21*	
40 05 19 00-2558	EA	42" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	55,104.17	2,998.80
		For Class 52 Rating, Deduct	*-5,561.66*	
		For Class 54 Rating, Add	*7,638.60*	
		For Class 55 Rating, Add	*11,384.05*	
		For Class 56 Rating, Add	*15,078.93*	
40 05 19 00-2559	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	57,022.74	3,003.26
		For Class 52 Rating, Deduct	*-5,771.96*	
		For Class 54 Rating, Add	*7,925.46*	
		For Class 55 Rating, Add	*11,810.54*	
		For Class 56 Rating, Add	*15,643.15*	
40 05 19 00-2560	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	58,922.39	3,007.71
		For Class 52 Rating, Deduct	*-5,980.18*	
		For Class 54 Rating, Add	*8,209.47*	
		For Class 55 Rating, Add	*12,232.82*	
		For Class 56 Rating, Add	*16,201.81*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2561	EA	42" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	60,837.79	3,012.17
		For Class 52 Rating, Deduct	*-6,190.13*	
		For Class 54 Rating, Add	*8,495.85*	
		For Class 55 Rating, Add	*12,658.61*	
		For Class 56 Rating, Add	*16,765.10*	
40 05 19 00-2562	EA	42" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	62,734.31	3,016.63
		For Class 52 Rating, Deduct	*-6,398.00*	
		For Class 54 Rating, Add	*8,779.40*	
		For Class 55 Rating, Add	*13,080.19*	
		For Class 56 Rating, Add	*17,322.82*	
40 05 19 00-2563	EA	42" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	64,656.01	3,021.08
		For Class 52 Rating, Deduct	*-6,608.65*	
		For Class 54 Rating, Add	*9,066.72*	
		For Class 55 Rating, Add	*13,507.39*	
		For Class 56 Rating, Add	*17,887.98*	
40 05 19 00-2564	EA	42" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	66,555.68	3,025.54
		For Class 52 Rating, Deduct	*-6,816.87*	
		For Class 54 Rating, Add	*9,350.74*	
		For Class 55 Rating, Add	*13,929.67*	
		For Class 56 Rating, Add	*18,446.63*	
40 05 19 00-2565	EA	42" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	68,471.09	3,030.00
		For Class 52 Rating, Deduct	*-7,026.82*	
		For Class 54 Rating, Add	*9,637.12*	
		For Class 55 Rating, Add	*14,355.46*	
		For Class 56 Rating, Add	*19,009.93*	
40 05 19 00-2566	EA	42" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	70,370.75	3,034.45
		For Class 52 Rating, Deduct	*-7,235.04*	
		For Class 54 Rating, Add	*9,921.14*	
		For Class 55 Rating, Add	*14,777.74*	
		For Class 56 Rating, Add	*19,568.58*	
40 05 19 00-2567	EA	42" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	72,292.45	3,038.91
		For Class 52 Rating, Deduct	*-7,445.69*	
		For Class 54 Rating, Add	*10,208.46*	
		For Class 55 Rating, Add	*15,204.94*	
		For Class 56 Rating, Add	*20,133.73*	
40 05 19 00-2568	EA	42" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	74,192.11	3,043.36
		For Class 52 Rating, Deduct	*-7,653.91*	
		For Class 54 Rating, Add	*10,492.48*	
		For Class 55 Rating, Add	*15,627.22*	
		For Class 56 Rating, Add	*20,692.38*	
40 05 19 00-2569	EA	42" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	76,107.53	3,047.81
		For Class 52 Rating, Deduct	*-7,863.86*	
		For Class 54 Rating, Add	*10,778.86*	
		For Class 55 Rating, Add	*16,053.02*	
		For Class 56 Rating, Add	*21,255.68*	
40 05 19 00-2570	EA	42" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	78,010.34	3,052.27
		For Class 52 Rating, Deduct	*-8,072.42*	
		For Class 54 Rating, Add	*11,063.35*	
		For Class 55 Rating, Add	*16,476.00*	
		For Class 56 Rating, Add	*21,815.26*	
40 05 19 00-2571	EA	42" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	79,550.94	3,056.73
		For Class 52 Rating, Deduct	*-8,241.15*	
		For Class 54 Rating, Add	*11,293.51*	
		For Class 55 Rating, Add	*16,818.21*	
		For Class 56 Rating, Add	*22,267.99*	
40 05 19 00-2572	EA	42" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	81,831.71	3,061.18
		For Class 52 Rating, Deduct	*-8,491.29*	
		For Class 54 Rating, Add	*11,634.69*	
		For Class 55 Rating, Add	*17,325.48*	
		For Class 56 Rating, Add	*22,939.07*	
40 05 19 00-2573	EA	42" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	83,731.37	3,065.64
		For Class 52 Rating, Deduct	*-8,699.51*	
		For Class 54 Rating, Add	*11,918.71*	
		For Class 55 Rating, Add	*17,747.76*	
		For Class 56 Rating, Add	*23,497.72*	
40 05 19 00-2574	EA	42" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	85,649.93	3,070.10
		For Class 52 Rating, Deduct	*-8,909.81*	
		For Class 54 Rating, Add	*12,205.56*	
		For Class 55 Rating, Add	*18,174.25*	
		For Class 56 Rating, Add	*24,061.95*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2575	EA	42" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	87,552.73	3,074.55
		For Class 52 Rating, Deduct	*-9,118.38*	
		For Class 54 Rating, Add	*12,490.05*	
		For Class 55 Rating, Add	*18,597.24*	
		For Class 56 Rating, Add	*24,621.53*	
40 05 19 00-2576	EA	42" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	89,474.44	3,079.01
		For Class 52 Rating, Deduct	*-9,329.02*	
		For Class 54 Rating, Add	*12,777.37*	
		For Class 55 Rating, Add	*19,024.43*	
		For Class 56 Rating, Add	*25,186.68*	
40 05 19 00-2577	EA	42" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	91,370.96	3,083.47
		For Class 52 Rating, Deduct	*-9,536.89*	
		For Class 54 Rating, Add	*13,060.92*	
		For Class 55 Rating, Add	*19,446.01*	
		For Class 56 Rating, Add	*25,744.41*	

40 05 19 00-2578 48" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2074)*

40 05 19 00-2579	EA	48" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,403.77	3,685.01
		For Class 52 Rating, Deduct	*-3,060.25*	
		For Class 54 Rating, Add	*4,240.06*	
		For Class 55 Rating, Add	*6,337.95*	
		For Class 56 Rating, Add	*8,408.02*	
40 05 19 00-2580	EA	48" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,112.86	3,689.47
		For Class 52 Rating, Deduct	*-3,357.50*	
		For Class 54 Rating, Add	*4,645.50*	
		For Class 55 Rating, Add	*6,940.74*	
		For Class 56 Rating, Add	*9,205.46*	
40 05 19 00-2581	EA	48" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,828.28	3,693.91
		For Class 52 Rating, Deduct	*-3,655.46*	
		For Class 54 Rating, Add	*5,051.88*	
		For Class 55 Rating, Add	*7,544.93*	
		For Class 56 Rating, Add	*10,004.76*	
40 05 19 00-2582	EA	48" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,575.18	3,698.37
		For Class 52 Rating, Deduct	*-3,956.87*	
		For Class 54 Rating, Add	*5,462.98*	
		For Class 55 Rating, Add	*8,156.15*	
		For Class 56 Rating, Add	*10,813.35*	
40 05 19 00-2583	EA	48" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,312.62	3,702.83
		For Class 52 Rating, Deduct	*-4,257.25*	
		For Class 54 Rating, Add	*5,872.67*	
		For Class 55 Rating, Add	*8,765.26*	
		For Class 56 Rating, Add	*11,619.14*	
40 05 19 00-2584	EA	48" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,056.39	3,707.28
		For Class 52 Rating, Deduct	*-4,558.32*	
		For Class 54 Rating, Add	*6,283.30*	
		For Class 55 Rating, Add	*9,375.77*	
		For Class 56 Rating, Add	*12,426.81*	
40 05 19 00-2585	EA	48" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,819.04	3,711.74
		For Class 52 Rating, Deduct	*-4,861.47*	
		For Class 54 Rating, Add	*6,696.76*	
		For Class 55 Rating, Add	*9,990.50*	
		For Class 56 Rating, Add	*13,240.04*	
40 05 19 00-2586	EA	48" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,575.40	3,716.20
		For Class 52 Rating, Deduct	*-5,163.93*	
		For Class 54 Rating, Add	*7,109.29*	
		For Class 55 Rating, Add	*10,603.82*	
		For Class 56 Rating, Add	*14,051.42*	
40 05 19 00-2587	EA	48" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	55,328.59	3,720.66
		For Class 52 Rating, Deduct	*-5,466.04*	
		For Class 54 Rating, Add	*7,521.33*	
		For Class 55 Rating, Add	*11,216.44*	
		For Class 56 Rating, Add	*14,861.86*	
40 05 19 00-2588	EA	48" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	58,110.14	3,725.11
		For Class 52 Rating, Deduct	*-5,771.26*	
		For Class 54 Rating, Add	*7,937.64*	
		For Class 55 Rating, Add	*11,835.39*	
		For Class 56 Rating, Add	*15,680.67*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2589	EA	48" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	60,872.80	3,729.57
		For Class 52 Rating, Deduct	*-6,074.41*	
		For Class 54 Rating, Add	*8,351.10*	
		For Class 55 Rating, Add	*12,450.11*	
		For Class 56 Rating, Add	*16,493.90*	
40 05 19 00-2590	EA	48" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	63,657.49	3,734.03
		For Class 52 Rating, Deduct	*-6,379.99*	
		For Class 54 Rating, Add	*8,767.87*	
		For Class 55 Rating, Add	*13,069.76*	
		For Class 56 Rating, Add	*17,313.64*	
40 05 19 00-2591	EA	48" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	66,426.44	3,738.47
		For Class 52 Rating, Deduct	*-6,683.83*	
		For Class 54 Rating, Add	*9,182.28*	
		For Class 55 Rating, Add	*13,685.89*	
		For Class 56 Rating, Add	*18,128.73*	
40 05 19 00-2592	EA	48" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	69,198.54	3,742.93
		For Class 52 Rating, Deduct	*-6,988.02*	
		For Class 54 Rating, Add	*9,597.17*	
		For Class 55 Rating, Add	*14,302.72*	
		For Class 56 Rating, Add	*18,944.75*	
40 05 19 00-2593	EA	48" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	71,989.54	3,747.39
		For Class 52 Rating, Deduct	*-7,294.28*	
		For Class 54 Rating, Add	*10,014.89*	
		For Class 55 Rating, Add	*14,923.77*	
		For Class 56 Rating, Add	*19,766.35*	
40 05 19 00-2594	EA	48" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	74,767.95	3,751.84
		For Class 52 Rating, Deduct	*-7,599.17*	
		For Class 54 Rating, Add	*10,430.71*	
		For Class 55 Rating, Add	*15,542.01*	
		For Class 56 Rating, Add	*20,584.23*	
40 05 19 00-2595	EA	48" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	77,543.18	3,756.30
		For Class 52 Rating, Deduct	*-7,903.70*	
		For Class 54 Rating, Add	*10,846.07*	
		For Class 55 Rating, Add	*16,159.55*	
		For Class 56 Rating, Add	*21,401.18*	
40 05 19 00-2596	EA	48" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	80,340.49	3,760.76
		For Class 52 Rating, Deduct	*-8,210.66*	
		For Class 54 Rating, Add	*11,264.73*	
		For Class 55 Rating, Add	*16,782.00*	
		For Class 56 Rating, Add	*22,224.63*	
40 05 19 00-2597	EA	48" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	83,122.04	3,765.21
		For Class 52 Rating, Deduct	*-8,515.89*	
		For Class 54 Rating, Add	*11,681.03*	
		For Class 55 Rating, Add	*17,400.95*	
		For Class 56 Rating, Add	*23,043.44*	
40 05 19 00-2598	EA	48" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	85,900.43	3,769.67
		For Class 52 Rating, Deduct	*-8,820.77*	
		For Class 54 Rating, Add	*12,096.86*	
		For Class 55 Rating, Add	*18,019.19*	
		For Class 56 Rating, Add	*23,861.32*	
40 05 19 00-2599	EA	48" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	88,700.88	3,774.13
		For Class 52 Rating, Deduct	*-9,128.08*	
		For Class 54 Rating, Add	*12,516.00*	
		For Class 55 Rating, Add	*18,642.34*	
		For Class 56 Rating, Add	*24,685.70*	
40 05 19 00-2600	EA	48" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	91,488.73	3,778.58
		For Class 52 Rating, Deduct	*-9,434.00*	
		For Class 54 Rating, Add	*12,933.24*	
		For Class 55 Rating, Add	*19,262.69*	
		For Class 56 Rating, Add	*25,506.37*	
40 05 19 00-2601	EA	48" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	94,270.29	3,783.04
		For Class 52 Rating, Deduct	*-9,739.23*	
		For Class 54 Rating, Add	*13,349.54*	
		For Class 55 Rating, Add	*19,881.63*	
		For Class 56 Rating, Add	*26,325.18*	
40 05 19 00-2602	EA	48" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	97,073.87	3,787.49
		For Class 52 Rating, Deduct	*-10,046.88*	
		For Class 54 Rating, Add	*13,769.15*	
		For Class 55 Rating, Add	*20,505.49*	
		For Class 56 Rating, Add	*27,150.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2603	EA	48" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	99,861.72	3,791.94
		For Class 52 Rating, Deduct	*-10,352.80*	
		For Class 54 Rating, Add	*14,186.40*	
		For Class 55 Rating, Add	*21,125.83*	
		For Class 56 Rating, Add	*27,971.16*	
40 05 19 00-2604	EA	48" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	102,646.42	3,796.40
		For Class 52 Rating, Deduct	*-10,658.37*	
		For Class 54 Rating, Add	*14,603.17*	
		For Class 55 Rating, Add	*21,745.48*	
		For Class 56 Rating, Add	*28,790.89*	
40 05 19 00-2605	EA	48" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	105,453.17	3,800.86
		For Class 52 Rating, Deduct	*-10,966.37*	
		For Class 54 Rating, Add	*15,023.25*	
		For Class 55 Rating, Add	*22,370.04*	
		For Class 56 Rating, Add	*29,617.14*	
40 05 19 00-2606	EA	48" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	108,244.17	3,805.32
		For Class 52 Rating, Deduct	*-11,272.64*	
		For Class 54 Rating, Add	*15,440.97*	
		For Class 55 Rating, Add	*22,991.09*	
		For Class 56 Rating, Add	*30,438.73*	
40 05 19 00-2607	EA	48" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	110,707.60	3,809.77
		For Class 52 Rating, Deduct	*-11,542.87*	
		For Class 54 Rating, Add	*15,809.55*	
		For Class 55 Rating, Add	*23,539.09*	
		For Class 56 Rating, Add	*31,163.70*	
40 05 19 00-2608	EA	48" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	113,841.91	3,814.23
		For Class 52 Rating, Deduct	*-11,886.91*	
		For Class 54 Rating, Add	*16,278.77*	
		For Class 55 Rating, Add	*24,236.70*	
		For Class 56 Rating, Add	*32,086.57*	
40 05 19 00-2609	EA	48" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	116,629.76	3,818.69
		For Class 52 Rating, Deduct	*-12,192.83*	
		For Class 54 Rating, Add	*16,696.01*	
		For Class 55 Rating, Add	*24,857.04*	
		For Class 56 Rating, Add	*32,907.23*	
40 05 19 00-2610	EA	48" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	119,442.80	3,823.14
		For Class 52 Rating, Deduct	*-12,501.52*	
		For Class 54 Rating, Add	*17,117.04*	
		For Class 55 Rating, Add	*25,483.01*	
		For Class 56 Rating, Add	*33,735.33*	
40 05 19 00-2611	EA	48" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	122,230.65	3,827.60
		For Class 52 Rating, Deduct	*-12,807.44*	
		For Class 54 Rating, Add	*17,534.28*	
		For Class 55 Rating, Add	*26,103.36*	
		For Class 56 Rating, Add	*34,556.00*	
40 05 19 00-2612	EA	48" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	125,018.50	3,832.05
		For Class 52 Rating, Deduct	*-13,113.36*	
		For Class 54 Rating, Add	*17,951.53*	
		For Class 55 Rating, Add	*26,723.70*	
		For Class 56 Rating, Add	*35,376.67*	
40 05 19 00-2613	EA	48" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	127,834.68	3,836.50
		For Class 52 Rating, Deduct	*-13,422.40*	
		For Class 54 Rating, Add	*18,373.02*	
		For Class 55 Rating, Add	*27,350.37*	
		For Class 56 Rating, Add	*36,205.69*	

40 05 19 00-2614 Flanged End x Grooved End (FxG), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2073)*

40 05 19 00-2615 4" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-2616	EA	4" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	872.72	203.90
		For Class 52 Rating, Deduct	*-62.02*	
		For Class 54 Rating, Add	*88.27*	
		For Class 55 Rating, Add	*133.14*	
		For Class 56 Rating, Add	*177.44*	
40 05 19 00-2617	EA	4" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	997.80	207.47
		For Class 52 Rating, Deduct	*-75.18*	
		For Class 54 Rating, Add	*106.29*	
		For Class 55 Rating, Add	*159.96*	
		For Class 56 Rating, Add	*212.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2618	EA	4" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,122.89	211.03
		For Class 52 Rating, Deduct	*-88.35*	
		For Class 54 Rating, Add	*124.31*	
		For Class 55 Rating, Add	*186.78*	
		For Class 56 Rating, Add	*248.44*	
40 05 19 00-2619	EA	4" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,247.97	214.59
		For Class 52 Rating, Deduct	*-101.51*	
		For Class 54 Rating, Add	*142.33*	
		For Class 55 Rating, Add	*213.59*	
		For Class 56 Rating, Add	*283.94*	
40 05 19 00-2620	EA	4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,373.06	218.17
		For Class 52 Rating, Deduct	*-114.68*	
		For Class 54 Rating, Add	*160.34*	
		For Class 55 Rating, Add	*240.41*	
		For Class 56 Rating, Add	*319.44*	
40 05 19 00-2621	EA	4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,498.15	221.73
		For Class 52 Rating, Deduct	*-127.84*	
		For Class 54 Rating, Add	*178.36*	
		For Class 55 Rating, Add	*267.23*	
		For Class 56 Rating, Add	*354.94*	
40 05 19 00-2622	EA	4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,623.23	225.29
		For Class 52 Rating, Deduct	*-141.01*	
		For Class 54 Rating, Add	*196.38*	
		For Class 55 Rating, Add	*294.05*	
		For Class 56 Rating, Add	*390.45*	
40 05 19 00-2623	EA	4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,748.32	228.86
		For Class 52 Rating, Deduct	*-154.17*	
		For Class 54 Rating, Add	*214.40*	
		For Class 55 Rating, Add	*320.87*	
		For Class 56 Rating, Add	*425.95*	
40 05 19 00-2624	EA	4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,873.41	232.42
		For Class 52 Rating, Deduct	*-167.34*	
		For Class 54 Rating, Add	*232.41*	
		For Class 55 Rating, Add	*347.69*	
		For Class 56 Rating, Add	*461.45*	
40 05 19 00-2625	EA	4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,998.49	235.98
		For Class 52 Rating, Deduct	*-180.50*	
		For Class 54 Rating, Add	*250.43*	
		For Class 55 Rating, Add	*374.51*	
		For Class 56 Rating, Add	*496.95*	
40 05 19 00-2626	EA	4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,123.59	239.55
		For Class 52 Rating, Deduct	*-193.67*	
		For Class 54 Rating, Add	*268.45*	
		For Class 55 Rating, Add	*401.33*	
		For Class 56 Rating, Add	*532.45*	
40 05 19 00-2627	EA	4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,248.66	243.11
		For Class 52 Rating, Deduct	*-206.83*	
		For Class 54 Rating, Add	*286.47*	
		For Class 55 Rating, Add	*428.15*	
		For Class 56 Rating, Add	*567.95*	
40 05 19 00-2628	EA	4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,373.76	246.68
		For Class 52 Rating, Deduct	*-220.00*	
		For Class 54 Rating, Add	*304.49*	
		For Class 55 Rating, Add	*454.97*	
		For Class 56 Rating, Add	*603.46*	
40 05 19 00-2629	EA	4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,498.83	250.25
		For Class 52 Rating, Deduct	*-233.16*	
		For Class 54 Rating, Add	*322.50*	
		For Class 55 Rating, Add	*481.79*	
		For Class 56 Rating, Add	*638.96*	
40 05 19 00-2630	EA	4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,623.93	253.81
		For Class 52 Rating, Deduct	*-246.33*	
		For Class 54 Rating, Add	*340.52*	
		For Class 55 Rating, Add	*508.61*	
		For Class 56 Rating, Add	*674.46*	
40 05 19 00-2631	EA	4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,749.00	257.37
		For Class 52 Rating, Deduct	*-259.50*	
		For Class 54 Rating, Add	*358.54*	
		For Class 55 Rating, Add	*535.43*	
		For Class 56 Rating, Add	*709.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2632	EA	4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,874.10	260.94
		For Class 52 Rating, Deduct	*-272.66*	
		For Class 54 Rating, Add	*376.56*	
		For Class 55 Rating, Add	*562.25*	
		For Class 56 Rating, Add	*745.46*	
40 05 19 00-2633	EA	4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,999.18	264.50
		For Class 52 Rating, Deduct	*-285.83*	
		For Class 54 Rating, Add	*394.57*	
		For Class 55 Rating, Add	*589.07*	
		For Class 56 Rating, Add	*780.96*	
40 05 19 00-2634	EA	4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,124.26	268.06
		For Class 52 Rating, Deduct	*-298.99*	
		For Class 54 Rating, Add	*412.59*	
		For Class 55 Rating, Add	*615.88*	
		For Class 56 Rating, Add	*816.46*	
40 05 19 00-2635	EA	4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,249.35	271.63
		For Class 52 Rating, Deduct	*-312.16*	
		For Class 54 Rating, Add	*430.61*	
		For Class 55 Rating, Add	*642.70*	
		For Class 56 Rating, Add	*851.96*	
40 05 19 00-2636	EA	4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,374.43	275.20
		For Class 52 Rating, Deduct	*-325.32*	
		For Class 54 Rating, Add	*448.62*	
		For Class 55 Rating, Add	*669.52*	
		For Class 56 Rating, Add	*887.46*	
40 05 19 00-2637	EA	4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,499.52	278.77
		For Class 52 Rating, Deduct	*-338.49*	
		For Class 54 Rating, Add	*466.64*	
		For Class 55 Rating, Add	*696.34*	
		For Class 56 Rating, Add	*922.97*	
40 05 19 00-2638	EA	4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,624.61	282.33
		For Class 52 Rating, Deduct	*-351.65*	
		For Class 54 Rating, Add	*484.66*	
		For Class 55 Rating, Add	*723.16*	
		For Class 56 Rating, Add	*958.47*	
40 05 19 00-2639	EA	4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,749.69	285.89
		For Class 52 Rating, Deduct	*-364.82*	
		For Class 54 Rating, Add	*502.68*	
		For Class 55 Rating, Add	*749.98*	
		For Class 56 Rating, Add	*993.97*	
40 05 19 00-2640	EA	4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,874.78	289.46
		For Class 52 Rating, Deduct	*-377.98*	
		For Class 54 Rating, Add	*520.69*	
		For Class 55 Rating, Add	*776.80*	
		For Class 56 Rating, Add	*1,029.47*	
40 05 19 00-2641	EA	4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,999.86	293.02
		For Class 52 Rating, Deduct	*-391.15*	
		For Class 54 Rating, Add	*538.71*	
		For Class 55 Rating, Add	*803.62*	
		For Class 56 Rating, Add	*1,064.97*	
40 05 19 00-2642	EA	4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,124.95	296.58
		For Class 52 Rating, Deduct	*-404.31*	
		For Class 54 Rating, Add	*556.73*	
		For Class 55 Rating, Add	*830.44*	
		For Class 56 Rating, Add	*1,100.47*	
40 05 19 00-2643	EA	4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,250.04	300.15
		For Class 52 Rating, Deduct	*-417.48*	
		For Class 54 Rating, Add	*574.75*	
		For Class 55 Rating, Add	*857.26*	
		For Class 56 Rating, Add	*1,135.98*	
40 05 19 00-2644	EA	4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,375.12	303.72
		For Class 52 Rating, Deduct	*-430.64*	
		For Class 54 Rating, Add	*592.76*	
		For Class 55 Rating, Add	*884.08*	
		For Class 56 Rating, Add	*1,171.48*	
40 05 19 00-2645	EA	4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,500.21	307.28
		For Class 52 Rating, Deduct	*-443.81*	
		For Class 54 Rating, Add	*610.78*	
		For Class 55 Rating, Add	*910.90*	
		For Class 56 Rating, Add	*1,206.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2646	EA	4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,625.29	310.85
		For Class 52 Rating, Deduct	*-456.98*	
		For Class 54 Rating, Add	*628.80*	
		For Class 55 Rating, Add	*937.72*	
		For Class 56 Rating, Add	*1,242.48*	
40 05 19 00-2647	EA	4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,750.38	314.41
		For Class 52 Rating, Deduct	*-470.14*	
		For Class 54 Rating, Add	*646.82*	
		For Class 55 Rating, Add	*964.54*	
		For Class 56 Rating, Add	*1,277.98*	
40 05 19 00-2648	EA	4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,875.46	317.97
		For Class 52 Rating, Deduct	*-483.31*	
		For Class 54 Rating, Add	*664.83*	
		For Class 55 Rating, Add	*991.36*	
		For Class 56 Rating, Add	*1,313.48*	
40 05 19 00-2649	EA	4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,000.56	321.54
		For Class 52 Rating, Deduct	*-496.47*	
		For Class 54 Rating, Add	*682.85*	
		For Class 55 Rating, Add	*1,018.18*	
		For Class 56 Rating, Add	*1,348.99*	
40 05 19 00-2650	EA	4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,125.64	325.10
		For Class 52 Rating, Deduct	*-509.64*	
		For Class 54 Rating, Add	*700.87*	
		For Class 55 Rating, Add	*1,044.99*	
		For Class 56 Rating, Add	*1,384.49*	
40 05 19 00-2651	EA	4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,250.73	328.66
		For Class 52 Rating, Deduct	*-522.80*	
		For Class 54 Rating, Add	*718.89*	
		For Class 55 Rating, Add	*1,071.81*	
		For Class 56 Rating, Add	*1,419.99*	
40 05 19 00-2652	EA	4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,375.81	332.24
		For Class 52 Rating, Deduct	*-535.97*	
		For Class 54 Rating, Add	*736.91*	
		For Class 55 Rating, Add	*1,098.63*	
		For Class 56 Rating, Add	*1,455.49*	
40 05 19 00-2653	EA	4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,469.40	335.80
		For Class 52 Rating, Deduct	*-545.67*	
		For Class 54 Rating, Add	*750.20*	
		For Class 55 Rating, Add	*1,118.43*	
		For Class 56 Rating, Add	*1,481.70*	
40 05 19 00-2654	EA	4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,625.98	339.36
		For Class 52 Rating, Deduct	*-562.30*	
		For Class 54 Rating, Add	*772.94*	
		For Class 55 Rating, Add	*1,152.27*	
		For Class 56 Rating, Add	*1,526.49*	

40 05 19 00-2655 6" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-2656	EA	6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,129.03	256.66
		For Class 52 Rating, Deduct	*-81.42*	
		For Class 54 Rating, Add	*115.69*	
		For Class 55 Rating, Add	*174.39*	
		For Class 56 Rating, Add	*232.35*	
40 05 19 00-2657	EA	6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,273.02	260.22
		For Class 52 Rating, Deduct	*-96.66*	
		For Class 54 Rating, Add	*136.54*	
		For Class 55 Rating, Add	*205.42*	
		For Class 56 Rating, Add	*273.42*	
40 05 19 00-2658	EA	6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,416.99	263.79
		For Class 52 Rating, Deduct	*-111.91*	
		For Class 54 Rating, Add	*157.39*	
		For Class 55 Rating, Add	*236.45*	
		For Class 56 Rating, Add	*314.50*	
40 05 19 00-2659	EA	6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,560.98	267.35
		For Class 52 Rating, Deduct	*-127.15*	
		For Class 54 Rating, Add	*178.25*	
		For Class 55 Rating, Add	*267.49*	
		For Class 56 Rating, Add	*355.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2660	EA	6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,704.98	270.91
		For Class 52 Rating, Deduct	*-142.39*	
		For Class 54 Rating, Add	*199.10*	
		For Class 55 Rating, Add	*298.52*	
		For Class 56 Rating, Add	*396.65*	
40 05 19 00-2661	EA	6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,848.95	274.48
		For Class 52 Rating, Deduct	*-157.64*	
		For Class 54 Rating, Add	*219.95*	
		For Class 55 Rating, Add	*329.56*	
		For Class 56 Rating, Add	*437.73*	
40 05 19 00-2662	EA	6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,992.94	278.05
		For Class 52 Rating, Deduct	*-172.88*	
		For Class 54 Rating, Add	*240.80*	
		For Class 55 Rating, Add	*360.59*	
		For Class 56 Rating, Add	*478.80*	
40 05 19 00-2663	EA	6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,136.91	281.61
		For Class 52 Rating, Deduct	*-188.13*	
		For Class 54 Rating, Add	*261.65*	
		For Class 55 Rating, Add	*391.62*	
		For Class 56 Rating, Add	*519.88*	
40 05 19 00-2664	EA	6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,280.91	285.18
		For Class 52 Rating, Deduct	*-203.37*	
		For Class 54 Rating, Add	*282.51*	
		For Class 55 Rating, Add	*422.66*	
		For Class 56 Rating, Add	*560.96*	
40 05 19 00-2665	EA	6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,424.88	288.74
		For Class 52 Rating, Deduct	*-218.61*	
		For Class 54 Rating, Add	*303.36*	
		For Class 55 Rating, Add	*453.69*	
		For Class 56 Rating, Add	*602.03*	
40 05 19 00-2666	EA	6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,568.87	292.30
		For Class 52 Rating, Deduct	*-233.86*	
		For Class 54 Rating, Add	*324.21*	
		For Class 55 Rating, Add	*484.72*	
		For Class 56 Rating, Add	*643.11*	
40 05 19 00-2667	EA	6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,712.85	295.87
		For Class 52 Rating, Deduct	*-249.10*	
		For Class 54 Rating, Add	*345.06*	
		For Class 55 Rating, Add	*515.76*	
		For Class 56 Rating, Add	*684.18*	
40 05 19 00-2668	EA	6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,856.83	299.43
		For Class 52 Rating, Deduct	*-264.35*	
		For Class 54 Rating, Add	*365.92*	
		For Class 55 Rating, Add	*546.79*	
		For Class 56 Rating, Add	*725.26*	
40 05 19 00-2669	EA	6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,000.82	302.99
		For Class 52 Rating, Deduct	*-279.59*	
		For Class 54 Rating, Add	*386.77*	
		For Class 55 Rating, Add	*577.82*	
		For Class 56 Rating, Add	*766.34*	
40 05 19 00-2670	EA	6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,144.80	306.57
		For Class 52 Rating, Deduct	*-294.83*	
		For Class 54 Rating, Add	*407.62*	
		For Class 55 Rating, Add	*608.86*	
		For Class 56 Rating, Add	*807.41*	
40 05 19 00-2671	EA	6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,288.78	310.13
		For Class 52 Rating, Deduct	*-310.08*	
		For Class 54 Rating, Add	*428.47*	
		For Class 55 Rating, Add	*639.89*	
		For Class 56 Rating, Add	*848.49*	
40 05 19 00-2672	EA	6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,432.77	313.69
		For Class 52 Rating, Deduct	*-325.32*	
		For Class 54 Rating, Add	*449.32*	
		For Class 55 Rating, Add	*670.92*	
		For Class 56 Rating, Add	*889.56*	
40 05 19 00-2673	EA	6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,576.75	317.26
		For Class 52 Rating, Deduct	*-340.57*	
		For Class 54 Rating, Add	*470.18*	
		For Class 55 Rating, Add	*701.96*	
		For Class 56 Rating, Add	*930.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2674	EA	6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,720.74	320.82
		For Class 52 Rating, Deduct	*-355.81*	
		For Class 54 Rating, Add	*491.03*	
		For Class 55 Rating, Add	*732.99*	
		For Class 56 Rating, Add	*971.72*	
40 05 19 00-2675	EA	6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,864.71	324.39
		For Class 52 Rating, Deduct	*-371.05*	
		For Class 54 Rating, Add	*511.88*	
		For Class 55 Rating, Add	*764.02*	
		For Class 56 Rating, Add	*1,012.79*	
40 05 19 00-2676	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,008.70	327.95
		For Class 52 Rating, Deduct	*-386.30*	
		For Class 54 Rating, Add	*532.73*	
		For Class 55 Rating, Add	*795.06*	
		For Class 56 Rating, Add	*1,053.87*	
40 05 19 00-2677	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,152.68	331.51
		For Class 52 Rating, Deduct	*-401.54*	
		For Class 54 Rating, Add	*553.59*	
		For Class 55 Rating, Add	*826.09*	
		For Class 56 Rating, Add	*1,094.95*	
40 05 19 00-2678	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,296.67	335.09
		For Class 52 Rating, Deduct	*-416.79*	
		For Class 54 Rating, Add	*574.44*	
		For Class 55 Rating, Add	*857.13*	
		For Class 56 Rating, Add	*1,136.02*	
40 05 19 00-2679	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,440.65	338.65
		For Class 52 Rating, Deduct	*-432.03*	
		For Class 54 Rating, Add	*595.29*	
		For Class 55 Rating, Add	*888.16*	
		For Class 56 Rating, Add	*1,177.10*	
40 05 19 00-2680	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,584.63	342.21
		For Class 52 Rating, Deduct	*-447.27*	
		For Class 54 Rating, Add	*616.14*	
		For Class 55 Rating, Add	*919.19*	
		For Class 56 Rating, Add	*1,218.17*	
40 05 19 00-2681	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,728.62	345.78
		For Class 52 Rating, Deduct	*-462.52*	
		For Class 54 Rating, Add	*636.99*	
		For Class 55 Rating, Add	*950.23*	
		For Class 56 Rating, Add	*1,259.25*	
40 05 19 00-2682	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,872.60	349.34
		For Class 52 Rating, Deduct	*-477.76*	
		For Class 54 Rating, Add	*657.85*	
		For Class 55 Rating, Add	*981.26*	
		For Class 56 Rating, Add	*1,300.33*	
40 05 19 00-2683	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,016.58	352.90
		For Class 52 Rating, Deduct	*-493.01*	
		For Class 54 Rating, Add	*678.70*	
		For Class 55 Rating, Add	*1,012.29*	
		For Class 56 Rating, Add	*1,341.40*	
40 05 19 00-2684	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,160.57	356.47
		For Class 52 Rating, Deduct	*-508.25*	
		For Class 54 Rating, Add	*699.55*	
		For Class 55 Rating, Add	*1,043.33*	
		For Class 56 Rating, Add	*1,382.48*	
40 05 19 00-2685	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,304.56	360.03
		For Class 52 Rating, Deduct	*-523.50*	
		For Class 54 Rating, Add	*720.40*	
		For Class 55 Rating, Add	*1,074.36*	
		For Class 56 Rating, Add	*1,423.56*	
40 05 19 00-2686	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,448.54	363.60
		For Class 52 Rating, Deduct	*-538.74*	
		For Class 54 Rating, Add	*741.26*	
		For Class 55 Rating, Add	*1,105.39*	
		For Class 56 Rating, Add	*1,464.63*	
40 05 19 00-2687	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,592.52	367.17
		For Class 52 Rating, Deduct	*-553.98*	
		For Class 54 Rating, Add	*762.11*	
		For Class 55 Rating, Add	*1,136.43*	
		For Class 56 Rating, Add	*1,505.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2688	EA	6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,736.50	370.73
		For Class 52 Rating, Deduct	*-569.23*	
		For Class 54 Rating, Add	*782.96*	
		For Class 55 Rating, Add	*1,167.46*	
		For Class 56 Rating, Add	*1,546.78*	
40 05 19 00-2689	EA	6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,880.50	374.29
		For Class 52 Rating, Deduct	*-584.47*	
		For Class 54 Rating, Add	*803.81*	
		For Class 55 Rating, Add	*1,198.49*	
		For Class 56 Rating, Add	*1,587.86*	
40 05 19 00-2690	EA	6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,024.47	377.86
		For Class 52 Rating, Deduct	*-599.72*	
		For Class 54 Rating, Add	*824.66*	
		For Class 55 Rating, Add	*1,229.53*	
		For Class 56 Rating, Add	*1,628.94*	
40 05 19 00-2691	EA	6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,168.46	381.42
		For Class 52 Rating, Deduct	*-614.96*	
		For Class 54 Rating, Add	*845.52*	
		For Class 55 Rating, Add	*1,260.56*	
		For Class 56 Rating, Add	*1,670.01*	
40 05 19 00-2692	EA	6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,312.43	384.98
		For Class 52 Rating, Deduct	*-630.20*	
		For Class 54 Rating, Add	*866.37*	
		For Class 55 Rating, Add	*1,291.59*	
		For Class 56 Rating, Add	*1,711.09*	
40 05 19 00-2693	EA	6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,456.42	388.55
		For Class 52 Rating, Deduct	*-645.45*	
		For Class 54 Rating, Add	*887.22*	
		For Class 55 Rating, Add	*1,322.63*	
		For Class 56 Rating, Add	*1,752.17*	
40 05 19 00-2694	EA	6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,600.40	392.12
		For Class 52 Rating, Deduct	*-660.69*	
		For Class 54 Rating, Add	*908.07*	
		For Class 55 Rating, Add	*1,353.66*	
		For Class 56 Rating, Add	*1,793.24*	

40 05 19 00-2695 8" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-2696	EA	8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,548.87	327.95
		For Class 52 Rating, Deduct	*-115.72*	
		For Class 54 Rating, Add	*163.76*	
		For Class 55 Rating, Add	*246.51*	
		For Class 56 Rating, Add	*328.22*	
40 05 19 00-2697	EA	8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,733.78	331.51
		For Class 52 Rating, Deduct	*-135.46*	
		For Class 54 Rating, Add	*190.75*	
		For Class 55 Rating, Add	*286.68*	
		For Class 56 Rating, Add	*381.37*	
40 05 19 00-2698	EA	8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,918.72	335.09
		For Class 52 Rating, Deduct	*-155.21*	
		For Class 54 Rating, Add	*217.75*	
		For Class 55 Rating, Add	*326.84*	
		For Class 56 Rating, Add	*434.53*	
40 05 19 00-2699	EA	8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,103.65	338.65
		For Class 52 Rating, Deduct	*-174.96*	
		For Class 54 Rating, Add	*244.74*	
		For Class 55 Rating, Add	*367.01*	
		For Class 56 Rating, Add	*487.68*	
40 05 19 00-2700	EA	8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,288.58	342.21
		For Class 52 Rating, Deduct	*-194.71*	
		For Class 54 Rating, Add	*271.73*	
		For Class 55 Rating, Add	*407.17*	
		For Class 56 Rating, Add	*540.84*	
40 05 19 00-2701	EA	8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,473.50	345.78
		For Class 52 Rating, Deduct	*-214.46*	
		For Class 54 Rating, Add	*298.73*	
		For Class 55 Rating, Add	*447.33*	
		For Class 56 Rating, Add	*593.99*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2702	EA	8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,658.43	349.34
		For Class 52 Rating, Deduct	*-234.20*	
		For Class 54 Rating, Add	*325.72*	
		For Class 55 Rating, Add	*487.50*	
		For Class 56 Rating, Add	*647.15*	
40 05 19 00-2703	EA	8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,843.36	352.90
		For Class 52 Rating, Deduct	*-253.95*	
		For Class 54 Rating, Add	*352.72*	
		For Class 55 Rating, Add	*527.66*	
		For Class 56 Rating, Add	*700.30*	
40 05 19 00-2704	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,028.29	356.47
		For Class 52 Rating, Deduct	*-273.70*	
		For Class 54 Rating, Add	*379.71*	
		For Class 55 Rating, Add	*567.83*	
		For Class 56 Rating, Add	*753.46*	
40 05 19 00-2705	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,213.22	360.03
		For Class 52 Rating, Deduct	*-293.45*	
		For Class 54 Rating, Add	*406.70*	
		For Class 55 Rating, Add	*607.99*	
		For Class 56 Rating, Add	*806.61*	
40 05 19 00-2706	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,398.15	363.60
		For Class 52 Rating, Deduct	*-313.20*	
		For Class 54 Rating, Add	*433.70*	
		For Class 55 Rating, Add	*648.16*	
		For Class 56 Rating, Add	*859.77*	
40 05 19 00-2707	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,583.08	367.17
		For Class 52 Rating, Deduct	*-332.94*	
		For Class 54 Rating, Add	*460.69*	
		For Class 55 Rating, Add	*688.32*	
		For Class 56 Rating, Add	*912.92*	
40 05 19 00-2708	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,768.00	370.73
		For Class 52 Rating, Deduct	*-352.69*	
		For Class 54 Rating, Add	*487.68*	
		For Class 55 Rating, Add	*728.48*	
		For Class 56 Rating, Add	*966.08*	
40 05 19 00-2709	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,952.94	374.29
		For Class 52 Rating, Deduct	*-372.44*	
		For Class 54 Rating, Add	*514.68*	
		For Class 55 Rating, Add	*768.65*	
		For Class 56 Rating, Add	*1,019.23*	
40 05 19 00-2710	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,137.86	377.86
		For Class 52 Rating, Deduct	*-392.19*	
		For Class 54 Rating, Add	*541.67*	
		For Class 55 Rating, Add	*808.81*	
		For Class 56 Rating, Add	*1,072.39*	
40 05 19 00-2711	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,322.79	381.42
		For Class 52 Rating, Deduct	*-411.94*	
		For Class 54 Rating, Add	*568.67*	
		For Class 55 Rating, Add	*848.98*	
		For Class 56 Rating, Add	*1,125.54*	
40 05 19 00-2712	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,507.71	384.98
		For Class 52 Rating, Deduct	*-431.68*	
		For Class 54 Rating, Add	*595.66*	
		For Class 55 Rating, Add	*889.14*	
		For Class 56 Rating, Add	*1,178.70*	
40 05 19 00-2713	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,692.65	388.55
		For Class 52 Rating, Deduct	*-451.43*	
		For Class 54 Rating, Add	*622.65*	
		For Class 55 Rating, Add	*929.31*	
		For Class 56 Rating, Add	*1,231.85*	
40 05 19 00-2714	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,877.57	392.12
		For Class 52 Rating, Deduct	*-471.18*	
		For Class 54 Rating, Add	*649.65*	
		For Class 55 Rating, Add	*969.47*	
		For Class 56 Rating, Add	*1,285.01*	
40 05 19 00-2715	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,062.50	395.68
		For Class 52 Rating, Deduct	*-490.93*	
		For Class 54 Rating, Add	*676.64*	
		For Class 55 Rating, Add	*1,009.63*	
		For Class 56 Rating, Add	*1,338.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2716	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,247.43	399.25
		For Class 52 Rating, Deduct	*-510.68*	
		For Class 54 Rating, Add	*703.64*	
		For Class 55 Rating, Add	*1,049.80*	
		For Class 56 Rating, Add	*1,391.32*	
40 05 19 00-2717	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,432.36	402.81
		For Class 52 Rating, Deduct	*-530.42*	
		For Class 54 Rating, Add	*730.63*	
		For Class 55 Rating, Add	*1,089.96*	
		For Class 56 Rating, Add	*1,444.47*	
40 05 19 00-2718	EA	8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,617.28	406.38
		For Class 52 Rating, Deduct	*-550.17*	
		For Class 54 Rating, Add	*757.62*	
		For Class 55 Rating, Add	*1,130.13*	
		For Class 56 Rating, Add	*1,497.63*	
40 05 19 00-2719	EA	8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,802.21	409.94
		For Class 52 Rating, Deduct	*-569.92*	
		For Class 54 Rating, Add	*784.62*	
		For Class 55 Rating, Add	*1,170.29*	
		For Class 56 Rating, Add	*1,550.78*	
40 05 19 00-2720	EA	8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,987.14	413.50
		For Class 52 Rating, Deduct	*-589.67*	
		For Class 54 Rating, Add	*811.61*	
		For Class 55 Rating, Add	*1,210.45*	
		For Class 56 Rating, Add	*1,603.94*	
40 05 19 00-2721	EA	8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,172.08	417.07
		For Class 52 Rating, Deduct	*-609.42*	
		For Class 54 Rating, Add	*838.61*	
		For Class 55 Rating, Add	*1,250.62*	
		For Class 56 Rating, Add	*1,657.09*	
40 05 19 00-2722	EA	8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,356.99	420.64
		For Class 52 Rating, Deduct	*-629.16*	
		For Class 54 Rating, Add	*865.60*	
		For Class 55 Rating, Add	*1,290.78*	
		For Class 56 Rating, Add	*1,710.25*	
40 05 19 00-2723	EA	8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,541.93	424.20
		For Class 52 Rating, Deduct	*-648.91*	
		For Class 54 Rating, Add	*892.59*	
		For Class 55 Rating, Add	*1,330.95*	
		For Class 56 Rating, Add	*1,763.40*	
40 05 19 00-2724	EA	8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,726.85	427.77
		For Class 52 Rating, Deduct	*-668.66*	
		For Class 54 Rating, Add	*919.59*	
		For Class 55 Rating, Add	*1,371.11*	
		For Class 56 Rating, Add	*1,816.56*	
40 05 19 00-2725	EA	8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,911.79	431.33
		For Class 52 Rating, Deduct	*-688.41*	
		For Class 54 Rating, Add	*946.58*	
		For Class 55 Rating, Add	*1,411.28*	
		For Class 56 Rating, Add	*1,869.71*	
40 05 19 00-2726	EA	8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,096.70	434.89
		For Class 52 Rating, Deduct	*-708.16*	
		For Class 54 Rating, Add	*973.57*	
		For Class 55 Rating, Add	*1,451.44*	
		For Class 56 Rating, Add	*1,922.87*	
40 05 19 00-2727	EA	8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,281.64	438.46
		For Class 52 Rating, Deduct	*-727.90*	
		For Class 54 Rating, Add	*1,000.57*	
		For Class 55 Rating, Add	*1,491.60*	
		For Class 56 Rating, Add	*1,976.02*	
40 05 19 00-2728	EA	8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,466.57	442.02
		For Class 52 Rating, Deduct	*-747.65*	
		For Class 54 Rating, Add	*1,027.56*	
		For Class 55 Rating, Add	*1,531.77*	
		For Class 56 Rating, Add	*2,029.18*	
40 05 19 00-2729	EA	8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,651.49	445.58
		For Class 52 Rating, Deduct	*-767.40*	
		For Class 54 Rating, Add	*1,054.56*	
		For Class 55 Rating, Add	*1,571.93*	
		For Class 56 Rating, Add	*2,082.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2730	EA	8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,836.43	449.16
		For Class 52 Rating, Deduct	*-787.15*	
		For Class 54 Rating, Add	*1,081.55*	
		For Class 55 Rating, Add	*1,612.10*	
		For Class 56 Rating, Add	*2,135.49*	
40 05 19 00-2731	EA	8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,021.35	452.72
		For Class 52 Rating, Deduct	*-806.90*	
		For Class 54 Rating, Add	*1,108.54*	
		For Class 55 Rating, Add	*1,652.26*	
		For Class 56 Rating, Add	*2,188.64*	
40 05 19 00-2732	EA	8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,206.29	456.28
		For Class 52 Rating, Deduct	*-826.64*	
		For Class 54 Rating, Add	*1,135.54*	
		For Class 55 Rating, Add	*1,692.43*	
		For Class 56 Rating, Add	*2,241.80*	
40 05 19 00-2733	EA	8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,391.21	459.85
		For Class 52 Rating, Deduct	*-846.39*	
		For Class 54 Rating, Add	*1,162.53*	
		For Class 55 Rating, Add	*1,732.59*	
		For Class 56 Rating, Add	*2,294.95*	
40 05 19 00-2734	EA	8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,576.14	463.41
		For Class 52 Rating, Deduct	*-866.14*	
		For Class 54 Rating, Add	*1,189.53*	
		For Class 55 Rating, Add	*1,772.75*	
		For Class 56 Rating, Add	*2,348.11*	

40 05 19 00-2735 10" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-2736	EA	10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,946.65	399.25
		For Class 52 Rating, Deduct	*-147.59*	
		For Class 54 Rating, Add	*208.52*	
		For Class 55 Rating, Add	*313.72*	
		For Class 56 Rating, Add	*417.59*	
40 05 19 00-2737	EA	10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,185.12	402.81
		For Class 52 Rating, Deduct	*-173.23*	
		For Class 54 Rating, Add	*243.54*	
		For Class 55 Rating, Add	*365.83*	
		For Class 56 Rating, Add	*486.54*	
40 05 19 00-2738	EA	10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,423.59	406.38
		For Class 52 Rating, Deduct	*-198.87*	
		For Class 54 Rating, Add	*278.57*	
		For Class 55 Rating, Add	*417.93*	
		For Class 56 Rating, Add	*555.49*	
40 05 19 00-2739	EA	10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,662.06	409.94
		For Class 52 Rating, Deduct	*-224.50*	
		For Class 54 Rating, Add	*313.59*	
		For Class 55 Rating, Add	*470.04*	
		For Class 56 Rating, Add	*624.44*	
40 05 19 00-2740	EA	10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,900.53	413.50
		For Class 52 Rating, Deduct	*-250.14*	
		For Class 54 Rating, Add	*348.62*	
		For Class 55 Rating, Add	*522.14*	
		For Class 56 Rating, Add	*693.39*	
40 05 19 00-2741	EA	10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,139.01	417.07
		For Class 52 Rating, Deduct	*-275.78*	
		For Class 54 Rating, Add	*383.65*	
		For Class 55 Rating, Add	*574.25*	
		For Class 56 Rating, Add	*762.34*	
40 05 19 00-2742	EA	10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,377.47	420.64
		For Class 52 Rating, Deduct	*-301.42*	
		For Class 54 Rating, Add	*418.67*	
		For Class 55 Rating, Add	*626.35*	
		For Class 56 Rating, Add	*831.29*	
40 05 19 00-2743	EA	10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,615.95	424.20
		For Class 52 Rating, Deduct	*-327.05*	
		For Class 54 Rating, Add	*453.70*	
		For Class 55 Rating, Add	*678.45*	
		For Class 56 Rating, Add	*900.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2744	EA	10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,854.41	427.77
		For Class 52 Rating, Deduct	*-352.69*	
		For Class 54 Rating, Add	*488.72*	
		For Class 55 Rating, Add	*730.56*	
		For Class 56 Rating, Add	*969.19*	
40 05 19 00-2745	EA	10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,092.89	431.33
		For Class 52 Rating, Deduct	*-378.33*	
		For Class 54 Rating, Add	*523.75*	
		For Class 55 Rating, Add	*782.66*	
		For Class 56 Rating, Add	*1,038.14*	
40 05 19 00-2746	EA	10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,331.35	434.89
		For Class 52 Rating, Deduct	*-403.97*	
		For Class 54 Rating, Add	*558.77*	
		For Class 55 Rating, Add	*834.77*	
		For Class 56 Rating, Add	*1,107.09*	
40 05 19 00-2747	EA	10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,569.83	438.46
		For Class 52 Rating, Deduct	*-429.61*	
		For Class 54 Rating, Add	*593.80*	
		For Class 55 Rating, Add	*886.87*	
		For Class 56 Rating, Add	*1,176.04*	
40 05 19 00-2748	EA	10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,808.30	442.02
		For Class 52 Rating, Deduct	*-455.24*	
		For Class 54 Rating, Add	*628.82*	
		For Class 55 Rating, Add	*938.97*	
		For Class 56 Rating, Add	*1,244.99*	
40 05 19 00-2749	EA	10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,046.77	445.58
		For Class 52 Rating, Deduct	*-480.88*	
		For Class 54 Rating, Add	*663.85*	
		For Class 55 Rating, Add	*991.08*	
		For Class 56 Rating, Add	*1,313.94*	
40 05 19 00-2750	EA	10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,285.26	449.16
		For Class 52 Rating, Deduct	*-506.52*	
		For Class 54 Rating, Add	*698.87*	
		For Class 55 Rating, Add	*1,043.19*	
		For Class 56 Rating, Add	*1,382.89*	
40 05 19 00-2751	EA	10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,523.72	452.72
		For Class 52 Rating, Deduct	*-532.16*	
		For Class 54 Rating, Add	*733.90*	
		For Class 55 Rating, Add	*1,095.29*	
		For Class 56 Rating, Add	*1,451.84*	
40 05 19 00-2752	EA	10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,762.20	456.28
		For Class 52 Rating, Deduct	*-557.79*	
		For Class 54 Rating, Add	*768.93*	
		For Class 55 Rating, Add	*1,147.39*	
		For Class 56 Rating, Add	*1,520.79*	
40 05 19 00-2753	EA	10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,000.67	459.85
		For Class 52 Rating, Deduct	*-583.43*	
		For Class 54 Rating, Add	*803.95*	
		For Class 55 Rating, Add	*1,199.50*	
		For Class 56 Rating, Add	*1,589.74*	
40 05 19 00-2754	EA	10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,239.14	463.41
		For Class 52 Rating, Deduct	*-609.07*	
		For Class 54 Rating, Add	*838.98*	
		For Class 55 Rating, Add	*1,251.60*	
		For Class 56 Rating, Add	*1,658.69*	
40 05 19 00-2755	EA	10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,477.61	466.97
		For Class 52 Rating, Deduct	*-634.71*	
		For Class 54 Rating, Add	*874.00*	
		For Class 55 Rating, Add	*1,303.71*	
		For Class 56 Rating, Add	*1,727.64*	
40 05 19 00-2756	EA	10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,716.08	470.54
		For Class 52 Rating, Deduct	*-660.35*	
		For Class 54 Rating, Add	*909.03*	
		For Class 55 Rating, Add	*1,355.81*	
		For Class 56 Rating, Add	*1,796.59*	
40 05 19 00-2757	EA	10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,954.55	474.10
		For Class 52 Rating, Deduct	*-685.98*	
		For Class 54 Rating, Add	*944.05*	
		For Class 55 Rating, Add	*1,407.91*	
		For Class 56 Rating, Add	*1,865.54*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2758	EA	10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,193.02	477.67
		For Class 52 Rating, Deduct	*-711.62*	
		For Class 54 Rating, Add	*979.08*	
		For Class 55 Rating, Add	*1,460.02*	
		For Class 56 Rating, Add	*1,934.49*	
40 05 19 00-2759	EA	10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,431.49	481.24
		For Class 52 Rating, Deduct	*-737.26*	
		For Class 54 Rating, Add	*1,014.10*	
		For Class 55 Rating, Add	*1,512.12*	
		For Class 56 Rating, Add	*2,003.44*	
40 05 19 00-2760	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,669.97	484.80
		For Class 52 Rating, Deduct	*-762.90*	
		For Class 54 Rating, Add	*1,049.13*	
		For Class 55 Rating, Add	*1,564.23*	
		For Class 56 Rating, Add	*2,072.39*	
40 05 19 00-2761	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,908.43	488.36
		For Class 52 Rating, Deduct	*-788.53*	
		For Class 54 Rating, Add	*1,084.15*	
		For Class 55 Rating, Add	*1,616.33*	
		For Class 56 Rating, Add	*2,141.34*	
40 05 19 00-2762	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,146.91	491.93
		For Class 52 Rating, Deduct	*-814.17*	
		For Class 54 Rating, Add	*1,119.18*	
		For Class 55 Rating, Add	*1,668.44*	
		For Class 56 Rating, Add	*2,210.29*	
40 05 19 00-2763	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,385.37	495.49
		For Class 52 Rating, Deduct	*-839.81*	
		For Class 54 Rating, Add	*1,154.20*	
		For Class 55 Rating, Add	*1,720.54*	
		For Class 56 Rating, Add	*2,279.24*	
40 05 19 00-2764	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,623.85	499.06
		For Class 52 Rating, Deduct	*-865.45*	
		For Class 54 Rating, Add	*1,189.23*	
		For Class 55 Rating, Add	*1,772.64*	
		For Class 56 Rating, Add	*2,348.19*	
40 05 19 00-2765	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,862.32	502.62
		For Class 52 Rating, Deduct	*-891.08*	
		For Class 54 Rating, Add	*1,224.25*	
		For Class 55 Rating, Add	*1,824.75*	
		For Class 56 Rating, Add	*2,417.14*	
40 05 19 00-2766	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,100.79	506.18
		For Class 52 Rating, Deduct	*-916.72*	
		For Class 54 Rating, Add	*1,259.28*	
		For Class 55 Rating, Add	*1,876.85*	
		For Class 56 Rating, Add	*2,486.09*	
40 05 19 00-2767	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,339.26	509.76
		For Class 52 Rating, Deduct	*-942.36*	
		For Class 54 Rating, Add	*1,294.30*	
		For Class 55 Rating, Add	*1,928.96*	
		For Class 56 Rating, Add	*2,555.04*	
40 05 19 00-2768	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,577.73	513.32
		For Class 52 Rating, Deduct	*-968.00*	
		For Class 54 Rating, Add	*1,329.33*	
		For Class 55 Rating, Add	*1,981.06*	
		For Class 56 Rating, Add	*2,623.99*	
40 05 19 00-2769	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,816.20	516.88
		For Class 52 Rating, Deduct	*-993.64*	
		For Class 54 Rating, Add	*1,364.36*	
		For Class 55 Rating, Add	*2,033.17*	
		For Class 56 Rating, Add	*2,692.94*	
40 05 19 00-2770	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,054.68	520.45
		For Class 52 Rating, Deduct	*-1,019.27*	
		For Class 54 Rating, Add	*1,399.38*	
		For Class 55 Rating, Add	*2,085.27*	
		For Class 56 Rating, Add	*2,761.89*	
40 05 19 00-2771	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,293.14	524.01
		For Class 52 Rating, Deduct	*-1,044.91*	
		For Class 54 Rating, Add	*1,434.41*	
		For Class 55 Rating, Add	*2,137.37*	
		For Class 56 Rating, Add	*2,830.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2772	EA	10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,531.62	527.57
		For Class 52 Rating, Deduct	*-1,070.55*	
		For Class 54 Rating, Add	*1,469.43*	
		For Class 55 Rating, Add	*2,189.48*	
		For Class 56 Rating, Add	*2,899.79*	
40 05 19 00-2773	EA	10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,770.08	531.14
		For Class 52 Rating, Deduct	*-1,096.19*	
		For Class 54 Rating, Add	*1,504.46*	
		For Class 55 Rating, Add	*2,241.58*	
		For Class 56 Rating, Add	*2,968.74*	
40 05 19 00-2774	EA	10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,008.56	534.70
		For Class 52 Rating, Deduct	*-1,121.82*	
		For Class 54 Rating, Add	*1,539.48*	
		For Class 55 Rating, Add	*2,293.69*	
		For Class 56 Rating, Add	*3,037.69*	

40 05 19 00-2775 12" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-2776	EA	12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,519.93	499.06
		For Class 52 Rating, Deduct	*-194.02*	
		For Class 54 Rating, Add	*273.64*	
		For Class 55 Rating, Add	*411.47*	
		For Class 56 Rating, Add	*547.54*	
40 05 19 00-2777	EA	12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,815.09	502.62
		For Class 52 Rating, Deduct	*-225.89*	
		For Class 54 Rating, Add	*317.17*	
		For Class 55 Rating, Add	*476.22*	
		For Class 56 Rating, Add	*633.21*	
40 05 19 00-2778	EA	12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,110.25	506.18
		For Class 52 Rating, Deduct	*-257.76*	
		For Class 54 Rating, Add	*360.70*	
		For Class 55 Rating, Add	*540.96*	
		For Class 56 Rating, Add	*718.88*	
40 05 19 00-2779	EA	12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,405.42	509.76
		For Class 52 Rating, Deduct	*-289.64*	
		For Class 54 Rating, Add	*404.23*	
		For Class 55 Rating, Add	*605.71*	
		For Class 56 Rating, Add	*804.56*	
40 05 19 00-2780	EA	12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,700.58	513.32
		For Class 52 Rating, Deduct	*-321.51*	
		For Class 54 Rating, Add	*447.76*	
		For Class 55 Rating, Add	*670.46*	
		For Class 56 Rating, Add	*890.23*	
40 05 19 00-2781	EA	12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,995.74	516.88
		For Class 52 Rating, Deduct	*-353.38*	
		For Class 54 Rating, Add	*491.29*	
		For Class 55 Rating, Add	*735.20*	
		For Class 56 Rating, Add	*975.91*	
40 05 19 00-2782	EA	12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,290.92	520.45
		For Class 52 Rating, Deduct	*-385.26*	
		For Class 54 Rating, Add	*534.82*	
		For Class 55 Rating, Add	*799.95*	
		For Class 56 Rating, Add	*1,061.58*	
40 05 19 00-2783	EA	12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,586.07	524.01
		For Class 52 Rating, Deduct	*-417.13*	
		For Class 54 Rating, Add	*578.35*	
		For Class 55 Rating, Add	*864.70*	
		For Class 56 Rating, Add	*1,147.26*	
40 05 19 00-2784	EA	12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,881.24	527.57
		For Class 52 Rating, Deduct	*-449.01*	
		For Class 54 Rating, Add	*621.87*	
		For Class 55 Rating, Add	*929.44*	
		For Class 56 Rating, Add	*1,232.93*	
40 05 19 00-2785	EA	12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,176.39	531.14
		For Class 52 Rating, Deduct	*-480.88*	
		For Class 54 Rating, Add	*665.40*	
		For Class 55 Rating, Add	*994.19*	
		For Class 56 Rating, Add	*1,318.60*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2786	EA	12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,471.57	534.70
		For Class 52 Rating, Deduct	*-512.76*	
		For Class 54 Rating, Add	*708.93*	
		For Class 55 Rating, Add	*1,058.94*	
		For Class 56 Rating, Add	*1,404.28*	
40 05 19 00-2787	EA	12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,766.73	538.27
		For Class 52 Rating, Deduct	*-544.63*	
		For Class 54 Rating, Add	*752.46*	
		For Class 55 Rating, Add	*1,123.68*	
		For Class 56 Rating, Add	*1,489.96*	
40 05 19 00-2788	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,061.89	541.84
		For Class 52 Rating, Deduct	*-576.50*	
		For Class 54 Rating, Add	*795.99*	
		For Class 55 Rating, Add	*1,188.43*	
		For Class 56 Rating, Add	*1,575.63*	
40 05 19 00-2789	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,357.07	545.40
		For Class 52 Rating, Deduct	*-608.38*	
		For Class 54 Rating, Add	*839.52*	
		For Class 55 Rating, Add	*1,253.18*	
		For Class 56 Rating, Add	*1,661.31*	
40 05 19 00-2790	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,652.22	548.96
		For Class 52 Rating, Deduct	*-640.25*	
		For Class 54 Rating, Add	*883.05*	
		For Class 55 Rating, Add	*1,317.92*	
		For Class 56 Rating, Add	*1,746.98*	
40 05 19 00-2791	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,947.39	552.53
		For Class 52 Rating, Deduct	*-672.12*	
		For Class 54 Rating, Add	*926.58*	
		For Class 55 Rating, Add	*1,382.67*	
		For Class 56 Rating, Add	*1,832.65*	
40 05 19 00-2792	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,242.55	556.09
		For Class 52 Rating, Deduct	*-704.00*	
		For Class 54 Rating, Add	*970.11*	
		For Class 55 Rating, Add	*1,447.42*	
		For Class 56 Rating, Add	*1,918.33*	
40 05 19 00-2793	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,537.72	559.65
		For Class 52 Rating, Deduct	*-735.87*	
		For Class 54 Rating, Add	*1,013.64*	
		For Class 55 Rating, Add	*1,512.17*	
		For Class 56 Rating, Add	*2,004.00*	
40 05 19 00-2794	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,832.88	563.22
		For Class 52 Rating, Deduct	*-767.75*	
		For Class 54 Rating, Add	*1,057.17*	
		For Class 55 Rating, Add	*1,576.91*	
		For Class 56 Rating, Add	*2,089.68*	
40 05 19 00-2795	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,128.05	566.79
		For Class 52 Rating, Deduct	*-799.62*	
		For Class 54 Rating, Add	*1,100.70*	
		For Class 55 Rating, Add	*1,641.66*	
		For Class 56 Rating, Add	*2,175.35*	
40 05 19 00-2796	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,423.21	570.35
		For Class 52 Rating, Deduct	*-831.49*	
		For Class 54 Rating, Add	*1,144.23*	
		For Class 55 Rating, Add	*1,706.41*	
		For Class 56 Rating, Add	*2,261.03*	
40 05 19 00-2797	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,718.37	573.92
		For Class 52 Rating, Deduct	*-863.37*	
		For Class 54 Rating, Add	*1,187.75*	
		For Class 55 Rating, Add	*1,771.15*	
		For Class 56 Rating, Add	*2,346.70*	
40 05 19 00-2798	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,013.54	577.48
		For Class 52 Rating, Deduct	*-895.24*	
		For Class 54 Rating, Add	*1,231.29*	
		For Class 55 Rating, Add	*1,835.90*	
		For Class 56 Rating, Add	*2,432.38*	
40 05 19 00-2799	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,308.70	581.05
		For Class 52 Rating, Deduct	*-927.12*	
		For Class 54 Rating, Add	*1,274.81*	
		For Class 55 Rating, Add	*1,900.65*	
		For Class 56 Rating, Add	*2,518.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2800	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,603.86	584.61
		For Class 52 Rating, Deduct	*-958.99*	
		For Class 54 Rating, Add	*1,318.34*	
		For Class 55 Rating, Add	*1,965.39*	
		For Class 56 Rating, Add	*2,603.72*	
40 05 19 00-2801	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,899.04	588.17
		For Class 52 Rating, Deduct	*-990.86*	
		For Class 54 Rating, Add	*1,361.87*	
		For Class 55 Rating, Add	*2,030.14*	
		For Class 56 Rating, Add	*2,689.40*	
40 05 19 00-2802	EA	12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,194.19	591.74
		For Class 52 Rating, Deduct	*-1,022.74*	
		For Class 54 Rating, Add	*1,405.40*	
		For Class 55 Rating, Add	*2,094.89*	
		For Class 56 Rating, Add	*2,775.07*	
40 05 19 00-2803	EA	12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,489.36	595.31
		For Class 52 Rating, Deduct	*-1,054.61*	
		For Class 54 Rating, Add	*1,448.93*	
		For Class 55 Rating, Add	*2,159.63*	
		For Class 56 Rating, Add	*2,860.75*	
40 05 19 00-2804	EA	12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,784.52	598.87
		For Class 52 Rating, Deduct	*-1,086.49*	
		For Class 54 Rating, Add	*1,492.46*	
		For Class 55 Rating, Add	*2,224.38*	
		For Class 56 Rating, Add	*2,946.42*	
40 05 19 00-2805	EA	12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,079.69	602.44
		For Class 52 Rating, Deduct	*-1,118.36*	
		For Class 54 Rating, Add	*1,535.99*	
		For Class 55 Rating, Add	*2,289.13*	
		For Class 56 Rating, Add	*3,032.10*	
40 05 19 00-2806	EA	12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,374.85	606.00
		For Class 52 Rating, Deduct	*-1,150.23*	
		For Class 54 Rating, Add	*1,579.52*	
		For Class 55 Rating, Add	*2,353.87*	
		For Class 56 Rating, Add	*3,117.77*	
40 05 19 00-2807	EA	12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,670.02	609.56
		For Class 52 Rating, Deduct	*-1,182.11*	
		For Class 54 Rating, Add	*1,623.05*	
		For Class 55 Rating, Add	*2,418.62*	
		For Class 56 Rating, Add	*3,203.45*	
40 05 19 00-2808	EA	12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,965.18	613.13
		For Class 52 Rating, Deduct	*-1,213.98*	
		For Class 54 Rating, Add	*1,666.58*	
		For Class 55 Rating, Add	*2,483.37*	
		For Class 56 Rating, Add	*3,289.12*	
40 05 19 00-2809	EA	12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,260.34	616.69
		For Class 52 Rating, Deduct	*-1,245.86*	
		For Class 54 Rating, Add	*1,710.11*	
		For Class 55 Rating, Add	*2,548.11*	
		For Class 56 Rating, Add	*3,374.80*	
40 05 19 00-2810	EA	12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,555.50	620.25
		For Class 52 Rating, Deduct	*-1,277.73*	
		For Class 54 Rating, Add	*1,753.64*	
		For Class 55 Rating, Add	*2,612.86*	
		For Class 56 Rating, Add	*3,460.47*	
40 05 19 00-2811	EA	12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,850.68	623.83
		For Class 52 Rating, Deduct	*-1,309.60*	
		For Class 54 Rating, Add	*1,797.17*	
		For Class 55 Rating, Add	*2,677.61*	
		For Class 56 Rating, Add	*3,546.15*	
40 05 19 00-2812	EA	12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,145.84	627.39
		For Class 52 Rating, Deduct	*-1,341.48*	
		For Class 54 Rating, Add	*1,840.69*	
		For Class 55 Rating, Add	*2,742.35*	
		For Class 56 Rating, Add	*3,631.82*	
40 05 19 00-2813	EA	12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,441.00	630.95
		For Class 52 Rating, Deduct	*-1,373.35*	
		For Class 54 Rating, Add	*1,884.22*	
		For Class 55 Rating, Add	*2,807.10*	
		For Class 56 Rating, Add	*3,717.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2814	EA	12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,736.17	634.52
		For Class 52 Rating, Deduct	*-1,405.23*	
		For Class 54 Rating, Add	*1,927.75*	
		For Class 55 Rating, Add	*2,871.85*	
		For Class 56 Rating, Add	*3,803.17*	
40 05 19 00-2815		14" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*		
40 05 19 00-2816	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,508.94	598.87
		For Class 52 Rating, Deduct	*-286.17*	
		For Class 54 Rating, Add	*401.12*	
		For Class 55 Rating, Add	*601.93*	
		For Class 56 Rating, Add	*800.13*	
40 05 19 00-2817	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,867.10	602.44
		For Class 52 Rating, Deduct	*-324.98*	
		For Class 54 Rating, Add	*454.10*	
		For Class 55 Rating, Add	*680.72*	
		For Class 56 Rating, Add	*904.38*	
40 05 19 00-2818	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,225.26	606.00
		For Class 52 Rating, Deduct	*-363.78*	
		For Class 54 Rating, Add	*507.08*	
		For Class 55 Rating, Add	*759.52*	
		For Class 56 Rating, Add	*1,008.64*	
40 05 19 00-2819	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,583.42	609.56
		For Class 52 Rating, Deduct	*-402.58*	
		For Class 54 Rating, Add	*560.06*	
		For Class 55 Rating, Add	*838.31*	
		For Class 56 Rating, Add	*1,112.90*	
40 05 19 00-2820	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,941.57	613.13
		For Class 52 Rating, Deduct	*-441.38*	
		For Class 54 Rating, Add	*613.04*	
		For Class 55 Rating, Add	*917.10*	
		For Class 56 Rating, Add	*1,217.16*	
40 05 19 00-2821	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,299.73	616.69
		For Class 52 Rating, Deduct	*-480.19*	
		For Class 54 Rating, Add	*666.02*	
		For Class 55 Rating, Add	*995.90*	
		For Class 56 Rating, Add	*1,321.42*	
40 05 19 00-2822	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,657.88	620.25
		For Class 52 Rating, Deduct	*-518.99*	
		For Class 54 Rating, Add	*718.99*	
		For Class 55 Rating, Add	*1,074.69*	
		For Class 56 Rating, Add	*1,425.67*	
40 05 19 00-2823	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,016.05	623.83
		For Class 52 Rating, Deduct	*-557.79*	
		For Class 54 Rating, Add	*771.97*	
		For Class 55 Rating, Add	*1,153.49*	
		For Class 56 Rating, Add	*1,529.93*	
40 05 19 00-2824	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,374.20	627.39
		For Class 52 Rating, Deduct	*-596.60*	
		For Class 54 Rating, Add	*824.95*	
		For Class 55 Rating, Add	*1,232.28*	
		For Class 56 Rating, Add	*1,634.19*	
40 05 19 00-2825	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,732.36	630.95
		For Class 52 Rating, Deduct	*-635.40*	
		For Class 54 Rating, Add	*877.93*	
		For Class 55 Rating, Add	*1,311.07*	
		For Class 56 Rating, Add	*1,738.44*	
40 05 19 00-2826	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,090.51	634.52
		For Class 52 Rating, Deduct	*-674.20*	
		For Class 54 Rating, Add	*930.90*	
		For Class 55 Rating, Add	*1,389.87*	
		For Class 56 Rating, Add	*1,842.70*	
40 05 19 00-2827	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,448.67	638.08
		For Class 52 Rating, Deduct	*-713.01*	
		For Class 54 Rating, Add	*983.88*	
		For Class 55 Rating, Add	*1,468.66*	
		For Class 56 Rating, Add	*1,946.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2828	EA	14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,806.82	641.64
		For Class 52 Rating, Deduct	*-751.81*	
		For Class 54 Rating, Add	*1,036.86*	
		For Class 55 Rating, Add	*1,547.46*	
		For Class 56 Rating, Add	*2,051.21*	
40 05 19 00-2829	EA	14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,164.98	645.21
		For Class 52 Rating, Deduct	*-790.61*	
		For Class 54 Rating, Add	*1,089.84*	
		For Class 55 Rating, Add	*1,626.25*	
		For Class 56 Rating, Add	*2,155.47*	
40 05 19 00-2830	EA	14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,523.14	648.77
		For Class 52 Rating, Deduct	*-829.42*	
		For Class 54 Rating, Add	*1,142.82*	
		For Class 55 Rating, Add	*1,705.04*	
		For Class 56 Rating, Add	*2,259.73*	
40 05 19 00-2831	EA	14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,881.29	652.34
		For Class 52 Rating, Deduct	*-868.22*	
		For Class 54 Rating, Add	*1,195.80*	
		For Class 55 Rating, Add	*1,783.84*	
		For Class 56 Rating, Add	*2,363.99*	
40 05 19 00-2832	EA	14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,239.45	655.91
		For Class 52 Rating, Deduct	*-907.02*	
		For Class 54 Rating, Add	*1,248.77*	
		For Class 55 Rating, Add	*1,862.63*	
		For Class 56 Rating, Add	*2,468.24*	
40 05 19 00-2833	EA	14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,597.60	659.47
		For Class 52 Rating, Deduct	*-945.83*	
		For Class 54 Rating, Add	*1,301.75*	
		For Class 55 Rating, Add	*1,941.43*	
		For Class 56 Rating, Add	*2,572.50*	
40 05 19 00-2834	EA	14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,955.76	663.03
		For Class 52 Rating, Deduct	*-984.63*	
		For Class 54 Rating, Add	*1,354.73*	
		For Class 55 Rating, Add	*2,020.22*	
		For Class 56 Rating, Add	*2,676.76*	
40 05 19 00-2835	EA	14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,313.92	666.60
		For Class 52 Rating, Deduct	*-1,023.43*	
		For Class 54 Rating, Add	*1,407.71*	
		For Class 55 Rating, Add	*2,099.01*	
		For Class 56 Rating, Add	*2,781.02*	
40 05 19 00-2836	EA	14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,672.07	670.16
		For Class 52 Rating, Deduct	*-1,062.23*	
		For Class 54 Rating, Add	*1,460.69*	
		For Class 55 Rating, Add	*2,177.81*	
		For Class 56 Rating, Add	*2,885.27*	
40 05 19 00-2837	EA	14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,030.23	673.73
		For Class 52 Rating, Deduct	*-1,101.04*	
		For Class 54 Rating, Add	*1,513.66*	
		For Class 55 Rating, Add	*2,256.60*	
		For Class 56 Rating, Add	*2,989.53*	
40 05 19 00-2838	EA	14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,388.38	677.29
		For Class 52 Rating, Deduct	*-1,139.84*	
		For Class 54 Rating, Add	*1,566.64*	
		For Class 55 Rating, Add	*2,335.39*	
		For Class 56 Rating, Add	*3,093.79*	
40 05 19 00-2839	EA	14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,746.54	680.86
		For Class 52 Rating, Deduct	*-1,178.64*	
		For Class 54 Rating, Add	*1,619.62*	
		For Class 55 Rating, Add	*2,414.19*	
		For Class 56 Rating, Add	*3,198.04*	
40 05 19 00-2840	EA	14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,104.69	684.43
		For Class 52 Rating, Deduct	*-1,217.45*	
		For Class 54 Rating, Add	*1,672.60*	
		For Class 55 Rating, Add	*2,492.98*	
		For Class 56 Rating, Add	*3,302.30*	
40 05 19 00-2841	EA	14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,462.85	687.99
		For Class 52 Rating, Deduct	*-1,256.25*	
		For Class 54 Rating, Add	*1,725.58*	
		For Class 55 Rating, Add	*2,571.78*	
		For Class 56 Rating, Add	*3,406.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2842	EA	14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,821.01	691.55
		For Class 52 Rating, Deduct	*-1,295.05*	
		For Class 54 Rating, Add	*1,778.55*	
		For Class 55 Rating, Add	*2,650.57*	
		For Class 56 Rating, Add	*3,510.82*	
40 05 19 00-2843	EA	14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,179.16	695.12
		For Class 52 Rating, Deduct	*-1,333.86*	
		For Class 54 Rating, Add	*1,831.53*	
		For Class 55 Rating, Add	*2,729.37*	
		For Class 56 Rating, Add	*3,615.07*	
40 05 19 00-2844	EA	14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,537.33	698.68
		For Class 52 Rating, Deduct	*-1,372.66*	
		For Class 54 Rating, Add	*1,884.51*	
		For Class 55 Rating, Add	*2,808.16*	
		For Class 56 Rating, Add	*3,719.33*	
40 05 19 00-2845	EA	14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,895.47	702.24
		For Class 52 Rating, Deduct	*-1,411.46*	
		For Class 54 Rating, Add	*1,937.49*	
		For Class 55 Rating, Add	*2,886.95*	
		For Class 56 Rating, Add	*3,823.59*	
40 05 19 00-2846	EA	14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,253.64	705.81
		For Class 52 Rating, Deduct	*-1,450.27*	
		For Class 54 Rating, Add	*1,990.47*	
		For Class 55 Rating, Add	*2,965.75*	
		For Class 56 Rating, Add	*3,927.85*	
40 05 19 00-2847	EA	14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,611.79	709.38
		For Class 52 Rating, Deduct	*-1,489.07*	
		For Class 54 Rating, Add	*2,043.44*	
		For Class 55 Rating, Add	*3,044.54*	
		For Class 56 Rating, Add	*4,032.10*	
40 05 19 00-2848	EA	14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,969.95	712.94
		For Class 52 Rating, Deduct	*-1,527.87*	
		For Class 54 Rating, Add	*2,096.42*	
		For Class 55 Rating, Add	*3,123.34*	
		For Class 56 Rating, Add	*4,136.36*	
40 05 19 00-2849	EA	14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,328.11	716.51
		For Class 52 Rating, Deduct	*-1,566.67*	
		For Class 54 Rating, Add	*2,149.40*	
		For Class 55 Rating, Add	*3,202.13*	
		For Class 56 Rating, Add	*4,240.62*	
40 05 19 00-2850	EA	14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,686.26	720.07
		For Class 52 Rating, Deduct	*-1,605.48*	
		For Class 54 Rating, Add	*2,202.38*	
		For Class 55 Rating, Add	*3,280.92*	
		For Class 56 Rating, Add	*4,344.88*	
40 05 19 00-2851	EA	14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,044.42	723.63
		For Class 52 Rating, Deduct	*-1,644.28*	
		For Class 54 Rating, Add	*2,255.36*	
		For Class 55 Rating, Add	*3,359.72*	
		For Class 56 Rating, Add	*4,449.13*	
40 05 19 00-2852	EA	14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,402.58	727.20
		For Class 52 Rating, Deduct	*-1,683.08*	
		For Class 54 Rating, Add	*2,308.34*	
		For Class 55 Rating, Add	*3,438.51*	
		For Class 56 Rating, Add	*4,553.39*	
40 05 19 00-2853	EA	14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,760.73	730.76
		For Class 52 Rating, Deduct	*-1,721.89*	
		For Class 54 Rating, Add	*2,361.31*	
		For Class 55 Rating, Add	*3,517.31*	
		For Class 56 Rating, Add	*4,657.65*	

40 05 19 00-2854 16" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-2855	EA	16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,107.86	684.43
		For Class 52 Rating, Deduct	*-337.79*	
		For Class 54 Rating, Add	*473.07*	
		For Class 55 Rating, Add	*709.69*	
		For Class 56 Rating, Add	*943.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2856	EA	16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,522.71	687.99
		For Class 52 Rating, Deduct	*-382.83*	
		For Class 54 Rating, Add	*534.56*	
		For Class 55 Rating, Add	*801.13*	
		For Class 56 Rating, Add	*1,064.22*	
40 05 19 00-2857	EA	16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,937.57	691.55
		For Class 52 Rating, Deduct	*-427.87*	
		For Class 54 Rating, Add	*596.04*	
		For Class 55 Rating, Add	*892.56*	
		For Class 56 Rating, Add	*1,185.20*	
40 05 19 00-2858	EA	16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,352.40	695.12
		For Class 52 Rating, Deduct	*-472.91*	
		For Class 54 Rating, Add	*657.52*	
		For Class 55 Rating, Add	*984.00*	
		For Class 56 Rating, Add	*1,306.18*	
40 05 19 00-2859	EA	16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,767.26	698.68
		For Class 52 Rating, Deduct	*-517.95*	
		For Class 54 Rating, Add	*719.00*	
		For Class 55 Rating, Add	*1,075.44*	
		For Class 56 Rating, Add	*1,427.16*	
40 05 19 00-2860	EA	16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,182.10	702.24
		For Class 52 Rating, Deduct	*-562.99*	
		For Class 54 Rating, Add	*780.48*	
		For Class 55 Rating, Add	*1,166.87*	
		For Class 56 Rating, Add	*1,548.14*	
40 05 19 00-2861	EA	16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,596.96	705.81
		For Class 52 Rating, Deduct	*-608.03*	
		For Class 54 Rating, Add	*841.97*	
		For Class 55 Rating, Add	*1,258.31*	
		For Class 56 Rating, Add	*1,669.13*	
40 05 19 00-2862	EA	16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,011.81	709.38
		For Class 52 Rating, Deduct	*-653.07*	
		For Class 54 Rating, Add	*903.45*	
		For Class 55 Rating, Add	*1,349.75*	
		For Class 56 Rating, Add	*1,790.11*	
40 05 19 00-2863	EA	16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,426.65	712.94
		For Class 52 Rating, Deduct	*-698.11*	
		For Class 54 Rating, Add	*964.93*	
		For Class 55 Rating, Add	*1,441.18*	
		For Class 56 Rating, Add	*1,911.09*	
40 05 19 00-2864	EA	16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,841.51	716.51
		For Class 52 Rating, Deduct	*-743.15*	
		For Class 54 Rating, Add	*1,026.41*	
		For Class 55 Rating, Add	*1,532.62*	
		For Class 56 Rating, Add	*2,032.07*	
40 05 19 00-2865	EA	16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,256.35	720.07
		For Class 52 Rating, Deduct	*-788.19*	
		For Class 54 Rating, Add	*1,087.89*	
		For Class 55 Rating, Add	*1,624.06*	
		For Class 56 Rating, Add	*2,153.05*	
40 05 19 00-2866	EA	16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,671.21	723.63
		For Class 52 Rating, Deduct	*-833.23*	
		For Class 54 Rating, Add	*1,149.38*	
		For Class 55 Rating, Add	*1,715.49*	
		For Class 56 Rating, Add	*2,274.03*	
40 05 19 00-2867	EA	16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,086.06	727.20
		For Class 52 Rating, Deduct	*-878.27*	
		For Class 54 Rating, Add	*1,210.86*	
		For Class 55 Rating, Add	*1,806.93*	
		For Class 56 Rating, Add	*2,395.02*	
40 05 19 00-2868	EA	16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,500.90	730.76
		For Class 52 Rating, Deduct	*-923.30*	
		For Class 54 Rating, Add	*1,272.34*	
		For Class 55 Rating, Add	*1,898.36*	
		For Class 56 Rating, Add	*2,516.00*	
40 05 19 00-2869	EA	16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,915.75	734.32
		For Class 52 Rating, Deduct	*-968.34*	
		For Class 54 Rating, Add	*1,333.82*	
		For Class 55 Rating, Add	*1,989.80*	
		For Class 56 Rating, Add	*2,636.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2870	EA	16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,330.60	737.89
		For Class 52 Rating, Deduct	*-1,013.38*	
		For Class 54 Rating, Add	*1,395.30*	
		For Class 55 Rating, Add	*2,081.24*	
		For Class 56 Rating, Add	*2,757.96*	
40 05 19 00-2871	EA	16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,745.45	741.46
		For Class 52 Rating, Deduct	*-1,058.42*	
		For Class 54 Rating, Add	*1,456.79*	
		For Class 55 Rating, Add	*2,172.67*	
		For Class 56 Rating, Add	*2,878.94*	
40 05 19 00-2872	EA	16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,160.30	745.02
		For Class 52 Rating, Deduct	*-1,103.46*	
		For Class 54 Rating, Add	*1,518.27*	
		For Class 55 Rating, Add	*2,264.11*	
		For Class 56 Rating, Add	*2,999.92*	
40 05 19 00-2873	EA	16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,575.14	748.59
		For Class 52 Rating, Deduct	*-1,148.50*	
		For Class 54 Rating, Add	*1,579.75*	
		For Class 55 Rating, Add	*2,355.55*	
		For Class 56 Rating, Add	*3,120.90*	
40 05 19 00-2874	EA	16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,990.00	752.15
		For Class 52 Rating, Deduct	*-1,193.54*	
		For Class 54 Rating, Add	*1,641.23*	
		For Class 55 Rating, Add	*2,446.98*	
		For Class 56 Rating, Add	*3,241.89*	
40 05 19 00-2875	EA	16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,404.84	755.71
		For Class 52 Rating, Deduct	*-1,238.58*	
		For Class 54 Rating, Add	*1,702.71*	
		For Class 55 Rating, Add	*2,538.42*	
		For Class 56 Rating, Add	*3,362.87*	
40 05 19 00-2876	EA	16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,819.70	759.28
		For Class 52 Rating, Deduct	*-1,283.62*	
		For Class 54 Rating, Add	*1,764.20*	
		For Class 55 Rating, Add	*2,629.86*	
		For Class 56 Rating, Add	*3,483.85*	
40 05 19 00-2877	EA	16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,234.54	762.84
		For Class 52 Rating, Deduct	*-1,328.66*	
		For Class 54 Rating, Add	*1,825.68*	
		For Class 55 Rating, Add	*2,721.29*	
		For Class 56 Rating, Add	*3,604.83*	
40 05 19 00-2878	EA	16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,649.39	766.41
		For Class 52 Rating, Deduct	*-1,373.70*	
		For Class 54 Rating, Add	*1,887.16*	
		For Class 55 Rating, Add	*2,812.73*	
		For Class 56 Rating, Add	*3,725.81*	
40 05 19 00-2879	EA	16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,064.24	769.98
		For Class 52 Rating, Deduct	*-1,418.74*	
		For Class 54 Rating, Add	*1,948.64*	
		For Class 55 Rating, Add	*2,904.17*	
		For Class 56 Rating, Add	*3,846.79*	
40 05 19 00-2880	EA	16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,479.09	773.54
		For Class 52 Rating, Deduct	*-1,463.78*	
		For Class 54 Rating, Add	*2,010.12*	
		For Class 55 Rating, Add	*2,995.60*	
		For Class 56 Rating, Add	*3,967.78*	
40 05 19 00-2881	EA	16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,893.94	777.11
		For Class 52 Rating, Deduct	*-1,508.82*	
		For Class 54 Rating, Add	*2,071.61*	
		For Class 55 Rating, Add	*3,087.04*	
		For Class 56 Rating, Add	*4,088.76*	
40 05 19 00-2882	EA	16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,308.79	780.67
		For Class 52 Rating, Deduct	*-1,553.86*	
		For Class 54 Rating, Add	*2,133.09*	
		For Class 55 Rating, Add	*3,178.48*	
		For Class 56 Rating, Add	*4,209.74*	
40 05 19 00-2883	EA	16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,723.63	784.23
		For Class 52 Rating, Deduct	*-1,598.89*	
		For Class 54 Rating, Add	*2,194.57*	
		For Class 55 Rating, Add	*3,269.91*	
		For Class 56 Rating, Add	*4,330.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2884	EA	16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,138.48	787.80
		For Class 52 Rating, Deduct	*-1,643.93*	
		For Class 54 Rating, Add	*2,256.05*	
		For Class 55 Rating, Add	*3,361.35*	
		For Class 56 Rating, Add	*4,451.70*	
40 05 19 00-2885	EA	16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,553.33	791.36
		For Class 52 Rating, Deduct	*-1,688.97*	
		For Class 54 Rating, Add	*2,317.53*	
		For Class 55 Rating, Add	*3,452.79*	
		For Class 56 Rating, Add	*4,572.68*	
40 05 19 00-2886	EA	16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,968.19	794.92
		For Class 52 Rating, Deduct	*-1,734.01*	
		For Class 54 Rating, Add	*2,379.02*	
		For Class 55 Rating, Add	*3,544.22*	
		For Class 56 Rating, Add	*4,693.67*	
40 05 19 00-2887	EA	16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,383.03	798.50
		For Class 52 Rating, Deduct	*-1,779.05*	
		For Class 54 Rating, Add	*2,440.50*	
		For Class 55 Rating, Add	*3,635.66*	
		For Class 56 Rating, Add	*4,814.65*	
40 05 19 00-2888	EA	16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,797.88	802.06
		For Class 52 Rating, Deduct	*-1,824.09*	
		For Class 54 Rating, Add	*2,501.98*	
		For Class 55 Rating, Add	*3,727.09*	
		For Class 56 Rating, Add	*4,935.63*	
40 05 19 00-2889	EA	16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,212.73	805.62
		For Class 52 Rating, Deduct	*-1,869.13*	
		For Class 54 Rating, Add	*2,563.46*	
		For Class 55 Rating, Add	*3,818.53*	
		For Class 56 Rating, Add	*5,056.61*	
40 05 19 00-2890	EA	16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,627.58	809.19
		For Class 52 Rating, Deduct	*-1,914.17*	
		For Class 54 Rating, Add	*2,624.94*	
		For Class 55 Rating, Add	*3,909.97*	
		For Class 56 Rating, Add	*5,177.59*	
40 05 19 00-2891	EA	16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,042.44	812.75
		For Class 52 Rating, Deduct	*-1,959.21*	
		For Class 54 Rating, Add	*2,686.43*	
		For Class 55 Rating, Add	*4,001.41*	
		For Class 56 Rating, Add	*5,298.57*	
40 05 19 00-2892	EA	16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,457.28	816.31
		For Class 52 Rating, Deduct	*-2,004.25*	
		For Class 54 Rating, Add	*2,747.91*	
		For Class 55 Rating, Add	*4,092.84*	
		For Class 56 Rating, Add	*5,419.56*	

40 05 19 00-2893 18" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-2894	EA	18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,806.58	771.41
		For Class 52 Rating, Deduct	*-400.16*	
		For Class 54 Rating, Add	*559.69*	
		For Class 55 Rating, Add	*839.28*	
		For Class 56 Rating, Add	*1,115.22*	
40 05 19 00-2895	EA	18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,284.42	774.97
		For Class 52 Rating, Deduct	*-452.13*	
		For Class 54 Rating, Add	*630.62*	
		For Class 55 Rating, Add	*944.76*	
		For Class 56 Rating, Add	*1,254.79*	
40 05 19 00-2896	EA	18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,762.26	778.54
		For Class 52 Rating, Deduct	*-504.09*	
		For Class 54 Rating, Add	*701.56*	
		For Class 55 Rating, Add	*1,050.25*	
		For Class 56 Rating, Add	*1,394.35*	
40 05 19 00-2897	EA	18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,240.10	782.10
		For Class 52 Rating, Deduct	*-556.06*	
		For Class 54 Rating, Add	*772.49*	
		For Class 55 Rating, Add	*1,155.73*	
		For Class 56 Rating, Add	*1,533.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2898	EA	18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,717.95	785.66
		For Class 52 Rating, Deduct	*-608.03*	
		For Class 54 Rating, Add	*843.42*	
		For Class 55 Rating, Add	*1,261.21*	
		For Class 56 Rating, Add	*1,673.48*	
40 05 19 00-2899	EA	18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,195.78	789.23
		For Class 52 Rating, Deduct	*-660.00*	
		For Class 54 Rating, Add	*914.35*	
		For Class 55 Rating, Add	*1,366.70*	
		For Class 56 Rating, Add	*1,813.05*	
40 05 19 00-2900	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,673.63	792.79
		For Class 52 Rating, Deduct	*-711.97*	
		For Class 54 Rating, Add	*985.28*	
		For Class 55 Rating, Add	*1,472.18*	
		For Class 56 Rating, Add	*1,952.61*	
40 05 19 00-2901	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,151.46	796.36
		For Class 52 Rating, Deduct	*-763.94*	
		For Class 54 Rating, Add	*1,056.21*	
		For Class 55 Rating, Add	*1,577.66*	
		For Class 56 Rating, Add	*2,092.17*	
40 05 19 00-2902	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,629.31	799.93
		For Class 52 Rating, Deduct	*-815.90*	
		For Class 54 Rating, Add	*1,127.14*	
		For Class 55 Rating, Add	*1,683.15*	
		For Class 56 Rating, Add	*2,231.74*	
40 05 19 00-2903	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,107.14	803.49
		For Class 52 Rating, Deduct	*-867.87*	
		For Class 54 Rating, Add	*1,198.07*	
		For Class 55 Rating, Add	*1,788.63*	
		For Class 56 Rating, Add	*2,371.30*	
40 05 19 00-2904	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,584.99	807.05
		For Class 52 Rating, Deduct	*-919.84*	
		For Class 54 Rating, Add	*1,269.00*	
		For Class 55 Rating, Add	*1,894.12*	
		For Class 56 Rating, Add	*2,510.87*	
40 05 19 00-2905	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,062.83	810.62
		For Class 52 Rating, Deduct	*-971.81*	
		For Class 54 Rating, Add	*1,339.93*	
		For Class 55 Rating, Add	*1,999.60*	
		For Class 56 Rating, Add	*2,650.43*	
40 05 19 00-2906	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,540.67	814.18
		For Class 52 Rating, Deduct	*-1,023.78*	
		For Class 54 Rating, Add	*1,410.86*	
		For Class 55 Rating, Add	*2,105.08*	
		For Class 56 Rating, Add	*2,790.00*	
40 05 19 00-2907	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,018.51	817.74
		For Class 52 Rating, Deduct	*-1,075.75*	
		For Class 54 Rating, Add	*1,481.79*	
		For Class 55 Rating, Add	*2,210.57*	
		For Class 56 Rating, Add	*2,929.56*	
40 05 19 00-2908	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,496.35	821.31
		For Class 52 Rating, Deduct	*-1,127.71*	
		For Class 54 Rating, Add	*1,552.73*	
		For Class 55 Rating, Add	*2,316.05*	
		For Class 56 Rating, Add	*3,069.12*	
40 05 19 00-2909	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,974.20	824.88
		For Class 52 Rating, Deduct	*-1,179.68*	
		For Class 54 Rating, Add	*1,623.66*	
		For Class 55 Rating, Add	*2,421.53*	
		For Class 56 Rating, Add	*3,208.69*	
40 05 19 00-2910	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,452.04	828.44
		For Class 52 Rating, Deduct	*-1,231.65*	
		For Class 54 Rating, Add	*1,694.59*	
		For Class 55 Rating, Add	*2,527.02*	
		For Class 56 Rating, Add	*3,348.25*	
40 05 19 00-2911	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,929.88	832.01
		For Class 52 Rating, Deduct	*-1,283.62*	
		For Class 54 Rating, Add	*1,765.52*	
		For Class 55 Rating, Add	*2,632.50*	
		For Class 56 Rating, Add	*3,487.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2912	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,407.72	835.57
		For Class 52 Rating, Deduct	*-1,335.59*	
		For Class 54 Rating, Add	*1,836.45*	
		For Class 55 Rating, Add	*2,737.99*	
		For Class 56 Rating, Add	*3,627.38*	
40 05 19 00-2913	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,885.56	839.13
		For Class 52 Rating, Deduct	*-1,387.56*	
		For Class 54 Rating, Add	*1,907.38*	
		For Class 55 Rating, Add	*2,843.47*	
		For Class 56 Rating, Add	*3,766.95*	
40 05 19 00-2914	EA	18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,363.40	842.70
		For Class 52 Rating, Deduct	*-1,439.52*	
		For Class 54 Rating, Add	*1,978.31*	
		For Class 55 Rating, Add	*2,948.95*	
		For Class 56 Rating, Add	*3,906.51*	
40 05 19 00-2915	EA	18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,841.24	846.26
		For Class 52 Rating, Deduct	*-1,491.49*	
		For Class 54 Rating, Add	*2,049.24*	
		For Class 55 Rating, Add	*3,054.44*	
		For Class 56 Rating, Add	*4,046.07*	
40 05 19 00-2916	EA	18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,319.08	849.82
		For Class 52 Rating, Deduct	*-1,543.46*	
		For Class 54 Rating, Add	*2,120.17*	
		For Class 55 Rating, Add	*3,159.92*	
		For Class 56 Rating, Add	*4,185.64*	
40 05 19 00-2917	EA	18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,796.93	853.40
		For Class 52 Rating, Deduct	*-1,595.43*	
		For Class 54 Rating, Add	*2,191.10*	
		For Class 55 Rating, Add	*3,265.40*	
		For Class 56 Rating, Add	*4,325.20*	
40 05 19 00-2918	EA	18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,274.76	856.96
		For Class 52 Rating, Deduct	*-1,647.40*	
		For Class 54 Rating, Add	*2,262.03*	
		For Class 55 Rating, Add	*3,370.89*	
		For Class 56 Rating, Add	*4,464.77*	
40 05 19 00-2919	EA	18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,752.61	860.53
		For Class 52 Rating, Deduct	*-1,699.37*	
		For Class 54 Rating, Add	*2,332.96*	
		For Class 55 Rating, Add	*3,476.37*	
		For Class 56 Rating, Add	*4,604.33*	
40 05 19 00-2920	EA	18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,230.44	864.09
		For Class 52 Rating, Deduct	*-1,751.34*	
		For Class 54 Rating, Add	*2,403.90*	
		For Class 55 Rating, Add	*3,581.86*	
		For Class 56 Rating, Add	*4,743.89*	
40 05 19 00-2921	EA	18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,708.29	867.65
		For Class 52 Rating, Deduct	*-1,803.30*	
		For Class 54 Rating, Add	*2,474.83*	
		For Class 55 Rating, Add	*3,687.34*	
		For Class 56 Rating, Add	*4,883.46*	
40 05 19 00-2922	EA	18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,186.13	871.22
		For Class 52 Rating, Deduct	*-1,855.27*	
		For Class 54 Rating, Add	*2,545.76*	
		For Class 55 Rating, Add	*3,792.82*	
		For Class 56 Rating, Add	*5,023.02*	
40 05 19 00-2923	EA	18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,663.97	874.78
		For Class 52 Rating, Deduct	*-1,907.24*	
		For Class 54 Rating, Add	*2,616.69*	
		For Class 55 Rating, Add	*3,898.31*	
		For Class 56 Rating, Add	*5,162.59*	
40 05 19 00-2924	EA	18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,141.81	878.34
		For Class 52 Rating, Deduct	*-1,959.21*	
		For Class 54 Rating, Add	*2,687.62*	
		For Class 55 Rating, Add	*4,003.79*	
		For Class 56 Rating, Add	*5,302.15*	
40 05 19 00-2925	EA	18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,619.65	881.92
		For Class 52 Rating, Deduct	*-2,011.18*	
		For Class 54 Rating, Add	*2,758.55*	
		For Class 55 Rating, Add	*4,109.27*	
		For Class 56 Rating, Add	*5,441.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2926	EA	18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,097.49	885.48
		For Class 52 Rating, Deduct	*-2,063.15*	
		For Class 54 Rating, Add	*2,829.48*	
		For Class 55 Rating, Add	*4,214.76*	
		For Class 56 Rating, Add	*5,581.28*	
40 05 19 00-2927	EA	18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,575.33	889.04
		For Class 52 Rating, Deduct	*-2,115.11*	
		For Class 54 Rating, Add	*2,900.41*	
		For Class 55 Rating, Add	*4,320.24*	
		For Class 56 Rating, Add	*5,720.84*	
40 05 19 00-2928	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,053.17	892.61
		For Class 52 Rating, Deduct	*-2,167.08*	
		For Class 54 Rating, Add	*2,971.34*	
		For Class 55 Rating, Add	*4,425.73*	
		For Class 56 Rating, Add	*5,860.41*	
40 05 19 00-2929	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,531.02	896.17
		For Class 52 Rating, Deduct	*-2,219.05*	
		For Class 54 Rating, Add	*3,042.27*	
		For Class 55 Rating, Add	*4,531.21*	
		For Class 56 Rating, Add	*5,999.97*	
40 05 19 00-2930	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,008.85	899.73
		For Class 52 Rating, Deduct	*-2,271.02*	
		For Class 54 Rating, Add	*3,113.20*	
		For Class 55 Rating, Add	*4,636.69*	
		For Class 56 Rating, Add	*6,139.54*	
40 05 19 00-2931	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,486.70	903.30
		For Class 52 Rating, Deduct	*-2,322.99*	
		For Class 54 Rating, Add	*3,184.13*	
		For Class 55 Rating, Add	*4,742.18*	
		For Class 56 Rating, Add	*6,279.10*	

40 05 19 00-2932 20" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-2933	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,570.27	880.48
		For Class 52 Rating, Deduct	*-465.98*	
		For Class 54 Rating, Add	*651.44*	
		For Class 55 Rating, Add	*976.69*	
		For Class 56 Rating, Add	*1,297.71*	
40 05 19 00-2934	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,114.25	884.05
		For Class 52 Rating, Deduct	*-525.23*	
		For Class 54 Rating, Add	*732.29*	
		For Class 55 Rating, Add	*1,096.93*	
		For Class 56 Rating, Add	*1,456.78*	
40 05 19 00-2935	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,658.24	887.61
		For Class 52 Rating, Deduct	*-584.47*	
		For Class 54 Rating, Add	*813.15*	
		For Class 55 Rating, Add	*1,217.16*	
		For Class 56 Rating, Add	*1,615.86*	
40 05 19 00-2936	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,202.22	891.18
		For Class 52 Rating, Deduct	*-643.72*	
		For Class 54 Rating, Add	*894.00*	
		For Class 55 Rating, Add	*1,337.39*	
		For Class 56 Rating, Add	*1,774.94*	
40 05 19 00-2937	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,746.21	894.74
		For Class 52 Rating, Deduct	*-702.96*	
		For Class 54 Rating, Add	*974.85*	
		For Class 55 Rating, Add	*1,457.63*	
		For Class 56 Rating, Add	*1,934.01*	
40 05 19 00-2938	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,290.19	898.30
		For Class 52 Rating, Deduct	*-762.20*	
		For Class 54 Rating, Add	*1,055.70*	
		For Class 55 Rating, Add	*1,577.86*	
		For Class 56 Rating, Add	*2,093.09*	
40 05 19 00-2939	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,834.17	901.87
		For Class 52 Rating, Deduct	*-821.45*	
		For Class 54 Rating, Add	*1,136.55*	
		For Class 55 Rating, Add	*1,698.09*	
		For Class 56 Rating, Add	*2,252.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2940	EA	20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,378.15	905.43
		For Class 52 Rating, Deduct	*-880.69*	
		For Class 54 Rating, Add	*1,217.40*	
		For Class 55 Rating, Add	*1,818.33*	
		For Class 56 Rating, Add	*2,411.24*	
40 05 19 00-2941	EA	20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,922.13	908.99
		For Class 52 Rating, Deduct	*-939.93*	
		For Class 54 Rating, Add	*1,298.26*	
		For Class 55 Rating, Add	*1,938.56*	
		For Class 56 Rating, Add	*2,570.32*	
40 05 19 00-2942	EA	20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,466.12	912.57
		For Class 52 Rating, Deduct	*-999.18*	
		For Class 54 Rating, Add	*1,379.11*	
		For Class 55 Rating, Add	*2,058.79*	
		For Class 56 Rating, Add	*2,729.39*	
40 05 19 00-2943	EA	20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,010.11	916.13
		For Class 52 Rating, Deduct	*-1,058.42*	
		For Class 54 Rating, Add	*1,459.96*	
		For Class 55 Rating, Add	*2,179.03*	
		For Class 56 Rating, Add	*2,888.47*	
40 05 19 00-2944	EA	20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,554.08	919.69
		For Class 52 Rating, Deduct	*-1,117.67*	
		For Class 54 Rating, Add	*1,540.81*	
		For Class 55 Rating, Add	*2,299.26*	
		For Class 56 Rating, Add	*3,047.54*	
40 05 19 00-2945	EA	20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,098.07	923.26
		For Class 52 Rating, Deduct	*-1,176.91*	
		For Class 54 Rating, Add	*1,621.67*	
		For Class 55 Rating, Add	*2,419.49*	
		For Class 56 Rating, Add	*3,206.62*	
40 05 19 00-2946	EA	20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,642.04	926.82
		For Class 52 Rating, Deduct	*-1,236.15*	
		For Class 54 Rating, Add	*1,702.52*	
		For Class 55 Rating, Add	*2,539.73*	
		For Class 56 Rating, Add	*3,365.70*	
40 05 19 00-2947	EA	20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,186.03	930.38
		For Class 52 Rating, Deduct	*-1,295.40*	
		For Class 54 Rating, Add	*1,783.37*	
		For Class 55 Rating, Add	*2,659.96*	
		For Class 56 Rating, Add	*3,524.77*	
40 05 19 00-2948	EA	20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,730.01	933.95
		For Class 52 Rating, Deduct	*-1,354.64*	
		For Class 54 Rating, Add	*1,864.22*	
		For Class 55 Rating, Add	*2,780.19*	
		For Class 56 Rating, Add	*3,683.85*	
40 05 19 00-2949	EA	20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,274.00	937.51
		For Class 52 Rating, Deduct	*-1,413.89*	
		For Class 54 Rating, Add	*1,945.07*	
		For Class 55 Rating, Add	*2,900.43*	
		For Class 56 Rating, Add	*3,842.93*	
40 05 19 00-2950	EA	20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,817.98	941.09
		For Class 52 Rating, Deduct	*-1,473.13*	
		For Class 54 Rating, Add	*2,025.93*	
		For Class 55 Rating, Add	*3,020.66*	
		For Class 56 Rating, Add	*4,002.00*	
40 05 19 00-2951	EA	20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,361.96	944.65
		For Class 52 Rating, Deduct	*-1,532.37*	
		For Class 54 Rating, Add	*2,106.78*	
		For Class 55 Rating, Add	*3,140.89*	
		For Class 56 Rating, Add	*4,161.08*	
40 05 19 00-2952	EA	20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,905.94	948.21
		For Class 52 Rating, Deduct	*-1,591.62*	
		For Class 54 Rating, Add	*2,187.63*	
		For Class 55 Rating, Add	*3,261.13*	
		For Class 56 Rating, Add	*4,320.15*	
40 05 19 00-2953	EA	20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,449.92	951.78
		For Class 52 Rating, Deduct	*-1,650.86*	
		For Class 54 Rating, Add	*2,268.48*	
		For Class 55 Rating, Add	*3,381.36*	
		For Class 56 Rating, Add	*4,479.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2954	EA	20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,993.91	955.34
		For Class 52 Rating, Deduct	*-1,710.11*	
		For Class 54 Rating, Add	*2,349.33*	
		For Class 55 Rating, Add	*3,501.59*	
		For Class 56 Rating, Add	*4,638.31*	
40 05 19 00-2955	EA	20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,537.90	958.90
		For Class 52 Rating, Deduct	*-1,769.35*	
		For Class 54 Rating, Add	*2,430.19*	
		For Class 55 Rating, Add	*3,621.83*	
		For Class 56 Rating, Add	*4,797.38*	
40 05 19 00-2956	EA	20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,081.87	962.47
		For Class 52 Rating, Deduct	*-1,828.59*	
		For Class 54 Rating, Add	*2,511.04*	
		For Class 55 Rating, Add	*3,742.06*	
		For Class 56 Rating, Add	*4,956.46*	
40 05 19 00-2957	EA	20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,625.86	966.03
		For Class 52 Rating, Deduct	*-1,887.84*	
		For Class 54 Rating, Add	*2,591.89*	
		For Class 55 Rating, Add	*3,862.29*	
		For Class 56 Rating, Add	*5,115.53*	
40 05 19 00-2958	EA	20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,169.83	969.60
		For Class 52 Rating, Deduct	*-1,947.08*	
		For Class 54 Rating, Add	*2,672.74*	
		For Class 55 Rating, Add	*3,982.53*	
		For Class 56 Rating, Add	*5,274.61*	
40 05 19 00-2959	EA	20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,713.82	973.17
		For Class 52 Rating, Deduct	*-2,006.33*	
		For Class 54 Rating, Add	*2,753.59*	
		For Class 55 Rating, Add	*4,102.76*	
		For Class 56 Rating, Add	*5,433.68*	
40 05 19 00-2960	EA	20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,257.81	976.73
		For Class 52 Rating, Deduct	*-2,065.57*	
		For Class 54 Rating, Add	*2,834.45*	
		For Class 55 Rating, Add	*4,222.99*	
		For Class 56 Rating, Add	*5,592.76*	
40 05 19 00-2961	EA	20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,801.79	980.29
		For Class 52 Rating, Deduct	*-2,124.82*	
		For Class 54 Rating, Add	*2,915.30*	
		For Class 55 Rating, Add	*4,343.23*	
		For Class 56 Rating, Add	*5,751.84*	
40 05 19 00-2962	EA	20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,345.78	983.86
		For Class 52 Rating, Deduct	*-2,184.06*	
		For Class 54 Rating, Add	*2,996.15*	
		For Class 55 Rating, Add	*4,463.46*	
		For Class 56 Rating, Add	*5,910.91*	
40 05 19 00-2963	EA	20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,889.75	987.42
		For Class 52 Rating, Deduct	*-2,243.30*	
		For Class 54 Rating, Add	*3,077.00*	
		For Class 55 Rating, Add	*4,583.69*	
		For Class 56 Rating, Add	*6,069.99*	
40 05 19 00-2964	EA	20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,433.74	990.98
		For Class 52 Rating, Deduct	*-2,302.55*	
		For Class 54 Rating, Add	*3,157.85*	
		For Class 55 Rating, Add	*4,703.93*	
		For Class 56 Rating, Add	*6,229.06*	
40 05 19 00-2965	EA	20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,977.71	994.55
		For Class 52 Rating, Deduct	*-2,361.79*	
		For Class 54 Rating, Add	*3,238.71*	
		For Class 55 Rating, Add	*4,824.16*	
		For Class 56 Rating, Add	*6,388.14*	
40 05 19 00-2966	EA	20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,521.70	998.11
		For Class 52 Rating, Deduct	*-2,421.03*	
		For Class 54 Rating, Add	*3,319.56*	
		For Class 55 Rating, Add	*4,944.39*	
		For Class 56 Rating, Add	*6,547.22*	
40 05 19 00-2967	EA	20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,065.69	1,001.68
		For Class 52 Rating, Deduct	*-2,480.28*	
		For Class 54 Rating, Add	*3,400.41*	
		For Class 55 Rating, Add	*5,064.63*	
		For Class 56 Rating, Add	*6,706.29*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2968	EA	20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,609.67	1,005.25
		For Class 52 Rating, Deduct	*-2,539.52*	
		For Class 54 Rating, Add	*3,481.26*	
		For Class 55 Rating, Add	*5,184.86*	
		For Class 56 Rating, Add	*6,865.37*	
40 05 19 00-2969	EA	20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,153.65	1,008.81
		For Class 52 Rating, Deduct	*-2,598.77*	
		For Class 54 Rating, Add	*3,562.11*	
		For Class 55 Rating, Add	*5,305.09*	
		For Class 56 Rating, Add	*7,024.45*	
40 05 19 00-2970	EA	20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,697.63	1,012.37
		For Class 52 Rating, Deduct	*-2,658.01*	
		For Class 54 Rating, Add	*3,642.97*	
		For Class 55 Rating, Add	*5,425.33*	
		For Class 56 Rating, Add	*7,183.52*	

40 05 19 00-2971 24" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-2972	EA	24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,925.13	1,040.89
		For Class 52 Rating, Deduct	*-588.28*	
		For Class 54 Rating, Add	*821.13*	
		For Class 55 Rating, Add	*1,230.46*	
		For Class 56 Rating, Add	*1,634.44*	
40 05 19 00-2973	EA	24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,598.25	1,044.46
		For Class 52 Rating, Deduct	*-661.73*	
		For Class 54 Rating, Add	*921.35*	
		For Class 55 Rating, Add	*1,379.49*	
		For Class 56 Rating, Add	*1,831.61*	
40 05 19 00-2974	EA	24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,271.36	1,048.02
		For Class 52 Rating, Deduct	*-735.18*	
		For Class 54 Rating, Add	*1,021.57*	
		For Class 55 Rating, Add	*1,528.52*	
		For Class 56 Rating, Add	*2,028.78*	
40 05 19 00-2975	EA	24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,944.48	1,051.58
		For Class 52 Rating, Deduct	*-808.63*	
		For Class 54 Rating, Add	*1,121.80*	
		For Class 55 Rating, Add	*1,677.55*	
		For Class 56 Rating, Add	*2,225.95*	
40 05 19 00-2976	EA	24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,617.59	1,055.15
		For Class 52 Rating, Deduct	*-882.08*	
		For Class 54 Rating, Add	*1,222.02*	
		For Class 55 Rating, Add	*1,826.58*	
		For Class 56 Rating, Add	*2,423.12*	
40 05 19 00-2977	EA	24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,290.71	1,058.72
		For Class 52 Rating, Deduct	*-955.53*	
		For Class 54 Rating, Add	*1,322.24*	
		For Class 55 Rating, Add	*1,975.61*	
		For Class 56 Rating, Add	*2,620.29*	
40 05 19 00-2978	EA	24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,963.83	1,062.28
		For Class 52 Rating, Deduct	*-1,028.97*	
		For Class 54 Rating, Add	*1,422.46*	
		For Class 55 Rating, Add	*2,124.64*	
		For Class 56 Rating, Add	*2,817.46*	
40 05 19 00-2979	EA	24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,636.94	1,065.85
		For Class 52 Rating, Deduct	*-1,102.42*	
		For Class 54 Rating, Add	*1,522.68*	
		For Class 55 Rating, Add	*2,273.67*	
		For Class 56 Rating, Add	*3,014.64*	
40 05 19 00-2980	EA	24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,310.06	1,069.41
		For Class 52 Rating, Deduct	*-1,175.87*	
		For Class 54 Rating, Add	*1,622.90*	
		For Class 55 Rating, Add	*2,422.70*	
		For Class 56 Rating, Add	*3,211.80*	
40 05 19 00-2981	EA	24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,983.18	1,072.97
		For Class 52 Rating, Deduct	*-1,249.32*	
		For Class 54 Rating, Add	*1,723.13*	
		For Class 55 Rating, Add	*2,571.73*	
		For Class 56 Rating, Add	*3,408.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2982	EA	24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,656.29	1,076.54
		For Class 52 Rating, Deduct	*-1,322.77*	
		For Class 54 Rating, Add	*1,823.35*	
		For Class 55 Rating, Add	*2,720.76*	
		For Class 56 Rating, Add	*3,606.15*	
40 05 19 00-2983	EA	24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,329.42	1,080.10
		For Class 52 Rating, Deduct	*-1,396.22*	
		For Class 54 Rating, Add	*1,923.57*	
		For Class 55 Rating, Add	*2,869.79*	
		For Class 56 Rating, Add	*3,803.32*	
40 05 19 00-2984	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,002.52	1,083.66
		For Class 52 Rating, Deduct	*-1,469.67*	
		For Class 54 Rating, Add	*2,023.79*	
		For Class 55 Rating, Add	*3,018.82*	
		For Class 56 Rating, Add	*4,000.49*	
40 05 19 00-2985	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,675.65	1,087.24
		For Class 52 Rating, Deduct	*-1,543.12*	
		For Class 54 Rating, Add	*2,124.02*	
		For Class 55 Rating, Add	*3,167.85*	
		For Class 56 Rating, Add	*4,197.66*	
40 05 19 00-2986	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,348.75	1,090.80
		For Class 52 Rating, Deduct	*-1,616.56*	
		For Class 54 Rating, Add	*2,224.24*	
		For Class 55 Rating, Add	*3,316.88*	
		For Class 56 Rating, Add	*4,394.83*	
40 05 19 00-2987	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,021.88	1,094.36
		For Class 52 Rating, Deduct	*-1,690.01*	
		For Class 54 Rating, Add	*2,324.46*	
		For Class 55 Rating, Add	*3,465.91*	
		For Class 56 Rating, Add	*4,592.00*	
40 05 19 00-2988	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,694.98	1,097.93
		For Class 52 Rating, Deduct	*-1,763.46*	
		For Class 54 Rating, Add	*2,424.68*	
		For Class 55 Rating, Add	*3,614.94*	
		For Class 56 Rating, Add	*4,789.17*	
40 05 19 00-2989	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,368.11	1,101.49
		For Class 52 Rating, Deduct	*-1,836.91*	
		For Class 54 Rating, Add	*2,524.90*	
		For Class 55 Rating, Add	*3,763.97*	
		For Class 56 Rating, Add	*4,986.34*	
40 05 19 00-2990	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,041.22	1,105.05
		For Class 52 Rating, Deduct	*-1,910.36*	
		For Class 54 Rating, Add	*2,625.13*	
		For Class 55 Rating, Add	*3,913.00*	
		For Class 56 Rating, Add	*5,183.51*	
40 05 19 00-2991	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,714.34	1,108.62
		For Class 52 Rating, Deduct	*-1,983.81*	
		For Class 54 Rating, Add	*2,725.35*	
		For Class 55 Rating, Add	*4,062.03*	
		For Class 56 Rating, Add	*5,380.68*	
40 05 19 00-2992	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,387.45	1,112.18
		For Class 52 Rating, Deduct	*-2,057.26*	
		For Class 54 Rating, Add	*2,825.57*	
		For Class 55 Rating, Add	*4,211.06*	
		For Class 56 Rating, Add	*5,577.85*	
40 05 19 00-2993	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,060.57	1,115.75
		For Class 52 Rating, Deduct	*-2,130.70*	
		For Class 54 Rating, Add	*2,925.79*	
		For Class 55 Rating, Add	*4,360.09*	
		For Class 56 Rating, Add	*5,775.02*	
40 05 19 00-2994	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,733.69	1,119.32
		For Class 52 Rating, Deduct	*-2,204.15*	
		For Class 54 Rating, Add	*3,026.02*	
		For Class 55 Rating, Add	*4,509.12*	
		For Class 56 Rating, Add	*5,972.19*	
40 05 19 00-2995	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,406.81	1,122.88
		For Class 52 Rating, Deduct	*-2,277.60*	
		For Class 54 Rating, Add	*3,126.24*	
		For Class 55 Rating, Add	*4,658.15*	
		For Class 56 Rating, Add	*6,169.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2996	EA	24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,079.92	1,126.45
		For Class 52 Rating, Deduct	*-2,351.05*	
		For Class 54 Rating, Add	*3,226.46*	
		For Class 55 Rating, Add	*4,807.18*	
		For Class 56 Rating, Add	*6,366.53*	
40 05 19 00-2997	EA	24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,753.04	1,130.01
		For Class 52 Rating, Deduct	*-2,424.50*	
		For Class 54 Rating, Add	*3,326.68*	
		For Class 55 Rating, Add	*4,956.21*	
		For Class 56 Rating, Add	*6,563.70*	
40 05 19 00-2998	EA	24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,426.15	1,133.57
		For Class 52 Rating, Deduct	*-2,497.95*	
		For Class 54 Rating, Add	*3,426.90*	
		For Class 55 Rating, Add	*5,105.24*	
		For Class 56 Rating, Add	*6,760.87*	
40 05 19 00-2999	EA	24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,099.27	1,137.14
		For Class 52 Rating, Deduct	*-2,571.40*	
		For Class 54 Rating, Add	*3,527.12*	
		For Class 55 Rating, Add	*5,254.27*	
		For Class 56 Rating, Add	*6,958.04*	
40 05 19 00-3000	EA	24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,772.38	1,140.70
		For Class 52 Rating, Deduct	*-2,644.85*	
		For Class 54 Rating, Add	*3,627.35*	
		For Class 55 Rating, Add	*5,403.30*	
		For Class 56 Rating, Add	*7,155.21*	
40 05 19 00-3001	EA	24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,537.32	1,204.87
		For Class 52 Rating, Deduct	*-2,718.29*	
		For Class 54 Rating, Add	*3,728.67*	
		For Class 55 Rating, Add	*5,554.54*	
		For Class 56 Rating, Add	*7,355.69*	
40 05 19 00-3002	EA	24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,210.44	1,208.44
		For Class 52 Rating, Deduct	*-2,791.74*	
		For Class 54 Rating, Add	*3,828.89*	
		For Class 55 Rating, Add	*5,703.57*	
		For Class 56 Rating, Add	*7,552.86*	
40 05 19 00-3003	EA	24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,883.55	1,212.00
		For Class 52 Rating, Deduct	*-2,865.19*	
		For Class 54 Rating, Add	*3,929.11*	
		For Class 55 Rating, Add	*5,852.60*	
		For Class 56 Rating, Add	*7,750.03*	
40 05 19 00-3004	EA	24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,556.67	1,215.56
		For Class 52 Rating, Deduct	*-2,938.64*	
		For Class 54 Rating, Add	*4,029.34*	
		For Class 55 Rating, Add	*6,001.63*	
		For Class 56 Rating, Add	*7,947.20*	
40 05 19 00-3005	EA	24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,229.78	1,219.13
		For Class 52 Rating, Deduct	*-3,012.09*	
		For Class 54 Rating, Add	*4,129.56*	
		For Class 55 Rating, Add	*6,150.66*	
		For Class 56 Rating, Add	*8,144.37*	
40 05 19 00-3006	EA	24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,899.75	1,222.69
		For Class 52 Rating, Deduct	*-3,085.19*	
		For Class 54 Rating, Add	*4,229.31*	
		For Class 55 Rating, Add	*6,298.98*	
		For Class 56 Rating, Add	*8,340.61*	
40 05 19 00-3007	EA	24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,576.02	1,226.25
		For Class 52 Rating, Deduct	*-3,158.99*	
		For Class 54 Rating, Add	*4,330.00*	
		For Class 55 Rating, Add	*6,448.72*	
		For Class 56 Rating, Add	*8,538.71*	
40 05 19 00-3008	EA	24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,249.13	1,229.83
		For Class 52 Rating, Deduct	*-3,232.43*	
		For Class 54 Rating, Add	*4,430.23*	
		For Class 55 Rating, Add	*6,597.75*	
		For Class 56 Rating, Add	*8,735.88*	
40 05 19 00-3009	EA	24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,922.25	1,233.39
		For Class 52 Rating, Deduct	*-3,305.88*	
		For Class 54 Rating, Add	*4,530.45*	
		For Class 55 Rating, Add	*6,746.78*	
		For Class 56 Rating, Add	*8,933.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3010		30" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*		
40 05 19 00-3011	EA	30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,647.26	1,468.66
		For Class 52 Rating, Deduct	*-926.42*	
		For Class 54 Rating, Add	*1,290.01*	
		For Class 55 Rating, Add	*1,931.52*	
		For Class 56 Rating, Add	*2,564.61*	
40 05 19 00-3012	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,610.15	1,472.22
		For Class 52 Rating, Deduct	*-1,031.75*	
		For Class 54 Rating, Add	*1,433.69*	
		For Class 55 Rating, Add	*2,145.17*	
		For Class 56 Rating, Add	*2,847.26*	
40 05 19 00-3013	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,573.03	1,475.79
		For Class 52 Rating, Deduct	*-1,137.07*	
		For Class 54 Rating, Add	*1,577.38*	
		For Class 55 Rating, Add	*2,358.81*	
		For Class 56 Rating, Add	*3,129.91*	
40 05 19 00-3014	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,535.91	1,479.35
		For Class 52 Rating, Deduct	*-1,242.39*	
		For Class 54 Rating, Add	*1,721.07*	
		For Class 55 Rating, Add	*2,572.46*	
		For Class 56 Rating, Add	*3,412.56*	
40 05 19 00-3015	EA	30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,498.78	1,482.91
		For Class 52 Rating, Deduct	*-1,347.71*	
		For Class 54 Rating, Add	*1,864.75*	
		For Class 55 Rating, Add	*2,786.11*	
		For Class 56 Rating, Add	*3,695.21*	
40 05 19 00-3016	EA	30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,461.66	1,486.48
		For Class 52 Rating, Deduct	*-1,453.04*	
		For Class 54 Rating, Add	*2,008.44*	
		For Class 55 Rating, Add	*2,999.75*	
		For Class 56 Rating, Add	*3,977.86*	
40 05 19 00-3017	EA	30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,424.54	1,490.05
		For Class 52 Rating, Deduct	*-1,558.36*	
		For Class 54 Rating, Add	*2,152.13*	
		For Class 55 Rating, Add	*3,213.40*	
		For Class 56 Rating, Add	*4,260.51*	
40 05 19 00-3018	EA	30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,387.42	1,493.61
		For Class 52 Rating, Deduct	*-1,663.68*	
		For Class 54 Rating, Add	*2,295.81*	
		For Class 55 Rating, Add	*3,427.05*	
		For Class 56 Rating, Add	*4,543.16*	
40 05 19 00-3019	EA	30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,350.30	1,497.18
		For Class 52 Rating, Deduct	*-1,769.00*	
		For Class 54 Rating, Add	*2,439.50*	
		For Class 55 Rating, Add	*3,640.70*	
		For Class 56 Rating, Add	*4,825.81*	
40 05 19 00-3020	EA	30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,313.19	1,500.74
		For Class 52 Rating, Deduct	*-1,874.33*	
		For Class 54 Rating, Add	*2,583.19*	
		For Class 55 Rating, Add	*3,854.35*	
		For Class 56 Rating, Add	*5,108.46*	
40 05 19 00-3021	EA	30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,276.05	1,504.30
		For Class 52 Rating, Deduct	*-1,979.65*	
		For Class 54 Rating, Add	*2,726.87*	
		For Class 55 Rating, Add	*4,067.99*	
		For Class 56 Rating, Add	*5,391.11*	
40 05 19 00-3022	EA	30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,238.94	1,507.87
		For Class 52 Rating, Deduct	*-2,084.97*	
		For Class 54 Rating, Add	*2,870.56*	
		For Class 55 Rating, Add	*4,281.64*	
		For Class 56 Rating, Add	*5,673.76*	
40 05 19 00-3023	EA	30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,201.81	1,511.43
		For Class 52 Rating, Deduct	*-2,190.29*	
		For Class 54 Rating, Add	*3,014.25*	
		For Class 55 Rating, Add	*4,495.29*	
		For Class 56 Rating, Add	*5,956.41*	
40 05 19 00-3024	EA	30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,164.70	1,514.99
		For Class 52 Rating, Deduct	*-2,295.62*	
		For Class 54 Rating, Add	*3,157.93*	
		For Class 55 Rating, Add	*4,708.93*	
		For Class 56 Rating, Add	*6,239.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3025	EA	30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,127.59	1,518.56
		For Class 52 Rating, Deduct	*-2,400.94*	
		For Class 54 Rating, Add	*3,301.62*	
		For Class 55 Rating, Add	*4,922.58*	
		For Class 56 Rating, Add	*6,521.72*	
40 05 19 00-3026	EA	30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,090.46	1,522.13
		For Class 52 Rating, Deduct	*-2,506.26*	
		For Class 54 Rating, Add	*3,445.31*	
		For Class 55 Rating, Add	*5,136.23*	
		For Class 56 Rating, Add	*6,804.37*	
40 05 19 00-3027	EA	30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,053.34	1,525.69
		For Class 52 Rating, Deduct	*-2,611.58*	
		For Class 54 Rating, Add	*3,588.99*	
		For Class 55 Rating, Add	*5,349.87*	
		For Class 56 Rating, Add	*7,087.02*	
40 05 19 00-3028	EA	30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,016.21	1,529.26
		For Class 52 Rating, Deduct	*-2,716.91*	
		For Class 54 Rating, Add	*3,732.68*	
		For Class 55 Rating, Add	*5,563.52*	
		For Class 56 Rating, Add	*7,369.67*	
40 05 19 00-3029	EA	30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,979.10	1,532.82
		For Class 52 Rating, Deduct	*-2,822.23*	
		For Class 54 Rating, Add	*3,876.37*	
		For Class 55 Rating, Add	*5,777.17*	
		For Class 56 Rating, Add	*7,652.32*	
40 05 19 00-3030	EA	30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,941.97	1,536.38
		For Class 52 Rating, Deduct	*-2,927.55*	
		For Class 54 Rating, Add	*4,020.05*	
		For Class 55 Rating, Add	*5,990.82*	
		For Class 56 Rating, Add	*7,934.97*	
40 05 19 00-3031	EA	30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,904.86	1,539.95
		For Class 52 Rating, Deduct	*-3,032.88*	
		For Class 54 Rating, Add	*4,163.74*	
		For Class 55 Rating, Add	*6,204.47*	
		For Class 56 Rating, Add	*8,217.62*	
40 05 19 00-3032	EA	30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,867.74	1,543.51
		For Class 52 Rating, Deduct	*-3,138.20*	
		For Class 54 Rating, Add	*4,307.43*	
		For Class 55 Rating, Add	*6,418.11*	
		For Class 56 Rating, Add	*8,500.27*	
40 05 19 00-3033	EA	30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,830.62	1,547.07
		For Class 52 Rating, Deduct	*-3,243.52*	
		For Class 54 Rating, Add	*4,451.11*	
		For Class 55 Rating, Add	*6,631.76*	
		For Class 56 Rating, Add	*8,782.92*	
40 05 19 00-3034	EA	30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,793.49	1,550.65
		For Class 52 Rating, Deduct	*-3,348.84*	
		For Class 54 Rating, Add	*4,594.80*	
		For Class 55 Rating, Add	*6,845.41*	
		For Class 56 Rating, Add	*9,065.57*	
40 05 19 00-3035	EA	30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,756.37	1,554.21
		For Class 52 Rating, Deduct	*-3,454.17*	
		For Class 54 Rating, Add	*4,738.48*	
		For Class 55 Rating, Add	*7,059.05*	
		For Class 56 Rating, Add	*9,348.22*	
40 05 19 00-3036	EA	30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,719.25	1,557.77
		For Class 52 Rating, Deduct	*-3,559.49*	
		For Class 54 Rating, Add	*4,882.17*	
		For Class 55 Rating, Add	*7,272.70*	
		For Class 56 Rating, Add	*9,630.87*	
40 05 19 00-3037	EA	30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,682.14	1,561.34
		For Class 52 Rating, Deduct	*-3,664.81*	
		For Class 54 Rating, Add	*5,025.86*	
		For Class 55 Rating, Add	*7,486.35*	
		For Class 56 Rating, Add	*9,913.52*	
40 05 19 00-3038	EA	30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,645.01	1,564.90
		For Class 52 Rating, Deduct	*-3,770.13*	
		For Class 54 Rating, Add	*5,169.55*	
		For Class 55 Rating, Add	*7,700.00*	
		For Class 56 Rating, Add	*10,196.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3039	EA	30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,607.90	1,568.47
		For Class 52 Rating, Deduct	*-3,875.46*	
		For Class 54 Rating, Add	*5,313.23*	
		For Class 55 Rating, Add	*7,913.64*	
		For Class 56 Rating, Add	*10,478.82*	
40 05 19 00-3040	EA	30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,570.76	1,572.03
		For Class 52 Rating, Deduct	*-3,980.78*	
		For Class 54 Rating, Add	*5,456.92*	
		For Class 55 Rating, Add	*8,127.29*	
		For Class 56 Rating, Add	*10,761.47*	
40 05 19 00-3041	EA	30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,533.65	1,575.59
		For Class 52 Rating, Deduct	*-4,086.10*	
		For Class 54 Rating, Add	*5,600.60*	
		For Class 55 Rating, Add	*8,340.94*	
		For Class 56 Rating, Add	*11,044.12*	
40 05 19 00-3042	EA	30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,496.53	1,579.17
		For Class 52 Rating, Deduct	*-4,191.42*	
		For Class 54 Rating, Add	*5,744.29*	
		For Class 55 Rating, Add	*8,554.58*	
		For Class 56 Rating, Add	*11,326.77*	
40 05 19 00-3043	EA	30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,459.41	1,582.73
		For Class 52 Rating, Deduct	*-4,296.75*	
		For Class 54 Rating, Add	*5,887.98*	
		For Class 55 Rating, Add	*8,768.23*	
		For Class 56 Rating, Add	*11,609.43*	
40 05 19 00-3044	EA	30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,422.29	1,586.29
		For Class 52 Rating, Deduct	*-4,402.07*	
		For Class 54 Rating, Add	*6,031.66*	
		For Class 55 Rating, Add	*8,981.88*	
		For Class 56 Rating, Add	*11,892.08*	
40 05 19 00-3045	EA	30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,385.17	1,589.86
		For Class 52 Rating, Deduct	*-4,507.39*	
		For Class 54 Rating, Add	*6,175.35*	
		For Class 55 Rating, Add	*9,195.53*	
		For Class 56 Rating, Add	*12,174.73*	

40 05 19 00-3046 36" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2614)*

40 05 19 00-3047	EA	36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,727.99	1,860.77
		For Class 52 Rating, Deduct	*-1,309.95*	
		For Class 54 Rating, Add	*1,820.13*	
		For Class 55 Rating, Add	*2,723.29*	
		For Class 56 Rating, Add	*3,614.55*	
40 05 19 00-3048	EA	36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,018.42	1,864.33
		For Class 52 Rating, Deduct	*-1,451.30*	
		For Class 54 Rating, Add	*2,012.95*	
		For Class 55 Rating, Add	*3,009.98*	
		For Class 56 Rating, Add	*3,993.82*	
40 05 19 00-3049	EA	36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,308.86	1,867.91
		For Class 52 Rating, Deduct	*-1,592.66*	
		For Class 54 Rating, Add	*2,205.77*	
		For Class 55 Rating, Add	*3,296.68*	
		For Class 56 Rating, Add	*4,373.10*	
40 05 19 00-3050	EA	36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,599.31	1,871.47
		For Class 52 Rating, Deduct	*-1,734.01*	
		For Class 54 Rating, Add	*2,398.59*	
		For Class 55 Rating, Add	*3,583.37*	
		For Class 56 Rating, Add	*4,752.39*	
40 05 19 00-3051	EA	36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,889.74	1,875.03
		For Class 52 Rating, Deduct	*-1,875.37*	
		For Class 54 Rating, Add	*2,591.41*	
		For Class 55 Rating, Add	*3,870.06*	
		For Class 56 Rating, Add	*5,131.66*	
40 05 19 00-3052	EA	36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,180.18	1,878.60
		For Class 52 Rating, Deduct	*-2,016.72*	
		For Class 54 Rating, Add	*2,784.23*	
		For Class 55 Rating, Add	*4,156.75*	
		For Class 56 Rating, Add	*5,510.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3053	EA	36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,470.62	1,882.16
		For Class 52 Rating, Deduct	*-2,158.07*	
		For Class 54 Rating, Add	*2,977.05*	
		For Class 55 Rating, Add	*4,443.45*	
		For Class 56 Rating, Add	*5,890.23*	
40 05 19 00-3054	EA	36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,761.06	1,885.72
		For Class 52 Rating, Deduct	*-2,299.43*	
		For Class 54 Rating, Add	*3,169.87*	
		For Class 55 Rating, Add	*4,730.14*	
		For Class 56 Rating, Add	*6,269.51*	
40 05 19 00-3055	EA	36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,051.49	1,889.29
		For Class 52 Rating, Deduct	*-2,440.78*	
		For Class 54 Rating, Add	*3,362.69*	
		For Class 55 Rating, Add	*5,016.83*	
		For Class 56 Rating, Add	*6,648.79*	
40 05 19 00-3056	EA	36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,341.93	1,892.85
		For Class 52 Rating, Deduct	*-2,582.14*	
		For Class 54 Rating, Add	*3,555.51*	
		For Class 55 Rating, Add	*5,303.53*	
		For Class 56 Rating, Add	*7,028.07*	
40 05 19 00-3057	EA	36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,632.38	1,896.42
		For Class 52 Rating, Deduct	*-2,723.49*	
		For Class 54 Rating, Add	*3,748.33*	
		For Class 55 Rating, Add	*5,590.22*	
		For Class 56 Rating, Add	*7,407.35*	
40 05 19 00-3058	EA	36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,922.80	1,899.99
		For Class 52 Rating, Deduct	*-2,864.84*	
		For Class 54 Rating, Add	*3,941.15*	
		For Class 55 Rating, Add	*5,876.91*	
		For Class 56 Rating, Add	*7,786.63*	
40 05 19 00-3059	EA	36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,213.25	1,903.55
		For Class 52 Rating, Deduct	*-3,006.20*	
		For Class 54 Rating, Add	*4,133.97*	
		For Class 55 Rating, Add	*6,163.60*	
		For Class 56 Rating, Add	*8,165.91*	
40 05 19 00-3060	EA	36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,503.68	1,907.11
		For Class 52 Rating, Deduct	*-3,147.55*	
		For Class 54 Rating, Add	*4,326.79*	
		For Class 55 Rating, Add	*6,450.30*	
		For Class 56 Rating, Add	*8,545.19*	
40 05 19 00-3061	EA	36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,794.12	1,910.68
		For Class 52 Rating, Deduct	*-3,288.91*	
		For Class 54 Rating, Add	*4,519.61*	
		For Class 55 Rating, Add	*6,736.99*	
		For Class 56 Rating, Add	*8,924.47*	
40 05 19 00-3062	EA	36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,084.56	1,914.24
		For Class 52 Rating, Deduct	*-3,430.26*	
		For Class 54 Rating, Add	*4,712.43*	
		For Class 55 Rating, Add	*7,023.68*	
		For Class 56 Rating, Add	*9,303.75*	
40 05 19 00-3063	EA	36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,375.00	1,917.80
		For Class 52 Rating, Deduct	*-3,571.62*	
		For Class 54 Rating, Add	*4,905.25*	
		For Class 55 Rating, Add	*7,310.38*	
		For Class 56 Rating, Add	*9,683.03*	
40 05 19 00-3064	EA	36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,665.43	1,921.37
		For Class 52 Rating, Deduct	*-3,712.97*	
		For Class 54 Rating, Add	*5,098.07*	
		For Class 55 Rating, Add	*7,597.07*	
		For Class 56 Rating, Add	*10,062.31*	
40 05 19 00-3065	EA	36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,955.87	1,924.94
		For Class 52 Rating, Deduct	*-3,854.32*	
		For Class 54 Rating, Add	*5,290.89*	
		For Class 55 Rating, Add	*7,883.76*	
		For Class 56 Rating, Add	*10,441.59*	
40 05 19 00-3066	EA	36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,246.31	1,928.51
		For Class 52 Rating, Deduct	*-3,995.68*	
		For Class 54 Rating, Add	*5,483.71*	
		For Class 55 Rating, Add	*8,170.46*	
		For Class 56 Rating, Add	*10,820.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3067	EA	36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,536.75	1,932.07
		For Class 52 Rating, Deduct	*-4,137.03*	
		For Class 54 Rating, Add	*5,676.53*	
		For Class 55 Rating, Add	*8,457.15*	
		For Class 56 Rating, Add	*11,200.15*	
40 05 19 00-3068	EA	36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,827.18	1,935.63
		For Class 52 Rating, Deduct	*-4,278.39*	
		For Class 54 Rating, Add	*5,869.35*	
		For Class 55 Rating, Add	*8,743.84*	
		For Class 56 Rating, Add	*11,579.43*	
40 05 19 00-3069	EA	36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,117.63	1,939.20
		For Class 52 Rating, Deduct	*-4,419.74*	
		For Class 54 Rating, Add	*6,062.18*	
		For Class 55 Rating, Add	*9,030.53*	
		For Class 56 Rating, Add	*11,958.71*	
40 05 19 00-3070	EA	36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,408.05	1,942.76
		For Class 52 Rating, Deduct	*-4,561.09*	
		For Class 54 Rating, Add	*6,254.99*	
		For Class 55 Rating, Add	*9,317.22*	
		For Class 56 Rating, Add	*12,337.99*	
40 05 19 00-3071	EA	36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,698.50	1,946.32
		For Class 52 Rating, Deduct	*-4,702.45*	
		For Class 54 Rating, Add	*6,447.82*	
		For Class 55 Rating, Add	*9,603.92*	
		For Class 56 Rating, Add	*12,717.27*	
40 05 19 00-3072	EA	36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	46,988.93	1,949.89
		For Class 52 Rating, Deduct	*-4,843.80*	
		For Class 54 Rating, Add	*6,640.64*	
		For Class 55 Rating, Add	*9,890.61*	
		For Class 56 Rating, Add	*13,096.55*	
40 05 19 00-3073	EA	36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	48,279.37	1,953.46
		For Class 52 Rating, Deduct	*-4,985.15*	
		For Class 54 Rating, Add	*6,833.46*	
		For Class 55 Rating, Add	*10,177.30*	
		For Class 56 Rating, Add	*13,475.83*	
40 05 19 00-3074	EA	36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,569.81	1,957.02
		For Class 52 Rating, Deduct	*-5,126.51*	
		For Class 54 Rating, Add	*7,026.28*	
		For Class 55 Rating, Add	*10,464.00*	
		For Class 56 Rating, Add	*13,855.11*	
40 05 19 00-3075	EA	36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	50,860.25	1,960.59
		For Class 52 Rating, Deduct	*-5,267.86*	
		For Class 54 Rating, Add	*7,219.10*	
		For Class 55 Rating, Add	*10,750.69*	
		For Class 56 Rating, Add	*14,234.39*	
40 05 19 00-3076	EA	36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,150.69	1,964.15
		For Class 52 Rating, Deduct	*-5,409.22*	
		For Class 54 Rating, Add	*7,411.92*	
		For Class 55 Rating, Add	*11,037.38*	
		For Class 56 Rating, Add	*14,613.67*	
40 05 19 00-3077	EA	36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	53,441.12	1,967.71
		For Class 52 Rating, Deduct	*-5,550.57*	
		For Class 54 Rating, Add	*7,604.74*	
		For Class 55 Rating, Add	*11,324.08*	
		For Class 56 Rating, Add	*14,992.95*	
40 05 19 00-3078	EA	36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	54,731.57	1,971.28
		For Class 52 Rating, Deduct	*-5,691.93*	
		For Class 54 Rating, Add	*7,797.56*	
		For Class 55 Rating, Add	*11,610.77*	
		For Class 56 Rating, Add	*15,372.23*	
40 05 19 00-3079	EA	36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	56,022.01	1,974.84
		For Class 52 Rating, Deduct	*-5,833.28*	
		For Class 54 Rating, Add	*7,990.38*	
		For Class 55 Rating, Add	*11,897.46*	
		For Class 56 Rating, Add	*15,751.52*	
40 05 19 00-3080	EA	36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	57,312.44	1,978.40
		For Class 52 Rating, Deduct	*-5,974.63*	
		For Class 54 Rating, Add	*8,183.20*	
		For Class 55 Rating, Add	*12,184.15*	
		For Class 56 Rating, Add	*16,130.79*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3081	EA	36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	58,602.88	1,981.97
		For Class 52 Rating, Deduct	*-6,115.99*	
		For Class 54 Rating, Add	*8,376.02*	
		For Class 55 Rating, Add	*12,470.85*	
		For Class 56 Rating, Add	*16,510.08*	

40 05 19 00-3082 Flanged End x Plain End (FxPE), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-2073)*

40 05 19 00-3083 4" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3084	EA	4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	796.42	174.33
		For Class 52 Rating, Deduct	*-58.55*	
		For Class 54 Rating, Add	*83.01*	
		For Class 55 Rating, Add	*125.04*	
		For Class 56 Rating, Add	*166.53*	
40 05 19 00-3085	EA	4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	920.73	177.38
		For Class 52 Rating, Deduct	*-71.72*	
		For Class 54 Rating, Add	*101.02*	
		For Class 55 Rating, Add	*151.84*	
		For Class 56 Rating, Add	*202.01*	
40 05 19 00-3086	EA	4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,045.02	180.43
		For Class 52 Rating, Deduct	*-84.88*	
		For Class 54 Rating, Add	*119.03*	
		For Class 55 Rating, Add	*178.64*	
		For Class 56 Rating, Add	*237.48*	
40 05 19 00-3087	EA	4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,169.33	183.47
		For Class 52 Rating, Deduct	*-98.05*	
		For Class 54 Rating, Add	*137.04*	
		For Class 55 Rating, Add	*205.44*	
		For Class 56 Rating, Add	*272.95*	
40 05 19 00-3088	EA	4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,293.63	186.52
		For Class 52 Rating, Deduct	*-111.21*	
		For Class 54 Rating, Add	*155.04*	
		For Class 55 Rating, Add	*232.24*	
		For Class 56 Rating, Add	*308.42*	
40 05 19 00-3089	EA	4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,417.94	189.58
		For Class 52 Rating, Deduct	*-124.38*	
		For Class 54 Rating, Add	*173.05*	
		For Class 55 Rating, Add	*259.04*	
		For Class 56 Rating, Add	*343.90*	
40 05 19 00-3090	EA	4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,542.24	192.63
		For Class 52 Rating, Deduct	*-137.54*	
		For Class 54 Rating, Add	*191.06*	
		For Class 55 Rating, Add	*285.84*	
		For Class 56 Rating, Add	*379.37*	
40 05 19 00-3091	EA	4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,666.54	195.67
		For Class 52 Rating, Deduct	*-150.71*	
		For Class 54 Rating, Add	*209.07*	
		For Class 55 Rating, Add	*312.64*	
		For Class 56 Rating, Add	*414.85*	
40 05 19 00-3092	EA	4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,790.84	198.72
		For Class 52 Rating, Deduct	*-163.87*	
		For Class 54 Rating, Add	*227.08*	
		For Class 55 Rating, Add	*339.44*	
		For Class 56 Rating, Add	*450.32*	
40 05 19 00-3093	EA	4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,915.15	201.77
		For Class 52 Rating, Deduct	*-177.04*	
		For Class 54 Rating, Add	*245.09*	
		For Class 55 Rating, Add	*366.24*	
		For Class 56 Rating, Add	*485.79*	
40 05 19 00-3094	EA	4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,039.45	204.81
		For Class 52 Rating, Deduct	*-190.20*	
		For Class 54 Rating, Add	*263.09*	
		For Class 55 Rating, Add	*393.04*	
		For Class 56 Rating, Add	*521.26*	
40 05 19 00-3095	EA	4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,163.76	207.86
		For Class 52 Rating, Deduct	*-203.37*	
		For Class 54 Rating, Add	*281.10*	
		For Class 55 Rating, Add	*419.85*	
		For Class 56 Rating, Add	*556.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3096	EA	4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,288.05	210.91
		For Class 52 Rating, Deduct	*-216.54*	
		For Class 54 Rating, Add	*299.11*	
		For Class 55 Rating, Add	*446.64*	
		For Class 56 Rating, Add	*592.21*	
40 05 19 00-3097	EA	4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,412.35	213.97
		For Class 52 Rating, Deduct	*-229.70*	
		For Class 54 Rating, Add	*317.12*	
		For Class 55 Rating, Add	*473.44*	
		For Class 56 Rating, Add	*627.68*	
40 05 19 00-3098	EA	4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,536.66	217.00
		For Class 52 Rating, Deduct	*-242.87*	
		For Class 54 Rating, Add	*335.13*	
		For Class 55 Rating, Add	*500.25*	
		For Class 56 Rating, Add	*663.16*	
40 05 19 00-3099	EA	4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,660.96	220.05
		For Class 52 Rating, Deduct	*-256.03*	
		For Class 54 Rating, Add	*353.13*	
		For Class 55 Rating, Add	*527.05*	
		For Class 56 Rating, Add	*698.63*	
40 05 19 00-3100	EA	4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,785.26	223.10
		For Class 52 Rating, Deduct	*-269.20*	
		For Class 54 Rating, Add	*371.14*	
		For Class 55 Rating, Add	*553.85*	
		For Class 56 Rating, Add	*734.10*	
40 05 19 00-3101	EA	4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,909.57	226.14
		For Class 52 Rating, Deduct	*-282.36*	
		For Class 54 Rating, Add	*389.15*	
		For Class 55 Rating, Add	*580.65*	
		For Class 56 Rating, Add	*769.58*	
40 05 19 00-3102	EA	4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,033.87	229.19
		For Class 52 Rating, Deduct	*-295.53*	
		For Class 54 Rating, Add	*407.16*	
		For Class 55 Rating, Add	*607.45*	
		For Class 56 Rating, Add	*805.05*	
40 05 19 00-3103	EA	4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,158.17	232.24
		For Class 52 Rating, Deduct	*-308.69*	
		For Class 54 Rating, Add	*425.17*	
		For Class 55 Rating, Add	*634.25*	
		For Class 56 Rating, Add	*840.52*	
40 05 19 00-3104	EA	4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,282.48	235.30
		For Class 52 Rating, Deduct	*-321.86*	
		For Class 54 Rating, Add	*443.18*	
		For Class 55 Rating, Add	*661.05*	
		For Class 56 Rating, Add	*876.00*	
40 05 19 00-3105	EA	4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,406.77	238.34
		For Class 52 Rating, Deduct	*-335.02*	
		For Class 54 Rating, Add	*461.18*	
		For Class 55 Rating, Add	*687.85*	
		For Class 56 Rating, Add	*911.47*	
40 05 19 00-3106	EA	4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,531.09	241.39
		For Class 52 Rating, Deduct	*-348.19*	
		For Class 54 Rating, Add	*479.19*	
		For Class 55 Rating, Add	*714.65*	
		For Class 56 Rating, Add	*946.94*	
40 05 19 00-3107	EA	4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,655.38	244.44
		For Class 52 Rating, Deduct	*-361.35*	
		For Class 54 Rating, Add	*497.20*	
		For Class 55 Rating, Add	*741.45*	
		For Class 56 Rating, Add	*982.42*	
40 05 19 00-3108	EA	4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,088.34	247.48
		For Class 52 Rating, Deduct	*-408.47*	
		For Class 54 Rating, Add	*561.51*	
		For Class 55 Rating, Add	*837.08*	
		For Class 56 Rating, Add	*1,108.95*	
40 05 19 00-3109	EA	4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,212.65	250.53
		For Class 52 Rating, Deduct	*-421.64*	
		For Class 54 Rating, Add	*579.51*	
		For Class 55 Rating, Add	*863.88*	
		For Class 56 Rating, Add	*1,144.42*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3110	EA	4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,336.95	253.58
		For Class 52 Rating, Deduct	*-434.80*	
		For Class 54 Rating, Add	*597.52*	
		For Class 55 Rating, Add	*890.68*	
		For Class 56 Rating, Add	*1,179.89*	
40 05 19 00-3111	EA	4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,461.26	256.63
		For Class 52 Rating, Deduct	*-447.97*	
		For Class 54 Rating, Add	*615.53*	
		For Class 55 Rating, Add	*917.48*	
		For Class 56 Rating, Add	*1,215.36*	
40 05 19 00-3112	EA	4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,585.56	259.66
		For Class 52 Rating, Deduct	*-461.13*	
		For Class 54 Rating, Add	*633.54*	
		For Class 55 Rating, Add	*944.29*	
		For Class 56 Rating, Add	*1,250.84*	
40 05 19 00-3113	EA	4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,709.85	262.72
		For Class 52 Rating, Deduct	*-474.30*	
		For Class 54 Rating, Add	*651.55*	
		For Class 55 Rating, Add	*971.08*	
		For Class 56 Rating, Add	*1,286.31*	
40 05 19 00-3114	EA	4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,834.17	265.77
		For Class 52 Rating, Deduct	*-487.46*	
		For Class 54 Rating, Add	*669.56*	
		For Class 55 Rating, Add	*997.89*	
		For Class 56 Rating, Add	*1,321.79*	
40 05 19 00-3115	EA	4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,958.46	268.82
		For Class 52 Rating, Deduct	*-500.63*	
		For Class 54 Rating, Add	*687.56*	
		For Class 55 Rating, Add	*1,024.69*	
		For Class 56 Rating, Add	*1,357.26*	
40 05 19 00-3116	EA	4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,082.78	271.86
		For Class 52 Rating, Deduct	*-513.79*	
		For Class 54 Rating, Add	*705.57*	
		For Class 55 Rating, Add	*1,051.49*	
		For Class 56 Rating, Add	*1,392.73*	
40 05 19 00-3117	EA	4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,207.07	274.91
		For Class 52 Rating, Deduct	*-526.96*	
		For Class 54 Rating, Add	*723.58*	
		For Class 55 Rating, Add	*1,078.29*	
		For Class 56 Rating, Add	*1,428.20*	
40 05 19 00-3118	EA	4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,331.37	277.96
		For Class 52 Rating, Deduct	*-540.13*	
		For Class 54 Rating, Add	*741.59*	
		For Class 55 Rating, Add	*1,105.09*	
		For Class 56 Rating, Add	*1,463.68*	
40 05 19 00-3119	EA	4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,455.68	281.00
		For Class 52 Rating, Deduct	*-553.29*	
		For Class 54 Rating, Add	*759.60*	
		For Class 55 Rating, Add	*1,131.89*	
		For Class 56 Rating, Add	*1,499.15*	
40 05 19 00-3120	EA	4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,579.98	284.06
		For Class 52 Rating, Deduct	*-566.46*	
		For Class 54 Rating, Add	*777.60*	
		For Class 55 Rating, Add	*1,158.69*	
		For Class 56 Rating, Add	*1,534.63*	
40 05 19 00-3121	EA	4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,704.28	287.11
		For Class 52 Rating, Deduct	*-579.62*	
		For Class 54 Rating, Add	*795.61*	
		For Class 55 Rating, Add	*1,185.49*	
		For Class 56 Rating, Add	*1,570.10*	
40 05 19 00-3122	EA	4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,828.59	290.16
		For Class 52 Rating, Deduct	*-592.79*	
		For Class 54 Rating, Add	*813.62*	
		For Class 55 Rating, Add	*1,212.29*	
		For Class 56 Rating, Add	*1,605.57*	

40 05 19 00-3123 6" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3124	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	978.15	219.44
		For Class 52 Rating, Deduct	*-71.02*	
		For Class 54 Rating, Add	*100.84*	
		For Class 55 Rating, Add	*151.96*	
		For Class 56 Rating, Add	*202.44*	
40 05 19 00-3125	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,121.36	222.50
		For Class 52 Rating, Deduct	*-86.27*	
		For Class 54 Rating, Add	*121.68*	
		For Class 55 Rating, Add	*182.98*	
		For Class 56 Rating, Add	*243.49*	
40 05 19 00-3126	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,264.55	225.54
		For Class 52 Rating, Deduct	*-101.51*	
		For Class 54 Rating, Add	*142.53*	
		For Class 55 Rating, Add	*213.99*	
		For Class 56 Rating, Add	*284.54*	
40 05 19 00-3127	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,407.77	228.59
		For Class 52 Rating, Deduct	*-116.76*	
		For Class 54 Rating, Add	*163.37*	
		For Class 55 Rating, Add	*245.01*	
		For Class 56 Rating, Add	*325.59*	
40 05 19 00-3128	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,550.96	231.64
		For Class 52 Rating, Deduct	*-132.00*	
		For Class 54 Rating, Add	*184.21*	
		For Class 55 Rating, Add	*276.02*	
		For Class 56 Rating, Add	*366.63*	
40 05 19 00-3129	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,694.16	234.68
		For Class 52 Rating, Deduct	*-147.24*	
		For Class 54 Rating, Add	*205.05*	
		For Class 55 Rating, Add	*307.04*	
		For Class 56 Rating, Add	*407.68*	
40 05 19 00-3130	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,837.36	237.73
		For Class 52 Rating, Deduct	*-162.49*	
		For Class 54 Rating, Add	*225.90*	
		For Class 55 Rating, Add	*338.05*	
		For Class 56 Rating, Add	*448.73*	
40 05 19 00-3131	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,980.55	240.78
		For Class 52 Rating, Deduct	*-177.73*	
		For Class 54 Rating, Add	*246.74*	
		For Class 55 Rating, Add	*369.07*	
		For Class 56 Rating, Add	*489.78*	
40 05 19 00-3132	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,123.76	243.84
		For Class 52 Rating, Deduct	*-192.98*	
		For Class 54 Rating, Add	*267.58*	
		For Class 55 Rating, Add	*400.08*	
		For Class 56 Rating, Add	*530.83*	
40 05 19 00-3133	EA	6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,266.96	246.86
		For Class 52 Rating, Deduct	*-208.22*	
		For Class 54 Rating, Add	*288.43*	
		For Class 55 Rating, Add	*431.10*	
		For Class 56 Rating, Add	*571.87*	
40 05 19 00-3134	EA	6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,410.16	249.92
		For Class 52 Rating, Deduct	*-223.46*	
		For Class 54 Rating, Add	*309.27*	
		For Class 55 Rating, Add	*462.11*	
		For Class 56 Rating, Add	*612.92*	
40 05 19 00-3135	EA	6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,553.36	252.97
		For Class 52 Rating, Deduct	*-238.71*	
		For Class 54 Rating, Add	*330.11*	
		For Class 55 Rating, Add	*493.12*	
		For Class 56 Rating, Add	*653.97*	
40 05 19 00-3136	EA	6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,696.56	256.01
		For Class 52 Rating, Deduct	*-253.95*	
		For Class 54 Rating, Add	*350.95*	
		For Class 55 Rating, Add	*524.14*	
		For Class 56 Rating, Add	*695.02*	
40 05 19 00-3137	EA	6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,839.76	259.06
		For Class 52 Rating, Deduct	*-269.20*	
		For Class 54 Rating, Add	*371.80*	
		For Class 55 Rating, Add	*555.16*	
		For Class 56 Rating, Add	*736.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3138	EA	6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,982.96	262.11
		For Class 52 Rating, Deduct	*-284.44*	
		For Class 54 Rating, Add	*392.64*	
		For Class 55 Rating, Add	*586.17*	
		For Class 56 Rating, Add	*777.11*	
40 05 19 00-3139	EA	6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,126.16	265.16
		For Class 52 Rating, Deduct	*-299.68*	
		For Class 54 Rating, Add	*413.48*	
		For Class 55 Rating, Add	*617.18*	
		For Class 56 Rating, Add	*818.16*	
40 05 19 00-3140	EA	6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,269.37	268.20
		For Class 52 Rating, Deduct	*-314.93*	
		For Class 54 Rating, Add	*434.33*	
		For Class 55 Rating, Add	*648.20*	
		For Class 56 Rating, Add	*859.21*	
40 05 19 00-3141	EA	6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,412.56	271.26
		For Class 52 Rating, Deduct	*-330.17*	
		For Class 54 Rating, Add	*455.17*	
		For Class 55 Rating, Add	*679.21*	
		For Class 56 Rating, Add	*900.26*	
40 05 19 00-3142	EA	6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,555.76	274.31
		For Class 52 Rating, Deduct	*-345.42*	
		For Class 54 Rating, Add	*476.01*	
		For Class 55 Rating, Add	*710.23*	
		For Class 56 Rating, Add	*941.31*	
40 05 19 00-3143	EA	6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,698.96	277.36
		For Class 52 Rating, Deduct	*-360.66*	
		For Class 54 Rating, Add	*496.85*	
		For Class 55 Rating, Add	*741.24*	
		For Class 56 Rating, Add	*982.35*	
40 05 19 00-3144	EA	6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,842.17	280.40
		For Class 52 Rating, Deduct	*-375.91*	
		For Class 54 Rating, Add	*517.70*	
		For Class 55 Rating, Add	*772.26*	
		For Class 56 Rating, Add	*1,023.40*	
40 05 19 00-3145	EA	6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,985.36	283.45
		For Class 52 Rating, Deduct	*-391.15*	
		For Class 54 Rating, Add	*538.54*	
		For Class 55 Rating, Add	*803.27*	
		For Class 56 Rating, Add	*1,064.45*	
40 05 19 00-3146	EA	6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,128.56	286.50
		For Class 52 Rating, Deduct	*-406.39*	
		For Class 54 Rating, Add	*559.38*	
		For Class 55 Rating, Add	*834.29*	
		For Class 56 Rating, Add	*1,105.50*	
40 05 19 00-3147	EA	6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,271.76	289.53
		For Class 52 Rating, Deduct	*-421.64*	
		For Class 54 Rating, Add	*580.22*	
		For Class 55 Rating, Add	*865.30*	
		For Class 56 Rating, Add	*1,146.55*	
40 05 19 00-3148	EA	6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,414.97	292.58
		For Class 52 Rating, Deduct	*-436.88*	
		For Class 54 Rating, Add	*601.07*	
		For Class 55 Rating, Add	*896.32*	
		For Class 56 Rating, Add	*1,187.60*	
40 05 19 00-3149	EA	6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,558.17	295.64
		For Class 52 Rating, Deduct	*-452.13*	
		For Class 54 Rating, Add	*621.91*	
		For Class 55 Rating, Add	*927.33*	
		For Class 56 Rating, Add	*1,228.64*	
40 05 19 00-3150	EA	6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,701.36	298.69
		For Class 52 Rating, Deduct	*-467.37*	
		For Class 54 Rating, Add	*642.75*	
		For Class 55 Rating, Add	*958.35*	
		For Class 56 Rating, Add	*1,269.69*	
40 05 19 00-3151	EA	6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,844.57	301.73
		For Class 52 Rating, Deduct	*-482.61*	
		For Class 54 Rating, Add	*663.59*	
		For Class 55 Rating, Add	*989.36*	
		For Class 56 Rating, Add	*1,310.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3152	EA	6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,987.77	304.78
		For Class 52 Rating, Deduct	*-497.86*	
		For Class 54 Rating, Add	*684.44*	
		For Class 55 Rating, Add	*1,020.38*	
		For Class 56 Rating, Add	*1,351.79*	
40 05 19 00-3153	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,130.96	307.83
		For Class 52 Rating, Deduct	*-513.10*	
		For Class 54 Rating, Add	*705.28*	
		For Class 55 Rating, Add	*1,051.39*	
		For Class 56 Rating, Add	*1,392.84*	
40 05 19 00-3154	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,274.17	310.87
		For Class 52 Rating, Deduct	*-528.35*	
		For Class 54 Rating, Add	*726.12*	
		For Class 55 Rating, Add	*1,082.40*	
		For Class 56 Rating, Add	*1,433.88*	
40 05 19 00-3155	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,417.36	313.92
		For Class 52 Rating, Deduct	*-543.59*	
		For Class 54 Rating, Add	*746.97*	
		For Class 55 Rating, Add	*1,113.42*	
		For Class 56 Rating, Add	*1,474.93*	
40 05 19 00-3156	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,560.57	316.98
		For Class 52 Rating, Deduct	*-558.83*	
		For Class 54 Rating, Add	*767.81*	
		For Class 55 Rating, Add	*1,144.43*	
		For Class 56 Rating, Add	*1,515.98*	
40 05 19 00-3157	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,703.77	320.03
		For Class 52 Rating, Deduct	*-574.08*	
		For Class 54 Rating, Add	*788.65*	
		For Class 55 Rating, Add	*1,175.45*	
		For Class 56 Rating, Add	*1,557.03*	
40 05 19 00-3158	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,846.96	323.07
		For Class 52 Rating, Deduct	*-589.32*	
		For Class 54 Rating, Add	*809.49*	
		For Class 55 Rating, Add	*1,206.46*	
		For Class 56 Rating, Add	*1,598.08*	
40 05 19 00-3159	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,990.17	326.12
		For Class 52 Rating, Deduct	*-604.57*	
		For Class 54 Rating, Add	*830.34*	
		For Class 55 Rating, Add	*1,237.48*	
		For Class 56 Rating, Add	*1,639.12*	
40 05 19 00-3160	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,133.36	329.17
		For Class 52 Rating, Deduct	*-619.81*	
		For Class 54 Rating, Add	*851.18*	
		For Class 55 Rating, Add	*1,268.49*	
		For Class 56 Rating, Add	*1,680.17*	
40 05 19 00-3161	EA	6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,276.58	332.20
		For Class 52 Rating, Deduct	*-635.05*	
		For Class 54 Rating, Add	*872.02*	
		For Class 55 Rating, Add	*1,299.51*	
		For Class 56 Rating, Add	*1,721.22*	
40 05 19 00-3162	EA	6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,419.77	335.25
		For Class 52 Rating, Deduct	*-650.30*	
		For Class 54 Rating, Add	*892.87*	
		For Class 55 Rating, Add	*1,330.52*	
		For Class 56 Rating, Add	*1,762.27*	

40 05 19 00-3163 8" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3164	EA	8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,335.08	280.40
		For Class 52 Rating, Deduct	*-100.13*	
		For Class 54 Rating, Add	*141.63*	
		For Class 55 Rating, Add	*213.18*	
		For Class 56 Rating, Add	*283.81*	
40 05 19 00-3165	EA	8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,519.22	283.45
		For Class 52 Rating, Deduct	*-119.87*	
		For Class 54 Rating, Add	*168.62*	
		For Class 55 Rating, Add	*253.32*	
		For Class 56 Rating, Add	*336.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3166	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,703.37	286.50
		For Class 52 Rating, Deduct	*-139.62*	
		For Class 54 Rating, Add	*195.60*	
		For Class 55 Rating, Add	*293.47*	
		For Class 56 Rating, Add	*390.07*	
40 05 19 00-3167	EA	8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,887.52	289.53
		For Class 52 Rating, Deduct	*-159.37*	
		For Class 54 Rating, Add	*222.59*	
		For Class 55 Rating, Add	*333.62*	
		For Class 56 Rating, Add	*443.20*	
40 05 19 00-3168	EA	8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,071.66	292.58
		For Class 52 Rating, Deduct	*-179.12*	
		For Class 54 Rating, Add	*249.57*	
		For Class 55 Rating, Add	*373.76*	
		For Class 56 Rating, Add	*496.32*	
40 05 19 00-3169	EA	8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,255.81	295.64
		For Class 52 Rating, Deduct	*-198.87*	
		For Class 54 Rating, Add	*276.56*	
		For Class 55 Rating, Add	*413.91*	
		For Class 56 Rating, Add	*549.45*	
40 05 19 00-3170	EA	8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,439.95	298.69
		For Class 52 Rating, Deduct	*-218.61*	
		For Class 54 Rating, Add	*303.54*	
		For Class 55 Rating, Add	*454.05*	
		For Class 56 Rating, Add	*602.57*	
40 05 19 00-3171	EA	8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,624.10	301.73
		For Class 52 Rating, Deduct	*-238.36*	
		For Class 54 Rating, Add	*330.52*	
		For Class 55 Rating, Add	*494.20*	
		For Class 56 Rating, Add	*655.70*	
40 05 19 00-3172	EA	8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,808.24	304.78
		For Class 52 Rating, Deduct	*-258.11*	
		For Class 54 Rating, Add	*357.51*	
		For Class 55 Rating, Add	*534.34*	
		For Class 56 Rating, Add	*708.83*	
40 05 19 00-3173	EA	8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,992.38	307.83
		For Class 52 Rating, Deduct	*-277.86*	
		For Class 54 Rating, Add	*384.49*	
		For Class 55 Rating, Add	*574.49*	
		For Class 56 Rating, Add	*761.95*	
40 05 19 00-3174	EA	8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,176.54	310.87
		For Class 52 Rating, Deduct	*-297.61*	
		For Class 54 Rating, Add	*411.48*	
		For Class 55 Rating, Add	*614.63*	
		For Class 56 Rating, Add	*815.08*	
40 05 19 00-3175	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,360.67	313.92
		For Class 52 Rating, Deduct	*-317.35*	
		For Class 54 Rating, Add	*438.46*	
		For Class 55 Rating, Add	*654.78*	
		For Class 56 Rating, Add	*868.21*	
40 05 19 00-3176	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,544.83	316.98
		For Class 52 Rating, Deduct	*-337.10*	
		For Class 54 Rating, Add	*465.45*	
		For Class 55 Rating, Add	*694.92*	
		For Class 56 Rating, Add	*921.33*	
40 05 19 00-3177	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,728.97	320.03
		For Class 52 Rating, Deduct	*-356.85*	
		For Class 54 Rating, Add	*492.43*	
		For Class 55 Rating, Add	*735.07*	
		For Class 56 Rating, Add	*974.46*	
40 05 19 00-3178	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,913.11	323.07
		For Class 52 Rating, Deduct	*-376.60*	
		For Class 54 Rating, Add	*519.42*	
		For Class 55 Rating, Add	*775.22*	
		For Class 56 Rating, Add	*1,027.59*	
40 05 19 00-3179	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,097.26	326.12
		For Class 52 Rating, Deduct	*-396.35*	
		For Class 54 Rating, Add	*546.40*	
		For Class 55 Rating, Add	*815.36*	
		For Class 56 Rating, Add	*1,080.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3180	EA	8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,281.40	329.17
		For Class 52 Rating, Deduct	*-416.09*	
		For Class 54 Rating, Add	*573.39*	
		For Class 55 Rating, Add	*855.50*	
		For Class 56 Rating, Add	*1,133.84*	
40 05 19 00-3181	EA	8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,465.56	332.20
		For Class 52 Rating, Deduct	*-435.84*	
		For Class 54 Rating, Add	*600.37*	
		For Class 55 Rating, Add	*895.65*	
		For Class 56 Rating, Add	*1,186.97*	
40 05 19 00-3182	EA	8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,649.69	335.25
		For Class 52 Rating, Deduct	*-455.59*	
		For Class 54 Rating, Add	*627.35*	
		For Class 55 Rating, Add	*935.79*	
		For Class 56 Rating, Add	*1,240.09*	
40 05 19 00-3183	EA	8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,833.83	338.30
		For Class 52 Rating, Deduct	*-475.34*	
		For Class 54 Rating, Add	*654.34*	
		For Class 55 Rating, Add	*975.94*	
		For Class 56 Rating, Add	*1,293.22*	
40 05 19 00-3184	EA	8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,017.99	341.36
		For Class 52 Rating, Deduct	*-495.09*	
		For Class 54 Rating, Add	*681.32*	
		For Class 55 Rating, Add	*1,016.09*	
		For Class 56 Rating, Add	*1,346.35*	
40 05 19 00-3185	EA	8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,202.13	344.40
		For Class 52 Rating, Deduct	*-514.83*	
		For Class 54 Rating, Add	*708.31*	
		For Class 55 Rating, Add	*1,056.23*	
		For Class 56 Rating, Add	*1,399.48*	
40 05 19 00-3186	EA	8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,386.27	347.45
		For Class 52 Rating, Deduct	*-534.58*	
		For Class 54 Rating, Add	*735.29*	
		For Class 55 Rating, Add	*1,096.38*	
		For Class 56 Rating, Add	*1,452.60*	
40 05 19 00-3187	EA	8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,570.42	350.50
		For Class 52 Rating, Deduct	*-554.33*	
		For Class 54 Rating, Add	*762.28*	
		For Class 55 Rating, Add	*1,136.52*	
		For Class 56 Rating, Add	*1,505.73*	
40 05 19 00-3188	EA	8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,754.57	353.55
		For Class 52 Rating, Deduct	*-574.08*	
		For Class 54 Rating, Add	*789.26*	
		For Class 55 Rating, Add	*1,176.67*	
		For Class 56 Rating, Add	*1,558.86*	
40 05 19 00-3189	EA	8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,938.71	356.59
		For Class 52 Rating, Deduct	*-593.83*	
		For Class 54 Rating, Add	*816.25*	
		For Class 55 Rating, Add	*1,216.81*	
		For Class 56 Rating, Add	*1,611.98*	
40 05 19 00-3190	EA	8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,122.85	359.64
		For Class 52 Rating, Deduct	*-613.57*	
		For Class 54 Rating, Add	*843.23*	
		For Class 55 Rating, Add	*1,256.96*	
		For Class 56 Rating, Add	*1,665.11*	
40 05 19 00-3191	EA	8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,307.00	362.70
		For Class 52 Rating, Deduct	*-633.32*	
		For Class 54 Rating, Add	*870.21*	
		For Class 55 Rating, Add	*1,297.10*	
		For Class 56 Rating, Add	*1,718.24*	
40 05 19 00-3192	EA	8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,491.15	365.74
		For Class 52 Rating, Deduct	*-653.07*	
		For Class 54 Rating, Add	*897.20*	
		For Class 55 Rating, Add	*1,337.25*	
		For Class 56 Rating, Add	*1,771.36*	
40 05 19 00-3193	EA	8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,675.29	368.79
		For Class 52 Rating, Deduct	*-672.82*	
		For Class 54 Rating, Add	*924.18*	
		For Class 55 Rating, Add	*1,377.39*	
		For Class 56 Rating, Add	*1,824.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3194	EA	8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,859.43	371.84
		For Class 52 Rating, Deduct	*-692.57*	
		For Class 54 Rating, Add	*951.17*	
		For Class 55 Rating, Add	*1,417.54*	
		For Class 56 Rating, Add	*1,877.62*	
40 05 19 00-3195	EA	8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,043.58	374.89
		For Class 52 Rating, Deduct	*-712.31*	
		For Class 54 Rating, Add	*978.15*	
		For Class 55 Rating, Add	*1,457.69*	
		For Class 56 Rating, Add	*1,930.74*	
40 05 19 00-3196	EA	8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,227.72	377.92
		For Class 52 Rating, Deduct	*-732.06*	
		For Class 54 Rating, Add	*1,005.14*	
		For Class 55 Rating, Add	*1,497.83*	
		For Class 56 Rating, Add	*1,983.87*	
40 05 19 00-3197	EA	8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,411.87	380.97
		For Class 52 Rating, Deduct	*-751.81*	
		For Class 54 Rating, Add	*1,032.12*	
		For Class 55 Rating, Add	*1,537.98*	
		For Class 56 Rating, Add	*2,037.00*	
40 05 19 00-3198	EA	8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,596.02	384.02
		For Class 52 Rating, Deduct	*-771.56*	
		For Class 54 Rating, Add	*1,059.11*	
		For Class 55 Rating, Add	*1,578.12*	
		For Class 56 Rating, Add	*2,090.12*	
40 05 19 00-3199	EA	8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,780.16	387.06
		For Class 52 Rating, Deduct	*-791.31*	
		For Class 54 Rating, Add	*1,086.09*	
		For Class 55 Rating, Add	*1,618.27*	
		For Class 56 Rating, Add	*2,143.25*	
40 05 19 00-3200	EA	8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,964.30	390.12
		For Class 52 Rating, Deduct	*-811.05*	
		For Class 54 Rating, Add	*1,113.07*	
		For Class 55 Rating, Add	*1,658.41*	
		For Class 56 Rating, Add	*2,196.38*	
40 05 19 00-3201	EA	8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,148.45	393.17
		For Class 52 Rating, Deduct	*-830.80*	
		For Class 54 Rating, Add	*1,140.06*	
		For Class 55 Rating, Add	*1,698.56*	
		For Class 56 Rating, Add	*2,249.50*	
40 05 19 00-3202	EA	8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,332.60	396.22
		For Class 52 Rating, Deduct	*-850.55*	
		For Class 54 Rating, Add	*1,167.04*	
		For Class 55 Rating, Add	*1,738.70*	
		For Class 56 Rating, Add	*2,302.63*	

40 05 19 00-3203 10" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3204	EA	10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,685.71	341.36
		For Class 52 Rating, Deduct	*-128.54*	
		For Class 54 Rating, Add	*181.48*	
		For Class 55 Rating, Add	*272.99*	
		For Class 56 Rating, Add	*363.33*	
40 05 19 00-3205	EA	10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,923.39	344.40
		For Class 52 Rating, Deduct	*-154.17*	
		For Class 54 Rating, Add	*216.50*	
		For Class 55 Rating, Add	*325.07*	
		For Class 56 Rating, Add	*432.25*	
40 05 19 00-3206	EA	10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,161.08	347.45
		For Class 52 Rating, Deduct	*-179.81*	
		For Class 54 Rating, Add	*251.51*	
		For Class 55 Rating, Add	*377.16*	
		For Class 56 Rating, Add	*501.17*	
40 05 19 00-3207	EA	10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,398.77	350.50
		For Class 52 Rating, Deduct	*-205.45*	
		For Class 54 Rating, Add	*286.53*	
		For Class 55 Rating, Add	*429.24*	
		For Class 56 Rating, Add	*570.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3208	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,636.46	353.55
		For Class 52 Rating, Deduct	*-231.09*	
		For Class 54 Rating, Add	*321.55*	
		For Class 55 Rating, Add	*481.33*	
		For Class 56 Rating, Add	*639.01*	
40 05 19 00-3209	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,874.15	356.59
		For Class 52 Rating, Deduct	*-256.72*	
		For Class 54 Rating, Add	*356.56*	
		For Class 55 Rating, Add	*533.42*	
		For Class 56 Rating, Add	*707.94*	
40 05 19 00-3210	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,111.83	359.64
		For Class 52 Rating, Deduct	*-282.36*	
		For Class 54 Rating, Add	*391.58*	
		For Class 55 Rating, Add	*585.50*	
		For Class 56 Rating, Add	*776.86*	
40 05 19 00-3211	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,349.52	362.70
		For Class 52 Rating, Deduct	*-308.00*	
		For Class 54 Rating, Add	*426.59*	
		For Class 55 Rating, Add	*637.59*	
		For Class 56 Rating, Add	*845.78*	
40 05 19 00-3212	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,587.21	365.74
		For Class 52 Rating, Deduct	*-333.64*	
		For Class 54 Rating, Add	*461.61*	
		For Class 55 Rating, Add	*689.67*	
		For Class 56 Rating, Add	*914.70*	
40 05 19 00-3213	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,824.91	368.79
		For Class 52 Rating, Deduct	*-359.28*	
		For Class 54 Rating, Add	*496.63*	
		For Class 55 Rating, Add	*741.76*	
		For Class 56 Rating, Add	*983.63*	
40 05 19 00-3214	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,062.59	371.84
		For Class 52 Rating, Deduct	*-384.91*	
		For Class 54 Rating, Add	*531.64*	
		For Class 55 Rating, Add	*793.84*	
		For Class 56 Rating, Add	*1,052.55*	
40 05 19 00-3215	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,300.28	374.89
		For Class 52 Rating, Deduct	*-410.55*	
		For Class 54 Rating, Add	*566.66*	
		For Class 55 Rating, Add	*845.93*	
		For Class 56 Rating, Add	*1,121.47*	
40 05 19 00-3216	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,537.97	377.92
		For Class 52 Rating, Deduct	*-436.19*	
		For Class 54 Rating, Add	*601.67*	
		For Class 55 Rating, Add	*898.02*	
		For Class 56 Rating, Add	*1,190.39*	
40 05 19 00-3217	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,775.66	380.97
		For Class 52 Rating, Deduct	*-461.83*	
		For Class 54 Rating, Add	*636.69*	
		For Class 55 Rating, Add	*950.10*	
		For Class 56 Rating, Add	*1,259.31*	
40 05 19 00-3218	EA	10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,013.35	384.02
		For Class 52 Rating, Deduct	*-487.46*	
		For Class 54 Rating, Add	*671.71*	
		For Class 55 Rating, Add	*1,002.19*	
		For Class 56 Rating, Add	*1,328.24*	
40 05 19 00-3219	EA	10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,251.03	387.06
		For Class 52 Rating, Deduct	*-513.10*	
		For Class 54 Rating, Add	*706.72*	
		For Class 55 Rating, Add	*1,054.27*	
		For Class 56 Rating, Add	*1,397.16*	
40 05 19 00-3220	EA	10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,488.72	390.12
		For Class 52 Rating, Deduct	*-538.74*	
		For Class 54 Rating, Add	*741.74*	
		For Class 55 Rating, Add	*1,106.36*	
		For Class 56 Rating, Add	*1,466.08*	
40 05 19 00-3221	EA	10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,726.41	393.17
		For Class 52 Rating, Deduct	*-564.38*	
		For Class 54 Rating, Add	*776.75*	
		For Class 55 Rating, Add	*1,158.44*	
		For Class 56 Rating, Add	*1,535.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3222	EA	10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,964.10	396.22
		For Class 52 Rating, Deduct	*-590.01*	
		For Class 54 Rating, Add	*811.77*	
		For Class 55 Rating, Add	*1,210.53*	
		For Class 56 Rating, Add	*1,603.92*	
40 05 19 00-3223	EA	10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,201.79	399.26
		For Class 52 Rating, Deduct	*-615.65*	
		For Class 54 Rating, Add	*846.79*	
		For Class 55 Rating, Add	*1,262.61*	
		For Class 56 Rating, Add	*1,672.85*	
40 05 19 00-3224	EA	10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,439.47	402.31
		For Class 52 Rating, Deduct	*-641.29*	
		For Class 54 Rating, Add	*881.80*	
		For Class 55 Rating, Add	*1,314.70*	
		For Class 56 Rating, Add	*1,741.77*	
40 05 19 00-3225	EA	10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,677.16	405.36
		For Class 52 Rating, Deduct	*-666.93*	
		For Class 54 Rating, Add	*916.82*	
		For Class 55 Rating, Add	*1,366.78*	
		For Class 56 Rating, Add	*1,810.69*	
40 05 19 00-3226	EA	10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,914.85	408.40
		For Class 52 Rating, Deduct	*-692.57*	
		For Class 54 Rating, Add	*951.83*	
		For Class 55 Rating, Add	*1,418.87*	
		For Class 56 Rating, Add	*1,879.61*	
40 05 19 00-3227	EA	10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,152.53	411.46
		For Class 52 Rating, Deduct	*-718.20*	
		For Class 54 Rating, Add	*986.85*	
		For Class 55 Rating, Add	*1,470.96*	
		For Class 56 Rating, Add	*1,948.53*	
40 05 19 00-3228	EA	10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,390.23	414.51
		For Class 52 Rating, Deduct	*-743.84*	
		For Class 54 Rating, Add	*1,021.86*	
		For Class 55 Rating, Add	*1,523.04*	
		For Class 56 Rating, Add	*2,017.46*	
40 05 19 00-3229	EA	10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,627.91	417.56
		For Class 52 Rating, Deduct	*-769.48*	
		For Class 54 Rating, Add	*1,056.88*	
		For Class 55 Rating, Add	*1,575.13*	
		For Class 56 Rating, Add	*2,086.38*	
40 05 19 00-3230	EA	10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,865.61	420.59
		For Class 52 Rating, Deduct	*-795.12*	
		For Class 54 Rating, Add	*1,091.90*	
		For Class 55 Rating, Add	*1,627.21*	
		For Class 56 Rating, Add	*2,155.30*	
40 05 19 00-3231	EA	10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,103.29	423.64
		For Class 52 Rating, Deduct	*-820.75*	
		For Class 54 Rating, Add	*1,126.91*	
		For Class 55 Rating, Add	*1,679.30*	
		For Class 56 Rating, Add	*2,224.22*	
40 05 19 00-3232	EA	10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,340.97	426.69
		For Class 52 Rating, Deduct	*-846.39*	
		For Class 54 Rating, Add	*1,161.93*	
		For Class 55 Rating, Add	*1,731.38*	
		For Class 56 Rating, Add	*2,293.14*	
40 05 19 00-3233	EA	10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,578.67	429.74
		For Class 52 Rating, Deduct	*-872.03*	
		For Class 54 Rating, Add	*1,196.94*	
		For Class 55 Rating, Add	*1,783.47*	
		For Class 56 Rating, Add	*2,362.06*	
40 05 19 00-3234	EA	10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,816.35	432.78
		For Class 52 Rating, Deduct	*-897.67*	
		For Class 54 Rating, Add	*1,231.96*	
		For Class 55 Rating, Add	*1,835.55*	
		For Class 56 Rating, Add	*2,430.99*	
40 05 19 00-3235	EA	10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,054.04	435.84
		For Class 52 Rating, Deduct	*-923.30*	
		For Class 54 Rating, Add	*1,266.98*	
		For Class 55 Rating, Add	*1,887.64*	
		For Class 56 Rating, Add	*2,499.91*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3236	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,291.73	438.89
		For Class 52 Rating, Deduct	*-948.94*	
		For Class 54 Rating, Add	*1,301.99*	
		For Class 55 Rating, Add	*1,939.72*	
		For Class 56 Rating, Add	*2,568.83*	
40 05 19 00-3237	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,529.41	441.93
		For Class 52 Rating, Deduct	*-974.58*	
		For Class 54 Rating, Add	*1,337.01*	
		For Class 55 Rating, Add	*1,991.81*	
		For Class 56 Rating, Add	*2,637.75*	
40 05 19 00-3238	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,767.12	444.98
		For Class 52 Rating, Deduct	*-1,000.22*	
		For Class 54 Rating, Add	*1,372.03*	
		For Class 55 Rating, Add	*2,043.90*	
		For Class 56 Rating, Add	*2,706.68*	
40 05 19 00-3239	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,004.80	448.03
		For Class 52 Rating, Deduct	*-1,025.86*	
		For Class 54 Rating, Add	*1,407.04*	
		For Class 55 Rating, Add	*2,095.98*	
		For Class 56 Rating, Add	*2,775.60*	
40 05 19 00-3240	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,242.49	451.08
		For Class 52 Rating, Deduct	*-1,051.49*	
		For Class 54 Rating, Add	*1,442.06*	
		For Class 55 Rating, Add	*2,148.07*	
		For Class 56 Rating, Add	*2,844.52*	
40 05 19 00-3241	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,480.18	454.12
		For Class 52 Rating, Deduct	*-1,077.13*	
		For Class 54 Rating, Add	*1,477.07*	
		For Class 55 Rating, Add	*2,200.15*	
		For Class 56 Rating, Add	*2,913.44*	
40 05 19 00-3242	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,717.86	457.18
		For Class 52 Rating, Deduct	*-1,102.77*	
		For Class 54 Rating, Add	*1,512.09*	
		For Class 55 Rating, Add	*2,252.24*	
		For Class 56 Rating, Add	*2,982.36*	
40 05 19 00-3243		12" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*		
40 05 19 00-3244	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,189.80	426.69
		For Class 52 Rating, Deduct	*-169.76*	
		For Class 54 Rating, Add	*239.25*	
		For Class 55 Rating, Add	*359.67*	
		For Class 56 Rating, Add	*478.55*	
40 05 19 00-3245	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,484.20	429.74
		For Class 52 Rating, Deduct	*-201.64*	
		For Class 54 Rating, Add	*282.77*	
		For Class 55 Rating, Add	*424.40*	
		For Class 56 Rating, Add	*564.20*	
40 05 19 00-3246	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,778.57	432.78
		For Class 52 Rating, Deduct	*-233.51*	
		For Class 54 Rating, Add	*326.29*	
		For Class 55 Rating, Add	*489.13*	
		For Class 56 Rating, Add	*649.84*	
40 05 19 00-3247	EA	12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,072.95	435.84
		For Class 52 Rating, Deduct	*-265.38*	
		For Class 54 Rating, Add	*369.81*	
		For Class 55 Rating, Add	*553.86*	
		For Class 56 Rating, Add	*735.49*	
40 05 19 00-3248	EA	12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,367.34	438.89
		For Class 52 Rating, Deduct	*-297.26*	
		For Class 54 Rating, Add	*413.33*	
		For Class 55 Rating, Add	*618.59*	
		For Class 56 Rating, Add	*821.14*	
40 05 19 00-3249	EA	12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,661.71	441.93
		For Class 52 Rating, Deduct	*-329.13*	
		For Class 54 Rating, Add	*456.85*	
		For Class 55 Rating, Add	*683.31*	
		For Class 56 Rating, Add	*906.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3250	EA	12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,956.10	444.98
		For Class 52 Rating, Deduct	*-361.01*	
		For Class 54 Rating, Add	*500.37*	
		For Class 55 Rating, Add	*748.04*	
		For Class 56 Rating, Add	*992.43*	
40 05 19 00-3251	EA	12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,250.48	448.03
		For Class 52 Rating, Deduct	*-392.88*	
		For Class 54 Rating, Add	*543.89*	
		For Class 55 Rating, Add	*812.77*	
		For Class 56 Rating, Add	*1,078.07*	
40 05 19 00-3252	EA	12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,544.86	451.08
		For Class 52 Rating, Deduct	*-424.76*	
		For Class 54 Rating, Add	*587.41*	
		For Class 55 Rating, Add	*877.50*	
		For Class 56 Rating, Add	*1,163.72*	
40 05 19 00-3253	EA	12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,839.24	454.12
		For Class 52 Rating, Deduct	*-456.63*	
		For Class 54 Rating, Add	*630.93*	
		For Class 55 Rating, Add	*942.22*	
		For Class 56 Rating, Add	*1,249.37*	
40 05 19 00-3254	EA	12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,133.62	457.18
		For Class 52 Rating, Deduct	*-488.50*	
		For Class 54 Rating, Add	*674.45*	
		For Class 55 Rating, Add	*1,006.95*	
		For Class 56 Rating, Add	*1,335.01*	
40 05 19 00-3255	EA	12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,428.01	460.23
		For Class 52 Rating, Deduct	*-520.38*	
		For Class 54 Rating, Add	*717.97*	
		For Class 55 Rating, Add	*1,071.68*	
		For Class 56 Rating, Add	*1,420.66*	
40 05 19 00-3256	EA	12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,722.38	463.27
		For Class 52 Rating, Deduct	*-552.25*	
		For Class 54 Rating, Add	*761.49*	
		For Class 55 Rating, Add	*1,136.41*	
		For Class 56 Rating, Add	*1,506.30*	
40 05 19 00-3257	EA	12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,016.77	466.31
		For Class 52 Rating, Deduct	*-584.13*	
		For Class 54 Rating, Add	*805.01*	
		For Class 55 Rating, Add	*1,201.14*	
		For Class 56 Rating, Add	*1,591.95*	
40 05 19 00-3258	EA	12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,311.15	469.36
		For Class 52 Rating, Deduct	*-616.00*	
		For Class 54 Rating, Add	*848.53*	
		For Class 55 Rating, Add	*1,265.87*	
		For Class 56 Rating, Add	*1,677.60*	
40 05 19 00-3259	EA	12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,605.52	472.41
		For Class 52 Rating, Deduct	*-647.87*	
		For Class 54 Rating, Add	*892.05*	
		For Class 55 Rating, Add	*1,330.59*	
		For Class 56 Rating, Add	*1,763.24*	
40 05 19 00-3260	EA	12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,899.91	475.45
		For Class 52 Rating, Deduct	*-679.75*	
		For Class 54 Rating, Add	*935.57*	
		For Class 55 Rating, Add	*1,395.32*	
		For Class 56 Rating, Add	*1,848.89*	
40 05 19 00-3261	EA	12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,194.29	478.50
		For Class 52 Rating, Deduct	*-711.62*	
		For Class 54 Rating, Add	*979.09*	
		For Class 55 Rating, Add	*1,460.05*	
		For Class 56 Rating, Add	*1,934.54*	
40 05 19 00-3262	EA	12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,488.67	481.56
		For Class 52 Rating, Deduct	*-743.49*	
		For Class 54 Rating, Add	*1,022.61*	
		For Class 55 Rating, Add	*1,524.78*	
		For Class 56 Rating, Add	*2,020.18*	
40 05 19 00-3263	EA	12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,783.05	484.60
		For Class 52 Rating, Deduct	*-775.37*	
		For Class 54 Rating, Add	*1,066.13*	
		For Class 55 Rating, Add	*1,589.50*	
		For Class 56 Rating, Add	*2,105.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3264	EA	12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,077.44	487.65
		For Class 52 Rating, Deduct	*-807.24*	
		For Class 54 Rating, Add	*1,109.65*	
		For Class 55 Rating, Add	*1,654.23*	
		For Class 56 Rating, Add	*2,191.48*	
40 05 19 00-3265	EA	12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,371.81	490.70
		For Class 52 Rating, Deduct	*-839.12*	
		For Class 54 Rating, Add	*1,153.17*	
		For Class 55 Rating, Add	*1,718.96*	
		For Class 56 Rating, Add	*2,277.12*	
40 05 19 00-3266	EA	12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,666.19	493.75
		For Class 52 Rating, Deduct	*-870.99*	
		For Class 54 Rating, Add	*1,196.69*	
		For Class 55 Rating, Add	*1,783.69*	
		For Class 56 Rating, Add	*2,362.77*	
40 05 19 00-3267	EA	12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,960.58	496.79
		For Class 52 Rating, Deduct	*-902.86*	
		For Class 54 Rating, Add	*1,240.21*	
		For Class 55 Rating, Add	*1,848.42*	
		For Class 56 Rating, Add	*2,448.42*	
40 05 19 00-3268	EA	12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,254.95	499.84
		For Class 52 Rating, Deduct	*-934.74*	
		For Class 54 Rating, Add	*1,283.73*	
		For Class 55 Rating, Add	*1,913.15*	
		For Class 56 Rating, Add	*2,534.06*	
40 05 19 00-3269	EA	12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,549.34	502.90
		For Class 52 Rating, Deduct	*-966.61*	
		For Class 54 Rating, Add	*1,327.25*	
		For Class 55 Rating, Add	*1,977.87*	
		For Class 56 Rating, Add	*2,619.71*	
40 05 19 00-3270	EA	12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,843.72	505.95
		For Class 52 Rating, Deduct	*-998.49*	
		For Class 54 Rating, Add	*1,370.77*	
		For Class 55 Rating, Add	*2,042.60*	
		For Class 56 Rating, Add	*2,705.36*	
40 05 19 00-3271	EA	12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,138.10	508.98
		For Class 52 Rating, Deduct	*-1,030.36*	
		For Class 54 Rating, Add	*1,414.29*	
		For Class 55 Rating, Add	*2,107.33*	
		For Class 56 Rating, Add	*2,791.00*	
40 05 19 00-3272	EA	12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,432.48	512.03
		For Class 52 Rating, Deduct	*-1,062.23*	
		For Class 54 Rating, Add	*1,457.81*	
		For Class 55 Rating, Add	*2,172.06*	
		For Class 56 Rating, Add	*2,876.65*	
40 05 19 00-3273	EA	12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,726.86	515.08
		For Class 52 Rating, Deduct	*-1,094.11*	
		For Class 54 Rating, Add	*1,501.33*	
		For Class 55 Rating, Add	*2,236.79*	
		For Class 56 Rating, Add	*2,962.29*	
40 05 19 00-3274	EA	12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,021.25	518.12
		For Class 52 Rating, Deduct	*-1,125.98*	
		For Class 54 Rating, Add	*1,544.85*	
		For Class 55 Rating, Add	*2,301.51*	
		For Class 56 Rating, Add	*3,047.94*	
40 05 19 00-3275	EA	12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,315.62	521.17
		For Class 52 Rating, Deduct	*-1,157.86*	
		For Class 54 Rating, Add	*1,588.37*	
		For Class 55 Rating, Add	*2,366.24*	
		For Class 56 Rating, Add	*3,133.59*	
40 05 19 00-3276	EA	12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,610.01	524.22
		For Class 52 Rating, Deduct	*-1,189.73*	
		For Class 54 Rating, Add	*1,631.89*	
		For Class 55 Rating, Add	*2,430.97*	
		For Class 56 Rating, Add	*3,219.23*	
40 05 19 00-3277	EA	12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,904.39	527.28
		For Class 52 Rating, Deduct	*-1,221.60*	
		For Class 54 Rating, Add	*1,675.41*	
		For Class 55 Rating, Add	*2,495.70*	
		For Class 56 Rating, Add	*3,304.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3278	EA	12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,198.76	530.32
		For Class 52 Rating, Deduct	*-1,253.48*	
		For Class 54 Rating, Add	*1,718.93*	
		For Class 55 Rating, Add	*2,560.42*	
		For Class 56 Rating, Add	*3,390.53*	
40 05 19 00-3279	EA	12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,493.16	533.37
		For Class 52 Rating, Deduct	*-1,285.35*	
		For Class 54 Rating, Add	*1,762.45*	
		For Class 55 Rating, Add	*2,625.15*	
		For Class 56 Rating, Add	*3,476.17*	
40 05 19 00-3280	EA	12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,787.53	536.42
		For Class 52 Rating, Deduct	*-1,317.23*	
		For Class 54 Rating, Add	*1,805.97*	
		For Class 55 Rating, Add	*2,689.88*	
		For Class 56 Rating, Add	*3,561.82*	
40 05 19 00-3281	EA	12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,081.91	539.46
		For Class 52 Rating, Deduct	*-1,349.10*	
		For Class 54 Rating, Add	*1,849.49*	
		For Class 55 Rating, Add	*2,754.61*	
		For Class 56 Rating, Add	*3,647.46*	
40 05 19 00-3282	EA	12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,376.30	542.51
		For Class 52 Rating, Deduct	*-1,380.97*	
		For Class 54 Rating, Add	*1,893.01*	
		For Class 55 Rating, Add	*2,819.34*	
		For Class 56 Rating, Add	*3,733.11*	

40 05 19 00-3283 14" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3284	EA	14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,952.18	512.03
		For Class 52 Rating, Deduct	*-239.40*	
		For Class 54 Rating, Add	*335.77*	
		For Class 55 Rating, Add	*503.95*	
		For Class 56 Rating, Add	*669.96*	
40 05 19 00-3285	EA	14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,309.55	515.08
		For Class 52 Rating, Deduct	*-278.20*	
		For Class 54 Rating, Add	*388.73*	
		For Class 55 Rating, Add	*582.73*	
		For Class 56 Rating, Add	*774.19*	
40 05 19 00-3286	EA	14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,666.93	518.12
		For Class 52 Rating, Deduct	*-317.01*	
		For Class 54 Rating, Add	*441.70*	
		For Class 55 Rating, Add	*661.50*	
		For Class 56 Rating, Add	*878.42*	
40 05 19 00-3287	EA	14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,024.30	521.17
		For Class 52 Rating, Deduct	*-355.81*	
		For Class 54 Rating, Add	*494.67*	
		For Class 55 Rating, Add	*740.28*	
		For Class 56 Rating, Add	*982.65*	
40 05 19 00-3288	EA	14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,381.67	524.22
		For Class 52 Rating, Deduct	*-394.61*	
		For Class 54 Rating, Add	*547.64*	
		For Class 55 Rating, Add	*819.05*	
		For Class 56 Rating, Add	*1,086.87*	
40 05 19 00-3289	EA	14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,739.05	527.28
		For Class 52 Rating, Deduct	*-433.42*	
		For Class 54 Rating, Add	*600.61*	
		For Class 55 Rating, Add	*897.83*	
		For Class 56 Rating, Add	*1,191.10*	
40 05 19 00-3290	EA	14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,096.41	530.32
		For Class 52 Rating, Deduct	*-472.22*	
		For Class 54 Rating, Add	*653.58*	
		For Class 55 Rating, Add	*976.60*	
		For Class 56 Rating, Add	*1,295.33*	
40 05 19 00-3291	EA	14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,453.80	533.37
		For Class 52 Rating, Deduct	*-511.02*	
		For Class 54 Rating, Add	*706.55*	
		For Class 55 Rating, Add	*1,055.38*	
		For Class 56 Rating, Add	*1,399.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3292	EA	14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,811.17	536.42
		For Class 52 Rating, Deduct	*-549.83*	
		For Class 54 Rating, Add	*759.52*	
		For Class 55 Rating, Add	*1,134.15*	
		For Class 56 Rating, Add	*1,503.79*	
40 05 19 00-3293	EA	14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,168.54	539.46
		For Class 52 Rating, Deduct	*-588.63*	
		For Class 54 Rating, Add	*812.48*	
		For Class 55 Rating, Add	*1,212.93*	
		For Class 56 Rating, Add	*1,608.02*	
40 05 19 00-3294	EA	14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,525.92	542.51
		For Class 52 Rating, Deduct	*-627.43*	
		For Class 54 Rating, Add	*865.45*	
		For Class 55 Rating, Add	*1,291.70*	
		For Class 56 Rating, Add	*1,712.25*	
40 05 19 00-3295	EA	14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,883.28	545.56
		For Class 52 Rating, Deduct	*-666.23*	
		For Class 54 Rating, Add	*918.42*	
		For Class 55 Rating, Add	*1,370.48*	
		For Class 56 Rating, Add	*1,816.48*	
40 05 19 00-3296	EA	14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,240.67	548.62
		For Class 52 Rating, Deduct	*-705.04*	
		For Class 54 Rating, Add	*971.39*	
		For Class 55 Rating, Add	*1,449.25*	
		For Class 56 Rating, Add	*1,920.71*	
40 05 19 00-3297	EA	14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,598.03	551.66
		For Class 52 Rating, Deduct	*-743.84*	
		For Class 54 Rating, Add	*1,024.36*	
		For Class 55 Rating, Add	*1,528.03*	
		For Class 56 Rating, Add	*2,024.94*	
40 05 19 00-3298	EA	14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,955.41	554.71
		For Class 52 Rating, Deduct	*-782.64*	
		For Class 54 Rating, Add	*1,077.33*	
		For Class 55 Rating, Add	*1,606.80*	
		For Class 56 Rating, Add	*2,129.17*	
40 05 19 00-3299	EA	14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,312.78	557.75
		For Class 52 Rating, Deduct	*-821.45*	
		For Class 54 Rating, Add	*1,130.30*	
		For Class 55 Rating, Add	*1,685.58*	
		For Class 56 Rating, Add	*2,233.39*	
40 05 19 00-3300	EA	14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,670.15	560.79
		For Class 52 Rating, Deduct	*-860.25*	
		For Class 54 Rating, Add	*1,183.27*	
		For Class 55 Rating, Add	*1,764.36*	
		For Class 56 Rating, Add	*2,337.62*	
40 05 19 00-3301	EA	14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,027.52	563.84
		For Class 52 Rating, Deduct	*-899.05*	
		For Class 54 Rating, Add	*1,236.23*	
		For Class 55 Rating, Add	*1,843.13*	
		For Class 56 Rating, Add	*2,441.85*	
40 05 19 00-3302	EA	14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,384.90	566.89
		For Class 52 Rating, Deduct	*-937.86*	
		For Class 54 Rating, Add	*1,289.20*	
		For Class 55 Rating, Add	*1,921.91*	
		For Class 56 Rating, Add	*2,546.08*	
40 05 19 00-3303	EA	14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,742.27	569.94
		For Class 52 Rating, Deduct	*-976.66*	
		For Class 54 Rating, Add	*1,342.17*	
		For Class 55 Rating, Add	*2,000.68*	
		For Class 56 Rating, Add	*2,650.31*	
40 05 19 00-3304	EA	14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,099.65	572.98
		For Class 52 Rating, Deduct	*-1,015.46*	
		For Class 54 Rating, Add	*1,395.14*	
		For Class 55 Rating, Add	*2,079.46*	
		For Class 56 Rating, Add	*2,754.54*	
40 05 19 00-3305	EA	14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,457.01	576.04
		For Class 52 Rating, Deduct	*-1,054.27*	
		For Class 54 Rating, Add	*1,448.11*	
		For Class 55 Rating, Add	*2,158.23*	
		For Class 56 Rating, Add	*2,858.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3306	EA	14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,814.39	579.09
		For Class 52 Rating, Deduct	*-1,093.07*	
		For Class 54 Rating, Add	*1,501.08*	
		For Class 55 Rating, Add	*2,237.01*	
		For Class 56 Rating, Add	*2,963.00*	
40 05 19 00-3307	EA	14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,171.76	582.14
		For Class 52 Rating, Deduct	*-1,131.87*	
		For Class 54 Rating, Add	*1,554.05*	
		For Class 55 Rating, Add	*2,315.78*	
		For Class 56 Rating, Add	*3,067.23*	
40 05 19 00-3308	EA	14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,529.14	585.18
		For Class 52 Rating, Deduct	*-1,170.68*	
		For Class 54 Rating, Add	*1,607.01*	
		For Class 55 Rating, Add	*2,394.56*	
		For Class 56 Rating, Add	*3,171.46*	
40 05 19 00-3309	EA	14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,886.51	588.23
		For Class 52 Rating, Deduct	*-1,209.48*	
		For Class 54 Rating, Add	*1,659.98*	
		For Class 55 Rating, Add	*2,473.33*	
		For Class 56 Rating, Add	*3,275.68*	
40 05 19 00-3310	EA	14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,243.88	591.28
		For Class 52 Rating, Deduct	*-1,248.28*	
		For Class 54 Rating, Add	*1,712.95*	
		For Class 55 Rating, Add	*2,552.11*	
		For Class 56 Rating, Add	*3,379.91*	
40 05 19 00-3311	EA	14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,601.25	594.32
		For Class 52 Rating, Deduct	*-1,287.08*	
		For Class 54 Rating, Add	*1,765.92*	
		For Class 55 Rating, Add	*2,630.88*	
		For Class 56 Rating, Add	*3,484.14*	
40 05 19 00-3312	EA	14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,958.63	597.38
		For Class 52 Rating, Deduct	*-1,325.89*	
		For Class 54 Rating, Add	*1,818.89*	
		For Class 55 Rating, Add	*2,709.66*	
		For Class 56 Rating, Add	*3,588.37*	
40 05 19 00-3313	EA	14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,316.00	600.42
		For Class 52 Rating, Deduct	*-1,364.69*	
		For Class 54 Rating, Add	*1,871.86*	
		For Class 55 Rating, Add	*2,788.43*	
		For Class 56 Rating, Add	*3,692.60*	
40 05 19 00-3314	EA	14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,673.37	603.47
		For Class 52 Rating, Deduct	*-1,403.49*	
		For Class 54 Rating, Add	*1,924.83*	
		For Class 55 Rating, Add	*2,867.21*	
		For Class 56 Rating, Add	*3,796.83*	
40 05 19 00-3315	EA	14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,030.75	606.51
		For Class 52 Rating, Deduct	*-1,442.30*	
		For Class 54 Rating, Add	*1,977.79*	
		For Class 55 Rating, Add	*2,945.98*	
		For Class 56 Rating, Add	*3,901.06*	
40 05 19 00-3316	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,388.12	609.56
		For Class 52 Rating, Deduct	*-1,481.10*	
		For Class 54 Rating, Add	*2,030.76*	
		For Class 55 Rating, Add	*3,024.76*	
		For Class 56 Rating, Add	*4,005.29*	
40 05 19 00-3317	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,745.50	612.61
		For Class 52 Rating, Deduct	*-1,519.90*	
		For Class 54 Rating, Add	*2,083.73*	
		For Class 55 Rating, Add	*3,103.53*	
		For Class 56 Rating, Add	*4,109.52*	
40 05 19 00-3318	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,102.87	615.65
		For Class 52 Rating, Deduct	*-1,558.71*	
		For Class 54 Rating, Add	*2,136.70*	
		For Class 55 Rating, Add	*3,182.31*	
		For Class 56 Rating, Add	*4,213.75*	
40 05 19 00-3319	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,460.24	618.70
		For Class 52 Rating, Deduct	*-1,597.51*	
		For Class 54 Rating, Add	*2,189.67*	
		For Class 55 Rating, Add	*3,261.08*	
		For Class 56 Rating, Add	*4,317.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3320	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,817.62	621.76
		For Class 52 Rating, Deduct	*-1,636.31*	
		For Class 54 Rating, Add	*2,242.64*	
		For Class 55 Rating, Add	*3,339.86*	
		For Class 56 Rating, Add	*4,422.20*	
40 05 19 00-3321	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,174.99	624.81
		For Class 52 Rating, Deduct	*-1,675.12*	
		For Class 54 Rating, Add	*2,295.61*	
		For Class 55 Rating, Add	*3,418.64*	
		For Class 56 Rating, Add	*4,526.43*	

40 05 19 00-3322 16" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3323	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,453.56	585.18
		For Class 52 Rating, Deduct	*-282.36*	
		For Class 54 Rating, Add	*395.68*	
		For Class 55 Rating, Add	*593.70*	
		For Class 56 Rating, Add	*789.16*	
40 05 19 00-3324	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,867.63	588.23
		For Class 52 Rating, Deduct	*-327.40*	
		For Class 54 Rating, Add	*457.15*	
		For Class 55 Rating, Add	*685.12*	
		For Class 56 Rating, Add	*910.11*	
40 05 19 00-3325	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,281.69	591.28
		For Class 52 Rating, Deduct	*-372.44*	
		For Class 54 Rating, Add	*518.62*	
		For Class 55 Rating, Add	*776.54*	
		For Class 56 Rating, Add	*1,031.07*	
40 05 19 00-3326	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,695.76	594.32
		For Class 52 Rating, Deduct	*-417.48*	
		For Class 54 Rating, Add	*580.10*	
		For Class 55 Rating, Add	*867.96*	
		For Class 56 Rating, Add	*1,152.02*	
40 05 19 00-3327	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,109.83	597.38
		For Class 52 Rating, Deduct	*-462.52*	
		For Class 54 Rating, Add	*641.57*	
		For Class 55 Rating, Add	*959.38*	
		For Class 56 Rating, Add	*1,272.98*	
40 05 19 00-3328	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,523.89	600.42
		For Class 52 Rating, Deduct	*-507.56*	
		For Class 54 Rating, Add	*703.04*	
		For Class 55 Rating, Add	*1,050.79*	
		For Class 56 Rating, Add	*1,393.93*	
40 05 19 00-3329	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,937.95	603.47
		For Class 52 Rating, Deduct	*-552.60*	
		For Class 54 Rating, Add	*764.51*	
		For Class 55 Rating, Add	*1,142.21*	
		For Class 56 Rating, Add	*1,514.88*	
40 05 19 00-3330	EA	16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,352.03	606.51
		For Class 52 Rating, Deduct	*-597.64*	
		For Class 54 Rating, Add	*825.99*	
		For Class 55 Rating, Add	*1,233.63*	
		For Class 56 Rating, Add	*1,635.84*	
40 05 19 00-3331	EA	16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,766.09	609.56
		For Class 52 Rating, Deduct	*-642.68*	
		For Class 54 Rating, Add	*887.46*	
		For Class 55 Rating, Add	*1,325.05*	
		For Class 56 Rating, Add	*1,756.79*	
40 05 19 00-3332	EA	16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,180.16	612.61
		For Class 52 Rating, Deduct	*-687.72*	
		For Class 54 Rating, Add	*948.93*	
		For Class 55 Rating, Add	*1,416.46*	
		For Class 56 Rating, Add	*1,877.74*	
40 05 19 00-3333	EA	16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,594.22	615.65
		For Class 52 Rating, Deduct	*-732.75*	
		For Class 54 Rating, Add	*1,010.40*	
		For Class 55 Rating, Add	*1,507.88*	
		For Class 56 Rating, Add	*1,998.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3334	EA	16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,008.28	618.70
		For Class 52 Rating, Deduct	*-777.79*	
		For Class 54 Rating, Add	*1,071.88*	
		For Class 55 Rating, Add	*1,599.30*	
		For Class 56 Rating, Add	*2,119.65*	
40 05 19 00-3335	EA	16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,422.36	621.76
		For Class 52 Rating, Deduct	*-822.83*	
		For Class 54 Rating, Add	*1,133.35*	
		For Class 55 Rating, Add	*1,690.72*	
		For Class 56 Rating, Add	*2,240.60*	
40 05 19 00-3336	EA	16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,836.42	624.81
		For Class 52 Rating, Deduct	*-867.87*	
		For Class 54 Rating, Add	*1,194.82*	
		For Class 55 Rating, Add	*1,782.13*	
		For Class 56 Rating, Add	*2,361.56*	
40 05 19 00-3337	EA	16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,250.48	627.85
		For Class 52 Rating, Deduct	*-912.91*	
		For Class 54 Rating, Add	*1,256.30*	
		For Class 55 Rating, Add	*1,873.55*	
		For Class 56 Rating, Add	*2,482.51*	
40 05 19 00-3338	EA	16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,664.55	630.90
		For Class 52 Rating, Deduct	*-957.95*	
		For Class 54 Rating, Add	*1,317.77*	
		For Class 55 Rating, Add	*1,964.97*	
		For Class 56 Rating, Add	*2,603.46*	
40 05 19 00-3339	EA	16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,078.61	633.95
		For Class 52 Rating, Deduct	*-1,002.99*	
		For Class 54 Rating, Add	*1,379.24*	
		For Class 55 Rating, Add	*2,056.39*	
		For Class 56 Rating, Add	*2,724.42*	
40 05 19 00-3340	EA	16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,492.69	636.99
		For Class 52 Rating, Deduct	*-1,048.03*	
		For Class 54 Rating, Add	*1,440.71*	
		For Class 55 Rating, Add	*2,147.81*	
		For Class 56 Rating, Add	*2,845.37*	
40 05 19 00-3341	EA	16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,906.75	640.04
		For Class 52 Rating, Deduct	*-1,093.07*	
		For Class 54 Rating, Add	*1,502.19*	
		For Class 55 Rating, Add	*2,239.22*	
		For Class 56 Rating, Add	*2,966.32*	
40 05 19 00-3342	EA	16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,320.81	643.10
		For Class 52 Rating, Deduct	*-1,138.11*	
		For Class 54 Rating, Add	*1,563.66*	
		For Class 55 Rating, Add	*2,330.64*	
		For Class 56 Rating, Add	*3,087.28*	
40 05 19 00-3343	EA	16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,734.88	646.15
		For Class 52 Rating, Deduct	*-1,183.15*	
		For Class 54 Rating, Add	*1,625.13*	
		For Class 55 Rating, Add	*2,422.06*	
		For Class 56 Rating, Add	*3,208.23*	
40 05 19 00-3344	EA	16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,148.94	649.18
		For Class 52 Rating, Deduct	*-1,228.19*	
		For Class 54 Rating, Add	*1,686.60*	
		For Class 55 Rating, Add	*2,513.48*	
		For Class 56 Rating, Add	*3,329.18*	
40 05 19 00-3345	EA	16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,563.02	652.23
		For Class 52 Rating, Deduct	*-1,273.23*	
		For Class 54 Rating, Add	*1,748.08*	
		For Class 55 Rating, Add	*2,604.89*	
		For Class 56 Rating, Add	*3,450.14*	
40 05 19 00-3346	EA	16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,977.08	655.28
		For Class 52 Rating, Deduct	*-1,318.27*	
		For Class 54 Rating, Add	*1,809.55*	
		For Class 55 Rating, Add	*2,696.31*	
		For Class 56 Rating, Add	*3,571.09*	
40 05 19 00-3347	EA	16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,391.14	658.33
		For Class 52 Rating, Deduct	*-1,363.30*	
		For Class 54 Rating, Add	*1,871.02*	
		For Class 55 Rating, Add	*2,787.73*	
		For Class 56 Rating, Add	*3,692.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3348	EA	16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,805.21	661.37
		For Class 52 Rating, Deduct	*-1,408.34*	
		For Class 54 Rating, Add	*1,932.49*	
		For Class 55 Rating, Add	*2,879.15*	
		For Class 56 Rating, Add	*3,813.00*	
40 05 19 00-3349	EA	16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,219.27	664.42
		For Class 52 Rating, Deduct	*-1,453.38*	
		For Class 54 Rating, Add	*1,993.97*	
		For Class 55 Rating, Add	*2,970.56*	
		For Class 56 Rating, Add	*3,933.95*	
40 05 19 00-3350	EA	16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,633.34	667.48
		For Class 52 Rating, Deduct	*-1,498.42*	
		For Class 54 Rating, Add	*2,055.44*	
		For Class 55 Rating, Add	*3,061.98*	
		For Class 56 Rating, Add	*4,054.90*	
40 05 19 00-3351	EA	16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,047.41	670.52
		For Class 52 Rating, Deduct	*-1,543.46*	
		For Class 54 Rating, Add	*2,116.91*	
		For Class 55 Rating, Add	*3,153.40*	
		For Class 56 Rating, Add	*4,175.86*	
40 05 19 00-3352	EA	16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,461.48	673.57
		For Class 52 Rating, Deduct	*-1,588.50*	
		For Class 54 Rating, Add	*2,178.38*	
		For Class 55 Rating, Add	*3,244.82*	
		For Class 56 Rating, Add	*4,296.81*	
40 05 19 00-3353	EA	16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,875.54	676.62
		For Class 52 Rating, Deduct	*-1,633.54*	
		For Class 54 Rating, Add	*2,239.86*	
		For Class 55 Rating, Add	*3,336.23*	
		For Class 56 Rating, Add	*4,417.76*	
40 05 19 00-3354	EA	16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,289.60	679.67
		For Class 52 Rating, Deduct	*-1,678.58*	
		For Class 54 Rating, Add	*2,301.33*	
		For Class 55 Rating, Add	*3,427.65*	
		For Class 56 Rating, Add	*4,538.72*	
40 05 19 00-3355	EA	16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,703.67	682.71
		For Class 52 Rating, Deduct	*-1,723.62*	
		For Class 54 Rating, Add	*2,362.80*	
		For Class 55 Rating, Add	*3,519.07*	
		For Class 56 Rating, Add	*4,659.67*	
40 05 19 00-3356	EA	16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,117.74	685.76
		For Class 52 Rating, Deduct	*-1,768.66*	
		For Class 54 Rating, Add	*2,424.27*	
		For Class 55 Rating, Add	*3,610.49*	
		For Class 56 Rating, Add	*4,780.62*	
40 05 19 00-3357	EA	16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,531.81	688.82
		For Class 52 Rating, Deduct	*-1,813.70*	
		For Class 54 Rating, Add	*2,485.75*	
		For Class 55 Rating, Add	*3,701.91*	
		For Class 56 Rating, Add	*4,901.58*	
40 05 19 00-3358	EA	16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,945.86	691.84
		For Class 52 Rating, Deduct	*-1,858.74*	
		For Class 54 Rating, Add	*2,547.22*	
		For Class 55 Rating, Add	*3,793.32*	
		For Class 56 Rating, Add	*5,022.53*	
40 05 19 00-3359	EA	16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,359.93	694.90
		For Class 52 Rating, Deduct	*-1,903.78*	
		For Class 54 Rating, Add	*2,608.69*	
		For Class 55 Rating, Add	*3,884.74*	
		For Class 56 Rating, Add	*5,143.48*	
40 05 19 00-3360	EA	16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,774.00	697.95
		For Class 52 Rating, Deduct	*-1,948.82*	
		For Class 54 Rating, Add	*2,670.17*	
		For Class 55 Rating, Add	*3,976.16*	
		For Class 56 Rating, Add	*5,264.44*	

40 05 19 00-3361 18" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3362	EA	18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,007.19	659.55
		For Class 52 Rating, Deduct	*-330.87*	
		For Class 54 Rating, Add	*463.17*	
		For Class 55 Rating, Add	*694.74*	
		For Class 56 Rating, Add	*923.30*	
40 05 19 00-3363	EA	18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,484.24	662.60
		For Class 52 Rating, Deduct	*-382.83*	
		For Class 54 Rating, Add	*534.09*	
		For Class 55 Rating, Add	*800.20*	
		For Class 56 Rating, Add	*1,062.83*	
40 05 19 00-3364	EA	18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,961.30	665.64
		For Class 52 Rating, Deduct	*-434.80*	
		For Class 54 Rating, Add	*605.02*	
		For Class 55 Rating, Add	*905.67*	
		For Class 56 Rating, Add	*1,202.37*	
40 05 19 00-3365	EA	18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,438.36	668.69
		For Class 52 Rating, Deduct	*-486.77*	
		For Class 54 Rating, Add	*675.94*	
		For Class 55 Rating, Add	*1,011.13*	
		For Class 56 Rating, Add	*1,341.91*	
40 05 19 00-3366	EA	18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,915.42	671.75
		For Class 52 Rating, Deduct	*-538.74*	
		For Class 54 Rating, Add	*746.86*	
		For Class 55 Rating, Add	*1,116.60*	
		For Class 56 Rating, Add	*1,481.44*	
40 05 19 00-3367	EA	18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,392.48	674.79
		For Class 52 Rating, Deduct	*-590.71*	
		For Class 54 Rating, Add	*817.78*	
		For Class 55 Rating, Add	*1,222.06*	
		For Class 56 Rating, Add	*1,620.98*	
40 05 19 00-3368	EA	18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,869.54	677.84
		For Class 52 Rating, Deduct	*-642.68*	
		For Class 54 Rating, Add	*888.70*	
		For Class 55 Rating, Add	*1,327.53*	
		For Class 56 Rating, Add	*1,760.51*	
40 05 19 00-3369	EA	18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,346.59	680.88
		For Class 52 Rating, Deduct	*-694.64*	
		For Class 54 Rating, Add	*959.62*	
		For Class 55 Rating, Add	*1,432.99*	
		For Class 56 Rating, Add	*1,900.05*	
40 05 19 00-3370	EA	18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,823.65	683.93
		For Class 52 Rating, Deduct	*-746.61*	
		For Class 54 Rating, Add	*1,030.54*	
		For Class 55 Rating, Add	*1,538.46*	
		For Class 56 Rating, Add	*2,039.59*	
40 05 19 00-3371	EA	18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,300.71	686.97
		For Class 52 Rating, Deduct	*-798.58*	
		For Class 54 Rating, Add	*1,101.47*	
		For Class 55 Rating, Add	*1,643.92*	
		For Class 56 Rating, Add	*2,179.12*	
40 05 19 00-3372	EA	18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,777.76	690.02
		For Class 52 Rating, Deduct	*-850.55*	
		For Class 54 Rating, Add	*1,172.39*	
		For Class 55 Rating, Add	*1,749.39*	
		For Class 56 Rating, Add	*2,318.66*	
40 05 19 00-3373	EA	18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,254.83	693.07
		For Class 52 Rating, Deduct	*-902.52*	
		For Class 54 Rating, Add	*1,243.31*	
		For Class 55 Rating, Add	*1,854.85*	
		For Class 56 Rating, Add	*2,458.19*	
40 05 19 00-3374	EA	18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,731.88	696.11
		For Class 52 Rating, Deduct	*-954.49*	
		For Class 54 Rating, Add	*1,314.23*	
		For Class 55 Rating, Add	*1,960.32*	
		For Class 56 Rating, Add	*2,597.73*	
40 05 19 00-3375	EA	18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,208.94	699.17
		For Class 52 Rating, Deduct	*-1,006.45*	
		For Class 54 Rating, Add	*1,385.15*	
		For Class 55 Rating, Add	*2,065.78*	
		For Class 56 Rating, Add	*2,737.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3376	EA	18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,686.00	702.22
		For Class 52 Rating, Deduct	*-1,058.42*	
		For Class 54 Rating, Add	*1,456.07*	
		For Class 55 Rating, Add	*2,171.25*	
		For Class 56 Rating, Add	*2,876.80*	
40 05 19 00-3377	EA	18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,163.05	705.27
		For Class 52 Rating, Deduct	*-1,110.39*	
		For Class 54 Rating, Add	*1,526.99*	
		For Class 55 Rating, Add	*2,276.71*	
		For Class 56 Rating, Add	*3,016.34*	
40 05 19 00-3378	EA	18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,640.12	708.31
		For Class 52 Rating, Deduct	*-1,162.36*	
		For Class 54 Rating, Add	*1,597.92*	
		For Class 55 Rating, Add	*2,382.18*	
		For Class 56 Rating, Add	*3,155.87*	
40 05 19 00-3379	EA	18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,117.17	711.36
		For Class 52 Rating, Deduct	*-1,214.33*	
		For Class 54 Rating, Add	*1,668.84*	
		For Class 55 Rating, Add	*2,487.64*	
		For Class 56 Rating, Add	*3,295.41*	
40 05 19 00-3380	EA	18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,594.22	714.41
		For Class 52 Rating, Deduct	*-1,266.30*	
		For Class 54 Rating, Add	*1,739.76*	
		For Class 55 Rating, Add	*2,593.11*	
		For Class 56 Rating, Add	*3,434.95*	
40 05 19 00-3381	EA	18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,071.29	717.45
		For Class 52 Rating, Deduct	*-1,318.27*	
		For Class 54 Rating, Add	*1,810.68*	
		For Class 55 Rating, Add	*2,698.57*	
		For Class 56 Rating, Add	*3,574.48*	
40 05 19 00-3382	EA	18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,548.34	720.51
		For Class 52 Rating, Deduct	*-1,370.23*	
		For Class 54 Rating, Add	*1,881.60*	
		For Class 55 Rating, Add	*2,804.04*	
		For Class 56 Rating, Add	*3,714.02*	
40 05 19 00-3383	EA	18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,025.41	723.56
		For Class 52 Rating, Deduct	*-1,422.20*	
		For Class 54 Rating, Add	*1,952.52*	
		For Class 55 Rating, Add	*2,909.50*	
		For Class 56 Rating, Add	*3,853.55*	
40 05 19 00-3384	EA	18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,502.46	726.60
		For Class 52 Rating, Deduct	*-1,474.17*	
		For Class 54 Rating, Add	*2,023.44*	
		For Class 55 Rating, Add	*3,014.97*	
		For Class 56 Rating, Add	*3,993.09*	
40 05 19 00-3385	EA	18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,979.51	729.64
		For Class 52 Rating, Deduct	*-1,526.14*	
		For Class 54 Rating, Add	*2,094.36*	
		For Class 55 Rating, Add	*3,120.43*	
		For Class 56 Rating, Add	*4,132.63*	
40 05 19 00-3386	EA	18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,456.58	732.69
		For Class 52 Rating, Deduct	*-1,578.11*	
		For Class 54 Rating, Add	*2,165.29*	
		For Class 55 Rating, Add	*3,225.90*	
		For Class 56 Rating, Add	*4,272.16*	
40 05 19 00-3387	EA	18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,933.63	735.74
		For Class 52 Rating, Deduct	*-1,630.08*	
		For Class 54 Rating, Add	*2,236.21*	
		For Class 55 Rating, Add	*3,331.36*	
		For Class 56 Rating, Add	*4,411.70*	
40 05 19 00-3388	EA	18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,410.70	738.79
		For Class 52 Rating, Deduct	*-1,682.04*	
		For Class 54 Rating, Add	*2,307.13*	
		For Class 55 Rating, Add	*3,436.83*	
		For Class 56 Rating, Add	*4,551.23*	
40 05 19 00-3389	EA	18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,887.75	741.83
		For Class 52 Rating, Deduct	*-1,734.01*	
		For Class 54 Rating, Add	*2,378.05*	
		For Class 55 Rating, Add	*3,542.29*	
		For Class 56 Rating, Add	*4,690.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3390	EA	18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,364.81	744.89
		For Class 52 Rating, Deduct	*-1,785.98*	
		For Class 54 Rating, Add	*2,448.97*	
		For Class 55 Rating, Add	*3,647.76*	
		For Class 56 Rating, Add	*4,830.31*	
40 05 19 00-3391	EA	18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,841.87	747.94
		For Class 52 Rating, Deduct	*-1,837.95*	
		For Class 54 Rating, Add	*2,519.89*	
		For Class 55 Rating, Add	*3,753.22*	
		For Class 56 Rating, Add	*4,969.84*	
40 05 19 00-3392	EA	18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,318.92	750.98
		For Class 52 Rating, Deduct	*-1,889.92*	
		For Class 54 Rating, Add	*2,590.81*	
		For Class 55 Rating, Add	*3,858.69*	
		For Class 56 Rating, Add	*5,109.38*	
40 05 19 00-3393	EA	18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,795.98	754.03
		For Class 52 Rating, Deduct	*-1,941.89*	
		For Class 54 Rating, Add	*2,661.74*	
		For Class 55 Rating, Add	*3,964.15*	
		For Class 56 Rating, Add	*5,248.91*	
40 05 19 00-3394	EA	18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,273.04	757.08
		For Class 52 Rating, Deduct	*-1,993.85*	
		For Class 54 Rating, Add	*2,732.66*	
		For Class 55 Rating, Add	*4,069.62*	
		For Class 56 Rating, Add	*5,388.45*	
40 05 19 00-3395	EA	18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,750.10	760.13
		For Class 52 Rating, Deduct	*-2,045.82*	
		For Class 54 Rating, Add	*2,803.58*	
		For Class 55 Rating, Add	*4,175.08*	
		For Class 56 Rating, Add	*5,527.99*	
40 05 19 00-3396	EA	18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,227.16	763.17
		For Class 52 Rating, Deduct	*-2,097.79*	
		For Class 54 Rating, Add	*2,874.50*	
		For Class 55 Rating, Add	*4,280.55*	
		For Class 56 Rating, Add	*5,667.52*	
40 05 19 00-3397	EA	18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,704.21	766.23
		For Class 52 Rating, Deduct	*-2,149.76*	
		For Class 54 Rating, Add	*2,945.42*	
		For Class 55 Rating, Add	*4,386.01*	
		For Class 56 Rating, Add	*5,807.06*	
40 05 19 00-3398	EA	18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,181.27	769.28
		For Class 52 Rating, Deduct	*-2,201.73*	
		For Class 54 Rating, Add	*3,016.34*	
		For Class 55 Rating, Add	*4,491.48*	
		For Class 56 Rating, Add	*5,946.59*	
40 05 19 00-3399	EA	18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,658.33	772.31
		For Class 52 Rating, Deduct	*-2,253.70*	
		For Class 54 Rating, Add	*3,087.26*	
		For Class 55 Rating, Add	*4,596.94*	
		For Class 56 Rating, Add	*6,086.13*	

40 05 19 00-3400 20" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3401	EA	20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,668.17	752.81
		For Class 52 Rating, Deduct	*-388.03*	
		For Class 54 Rating, Add	*542.82*	
		For Class 55 Rating, Add	*814.02*	
		For Class 56 Rating, Add	*1,081.69*	
40 05 19 00-3402	EA	20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,211.37	755.86
		For Class 52 Rating, Deduct	*-447.27*	
		For Class 54 Rating, Add	*623.66*	
		For Class 55 Rating, Add	*934.23*	
		For Class 56 Rating, Add	*1,240.74*	
40 05 19 00-3403	EA	20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,754.58	758.90
		For Class 52 Rating, Deduct	*-506.52*	
		For Class 54 Rating, Add	*704.51*	
		For Class 55 Rating, Add	*1,054.45*	
		For Class 56 Rating, Add	*1,399.79*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3404	EA	20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,297.77	761.96
		For Class 52 Rating, Deduct	*-565.76*	
		For Class 54 Rating, Add	*785.35*	
		For Class 55 Rating, Add	*1,174.66*	
		For Class 56 Rating, Add	*1,558.83*	
40 05 19 00-3405	EA	20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,840.98	765.01
		For Class 52 Rating, Deduct	*-625.01*	
		For Class 54 Rating, Add	*866.19*	
		For Class 55 Rating, Add	*1,294.88*	
		For Class 56 Rating, Add	*1,717.88*	
40 05 19 00-3406	EA	20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,384.17	768.05
		For Class 52 Rating, Deduct	*-684.25*	
		For Class 54 Rating, Add	*947.03*	
		For Class 55 Rating, Add	*1,415.09*	
		For Class 56 Rating, Add	*1,876.93*	
40 05 19 00-3407	EA	20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,927.37	771.10
		For Class 52 Rating, Deduct	*-743.49*	
		For Class 54 Rating, Add	*1,027.88*	
		For Class 55 Rating, Add	*1,535.31*	
		For Class 56 Rating, Add	*2,035.98*	
40 05 19 00-3408	EA	20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,470.57	774.15
		For Class 52 Rating, Deduct	*-802.74*	
		For Class 54 Rating, Add	*1,108.72*	
		For Class 55 Rating, Add	*1,655.52*	
		For Class 56 Rating, Add	*2,195.02*	
40 05 19 00-3409	EA	20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,013.76	777.20
		For Class 52 Rating, Deduct	*-861.98*	
		For Class 54 Rating, Add	*1,189.56*	
		For Class 55 Rating, Add	*1,775.73*	
		For Class 56 Rating, Add	*2,354.07*	
40 05 19 00-3410	EA	20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,556.98	780.23
		For Class 52 Rating, Deduct	*-921.23*	
		For Class 54 Rating, Add	*1,270.40*	
		For Class 55 Rating, Add	*1,895.95*	
		For Class 56 Rating, Add	*2,513.12*	
40 05 19 00-3411	EA	20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,100.17	783.28
		For Class 52 Rating, Deduct	*-980.47*	
		For Class 54 Rating, Add	*1,351.25*	
		For Class 55 Rating, Add	*2,016.16*	
		For Class 56 Rating, Add	*2,672.17*	
40 05 19 00-3412	EA	20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,643.37	786.34
		For Class 52 Rating, Deduct	*-1,039.71*	
		For Class 54 Rating, Add	*1,432.09*	
		For Class 55 Rating, Add	*2,136.38*	
		For Class 56 Rating, Add	*2,831.22*	
40 05 19 00-3413	EA	20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,186.57	789.38
		For Class 52 Rating, Deduct	*-1,098.96*	
		For Class 54 Rating, Add	*1,512.93*	
		For Class 55 Rating, Add	*2,256.59*	
		For Class 56 Rating, Add	*2,990.26*	
40 05 19 00-3414	EA	20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,729.76	792.43
		For Class 52 Rating, Deduct	*-1,158.20*	
		For Class 54 Rating, Add	*1,593.77*	
		For Class 55 Rating, Add	*2,376.81*	
		For Class 56 Rating, Add	*3,149.31*	
40 05 19 00-3415	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,272.96	795.48
		For Class 52 Rating, Deduct	*-1,217.45*	
		For Class 54 Rating, Add	*1,674.62*	
		For Class 55 Rating, Add	*2,497.02*	
		For Class 56 Rating, Add	*3,308.36*	
40 05 19 00-3416	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,816.17	798.53
		For Class 52 Rating, Deduct	*-1,276.69*	
		For Class 54 Rating, Add	*1,755.46*	
		For Class 55 Rating, Add	*2,617.24*	
		For Class 56 Rating, Add	*3,467.41*	
40 05 19 00-3417	EA	20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,359.37	801.57
		For Class 52 Rating, Deduct	*-1,335.93*	
		For Class 54 Rating, Add	*1,836.30*	
		For Class 55 Rating, Add	*2,737.45*	
		For Class 56 Rating, Add	*3,626.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3418	EA	20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,902.57	804.62
		For Class 52 Rating, Deduct	*-1,395.18*	
		For Class 54 Rating, Add	*1,917.15*	
		For Class 55 Rating, Add	*2,857.67*	
		For Class 56 Rating, Add	*3,785.50*	
40 05 19 00-3419	EA	20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,445.77	807.68
		For Class 52 Rating, Deduct	*-1,454.42*	
		For Class 54 Rating, Add	*1,997.99*	
		For Class 55 Rating, Add	*2,977.88*	
		For Class 56 Rating, Add	*3,944.55*	
40 05 19 00-3420	EA	20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,988.96	810.73
		For Class 52 Rating, Deduct	*-1,513.67*	
		For Class 54 Rating, Add	*2,078.83*	
		For Class 55 Rating, Add	*3,098.09*	
		For Class 56 Rating, Add	*4,103.60*	
40 05 19 00-3421	EA	20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,532.16	813.77
		For Class 52 Rating, Deduct	*-1,572.91*	
		For Class 54 Rating, Add	*2,159.67*	
		For Class 55 Rating, Add	*3,218.31*	
		For Class 56 Rating, Add	*4,262.65*	
40 05 19 00-3422	EA	20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,075.37	816.82
		For Class 52 Rating, Deduct	*-1,632.15*	
		For Class 54 Rating, Add	*2,240.52*	
		For Class 55 Rating, Add	*3,338.53*	
		For Class 56 Rating, Add	*4,421.70*	
40 05 19 00-3423	EA	20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,618.56	819.87
		For Class 52 Rating, Deduct	*-1,691.40*	
		For Class 54 Rating, Add	*2,321.36*	
		For Class 55 Rating, Add	*3,458.74*	
		For Class 56 Rating, Add	*4,580.74*	
40 05 19 00-3424	EA	20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,161.77	822.90
		For Class 52 Rating, Deduct	*-1,750.64*	
		For Class 54 Rating, Add	*2,402.20*	
		For Class 55 Rating, Add	*3,578.95*	
		For Class 56 Rating, Add	*4,739.79*	
40 05 19 00-3425	EA	20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,704.96	825.95
		For Class 52 Rating, Deduct	*-1,809.89*	
		For Class 54 Rating, Add	*2,483.04*	
		For Class 55 Rating, Add	*3,699.17*	
		For Class 56 Rating, Add	*4,898.84*	
40 05 19 00-3426	EA	20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,248.16	829.00
		For Class 52 Rating, Deduct	*-1,869.13*	
		For Class 54 Rating, Add	*2,563.89*	
		For Class 55 Rating, Add	*3,819.38*	
		For Class 56 Rating, Add	*5,057.89*	
40 05 19 00-3427	EA	20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,791.36	832.06
		For Class 52 Rating, Deduct	*-1,928.37*	
		For Class 54 Rating, Add	*2,644.73*	
		For Class 55 Rating, Add	*3,939.60*	
		For Class 56 Rating, Add	*5,216.93*	
40 05 19 00-3428	EA	20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,334.56	835.10
		For Class 52 Rating, Deduct	*-1,987.62*	
		For Class 54 Rating, Add	*2,725.57*	
		For Class 55 Rating, Add	*4,059.81*	
		For Class 56 Rating, Add	*5,375.98*	
40 05 19 00-3429	EA	20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,877.77	838.15
		For Class 52 Rating, Deduct	*-2,046.86*	
		For Class 54 Rating, Add	*2,806.42*	
		For Class 55 Rating, Add	*4,180.03*	
		For Class 56 Rating, Add	*5,535.03*	
40 05 19 00-3430	EA	20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,420.96	841.20
		For Class 52 Rating, Deduct	*-2,106.11*	
		For Class 54 Rating, Add	*2,887.26*	
		For Class 55 Rating, Add	*4,300.24*	
		For Class 56 Rating, Add	*5,694.08*	
40 05 19 00-3431	EA	20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,964.16	844.24
		For Class 52 Rating, Deduct	*-2,165.35*	
		For Class 54 Rating, Add	*2,968.10*	
		For Class 55 Rating, Add	*4,420.45*	
		For Class 56 Rating, Add	*5,853.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3432	EA	20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,507.36	847.29
		For Class 52 Rating, Deduct	*-2,224.59*	
		For Class 54 Rating, Add	*3,048.94*	
		For Class 55 Rating, Add	*4,540.67*	
		For Class 56 Rating, Add	*6,012.17*	
40 05 19 00-3433	EA	20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,050.55	850.34
		For Class 52 Rating, Deduct	*-2,283.84*	
		For Class 54 Rating, Add	*3,129.78*	
		For Class 55 Rating, Add	*4,660.88*	
		For Class 56 Rating, Add	*6,171.22*	
40 05 19 00-3434	EA	20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,593.76	853.40
		For Class 52 Rating, Deduct	*-2,343.08*	
		For Class 54 Rating, Add	*3,210.63*	
		For Class 55 Rating, Add	*4,781.10*	
		For Class 56 Rating, Add	*6,330.27*	
40 05 19 00-3435	EA	20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,136.96	856.44
		For Class 52 Rating, Deduct	*-2,402.33*	
		For Class 54 Rating, Add	*3,291.47*	
		For Class 55 Rating, Add	*4,901.31*	
		For Class 56 Rating, Add	*6,489.32*	
40 05 19 00-3436	EA	20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,680.16	859.49
		For Class 52 Rating, Deduct	*-2,461.57*	
		For Class 54 Rating, Add	*3,372.31*	
		For Class 55 Rating, Add	*5,021.53*	
		For Class 56 Rating, Add	*6,648.36*	
40 05 19 00-3437	EA	20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,223.36	862.54
		For Class 52 Rating, Deduct	*-2,520.81*	
		For Class 54 Rating, Add	*3,453.16*	
		For Class 55 Rating, Add	*5,141.74*	
		For Class 56 Rating, Add	*6,807.41*	
40 05 19 00-3438	EA	20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,766.55	865.57
		For Class 52 Rating, Deduct	*-2,580.06*	
		For Class 54 Rating, Add	*3,534.00*	
		For Class 55 Rating, Add	*5,261.96*	
		For Class 56 Rating, Add	*6,966.46*	

40 05 19 00-3439 24" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3440	EA	24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,751.57	889.96
		For Class 52 Rating, Deduct	*-484.35*	
		For Class 54 Rating, Add	*676.65*	
		For Class 55 Rating, Add	*1,014.26*	
		For Class 56 Rating, Add	*1,347.47*	
40 05 19 00-3441	EA	24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,423.91	893.01
		For Class 52 Rating, Deduct	*-557.79*	
		For Class 54 Rating, Add	*776.87*	
		For Class 55 Rating, Add	*1,163.27*	
		For Class 56 Rating, Add	*1,544.61*	
40 05 19 00-3442	EA	24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,096.23	896.06
		For Class 52 Rating, Deduct	*-631.24*	
		For Class 54 Rating, Add	*877.08*	
		For Class 55 Rating, Add	*1,312.28*	
		For Class 56 Rating, Add	*1,741.75*	
40 05 19 00-3443	EA	24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,768.57	899.10
		For Class 52 Rating, Deduct	*-704.69*	
		For Class 54 Rating, Add	*977.29*	
		For Class 55 Rating, Add	*1,461.30*	
		For Class 56 Rating, Add	*1,938.90*	
40 05 19 00-3444	EA	24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,440.90	902.16
		For Class 52 Rating, Deduct	*-778.14*	
		For Class 54 Rating, Add	*1,077.50*	
		For Class 55 Rating, Add	*1,610.31*	
		For Class 56 Rating, Add	*2,136.04*	
40 05 19 00-3445	EA	24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,113.24	905.21
		For Class 52 Rating, Deduct	*-851.59*	
		For Class 54 Rating, Add	*1,177.72*	
		For Class 55 Rating, Add	*1,759.32*	
		For Class 56 Rating, Add	*2,333.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3446	EA	24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,785.56	908.26
		For Class 52 Rating, Deduct	*-925.04*	
		For Class 54 Rating, Add	*1,277.93*	
		For Class 55 Rating, Add	*1,908.33*	
		For Class 56 Rating, Add	*2,530.32*	
40 05 19 00-3447	EA	24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,457.90	911.29
		For Class 52 Rating, Deduct	*-998.49*	
		For Class 54 Rating, Add	*1,378.14*	
		For Class 55 Rating, Add	*2,057.34*	
		For Class 56 Rating, Add	*2,727.47*	
40 05 19 00-3448	EA	24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,130.23	914.34
		For Class 52 Rating, Deduct	*-1,071.93*	
		For Class 54 Rating, Add	*1,478.35*	
		For Class 55 Rating, Add	*2,206.35*	
		For Class 56 Rating, Add	*2,924.61*	
40 05 19 00-3449	EA	24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,802.57	917.39
		For Class 52 Rating, Deduct	*-1,145.38*	
		For Class 54 Rating, Add	*1,578.57*	
		For Class 55 Rating, Add	*2,355.37*	
		For Class 56 Rating, Add	*3,121.75*	
40 05 19 00-3450	EA	24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,474.90	920.43
		For Class 52 Rating, Deduct	*-1,218.83*	
		For Class 54 Rating, Add	*1,678.78*	
		For Class 55 Rating, Add	*2,504.38*	
		For Class 56 Rating, Add	*3,318.89*	
40 05 19 00-3451	EA	24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,147.23	923.48
		For Class 52 Rating, Deduct	*-1,292.28*	
		For Class 54 Rating, Add	*1,778.99*	
		For Class 55 Rating, Add	*2,653.39*	
		For Class 56 Rating, Add	*3,516.03*	
40 05 19 00-3452	EA	24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,819.57	926.54
		For Class 52 Rating, Deduct	*-1,365.73*	
		For Class 54 Rating, Add	*1,879.20*	
		For Class 55 Rating, Add	*2,802.40*	
		For Class 56 Rating, Add	*3,713.18*	
40 05 19 00-3453	EA	24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,491.90	929.59
		For Class 52 Rating, Deduct	*-1,439.18*	
		For Class 54 Rating, Add	*1,979.42*	
		For Class 55 Rating, Add	*2,951.41*	
		For Class 56 Rating, Add	*3,910.32*	
40 05 19 00-3454	EA	24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,164.23	932.63
		For Class 52 Rating, Deduct	*-1,512.63*	
		For Class 54 Rating, Add	*2,079.63*	
		For Class 55 Rating, Add	*3,100.42*	
		For Class 56 Rating, Add	*4,107.46*	
40 05 19 00-3455	EA	24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,836.57	935.68
		For Class 52 Rating, Deduct	*-1,586.08*	
		For Class 54 Rating, Add	*2,179.84*	
		For Class 55 Rating, Add	*3,249.43*	
		For Class 56 Rating, Add	*4,304.60*	
40 05 19 00-3456	EA	24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,508.89	938.73
		For Class 52 Rating, Deduct	*-1,659.52*	
		For Class 54 Rating, Add	*2,280.05*	
		For Class 55 Rating, Add	*3,398.44*	
		For Class 56 Rating, Add	*4,501.74*	
40 05 19 00-3457	EA	24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,181.24	941.77
		For Class 52 Rating, Deduct	*-1,732.97*	
		For Class 54 Rating, Add	*2,380.27*	
		For Class 55 Rating, Add	*3,547.46*	
		For Class 56 Rating, Add	*4,698.89*	
40 05 19 00-3458	EA	24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,853.56	944.82
		For Class 52 Rating, Deduct	*-1,806.42*	
		For Class 54 Rating, Add	*2,480.48*	
		For Class 55 Rating, Add	*3,696.47*	
		For Class 56 Rating, Add	*4,896.03*	
40 05 19 00-3459	EA	24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,525.89	947.88
		For Class 52 Rating, Deduct	*-1,879.87*	
		For Class 54 Rating, Add	*2,580.69*	
		For Class 55 Rating, Add	*3,845.48*	
		For Class 56 Rating, Add	*5,093.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3460	EA	24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,198.23	950.93
		For Class 52 Rating, Deduct	*-1,953.32*	
		For Class 54 Rating, Add	*2,680.91*	
		For Class 55 Rating, Add	*3,994.49*	
		For Class 56 Rating, Add	*5,290.31*	
40 05 19 00-3461	EA	24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,870.56	953.96
		For Class 52 Rating, Deduct	*-2,026.77*	
		For Class 54 Rating, Add	*2,781.12*	
		For Class 55 Rating, Add	*4,143.50*	
		For Class 56 Rating, Add	*5,487.46*	
40 05 19 00-3462	EA	24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,542.91	957.01
		For Class 52 Rating, Deduct	*-2,100.22*	
		For Class 54 Rating, Add	*2,881.33*	
		For Class 55 Rating, Add	*4,292.51*	
		For Class 56 Rating, Add	*5,684.60*	
40 05 19 00-3463	EA	24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,215.23	960.06
		For Class 52 Rating, Deduct	*-2,173.66*	
		For Class 54 Rating, Add	*2,981.54*	
		For Class 55 Rating, Add	*4,441.52*	
		For Class 56 Rating, Add	*5,881.74*	
40 05 19 00-3464	EA	24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,887.56	963.11
		For Class 52 Rating, Deduct	*-2,247.11*	
		For Class 54 Rating, Add	*3,081.76*	
		For Class 55 Rating, Add	*4,590.54*	
		For Class 56 Rating, Add	*6,078.88*	
40 05 19 00-3465	EA	24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,559.90	966.15
		For Class 52 Rating, Deduct	*-2,320.56*	
		For Class 54 Rating, Add	*3,181.97*	
		For Class 55 Rating, Add	*4,739.55*	
		For Class 56 Rating, Add	*6,276.03*	
40 05 19 00-3466	EA	24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,232.23	969.20
		For Class 52 Rating, Deduct	*-2,394.01*	
		For Class 54 Rating, Add	*3,282.18*	
		For Class 55 Rating, Add	*4,888.56*	
		For Class 56 Rating, Add	*6,473.17*	
40 05 19 00-3467	EA	24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,904.56	972.26
		For Class 52 Rating, Deduct	*-2,467.46*	
		For Class 54 Rating, Add	*3,382.39*	
		For Class 55 Rating, Add	*5,037.57*	
		For Class 56 Rating, Add	*6,670.31*	
40 05 19 00-3468	EA	24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,576.90	975.30
		For Class 52 Rating, Deduct	*-2,540.91*	
		For Class 54 Rating, Add	*3,482.61*	
		For Class 55 Rating, Add	*5,186.58*	
		For Class 56 Rating, Add	*6,867.45*	
40 05 19 00-3469	EA	24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,327.73	1,030.16
		For Class 52 Rating, Deduct	*-2,614.36*	
		For Class 54 Rating, Add	*3,583.76*	
		For Class 55 Rating, Add	*5,337.47*	
		For Class 56 Rating, Add	*7,067.42*	
40 05 19 00-3470	EA	24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,000.07	1,033.21
		For Class 52 Rating, Deduct	*-2,687.81*	
		For Class 54 Rating, Add	*3,683.98*	
		For Class 55 Rating, Add	*5,486.49*	
		For Class 56 Rating, Add	*7,264.56*	
40 05 19 00-3471	EA	24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,672.39	1,036.26
		For Class 52 Rating, Deduct	*-2,761.25*	
		For Class 54 Rating, Add	*3,784.19*	
		For Class 55 Rating, Add	*5,635.50*	
		For Class 56 Rating, Add	*7,461.70*	
40 05 19 00-3472	EA	24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,344.74	1,039.32
		For Class 52 Rating, Deduct	*-2,834.70*	
		For Class 54 Rating, Add	*3,884.40*	
		For Class 55 Rating, Add	*5,784.51*	
		For Class 56 Rating, Add	*7,658.85*	
40 05 19 00-3473	EA	24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,017.06	1,042.35
		For Class 52 Rating, Deduct	*-2,908.15*	
		For Class 54 Rating, Add	*3,984.61*	
		For Class 55 Rating, Add	*5,933.52*	
		For Class 56 Rating, Add	*7,855.99*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3474	EA	24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,839.00	1,045.40
		For Class 52 Rating, Deduct	*-3,328.06*	
		For Class 54 Rating, Add	*4,557.27*	
		For Class 55 Rating, Add	*6,784.89*	
		For Class 56 Rating, Add	*8,982.26*	
40 05 19 00-3475	EA	24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,361.73	1,048.45
		For Class 52 Rating, Deduct	*-3,055.05*	
		For Class 54 Rating, Add	*4,185.04*	
		For Class 55 Rating, Add	*6,231.54*	
		For Class 56 Rating, Add	*8,250.27*	
40 05 19 00-3476	EA	24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,034.06	1,051.49
		For Class 52 Rating, Deduct	*-3,128.50*	
		For Class 54 Rating, Add	*4,285.25*	
		For Class 55 Rating, Add	*6,380.55*	
		For Class 56 Rating, Add	*8,447.42*	
40 05 19 00-3477	EA	24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,706.40	1,054.54
		For Class 52 Rating, Deduct	*-3,201.95*	
		For Class 54 Rating, Add	*4,385.46*	
		For Class 55 Rating, Add	*6,529.57*	
		For Class 56 Rating, Add	*8,644.56*	

40 05 19 00-3478 30" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3479	EA	30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,757.68	1,255.71
		For Class 52 Rating, Deduct	*-864.06*	
		For Class 54 Rating, Add	*1,201.10*	
		For Class 55 Rating, Add	*1,797.35*	
		For Class 56 Rating, Add	*2,385.75*	
40 05 19 00-3480	EA	30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,719.77	1,258.75
		For Class 52 Rating, Deduct	*-969.38*	
		For Class 54 Rating, Add	*1,344.77*	
		For Class 55 Rating, Add	*2,010.98*	
		For Class 56 Rating, Add	*2,668.37*	
40 05 19 00-3481	EA	30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,681.88	1,261.80
		For Class 52 Rating, Deduct	*-1,074.71*	
		For Class 54 Rating, Add	*1,488.45*	
		For Class 55 Rating, Add	*2,224.61*	
		For Class 56 Rating, Add	*2,950.99*	
40 05 19 00-3482	EA	30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,643.97	1,264.85
		For Class 52 Rating, Deduct	*-1,180.03*	
		For Class 54 Rating, Add	*1,632.13*	
		For Class 55 Rating, Add	*2,438.24*	
		For Class 56 Rating, Add	*3,233.62*	
40 05 19 00-3483	EA	30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,606.06	1,267.90
		For Class 52 Rating, Deduct	*-1,285.35*	
		For Class 54 Rating, Add	*1,775.81*	
		For Class 55 Rating, Add	*2,651.86*	
		For Class 56 Rating, Add	*3,516.24*	
40 05 19 00-3484	EA	30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,568.16	1,270.93
		For Class 52 Rating, Deduct	*-1,390.67*	
		For Class 54 Rating, Add	*1,919.48*	
		For Class 55 Rating, Add	*2,865.49*	
		For Class 56 Rating, Add	*3,798.86*	
40 05 19 00-3485	EA	30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,530.25	1,273.98
		For Class 52 Rating, Deduct	*-1,496.00*	
		For Class 54 Rating, Add	*2,063.16*	
		For Class 55 Rating, Add	*3,079.12*	
		For Class 56 Rating, Add	*4,081.48*	
40 05 19 00-3486	EA	30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,492.36	1,277.04
		For Class 52 Rating, Deduct	*-1,601.32*	
		For Class 54 Rating, Add	*2,206.84*	
		For Class 55 Rating, Add	*3,292.75*	
		For Class 56 Rating, Add	*4,364.10*	
40 05 19 00-3487	EA	30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,454.45	1,280.08
		For Class 52 Rating, Deduct	*-1,706.64*	
		For Class 54 Rating, Add	*2,350.51*	
		For Class 55 Rating, Add	*3,506.38*	
		For Class 56 Rating, Add	*4,646.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3488	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,416.54	1,283.13
		For Class 52 Rating, Deduct	*-1,811.97*	
		For Class 54 Rating, Add	*2,494.19*	
		For Class 55 Rating, Add	*3,720.01*	
		For Class 56 Rating, Add	*4,929.35*	
40 05 19 00-3489	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,378.65	1,286.18
		For Class 52 Rating, Deduct	*-1,917.29*	
		For Class 54 Rating, Add	*2,637.87*	
		For Class 55 Rating, Add	*3,933.64*	
		For Class 56 Rating, Add	*5,211.97*	
40 05 19 00-3490	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,340.73	1,289.23
		For Class 52 Rating, Deduct	*-2,022.61*	
		For Class 54 Rating, Add	*2,781.54*	
		For Class 55 Rating, Add	*4,147.26*	
		For Class 56 Rating, Add	*5,494.59*	
40 05 19 00-3491	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,302.83	1,292.27
		For Class 52 Rating, Deduct	*-2,127.93*	
		For Class 54 Rating, Add	*2,925.22*	
		For Class 55 Rating, Add	*4,360.89*	
		For Class 56 Rating, Add	*5,777.22*	
40 05 19 00-3492	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,264.93	1,295.32
		For Class 52 Rating, Deduct	*-2,233.26*	
		For Class 54 Rating, Add	*3,068.90*	
		For Class 55 Rating, Add	*4,574.52*	
		For Class 56 Rating, Add	*6,059.84*	
40 05 19 00-3493	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,227.02	1,298.38
		For Class 52 Rating, Deduct	*-2,338.58*	
		For Class 54 Rating, Add	*3,212.58*	
		For Class 55 Rating, Add	*4,788.15*	
		For Class 56 Rating, Add	*6,342.46*	
40 05 19 00-3494	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,189.13	1,301.42
		For Class 52 Rating, Deduct	*-2,443.90*	
		For Class 54 Rating, Add	*3,356.25*	
		For Class 55 Rating, Add	*5,001.78*	
		For Class 56 Rating, Add	*6,625.08*	
40 05 19 00-3495	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,151.22	1,304.47
		For Class 52 Rating, Deduct	*-2,549.22*	
		For Class 54 Rating, Add	*3,499.93*	
		For Class 55 Rating, Add	*5,215.41*	
		For Class 56 Rating, Add	*6,907.71*	
40 05 19 00-3496	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,113.32	1,307.52
		For Class 52 Rating, Deduct	*-2,654.55*	
		For Class 54 Rating, Add	*3,643.61*	
		For Class 55 Rating, Add	*5,429.04*	
		For Class 56 Rating, Add	*7,190.33*	
40 05 19 00-3497	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,075.41	1,310.57
		For Class 52 Rating, Deduct	*-2,759.87*	
		For Class 54 Rating, Add	*3,787.28*	
		For Class 55 Rating, Add	*5,642.66*	
		For Class 56 Rating, Add	*7,472.95*	
40 05 19 00-3498	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,037.51	1,313.60
		For Class 52 Rating, Deduct	*-2,865.19*	
		For Class 54 Rating, Add	*3,930.96*	
		For Class 55 Rating, Add	*5,856.29*	
		For Class 56 Rating, Add	*7,755.57*	
40 05 19 00-3499	EA	30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,999.61	1,316.65
		For Class 52 Rating, Deduct	*-2,970.51*	
		For Class 54 Rating, Add	*4,074.64*	
		For Class 55 Rating, Add	*6,069.92*	
		For Class 56 Rating, Add	*8,038.20*	
40 05 19 00-3500	EA	30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,961.70	1,319.70
		For Class 52 Rating, Deduct	*-3,075.84*	
		For Class 54 Rating, Add	*4,218.32*	
		For Class 55 Rating, Add	*6,283.55*	
		For Class 56 Rating, Add	*8,320.82*	
40 05 19 00-3501	EA	30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,923.80	1,322.74
		For Class 52 Rating, Deduct	*-3,181.16*	
		For Class 54 Rating, Add	*4,361.99*	
		For Class 55 Rating, Add	*6,497.18*	
		For Class 56 Rating, Add	*8,603.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3502	EA	30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,885.90	1,325.80
		For Class 52 Rating, Deduct	*-3,286.48*	
		For Class 54 Rating, Add	*4,505.67*	
		For Class 55 Rating, Add	*6,710.81*	
		For Class 56 Rating, Add	*8,886.06*	
40 05 19 00-3503	EA	30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,847.99	1,328.85
		For Class 52 Rating, Deduct	*-3,391.80*	
		For Class 54 Rating, Add	*4,649.35*	
		For Class 55 Rating, Add	*6,924.43*	
		For Class 56 Rating, Add	*9,168.68*	
40 05 19 00-3504	EA	30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,810.08	1,331.90
		For Class 52 Rating, Deduct	*-3,497.13*	
		For Class 54 Rating, Add	*4,793.03*	
		For Class 55 Rating, Add	*7,138.06*	
		For Class 56 Rating, Add	*9,451.31*	
40 05 19 00-3505	EA	30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,772.18	1,334.94
		For Class 52 Rating, Deduct	*-3,602.45*	
		For Class 54 Rating, Add	*4,936.70*	
		For Class 55 Rating, Add	*7,351.69*	
		For Class 56 Rating, Add	*9,733.93*	
40 05 19 00-3506	EA	30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,734.28	1,337.99
		For Class 52 Rating, Deduct	*-3,707.77*	
		For Class 54 Rating, Add	*5,080.38*	
		For Class 55 Rating, Add	*7,565.32*	
		For Class 56 Rating, Add	*10,016.55*	
40 05 19 00-3507	EA	30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,696.38	1,341.04
		For Class 52 Rating, Deduct	*-3,813.10*	
		For Class 54 Rating, Add	*5,224.06*	
		For Class 55 Rating, Add	*7,778.95*	
		For Class 56 Rating, Add	*10,299.18*	
40 05 19 00-3508	EA	30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,658.48	1,344.10
		For Class 52 Rating, Deduct	*-3,918.42*	
		For Class 54 Rating, Add	*5,367.74*	
		For Class 55 Rating, Add	*7,992.58*	
		For Class 56 Rating, Add	*10,581.80*	
40 05 19 00-3509	EA	30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,620.56	1,347.14
		For Class 52 Rating, Deduct	*-4,023.74*	
		For Class 54 Rating, Add	*5,511.41*	
		For Class 55 Rating, Add	*8,206.20*	
		For Class 56 Rating, Add	*10,864.42*	
40 05 19 00-3510	EA	30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,582.66	1,350.19
		For Class 52 Rating, Deduct	*-4,129.06*	
		For Class 54 Rating, Add	*5,655.09*	
		For Class 55 Rating, Add	*8,419.83*	
		For Class 56 Rating, Add	*11,147.04*	
40 05 19 00-3511	EA	30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,544.76	1,353.24
		For Class 52 Rating, Deduct	*-4,234.39*	
		For Class 54 Rating, Add	*5,798.77*	
		For Class 55 Rating, Add	*8,633.46*	
		For Class 56 Rating, Add	*11,429.66*	
40 05 19 00-3512	EA	30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,506.85	1,356.27
		For Class 52 Rating, Deduct	*-4,339.71*	
		For Class 54 Rating, Add	*5,942.44*	
		For Class 55 Rating, Add	*8,847.09*	
		For Class 56 Rating, Add	*11,712.29*	
40 05 19 00-3513	EA	30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,468.96	1,359.32
		For Class 52 Rating, Deduct	*-4,445.03*	
		For Class 54 Rating, Add	*6,086.12*	
		For Class 55 Rating, Add	*9,060.72*	
		For Class 56 Rating, Add	*11,994.91*	

40 05 19 00-3514 36" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3515	EA	36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,193.21	1,590.96
		For Class 52 Rating, Deduct	*-1,076.09*	
		For Class 54 Rating, Add	*1,496.33*	
		For Class 55 Rating, Add	*2,239.39*	
		For Class 56 Rating, Add	*2,972.66*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3516	EA	36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,482.85	1,594.01
		For Class 52 Rating, Deduct	*-1,217.45*	
		For Class 54 Rating, Add	*1,689.14*	
		For Class 55 Rating, Add	*2,526.06*	
		For Class 56 Rating, Add	*3,351.91*	
40 05 19 00-3517	EA	36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,772.52	1,597.05
		For Class 52 Rating, Deduct	*-1,358.80*	
		For Class 54 Rating, Add	*1,881.95*	
		For Class 55 Rating, Add	*2,812.73*	
		For Class 56 Rating, Add	*3,731.17*	
40 05 19 00-3518	EA	36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,062.17	1,600.10
		For Class 52 Rating, Deduct	*-1,500.15*	
		For Class 54 Rating, Add	*2,074.76*	
		For Class 55 Rating, Add	*3,099.41*	
		For Class 56 Rating, Add	*4,110.42*	
40 05 19 00-3519	EA	36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,351.81	1,603.16
		For Class 52 Rating, Deduct	*-1,641.51*	
		For Class 54 Rating, Add	*2,267.57*	
		For Class 55 Rating, Add	*3,386.08*	
		For Class 56 Rating, Add	*4,489.67*	
40 05 19 00-3520	EA	36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,641.48	1,606.20
		For Class 52 Rating, Deduct	*-1,782.86*	
		For Class 54 Rating, Add	*2,460.38*	
		For Class 55 Rating, Add	*3,672.76*	
		For Class 56 Rating, Add	*4,868.92*	
40 05 19 00-3521	EA	36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,931.13	1,609.25
		For Class 52 Rating, Deduct	*-1,924.22*	
		For Class 54 Rating, Add	*2,653.19*	
		For Class 55 Rating, Add	*3,959.43*	
		For Class 56 Rating, Add	*5,248.18*	
40 05 19 00-3522	EA	36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,220.79	1,612.30
		For Class 52 Rating, Deduct	*-2,065.57*	
		For Class 54 Rating, Add	*2,846.00*	
		For Class 55 Rating, Add	*4,246.11*	
		For Class 56 Rating, Add	*5,627.43*	
40 05 19 00-3523	EA	36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,510.44	1,615.35
		For Class 52 Rating, Deduct	*-2,206.92*	
		For Class 54 Rating, Add	*3,038.81*	
		For Class 55 Rating, Add	*4,532.78*	
		For Class 56 Rating, Add	*6,006.68*	
40 05 19 00-3524	EA	36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,800.09	1,618.39
		For Class 52 Rating, Deduct	*-2,348.28*	
		For Class 54 Rating, Add	*3,231.62*	
		For Class 55 Rating, Add	*4,819.45*	
		For Class 56 Rating, Add	*6,385.93*	
40 05 19 00-3525	EA	36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,089.76	1,621.43
		For Class 52 Rating, Deduct	*-2,489.63*	
		For Class 54 Rating, Add	*3,424.44*	
		For Class 55 Rating, Add	*5,106.13*	
		For Class 56 Rating, Add	*6,765.19*	
40 05 19 00-3526	EA	36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,379.40	1,624.49
		For Class 52 Rating, Deduct	*-2,630.99*	
		For Class 54 Rating, Add	*3,617.25*	
		For Class 55 Rating, Add	*5,392.80*	
		For Class 56 Rating, Add	*7,144.44*	
40 05 19 00-3527	EA	36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,669.06	1,627.53
		For Class 52 Rating, Deduct	*-2,772.34*	
		For Class 54 Rating, Add	*3,810.06*	
		For Class 55 Rating, Add	*5,679.47*	
		For Class 56 Rating, Add	*7,523.69*	
40 05 19 00-3528	EA	36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,958.72	1,630.58
		For Class 52 Rating, Deduct	*-2,913.70*	
		For Class 54 Rating, Add	*4,002.87*	
		For Class 55 Rating, Add	*5,966.15*	
		For Class 56 Rating, Add	*7,902.94*	
40 05 19 00-3529	EA	36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,248.37	1,633.63
		For Class 52 Rating, Deduct	*-3,055.05*	
		For Class 54 Rating, Add	*4,195.68*	
		For Class 55 Rating, Add	*6,252.82*	
		For Class 56 Rating, Add	*8,282.19*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3530	EA	36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,538.03	1,636.68
		For Class 52 Rating, Deduct	*-3,196.40*	
		For Class 54 Rating, Add	*4,388.49*	
		For Class 55 Rating, Add	*6,539.50*	
		For Class 56 Rating, Add	*8,661.45*	
40 05 19 00-3531	EA	36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,827.68	1,639.72
		For Class 52 Rating, Deduct	*-3,337.76*	
		For Class 54 Rating, Add	*4,581.30*	
		For Class 55 Rating, Add	*6,826.17*	
		For Class 56 Rating, Add	*9,040.70*	
40 05 19 00-3532	EA	36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,117.33	1,642.77
		For Class 52 Rating, Deduct	*-3,479.11*	
		For Class 54 Rating, Add	*4,774.11*	
		For Class 55 Rating, Add	*7,112.84*	
		For Class 56 Rating, Add	*9,419.95*	
40 05 19 00-3533	EA	36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,406.99	1,645.82
		For Class 52 Rating, Deduct	*-3,620.47*	
		For Class 54 Rating, Add	*4,966.92*	
		For Class 55 Rating, Add	*7,399.52*	
		For Class 56 Rating, Add	*9,799.20*	
40 05 19 00-3534	EA	36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,696.65	1,648.88
		For Class 52 Rating, Deduct	*-3,761.82*	
		For Class 54 Rating, Add	*5,159.73*	
		For Class 55 Rating, Add	*7,686.19*	
		For Class 56 Rating, Add	*10,178.45*	
40 05 19 00-3535	EA	36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,986.29	1,651.92
		For Class 52 Rating, Deduct	*-3,903.17*	
		For Class 54 Rating, Add	*5,352.54*	
		For Class 55 Rating, Add	*7,972.87*	
		For Class 56 Rating, Add	*10,557.70*	
40 05 19 00-3536	EA	36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,275.95	1,654.97
		For Class 52 Rating, Deduct	*-4,044.53*	
		For Class 54 Rating, Add	*5,545.35*	
		For Class 55 Rating, Add	*8,259.54*	
		For Class 56 Rating, Add	*10,936.96*	
40 05 19 00-3537	EA	36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,565.61	1,658.02
		For Class 52 Rating, Deduct	*-4,185.88*	
		For Class 54 Rating, Add	*5,738.17*	
		For Class 55 Rating, Add	*8,546.22*	
		For Class 56 Rating, Add	*11,316.21*	
40 05 19 00-3538	EA	36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,855.26	1,661.06
		For Class 52 Rating, Deduct	*-4,327.24*	
		For Class 54 Rating, Add	*5,930.98*	
		For Class 55 Rating, Add	*8,832.89*	
		For Class 56 Rating, Add	*11,695.46*	
40 05 19 00-3539	EA	36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,144.92	1,664.11
		For Class 52 Rating, Deduct	*-4,468.59*	
		For Class 54 Rating, Add	*6,123.79*	
		For Class 55 Rating, Add	*9,119.56*	
		For Class 56 Rating, Add	*12,074.71*	
40 05 19 00-3540	EA	36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,434.57	1,667.15
		For Class 52 Rating, Deduct	*-4,609.94*	
		For Class 54 Rating, Add	*6,316.60*	
		For Class 55 Rating, Add	*9,406.24*	
		For Class 56 Rating, Add	*12,453.97*	
40 05 19 00-3541	EA	36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,724.22	1,670.21
		For Class 52 Rating, Deduct	*-4,751.30*	
		For Class 54 Rating, Add	*6,509.41*	
		For Class 55 Rating, Add	*9,692.91*	
		For Class 56 Rating, Add	*12,833.22*	
40 05 19 00-3542	EA	36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,013.88	1,673.24
		For Class 52 Rating, Deduct	*-4,892.65*	
		For Class 54 Rating, Add	*6,702.22*	
		For Class 55 Rating, Add	*9,979.58*	
		For Class 56 Rating, Add	*13,212.47*	
40 05 19 00-3543	EA	36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	48,303.53	1,676.30
		For Class 52 Rating, Deduct	*-5,034.01*	
		For Class 54 Rating, Add	*6,895.03*	
		For Class 55 Rating, Add	*10,266.26*	
		For Class 56 Rating, Add	*13,591.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3544	EA	36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,593.19	1,679.35
		For Class 52 Rating, Deduct	*-5,175.36*	
		For Class 54 Rating, Add	*7,087.84*	
		For Class 55 Rating, Add	*10,552.93*	
		For Class 56 Rating, Add	*13,970.97*	
40 05 19 00-3545	EA	36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	50,882.84	1,682.39
		For Class 52 Rating, Deduct	*-5,316.71*	
		For Class 54 Rating, Add	*7,280.65*	
		For Class 55 Rating, Add	*10,839.61*	
		For Class 56 Rating, Add	*14,350.23*	
40 05 19 00-3546	EA	36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,172.51	1,685.44
		For Class 52 Rating, Deduct	*-5,458.07*	
		For Class 54 Rating, Add	*7,473.46*	
		For Class 55 Rating, Add	*11,126.28*	
		For Class 56 Rating, Add	*14,729.48*	
40 05 19 00-3547	EA	36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	53,462.16	1,688.49
		For Class 52 Rating, Deduct	*-5,599.42*	
		For Class 54 Rating, Add	*7,666.28*	
		For Class 55 Rating, Add	*11,412.96*	
		For Class 56 Rating, Add	*15,108.73*	
40 05 19 00-3548	EA	36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	54,751.80	1,691.54
		For Class 52 Rating, Deduct	*-5,740.78*	
		For Class 54 Rating, Add	*7,859.09*	
		For Class 55 Rating, Add	*11,699.63*	
		For Class 56 Rating, Add	*15,487.98*	
40 05 19 00-3549	EA	36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	56,041.47	1,694.58
		For Class 52 Rating, Deduct	*-5,882.13*	
		For Class 54 Rating, Add	*8,051.90*	
		For Class 55 Rating, Add	*11,986.30*	
		For Class 56 Rating, Add	*15,867.24*	

40 05 19 00-3550 42" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*

40 05 19 00-3551	EA	42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,153.52	2,005.47
		For Class 52 Rating, Deduct	*-1,442.64*	
		For Class 54 Rating, Add	*2,003.70*	
		For Class 55 Rating, Add	*2,997.56*	
		For Class 56 Rating, Add	*3,978.29*	
40 05 19 00-3552	EA	42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,054.19	2,008.51
		For Class 52 Rating, Deduct	*-1,651.21*	
		For Class 54 Rating, Add	*2,288.17*	
		For Class 55 Rating, Add	*3,420.49*	
		For Class 56 Rating, Add	*4,537.80*	
40 05 19 00-3553	EA	42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,939.11	2,011.56
		For Class 52 Rating, Deduct	*-1,858.04*	
		For Class 54 Rating, Add	*2,570.27*	
		For Class 55 Rating, Add	*3,839.91*	
		For Class 56 Rating, Add	*5,092.65*	
40 05 19 00-3554	EA	42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,842.95	2,014.61
		For Class 52 Rating, Deduct	*-2,066.96*	
		For Class 54 Rating, Add	*2,855.21*	
		For Class 55 Rating, Add	*4,263.54*	
		For Class 56 Rating, Add	*5,653.09*	
40 05 19 00-3555	EA	42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,734.17	2,017.66
		For Class 52 Rating, Deduct	*-2,274.48*	
		For Class 54 Rating, Add	*3,138.25*	
		For Class 55 Rating, Add	*4,684.37*	
		For Class 56 Rating, Add	*6,209.80*	
40 05 19 00-3556	EA	42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,644.31	2,020.69
		For Class 52 Rating, Deduct	*-2,484.09*	
		For Class 54 Rating, Add	*3,424.13*	
		For Class 55 Rating, Add	*5,109.41*	
		For Class 56 Rating, Add	*6,772.10*	
40 05 19 00-3557	EA	42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,535.53	2,023.75
		For Class 52 Rating, Deduct	*-2,691.62*	
		For Class 54 Rating, Add	*3,707.18*	
		For Class 55 Rating, Add	*5,530.23*	
		For Class 56 Rating, Add	*7,328.81*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3558	EA	42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,448.80	2,026.80
		For Class 52 Rating, Deduct	*-2,901.57*	
		For Class 54 Rating, Add	*3,993.54*	
		For Class 55 Rating, Add	*5,955.97*	
		For Class 56 Rating, Add	*7,892.03*	
40 05 19 00-3559	EA	42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,343.19	2,029.85
		For Class 52 Rating, Deduct	*-3,109.44*	
		For Class 54 Rating, Add	*4,277.06*	
		For Class 55 Rating, Add	*6,377.50*	
		For Class 56 Rating, Add	*8,449.68*	
40 05 19 00-3560	EA	42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,259.61	2,032.89
		For Class 52 Rating, Deduct	*-3,319.74*	
		For Class 54 Rating, Add	*4,563.88*	
		For Class 55 Rating, Add	*6,803.95*	
		For Class 56 Rating, Add	*9,013.83*	
40 05 19 00-3561	EA	42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,153.99	2,035.94
		For Class 52 Rating, Deduct	*-3,527.62*	
		For Class 54 Rating, Add	*4,847.40*	
		For Class 55 Rating, Add	*7,225.47*	
		For Class 56 Rating, Add	*9,571.47*	
40 05 19 00-3562	EA	42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,070.41	2,038.99
		For Class 52 Rating, Deduct	*-3,737.91*	
		For Class 54 Rating, Add	*5,134.23*	
		For Class 55 Rating, Add	*7,651.91*	
		For Class 56 Rating, Add	*10,135.62*	
40 05 19 00-3563	EA	42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,967.93	2,042.03
		For Class 52 Rating, Deduct	*-3,946.13*	
		For Class 54 Rating, Add	*5,418.22*	
		For Class 55 Rating, Add	*8,074.14*	
		For Class 56 Rating, Add	*10,694.20*	
40 05 19 00-3564	EA	42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,868.62	2,045.08
		For Class 52 Rating, Deduct	*-4,154.70*	
		For Class 54 Rating, Add	*5,702.68*	
		For Class 55 Rating, Add	*8,497.08*	
		For Class 56 Rating, Add	*11,253.70*	
40 05 19 00-3565	EA	42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,781.89	2,048.14
		For Class 52 Rating, Deduct	*-4,364.65*	
		For Class 54 Rating, Add	*5,989.04*	
		For Class 55 Rating, Add	*8,922.82*	
		For Class 56 Rating, Add	*11,816.92*	
40 05 19 00-3566	EA	42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,679.42	2,051.19
		For Class 52 Rating, Deduct	*-4,572.87*	
		For Class 54 Rating, Add	*6,273.03*	
		For Class 55 Rating, Add	*9,345.05*	
		For Class 56 Rating, Add	*12,375.50*	
40 05 19 00-3567	EA	42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	46,599.00	2,054.23
		For Class 52 Rating, Deduct	*-4,783.52*	
		For Class 54 Rating, Add	*6,560.33*	
		For Class 55 Rating, Add	*9,772.20*	
		For Class 56 Rating, Add	*12,940.58*	
40 05 19 00-3568	EA	42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	48,499.67	2,057.28
		For Class 52 Rating, Deduct	*-4,992.08*	
		For Class 54 Rating, Add	*6,844.79*	
		For Class 55 Rating, Add	*10,195.13*	
		For Class 56 Rating, Add	*13,500.08*	
40 05 19 00-3569	EA	42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	50,416.09	2,060.33
		For Class 52 Rating, Deduct	*-5,202.38*	
		For Class 54 Rating, Add	*7,131.62*	
		For Class 55 Rating, Add	*10,621.57*	
		For Class 56 Rating, Add	*14,064.23*	
40 05 19 00-3570	EA	42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,316.77	2,063.36
		For Class 52 Rating, Deduct	*-5,410.95*	
		For Class 54 Rating, Add	*7,416.08*	
		For Class 55 Rating, Add	*11,044.50*	
		For Class 56 Rating, Add	*14,623.73*	
40 05 19 00-3571	EA	42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	54,236.35	2,066.41
		For Class 52 Rating, Deduct	*-5,621.60*	
		For Class 54 Rating, Add	*7,703.38*	
		For Class 55 Rating, Add	*11,471.65*	
		For Class 56 Rating, Add	*15,188.81*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3572	EA	42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	56,137.03	2,069.47
		For Class 52 Rating, Deduct	*-5,830.16*	
		For Class 54 Rating, Add	*7,987.85*	
		For Class 55 Rating, Add	*11,894.58*	
		For Class 56 Rating, Add	*15,748.31*	
40 05 19 00-3573	EA	42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	58,056.61	2,072.52
		For Class 52 Rating, Deduct	*-6,040.81*	
		For Class 54 Rating, Add	*8,275.15*	
		For Class 55 Rating, Add	*12,321.73*	
		For Class 56 Rating, Add	*16,313.39*	
40 05 19 00-3574	EA	42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	59,954.13	2,075.56
		For Class 52 Rating, Deduct	*-6,249.03*	
		For Class 54 Rating, Add	*8,559.14*	
		For Class 55 Rating, Add	*12,743.96*	
		For Class 56 Rating, Add	*16,871.97*	
40 05 19 00-3575	EA	42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	61,876.85	2,078.61
		For Class 52 Rating, Deduct	*-6,460.02*	
		For Class 54 Rating, Add	*8,846.91*	
		For Class 55 Rating, Add	*13,171.80*	
		For Class 56 Rating, Add	*17,437.97*	
40 05 19 00-3576	EA	42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	63,777.53	2,081.66
		For Class 52 Rating, Deduct	*-6,668.59*	
		For Class 54 Rating, Add	*9,131.37*	
		For Class 55 Rating, Add	*13,594.74*	
		For Class 56 Rating, Add	*17,997.48*	
40 05 19 00-3577	EA	42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	65,693.96	2,084.70
		For Class 52 Rating, Deduct	*-6,878.88*	
		For Class 54 Rating, Add	*9,418.20*	
		For Class 55 Rating, Add	*14,021.18*	
		For Class 56 Rating, Add	*18,561.63*	
40 05 19 00-3578	EA	42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	67,597.79	2,087.75
		For Class 52 Rating, Deduct	*-7,087.80*	
		For Class 54 Rating, Add	*9,703.14*	
		For Class 55 Rating, Add	*14,444.82*	
		For Class 56 Rating, Add	*19,122.06*	
40 05 19 00-3579	EA	42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	69,126.80	2,090.80
		For Class 52 Rating, Deduct	*-7,255.48*	
		For Class 54 Rating, Add	*9,931.85*	
		For Class 55 Rating, Add	*14,784.87*	
		For Class 56 Rating, Add	*19,571.93*	
40 05 19 00-3580	EA	42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	71,418.03	2,093.86
		For Class 52 Rating, Deduct	*-7,507.01*	
		For Class 54 Rating, Add	*10,274.90*	
		For Class 55 Rating, Add	*15,294.89*	
		For Class 56 Rating, Add	*20,246.64*	
40 05 19 00-3581	EA	42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	73,315.56	2,096.90
		For Class 52 Rating, Deduct	*-7,715.23*	
		For Class 54 Rating, Add	*10,558.89*	
		For Class 55 Rating, Add	*15,717.12*	
		For Class 56 Rating, Add	*20,805.22*	
40 05 19 00-3582	EA	42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	75,235.13	2,099.95
		For Class 52 Rating, Deduct	*-7,925.87*	
		For Class 54 Rating, Add	*10,846.19*	
		For Class 55 Rating, Add	*16,144.27*	
		For Class 56 Rating, Add	*21,370.30*	
40 05 19 00-3583	EA	42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	77,135.82	2,103.00
		For Class 52 Rating, Deduct	*-8,134.44*	
		For Class 54 Rating, Add	*11,130.66*	
		For Class 55 Rating, Add	*16,567.20*	
		For Class 56 Rating, Add	*21,929.80*	
40 05 19 00-3584	EA	42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	79,058.53	2,106.05
		For Class 52 Rating, Deduct	*-8,345.43*	
		For Class 54 Rating, Add	*11,418.43*	
		For Class 55 Rating, Add	*16,995.05*	
		For Class 56 Rating, Add	*22,495.81*	
40 05 19 00-3585	EA	42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	80,956.06	2,109.08
		For Class 52 Rating, Deduct	*-8,553.65*	
		For Class 54 Rating, Add	*11,702.42*	
		For Class 55 Rating, Add	*17,417.28*	
		For Class 56 Rating, Add	*23,054.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3586		48" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-3082)*		
40 05 19 00-3587	EA	48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,874.09	2,520.54
		For Class 52 Rating, Deduct	*-1,876.06*	
		For Class 54 Rating, Add	*2,604.09*	
		For Class 55 Rating, Add	*3,894.94*	
		For Class 56 Rating, Add	*5,168.73*	
40 05 19 00-3588	EA	48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,606.26	2,523.59
		For Class 52 Rating, Deduct	*-2,176.09*	
		For Class 54 Rating, Add	*3,013.28*	
		For Class 55 Rating, Add	*4,503.30*	
		For Class 56 Rating, Add	*5,973.53*	
40 05 19 00-3589	EA	48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,347.89	2,526.64
		For Class 52 Rating, Deduct	*-2,477.16*	
		For Class 54 Rating, Add	*3,423.89*	
		For Class 55 Rating, Add	*5,113.76*	
		For Class 56 Rating, Add	*6,781.11*	
40 05 19 00-3590	EA	48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,117.85	2,529.69
		For Class 52 Rating, Deduct	*-2,781.35*	
		For Class 54 Rating, Add	*3,838.74*	
		For Class 55 Rating, Add	*5,730.54*	
		For Class 56 Rating, Add	*7,597.06*	
40 05 19 00-3591	EA	48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,881.51	2,532.73
		For Class 52 Rating, Deduct	*-3,084.84*	
		For Class 54 Rating, Add	*4,252.66*	
		For Class 55 Rating, Add	*6,345.92*	
		For Class 56 Rating, Add	*8,411.14*	
40 05 19 00-3592	EA	48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,648.34	2,535.78
		For Class 52 Rating, Deduct	*-3,388.69*	
		For Class 54 Rating, Add	*4,667.04*	
		For Class 55 Rating, Add	*6,962.00*	
		For Class 56 Rating, Add	*9,226.16*	
40 05 19 00-3593	EA	48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,434.04	2,538.84
		For Class 52 Rating, Deduct	*-3,694.61*	
		For Class 54 Rating, Add	*5,084.26*	
		For Class 55 Rating, Add	*7,582.30*	
		For Class 56 Rating, Add	*10,046.74*	
40 05 19 00-3594	EA	48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,213.47	2,541.88
		For Class 52 Rating, Deduct	*-3,999.83*	
		For Class 54 Rating, Add	*5,500.54*	
		For Class 55 Rating, Add	*8,201.19*	
		For Class 56 Rating, Add	*10,865.48*	
40 05 19 00-3595	EA	48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,986.58	2,544.93
		For Class 52 Rating, Deduct	*-4,304.37*	
		For Class 54 Rating, Add	*5,915.87*	
		For Class 55 Rating, Add	*8,818.67*	
		For Class 56 Rating, Add	*11,682.35*	
40 05 19 00-3596	EA	48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,784.89	2,547.98
		For Class 52 Rating, Deduct	*-4,611.68*	
		For Class 54 Rating, Add	*6,334.98*	
		For Class 55 Rating, Add	*9,441.78*	
		For Class 56 Rating, Add	*12,506.66*	
40 05 19 00-3597	EA	48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	48,570.61	2,551.03
		For Class 52 Rating, Deduct	*-4,917.60*	
		For Class 54 Rating, Add	*6,752.20*	
		For Class 55 Rating, Add	*10,062.07*	
		For Class 56 Rating, Add	*13,327.25*	
40 05 19 00-3598	EA	48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	51,372.07	2,554.06
		For Class 52 Rating, Deduct	*-5,225.25*	
		For Class 54 Rating, Add	*7,171.78*	
		For Class 55 Rating, Add	*10,685.88*	
		For Class 56 Rating, Add	*14,152.48*	
40 05 19 00-3599	EA	48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	54,154.64	2,557.11
		For Class 52 Rating, Deduct	*-5,530.82*	
		For Class 54 Rating, Add	*7,588.52*	
		For Class 55 Rating, Add	*11,305.47*	
		For Class 56 Rating, Add	*14,972.14*	
40 05 19 00-3600	EA	48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	56,943.50	2,560.17
		For Class 52 Rating, Deduct	*-5,837.09*	
		For Class 54 Rating, Add	*8,006.22*	
		For Class 55 Rating, Add	*11,926.47*	
		For Class 56 Rating, Add	*15,793.66*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3601	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	59,748.11	2,563.22
		For Class 52 Rating, Deduct	*-6,145.09*	
		For Class 54 Rating, Add	*8,426.27*	
		For Class 55 Rating, Add	*12,550.98*	
		For Class 56 Rating, Add	*16,619.83*	
40 05 19 00-3602	EA	48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	62,536.98	2,566.26
		For Class 52 Rating, Deduct	*-6,451.36*	
		For Class 54 Rating, Add	*8,843.96*	
		For Class 55 Rating, Add	*13,171.98*	
		For Class 56 Rating, Add	*17,441.34*	
40 05 19 00-3603	EA	48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	65,325.84	2,569.31
		For Class 52 Rating, Deduct	*-6,757.62*	
		For Class 54 Rating, Add	*9,261.66*	
		For Class 55 Rating, Add	*13,792.98*	
		For Class 56 Rating, Add	*18,262.86*	
40 05 19 00-3604	EA	48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	68,133.60	2,572.36
		For Class 52 Rating, Deduct	*-7,065.97*	
		For Class 54 Rating, Add	*9,682.18*	
		For Class 55 Rating, Add	*14,418.19*	
		For Class 56 Rating, Add	*19,089.96*	
40 05 19 00-3605	EA	48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	70,925.62	2,575.40
		For Class 52 Rating, Deduct	*-7,372.58*	
		For Class 54 Rating, Add	*10,100.35*	
		For Class 55 Rating, Add	*15,039.89*	
		For Class 56 Rating, Add	*19,912.41*	
40 05 19 00-3606	EA	48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	73,714.48	2,578.45
		For Class 52 Rating, Deduct	*-7,678.85*	
		For Class 54 Rating, Add	*10,518.04*	
		For Class 55 Rating, Add	*15,660.89*	
		For Class 56 Rating, Add	*20,733.92*	
40 05 19 00-3607	EA	48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	76,528.55	2,581.50
		For Class 52 Rating, Deduct	*-7,987.89*	
		For Class 54 Rating, Add	*10,939.51*	
		For Class 55 Rating, Add	*16,287.50*	
		For Class 56 Rating, Add	*21,562.88*	
40 05 19 00-3608	EA	48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	79,323.70	2,584.56
		For Class 52 Rating, Deduct	*-8,294.85*	
		For Class 54 Rating, Add	*11,358.15*	
		For Class 55 Rating, Add	*16,909.91*	
		For Class 56 Rating, Add	*22,386.25*	
40 05 19 00-3609	EA	48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	82,115.72	2,587.60
		For Class 52 Rating, Deduct	*-8,601.46*	
		For Class 54 Rating, Add	*11,776.32*	
		For Class 55 Rating, Add	*17,531.61*	
		For Class 56 Rating, Add	*23,208.70*	
40 05 19 00-3610	EA	48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	84,926.63	2,590.65
		For Class 52 Rating, Deduct	*-8,910.16*	
		For Class 54 Rating, Add	*12,197.31*	
		For Class 55 Rating, Add	*18,157.52*	
		For Class 56 Rating, Add	*24,036.72*	
40 05 19 00-3611	EA	48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	87,721.80	2,593.70
		For Class 52 Rating, Deduct	*-9,217.12*	
		For Class 54 Rating, Add	*12,615.95*	
		For Class 55 Rating, Add	*18,779.92*	
		For Class 56 Rating, Add	*24,860.10*	
40 05 19 00-3612	EA	48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	90,513.80	2,596.73
		For Class 52 Rating, Deduct	*-9,523.73*	
		For Class 54 Rating, Add	*13,034.12*	
		For Class 55 Rating, Add	*19,401.62*	
		For Class 56 Rating, Add	*25,682.55*	
40 05 19 00-3613	EA	48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	93,327.87	2,599.78
		For Class 52 Rating, Deduct	*-9,832.77*	
		For Class 54 Rating, Add	*13,455.59*	
		For Class 55 Rating, Add	*20,028.24*	
		For Class 56 Rating, Add	*26,511.50*	
40 05 19 00-3614	EA	48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	96,123.03	2,602.83
		For Class 52 Rating, Deduct	*-10,139.73*	
		For Class 54 Rating, Add	*13,874.23*	
		For Class 55 Rating, Add	*20,650.64*	
		For Class 56 Rating, Add	*27,334.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3615	EA	48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	98,587.49	2,605.89
		For Class 52 Rating, Deduct	*-10,410.31*	
		For Class 54 Rating, Add	*14,243.26*	
		For Class 55 Rating, Add	*21,199.30*	
		For Class 56 Rating, Add	*28,060.70*	
40 05 19 00-3616	EA	48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	101,735.41	2,608.93
		For Class 52 Rating, Deduct	*-10,756.07*	
		For Class 54 Rating, Add	*14,714.81*	
		For Class 55 Rating, Add	*21,900.36*	
		For Class 56 Rating, Add	*28,988.14*	
40 05 19 00-3617	EA	48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	104,527.42	2,611.98
		For Class 52 Rating, Deduct	*-11,062.69*	
		For Class 54 Rating, Add	*15,132.97*	
		For Class 55 Rating, Add	*22,522.06*	
		For Class 56 Rating, Add	*29,810.59*	
40 05 19 00-3618	EA	48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	107,347.78	2,615.03
		For Class 52 Rating, Deduct	*-11,372.42*	
		For Class 54 Rating, Add	*15,555.39*	
		For Class 55 Rating, Add	*23,150.09*	
		For Class 56 Rating, Add	*30,641.40*	
40 05 19 00-3619	EA	48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	110,139.80	2,618.07
		For Class 52 Rating, Deduct	*-11,679.03*	
		For Class 54 Rating, Add	*15,973.55*	
		For Class 55 Rating, Add	*23,771.79*	
		For Class 56 Rating, Add	*31,463.84*	
40 05 19 00-3620	EA	48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	112,931.81	2,621.12
		For Class 52 Rating, Deduct	*-11,985.65*	
		For Class 54 Rating, Add	*16,391.72*	
		For Class 55 Rating, Add	*24,393.49*	
		For Class 56 Rating, Add	*32,286.29*	
40 05 19 00-3621	EA	48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	115,752.17	2,624.17
		For Class 52 Rating, Deduct	*-12,295.38*	
		For Class 54 Rating, Add	*16,814.13*	
		For Class 55 Rating, Add	*25,021.51*	
		For Class 56 Rating, Add	*33,117.10*	

40 05 19 00-3622 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows *(40 05 19 00-2073)*

40 05 19 00-3623	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	822.41	147.05
40 05 19 00-3624	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,203.65	188.04
40 05 19 00-3625	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,716.78	212.99
40 05 19 00-3626	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,451.52	270.03
40 05 19 00-3627	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,053.71	299.43
40 05 19 00-3628	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,744.55	325.28
40 05 19 00-3629	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	4,598.35	401.03
40 05 19 00-3630	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	5,767.94	481.24
40 05 19 00-3631	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	7,050.40	606.00
40 05 19 00-3632	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	10,485.78	686.20
40 05 19 00-3633	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	16,270.28	908.99
40 05 19 00-3634	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	24,121.62	1,029.31
40 05 19 00-3635	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	41,157.21	1,176.35
40 05 19 00-3636	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	54,444.82	1,443.70

40 05 19 00-3637 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbows *(40 05 19 00-2073)*

40 05 19 00-3638	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	783.78	147.05
40 05 19 00-3639	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,139.83	188.04
40 05 19 00-3640	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,558.90	212.99
40 05 19 00-3641	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,226.46	270.03
40 05 19 00-3642	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,763.14	299.43
40 05 19 00-3643	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,218.83	325.28
40 05 19 00-3644	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,956.74	401.03
40 05 19 00-3645	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	5,035.63	481.24
40 05 19 00-3646	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	6,333.21	606.00
40 05 19 00-3647	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	8,314.06	686.20
40 05 19 00-3648	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	15,885.65	908.99
40 05 19 00-3649	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	23,607.66	1,029.31
40 05 19 00-3650	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	35,685.08	1,176.35
40 05 19 00-3651	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	48,252.14	1,443.70

40 05 19 00-3652 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows *(40 05 19 00-2073)*

40 05 19 00-3653	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	782.10	147.05

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3654	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,117.99	188.04
40 05 19 00-3655	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,545.46	212.99
40 05 19 00-3656	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,174.39	270.03
40 05 19 00-3657	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,879.03	299.43
40 05 19 00-3658	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,573.23	325.28
40 05 19 00-3659	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,037.36	401.03
40 05 19 00-3660	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	5,133.05	481.24
40 05 19 00-3661	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	6,751.43	606.00
40 05 19 00-3662	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,279.83	686.20
40 05 19 00-3663	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	16,056.97	908.99
40 05 19 00-3664	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	23,999.01	1,029.31
40 05 19 00-3665	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	36,466.09	1,176.35
40 05 19 00-3666	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	49,273.34	1,443.70
40 05 19 00-3667		**Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows** *(40 05 19 00-2073)*		
40 05 19 00-3668	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	847.60	147.05
40 05 19 00-3669	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,240.60	188.04
40 05 19 00-3670	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,595.85	212.99
40 05 19 00-3671	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,354.11	270.03
40 05 19 00-3672	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,213.27	299.43
40 05 19 00-3673	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,658.89	325.28
40 05 19 00-3674	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,398.48	401.03
40 05 19 00-3675	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,133.05	481.24
40 05 19 00-3676	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	6,751.43	606.00
40 05 19 00-3677	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,622.47	686.20
40 05 19 00-3678	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	16,224.93	908.99
40 05 19 00-3679	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	24,170.33	1,029.31
40 05 19 00-3680	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	36,645.81	1,176.35
40 05 19 00-3681	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	49,636.13	1,443.70
40 05 19 00-3682		**Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows** *(40 05 19 00-2073)*		
40 05 19 00-3683	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,170.91	167.54
40 05 19 00-3684	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,508.95	180.02
40 05 19 00-3685	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,639.09	200.52
40 05 19 00-3686	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,249.18	208.54
40 05 19 00-3687	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,292.00	229.04
40 05 19 00-3688	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,460.38	241.51
40 05 19 00-3689	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,686.14	244.18
40 05 19 00-3690	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,998.97	256.66
40 05 19 00-3691	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,141.28	285.18
40 05 19 00-3692	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,126.62	256.66
40 05 19 00-3693	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,390.75	269.14
40 05 19 00-3694	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,675.82	297.65
40 05 19 00-3695	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,994.38	312.80
40 05 19 00-3696	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,598.87	294.54
40 05 19 00-3697	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,814.28	307.00
40 05 19 00-3698	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,247.16	335.52
40 05 19 00-3699	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,566.74	350.23
40 05 19 00-3700	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,828.18	363.16
40 05 19 00-3701	EA	18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,178.63	334.64
40 05 19 00-3702	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,835.78	347.12
40 05 19 00-3703	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,924.34	375.63
40 05 19 00-3704	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,143.13	390.33
40 05 19 00-3705	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,505.34	403.26
40 05 19 00-3706	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,902.01	441.14
40 05 19 00-3707	EA	20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,223.80	397.01
40 05 19 00-3708	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,508.08	409.49
40 05 19 00-3709	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,604.41	438.01
40 05 19 00-3710	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,804.71	452.72
40 05 19 00-3711	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,413.84	465.63
40 05 19 00-3712	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,229.36	503.51
40 05 19 00-3713	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,604.21	543.61
40 05 19 00-3714	EA	24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,221.15	437.12
40 05 19 00-3715	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,500.39	449.59
40 05 19 00-3716	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,966.86	478.11
40 05 19 00-3717	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,304.90	492.82
40 05 19 00-3718	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,956.00	505.75
40 05 19 00-3719	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,540.78	543.61
40 05 19 00-3720	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,705.68	583.72
40 05 19 00-3721	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,167.86	577.27
40 05 19 00-3722	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,266.22	604.21
40 05 19 00-3723	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,964.35	617.14
40 05 19 00-3724	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,676.15	655.01
40 05 19 00-3725	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,522.32	695.12
40 05 19 00-3726	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	22,109.13	757.50
40 05 19 00-3727	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,627.79	797.60

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3728	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	21,367.19	817.65
40 05 19 00-3729	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,342.70	857.76
40 05 19 00-3730	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	24,472.21	969.16
40 05 19 00-3731	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	31,672.08	891.18
40 05 19 00-3732	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	32,439.96	931.28
40 05 19 00-3733	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	32,413.91	1,042.68
40 05 19 00-3734	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	46,245.85	1,102.83
40 05 19 00-3735	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	44,235.18	1,076.09
40 05 19 00-3736	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	48,085.65	1,187.49
40 05 19 00-3737	EA	48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	49,461.68	1,247.64
40 05 19 00-3738	EA	48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	61,353.80	1,321.17

40 05 19 00-3739 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows *(40 05 19 00-2073)*

40 05 19 00-3740	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	965.17	147.05
40 05 19 00-3741	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,516.06	188.04
40 05 19 00-3742	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,247.53	212.99
40 05 19 00-3743	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,136.80	270.03
40 05 19 00-3744	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,383.95	299.43
40 05 19 00-3745	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	5,138.61	325.28
40 05 19 00-3746	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,548.37	401.03
40 05 19 00-3747	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	8,015.24	481.24
40 05 19 00-3748	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	10,700.17	606.00
40 05 19 00-3749	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	15,595.12	686.20
40 05 19 00-3750	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	26,994.53	908.99
40 05 19 00-3751	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	40,855.47	1,029.31
40 05 19 00-3752	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	62,924.83	1,176.35

40 05 19 00-3753 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbows *(40 05 19 00-2073)*

40 05 19 00-3754	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	2,016.24	167.54
40 05 19 00-3755	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,399.70	180.02
40 05 19 00-3756	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,208.67	200.52
40 05 19 00-3757	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,594.08	208.54
40 05 19 00-3758	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,971.95	229.04
40 05 19 00-3759	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	4,108.99	241.51
40 05 19 00-3760	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	8,304.03	244.18
40 05 19 00-3761	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	6,373.42	256.66
40 05 19 00-3762	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	6,416.64	285.18
40 05 19 00-3763	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	8,537.44	269.14
40 05 19 00-3764	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	12,146.06	297.65
40 05 19 00-3765	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	11,876.65	312.80
40 05 19 00-3766	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	15,658.56	307.00
40 05 19 00-3767	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	15,556.25	335.52
40 05 19 00-3768	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	14,515.43	350.23
40 05 19 00-3769	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	14,403.67	363.16
40 05 19 00-3770	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	21,330.91	390.33
40 05 19 00-3771	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	19,434.05	403.26
40 05 19 00-3772	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	17,575.03	441.14
40 05 19 00-3773	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	28,676.01	465.63
40 05 19 00-3774	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	24,139.37	503.51
40 05 19 00-3775	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	19,606.10	543.61
40 05 19 00-3776	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	35,967.77	505.75
40 05 19 00-3777	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	28,753.52	543.61
40 05 19 00-3778	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	21,542.64	583.72

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3779	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	29,427.23	577.27

40 05 19 00-3780 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base *(40 05 19 00-2073)*

40 05 19 00-3781	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,012.20	147.05
40 05 19 00-3782	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,423.68	188.04
40 05 19 00-3783	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,309.68	212.99
40 05 19 00-3784	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,089.77	270.03
40 05 19 00-3785	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,126.98	299.43
40 05 19 00-3786	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,891.71	325.28
40 05 19 00-3787	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,962.18	401.03
40 05 19 00-3788	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,383.72	481.24
40 05 19 00-3789	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	9,539.57	606.00
40 05 19 00-3790	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	13,384.77	686.20
40 05 19 00-3791	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	21,581.18	908.99
40 05 19 00-3792	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	30,709.01	1,029.31
40 05 19 00-3793	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	54,034.71	1,176.35
40 05 19 00-3794	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	60,637.51	1,443.70

40 05 19 00-3795 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees *(40 05 19 00-2073)*

40 05 19 00-3796	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	1,246.33	236.16
40 05 19 00-3797	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	1,612.55	290.53
40 05 19 00-3798	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	2,325.61	324.39
40 05 19 00-3799	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	3,287.40	421.52
40 05 19 00-3800	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	4,391.86	459.85
40 05 19 00-3801	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	5,880.57	494.60
40 05 19 00-3802	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	6,360.22	623.83
40 05 19 00-3803	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	7,896.03	712.94
40 05 19 00-3804	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	9,933.09	900.09
40 05 19 00-3805	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	14,621.54	993.66
40 05 19 00-3806	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	24,020.02	1,372.40
40 05 19 00-3807	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	33,942.89	1,572.92
40 05 19 00-3808	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	72,496.57	1,818.00

40 05 19 00-3809 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tees *(40 05 19 00-2073)*

40 05 19 00-3810	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	1,657.69	263.79
40 05 19 00-3811	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,146.17	269.14
40 05 19 00-3812	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,113.50	302.99
40 05 19 00-3813	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,856.18	297.65
40 05 19 00-3814	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,784.87	331.51
40 05 19 00-3815	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,902.94	352.90
40 05 19 00-3816	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,643.35	312.80
40 05 19 00-3817	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,600.60	346.67
40 05 19 00-3818	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,757.29	368.05
40 05 19 00-3819	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	4,333.24	436.68
40 05 19 00-3820	EA	14" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,212.52	325.28
40 05 19 00-3821	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,089.16	359.15
40 05 19 00-3822	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,269.37	380.53
40 05 19 00-3823	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,470.76	449.16
40 05 19 00-3824	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,751.76	472.77
40 05 19 00-3825	EA	16" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,289.43	363.16
40 05 19 00-3826	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,294.34	397.01
40 05 19 00-3827	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,415.77	418.41
40 05 19 00-3828	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,537.58	487.02
40 05 19 00-3829	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,854.49	510.64
40 05 19 00-3830	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,991.07	532.48
40 05 19 00-3831	EA	18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,912.74	437.12
40 05 19 00-3832	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,961.30	458.51
40 05 19 00-3833	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,915.79	527.13
40 05 19 00-3834	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,536.71	550.75
40 05 19 00-3835	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,056.23	572.58
40 05 19 00-3836	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,488.57	663.93
40 05 19 00-3837	EA	20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,432.59	499.50
40 05 19 00-3838	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,569.14	520.89
40 05 19 00-3839	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,832.67	589.51
40 05 19 00-3840	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,132.15	613.13
40 05 19 00-3841	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,217.29	634.96
40 05 19 00-3842	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,882.45	726.30
40 05 19 00-3843	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,060.86	775.32
40 05 19 00-3844	EA	24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,742.98	539.60
40 05 19 00-3845	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,121.38	560.99
40 05 19 00-3846	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,418.51	629.61
40 05 19 00-3847	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,546.03	653.23
40 05 19 00-3848	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,789.07	675.07

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3849	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	12,066.87	766.41
40 05 19 00-3850	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	15,579.27	815.42
40 05 19 00-3851	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	16,036.88	871.35
40 05 19 00-3852	EA	30" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,275.53	651.00
40 05 19 00-3853	EA	30" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,363.37	672.40
40 05 19 00-3854	EA	30" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,806.62	741.01
40 05 19 00-3855	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,842.40	764.63
40 05 19 00-3856	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,875.48	786.47
40 05 19 00-3857	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	20,013.88	877.81
40 05 19 00-3858	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	20,647.45	926.82
40 05 19 00-3859	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	21,654.45	1,051.58
40 05 19 00-3860	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	26,387.96	1,105.05
40 05 19 00-3861	EA	36" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,687.36	931.72
40 05 19 00-3862	EA	36" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,938.09	948.66
40 05 19 00-3863	EA	36" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,067.11	997.23
40 05 19 00-3864	EA	36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,265.78	1,016.38
40 05 19 00-3865	EA	36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,349.21	1,033.77
40 05 19 00-3866	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,557.97	1,098.37
40 05 19 00-3867	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,684.26	1,142.93
40 05 19 00-3868	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	29,049.42	1,236.51
40 05 19 00-3869	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	29,630.91	1,283.29
40 05 19 00-3870	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	38,312.48	1,472.67
40 05 19 00-3871	EA	42" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,057.78	898.30
40 05 19 00-3872	EA	42" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,153.00	920.14
40 05 19 00-3873	EA	42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,408.98	1,011.48
40 05 19 00-3874	EA	42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,543.70	1,060.50
40 05 19 00-3875	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,972.92	1,185.26
40 05 19 00-3876	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	43,535.99	1,238.73
40 05 19 00-3877	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	54,524.23	1,506.09
40 05 19 00-3878	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	69,589.60	1,646.44
40 05 19 00-3879	EA	48" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,484.92	1,043.12
40 05 19 00-3880	EA	48" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,518.01	1,064.95
40 05 19 00-3881	EA	48" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,834.45	1,156.30
40 05 19 00-3882	EA	48" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,908.71	1,205.32
40 05 19 00-3883	EA	48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	57,337.93	1,330.08
40 05 19 00-3884	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	57,842.20	1,383.55
40 05 19 00-3885	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	59,088.76	1,650.90

40 05 19 00-3886 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees With Base *(40 05 19 00-2073)*

40 05 19 00-3887	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,343.75	236.16
40 05 19 00-3888	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,896.40	290.53
40 05 19 00-3889	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	2,805.98	324.39
40 05 19 00-3890	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	4,197.74	421.52
40 05 19 00-3891	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	5,654.92	459.85
40 05 19 00-3892	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	6,372.69	494.60
40 05 19 00-3893	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	7,811.39	623.83
40 05 19 00-3894	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	9,439.58	712.94
40 05 19 00-3895	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	12,407.14	900.09
40 05 19 00-3896	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	17,849.73	993.66
40 05 19 00-3897	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	29,555.99	1,372.40
40 05 19 00-3898	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	42,072.16	1,572.92

40 05 19 00-3899 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wyes *(40 05 19 00-2073)*

40 05 19 00-3900	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,100.20	236.16
40 05 19 00-3901	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,600.79	290.53
40 05 19 00-3902	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	2,364.24	324.39
40 05 19 00-3903	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	3,116.08	421.52
40 05 19 00-3904	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	4,704.27	459.85
40 05 19 00-3905	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	6,293.75	494.60

40 05 19 00-3906 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Crosses *(40 05 19 00-2073)*

40 05 19 00-3907	EA	4" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,414.94	325.28
40 05 19 00-3908	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,986.88	352.46
40 05 19 00-3909	EA	6" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,065.12	393.00
40 05 19 00-3910	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,561.69	358.25
40 05 19 00-3911	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,734.03	405.48
40 05 19 00-3912	EA	8" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,795.05	435.79
40 05 19 00-3913	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,362.40	386.77
40 05 19 00-3914	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,630.47	434.00
40 05 19 00-3915	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,921.59	464.30
40 05 19 00-3916	EA	10" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,719.54	573.02
40 05 19 00-3917	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,392.43	401.47
40 05 19 00-3918	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,561.42	448.71
40 05 19 00-3919	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,852.55	479.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3920	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,700.87	587.73
40 05 19 00-3921	EA	12" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,350.41	620.25
40 05 19 00-3922	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,489.66	461.62
40 05 19 00-3923	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,780.79	491.93
40 05 19 00-3924	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,284.80	600.65
40 05 19 00-3925	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,777.49	633.18
40 05 19 00-3926	EA	14" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,065.95	663.93
40 05 19 00-3927	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,549.76	499.50
40 05 19 00-3928	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,887.92	529.81
40 05 19 00-3929	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,393.62	638.53
40 05 19 00-3930	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,933.34	671.05
40 05 19 00-3931	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,867.16	701.80
40 05 19 00-3932	EA	16" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,787.20	846.62
40 05 19 00-3933	EA	18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,884.31	539.60
40 05 19 00-3934	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,222.47	569.91
40 05 19 00-3935	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,630.74	678.63
40 05 19 00-3936	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,170.46	711.16
40 05 19 00-3937	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,290.32	741.91
40 05 19 00-3938	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,951.47	886.72
40 05 19 00-3939	EA	18" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,329.80	944.65
40 05 19 00-3940	EA	20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,851.57	601.99
40 05 19 00-3941	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,213.24	632.28
40 05 19 00-3942	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,587.93	741.01
40 05 19 00-3943	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,162.93	773.54
40 05 19 00-3944	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,317.00	804.28
40 05 19 00-3945	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,325.20	949.11
40 05 19 00-3946	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,727.04	1,007.02
40 05 19 00-3947	EA	20" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,747.95	1,194.17
40 05 19 00-3948	EA	24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,687.04	642.09
40 05 19 00-3949	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,946.26	672.40
40 05 19 00-3950	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,477.13	781.12
40 05 19 00-3951	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,842.19	813.64
40 05 19 00-3952	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,046.66	844.38
40 05 19 00-3953	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,633.91	989.21
40 05 19 00-3954	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	17,458.78	1,047.13
40 05 19 00-3955	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	18,319.95	1,165.44
40 05 19 00-3956	EA	24" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	19,998.54	1,301.12
40 05 19 00-3957	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	20,930.28	925.03
40 05 19 00-3958	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,032.30	955.79
40 05 19 00-3959	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,644.74	1,100.60
40 05 19 00-3960	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,848.39	1,158.53
40 05 19 00-3961	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	22,750.05	1,345.67
40 05 19 00-3962	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,334.57	1,412.52
40 05 19 00-3963	EA	30" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	32,849.75	1,835.82
40 05 19 00-3964	EA	36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,294.87	1,176.80
40 05 19 00-3965	EA	36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,334.71	1,203.08
40 05 19 00-3966	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,856.26	1,321.17
40 05 19 00-3967	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,048.12	1,374.64
40 05 19 00-3968	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,791.66	1,530.60
40 05 19 00-3969	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	31,784.74	1,590.75
40 05 19 00-3970	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	42,397.33	1,936.08
40 05 19 00-3971	EA	36" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	46,280.22	2,116.54
40 05 19 00-3972	EA	42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,584.67	1,234.27
40 05 19 00-3973	EA	42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,734.57	1,292.20
40 05 19 00-3974	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	44,592.55	1,479.35
40 05 19 00-3975	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	45,651.20	1,546.19
40 05 19 00-3976	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	58,792.16	1,969.50
40 05 19 00-3977	EA	42" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	79,973.54	2,190.06
40 05 19 00-3978	EA	48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	59,352.27	1,624.17
40 05 19 00-3979	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	60,410.91	1,691.00
40 05 19 00-3980	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	62,775.55	2,114.31

40 05 19 00-3981 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducers *(40 05 19 00-2073)*

40 05 19 00-3982	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,004.63	167.54
40 05 19 00-3983	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,334.27	180.02
40 05 19 00-3984	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,419.06	200.52
40 05 19 00-3985	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,777.21	208.54
40 05 19 00-3986	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,771.32	229.04
40 05 19 00-3987	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,988.41	241.51
40 05 19 00-3988	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,265.42	223.69
40 05 19 00-3989	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,301.51	244.18
40 05 19 00-3990	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,463.18	256.66
40 05 19 00-3991	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,677.72	285.18
40 05 19 00-3992	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,785.66	256.66
40 05 19 00-3993	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,001.08	269.14
40 05 19 00-3994	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,212.25	297.65
40 05 19 00-3995	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,120.99	312.80
40 05 19 00-3996	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,308.30	294.54
40 05 19 00-3997	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,155.88	307.00

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3998	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,409.04	335.52
40 05 19 00-3999	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,814.28	350.23
40 05 19 00-4000	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,289.03	363.16
40 05 19 00-4001	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,002.70	347.12
40 05 19 00-4002	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,291.13	375.63
40 05 19 00-4003	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,251.26	390.33
40 05 19 00-4004	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,771.36	403.26
40 05 19 00-4005	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,726.29	441.14
40 05 19 00-4006	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,876.55	409.49
40 05 19 00-4007	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,181.78	438.01
40 05 19 00-4008	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,059.61	452.72
40 05 19 00-4009	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,698.97	465.63
40 05 19 00-4010	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,365.00	503.51
40 05 19 00-4011	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,398.25	543.61
40 05 19 00-4012	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,056.51	478.11
40 05 19 00-4013	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,624.66	492.82
40 05 19 00-4014	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,785.32	505.75
40 05 19 00-4015	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,969.32	543.61
40 05 19 00-4016	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,178.92	583.72
40 05 19 00-4017	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,589.03	577.27
40 05 19 00-4018	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	11,667.99	655.01
40 05 19 00-4019	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,069.70	695.12
40 05 19 00-4020	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,841.10	757.50
40 05 19 00-4021	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	14,027.20	797.60
40 05 19 00-4022	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,515.75	715.17
40 05 19 00-4023	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,754.55	755.27
40 05 19 00-4024	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	17,793.00	817.65
40 05 19 00-4025	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,722.12	857.76
40 05 19 00-4026	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	21,262.50	969.16
40 05 19 00-4027	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	25,931.51	931.28
40 05 19 00-4028	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	28,987.52	1,042.68
40 05 19 00-4029	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	32,505.05	1,102.83
40 05 19 00-4030	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	34,337.30	1,076.09
40 05 19 00-4031	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	36,377.16	1,187.49
40 05 19 00-4032	EA	48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	40,376.72	1,247.64
40 05 19 00-4033	EA	48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	44,939.06	1,321.17

40 05 19 00-4034 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducers *(40 05 19 00-2073)*

40 05 19 00-4035	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,073.49	167.54
40 05 19 00-4036	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,413.21	180.02
40 05 19 00-4037	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,540.00	200.52
40 05 19 00-4038	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,777.21	208.54
40 05 19 00-4039	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,855.30	229.04
40 05 19 00-4040	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,069.03	241.51
40 05 19 00-4041	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,265.42	223.69
40 05 19 00-4042	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,395.57	244.18
40 05 19 00-4043	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,560.59	256.66
40 05 19 00-4044	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,847.35	285.18
40 05 19 00-4045	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,785.66	256.66
40 05 19 00-4046	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,950.69	269.14
40 05 19 00-4047	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,188.74	297.65
40 05 19 00-4048	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,554.33	312.80
40 05 19 00-4049	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,308.30	294.54
40 05 19 00-4050	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,520.35	307.00
40 05 19 00-4051	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,810.46	335.52
40 05 19 00-4052	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,125.00	350.23
40 05 19 00-4053	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,289.03	363.16
40 05 19 00-4054	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,002.70	347.12
40 05 19 00-4055	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,291.13	375.63
40 05 19 00-4056	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,603.97	390.33
40 05 19 00-4057	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,771.36	403.26
40 05 19 00-4058	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,121.00	441.14
40 05 19 00-4059	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,138.56	409.49
40 05 19 00-4060	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,366.54	438.01
40 05 19 00-4061	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,573.57	452.72
40 05 19 00-4062	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,698.97	465.63
40 05 19 00-4063	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,122.50	503.51
40 05 19 00-4064	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,393.21	543.61
40 05 19 00-4065	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,245.09	449.59
40 05 19 00-4066	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,177.44	478.11
40 05 19 00-4067	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,305.54	492.82
40 05 19 00-4068	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,429.24	505.75
40 05 19 00-4069	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,854.47	543.61
40 05 19 00-4070	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,178.92	583.72
40 05 19 00-4071	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,589.03	577.27
40 05 19 00-4072	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,393.68	617.14
40 05 19 00-4073	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,418.13	655.01
40 05 19 00-4074	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,125.12	695.12
40 05 19 00-4075	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,841.10	757.50

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4076	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,027.20	797.60
40 05 19 00-4077	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	15,534.87	715.17
40 05 19 00-4078	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	16,176.77	755.27
40 05 19 00-4079	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	17,116.12	817.65
40 05 19 00-4080	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	18,663.33	857.76
40 05 19 00-4081	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	21,559.79	969.16
40 05 19 00-4082	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	25,931.51	931.28
40 05 19 00-4083	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	28,987.52	1,042.68
40 05 19 00-4084	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	32,505.05	1,102.83
40 05 19 00-4085	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	36,377.16	1,187.49
40 05 19 00-4086	EA	48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	40,376.72	1,247.64
40 05 19 00-4087	EA	48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	44,939.06	1,321.17

40 05 19 00-4088 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flanges *(40 05 19 00-2073)*

40 05 19 00-4089	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	495.91	57.93
40 05 19 00-4090	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	754.43	85.55
40 05 19 00-4091	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	1,007.17	101.59
40 05 19 00-4092	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	1,464.47	118.53
40 05 19 00-4093	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	1,940.63	139.03
40 05 19 00-4094	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	2,673.40	155.96
40 05 19 00-4095	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	3,229.51	178.23
40 05 19 00-4096	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	4,346.96	249.53
40 05 19 00-4097	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	5,835.55	311.91
40 05 19 00-4098	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	8,553.64	378.75
40 05 19 00-4099	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	12,397.03	441.14
40 05 19 00-4100	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	23,242.54	485.69
40 05 19 00-4101	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	33,323.86	534.70
40 05 19 00-4102	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange	44,423.15	601.54

40 05 19 00-4103 Ductile Iron Bolt Packs *(40 05 19)*

Note: Labor installation is included with pipe fittings or valves.

40 05 19 00-4104	EA	4" Pipe Diameter, Ductile Iron Flange Bolt Pack	45.55
		Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*12.75*
		For Hot Dip Galvanized, Add	*18.22*
40 05 19 00-4105	EA	6" Pipe Diameter, Ductile Iron Flange Bolt Pack	70.28
		Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*19.68*
		For Hot Dip Galvanized, Add	*28.11*
40 05 19 00-4106	EA	8" Pipe Diameter, Ductile Iron Flange Bolt Pack	76.32
		Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*21.37*
		For Hot Dip Galvanized, Add	*30.53*
40 05 19 00-4107	EA	10" Pipe Diameter, Ductile Iron Flange Bolt Pack	171.43
		Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*48.00*
		For Hot Dip Galvanized, Add	*68.57*
40 05 19 00-4108	EA	12" Pipe Diameter, Ductile Iron Flange Bolt Pack	172.93
		Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*48.42*
		For Hot Dip Galvanized, Add	*69.17*
40 05 19 00-4109	EA	14" Pipe Diameter, Ductile Iron Flange Bolt Pack	193.75
		Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*54.25*
		For Hot Dip Galvanized, Add	*77.50*
40 05 19 00-4110	EA	16" Pipe Diameter, Ductile Iron Flange Bolt Pack	325.71
		Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*91.20*
		For Hot Dip Galvanized, Add	*130.28*
40 05 19 00-4111	EA	18" Pipe Diameter, Ductile Iron Flange Bolt Pack	473.18
		Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*132.49*
		For Hot Dip Galvanized, Add	*189.27*
40 05 19 00-4112	EA	20" Pipe Diameter, Ductile Iron Flange Bolt Pack	597.45
		Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*167.29*
		For Hot Dip Galvanized, Add	*238.98*
40 05 19 00-4113	EA	24" Pipe Diameter, Ductile Iron Flange Bolt Pack	854.84
		Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*239.36*
		For Hot Dip Galvanized, Add	*341.94*
40 05 19 00-4114	EA	30" Pipe Diameter, Ductile Iron Flange Bolt Pack	1,350.78
		Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*378.22*
		For Hot Dip Galvanized, Add	*540.31*
40 05 19 00-4115	EA	36" Pipe Diameter, Ductile Iron Flange Bolt Pack	1,926.91
		Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.	
		For Zinc Plated, Add	*539.53*
		For Hot Dip Galvanized, Add	*770.76*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4116	EA	42" Pipe Diameter, Ductile Iron Flange Bolt Pack Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.	2,478.92	
		For Zinc Plated, Add	*694.10*	
		For Hot Dip Galvanized, Add	*991.57*	
40 05 19 00-4117	EA	48" Pipe Diameter, Ductile Iron Flange Bolt Pack Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.	3,029.78	
		For Zinc Plated, Add	*848.34*	
		For Hot Dip Galvanized, Add	*1,211.91*	

40 05 19 00-4118 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 *(40 05 19)*

Note: Labor installation is included with pipe fittings or valves.

40 05 19 00-4119 Full Face Flange Styrene Butadiene (SBR) Gaskets *(40 05 19 00-4118)*

40 05 19 00-4120	EA	4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	8.24
40 05 19 00-4121	EA	6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	10.48
40 05 19 00-4122	EA	8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	14.23
40 05 19 00-4123	EA	10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	16.47
40 05 19 00-4124	EA	12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	17.97
40 05 19 00-4125	EA	14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	29.95
40 05 19 00-4126	EA	16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	36.69
40 05 19 00-4127	EA	18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	38.94
40 05 19 00-4128	EA	20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	59.90
40 05 19 00-4129	EA	24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	64.40
40 05 19 00-4130	EA	30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	83.12
40 05 19 00-4131	EA	36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	95.10
40 05 19 00-4132	EA	42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	101.84
40 05 19 00-4133	EA	48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	111.57

40 05 19 00-4134 Full Face Flange Nitrile Buna-N (NBR) Gaskets *(40 05 19 00-4118)*

Note: (Acrylonitrile Butadiene)

40 05 19 00-4135	EA	4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	25.46
40 05 19 00-4136	EA	6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	35.94
40 05 19 00-4137	EA	8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	55.41
40 05 19 00-4138	EA	10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	60.65
40 05 19 00-4139	EA	12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	65.15
40 05 19 00-4140	EA	14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	122.80
40 05 19 00-4141	EA	16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	151.26
40 05 19 00-4142	EA	18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	152.01
40 05 19 00-4143	EA	20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	158.00
40 05 19 00-4144	EA	24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	166.98
40 05 19 00-4145	EA	30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	184.95
40 05 19 00-4146	EA	36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	203.67
40 05 19 00-4147	EA	42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	289.79
40 05 19 00-4148	EA	48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	316.74

40 05 19 00-4149 Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets *(40 05 19 00-4118)*

40 05 19 00-4150	EA	4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	22.46
40 05 19 00-4151	EA	6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	29.20
40 05 19 00-4152	EA	8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	39.69
40 05 19 00-4153	EA	10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	46.43
40 05 19 00-4154	EA	12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	51.67
40 05 19 00-4155	EA	14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	85.36
40 05 19 00-4156	EA	16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	102.59
40 05 19 00-4157	EA	18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	103.33
40 05 19 00-4158	EA	20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	105.58
40 05 19 00-4159	EA	24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	122.80
40 05 19 00-4160	EA	30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	150.51
40 05 19 00-4161	EA	36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	171.48
40 05 19 00-4162	EA	42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	245.61
40 05 19 00-4163	EA	48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	271.07

40 05 19 00-4164 Full Face Flange Neoprene Gaskets *(40 05 19 00-4118)*

Note: (Polychloroprene)

40 05 19 00-4165	EA	4" Full Face Flange Neoprene Gasket, 1/8" Thick	26.21
40 05 19 00-4166	EA	6" Full Face Flange Neoprene Gasket, 1/8" Thick	36.69
40 05 19 00-4167	EA	8" Full Face Flange Neoprene Gasket, 1/8" Thick	56.16
40 05 19 00-4168	EA	10" Full Face Flange Neoprene Gasket, 1/8" Thick	60.65
40 05 19 00-4169	EA	12" Full Face Flange Neoprene Gasket, 1/8" Thick	65.15
40 05 19 00-4170	EA	14" Full Face Flange Neoprene Gasket, 1/8" Thick	86.86
40 05 19 00-4171	EA	16" Full Face Flange Neoprene Gasket, 1/8" Thick	152.76
40 05 19 00-4172	EA	18" Full Face Flange Neoprene Gasket, 1/8" Thick	153.50
40 05 19 00-4173	EA	20" Full Face Flange Neoprene Gasket, 1/8" Thick	162.49
40 05 19 00-4174	EA	24" Full Face Flange Neoprene Gasket, 1/8" Thick	164.74
40 05 19 00-4175	EA	30" Full Face Flange Neoprene Gasket, 1/8" Thick	178.96
40 05 19 00-4176	EA	36" Full Face Flange Neoprene Gasket, 1/8" Thick	201.43
40 05 19 00-4177	EA	42" Full Face Flange Neoprene Gasket, 1/8" Thick	292.03
40 05 19 00-4178	EA	48" Full Face Flange Neoprene Gasket, 1/8" Thick	319.74

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4179		Full Face Flange FKM Gaskets *(40 05 19 00-4118)*			
		Note: (Fluoroelastomer Fluorel Viton®)			
40 05 19 00-4180	EA	4" Full Face Flange FKM Gasket, 1/8" Thick		146.36	
40 05 19 00-4181	EA	6" Full Face Flange FKM Gasket, 1/8" Thick		217.91	
40 05 19 00-4182	EA	8" Full Face Flange FKM Gasket, 1/8" Thick		291.09	
40 05 19 00-4183	EA	10" Full Face Flange FKM Gasket, 1/8" Thick		351.26	
40 05 19 00-4184	EA	12" Full Face Flange FKM Gasket, 1/8" Thick		456.96	
40 05 19 00-4185	EA	14" Full Face Flange FKM Gasket, 1/8" Thick		835.87	
40 05 19 00-4186	EA	16" Full Face Flange FKM Gasket, 1/8" Thick		957.83	
40 05 19 00-4187	EA	18" Full Face Flange FKM Gasket, 1/8" Thick		1,003.37	
40 05 19 00-4188	EA	20" Full Face Flange FKM Gasket, 1/8" Thick		1,070.04	
40 05 19 00-4189	EA	24" Full Face Flange FKM Gasket, 1/8" Thick		1,479.84	
40 05 19 00-4190	EA	30" Full Face Flange FKM Gasket, 1/8" Thick		1,774.18	
40 05 19 00-4191	EA	36" Full Face Flange FKM Gasket, 1/8" Thick		1,871.76	
40 05 19 00-4192	EA	42" Full Face Flange FKM Gasket, 1/8" Thick		2,333.60	
40 05 19 00-4193	EA	48" Full Face Flange FKM Gasket, 1/8" Thick		2,445.80	
40 05 19 00-4194		Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) *(40 05 19)*			
40 05 19 00-4195	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		421.12	80.77
40 05 19 00-4196	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		583.73	98.59
40 05 19 00-4197	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		863.30	120.26
40 05 19 00-4198	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		1,185.11	146.70
40 05 19 00-4199	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		1,504.35	178.88
40 05 19 00-4200	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		2,414.80	218.25
40 05 19 00-4201	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		3,795.30	266.35
40 05 19 00-4202	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		3,920.30	324.86
40 05 19 00-4203	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		4,802.91	396.41
40 05 19 00-4204	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		5,352.70	483.52
40 05 19 00-4205	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		6,897.50	590.02
40 05 19 00-4206	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		10,249.28	719.72
40 05 19 00-4207	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		26,689.08	878.14
40 05 19 00-4208	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		34,088.96	1,071.27

40 05 23 Stainless Steel Process Pipe and Tubing *(40 05)*

40 05 23 23 300- and 400-Series Stainless Steel Process Pipe *(40 05 23)*

CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0001		Schedule 40 Pipe, Type 304, With 150 Lb. Screwed Fittings Assemblies *(40 05 23 23)*			
		Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.			
40 05 23 23-0002	LF	1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly		33.97	10.65
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.			
		For Type 316, Add		*3.27*	
		For Work In Restricted Working Space, Add		*6.42*	
40 05 23 23-0003	LF	3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly		38.62	12.21
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.			
		For Type 316, Add		*3.43*	
		For Work In Restricted Working Space, Add		*7.63*	
40 05 23 23-0004	LF	1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly		44.96	13.77
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.			
		For Type 316, Add		*4.02*	
		For Work In Restricted Working Space, Add		*8.85*	
40 05 23 23-0005	LF	1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly		51.27	16.63
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.			
		For Type 316, Add		*5.07*	
		For Work In Restricted Working Space, Add		*9.53*	
40 05 23 23-0006	LF	1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly		56.39	17.11
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.			
		For Type 316, Add		*5.81*	
		For Work In Restricted Working Space, Add		*10.22*	
40 05 23 23-0007	LF	2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly		68.27	22.62
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.			
		For Type 316, Add		*7.08*	
		For Work In Restricted Working Space, Add		*12.31*	
40 05 23 23-0008	LF	2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly		97.66	27.88
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.			
		For Type 316, Add		*12.18*	
		For Work In Restricted Working Space, Add		*15.25*	
40 05 23 23-0009	LF	3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly		123.18	32.30
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.			
		For Type 316, Add		*15.86*	
		For Work In Restricted Working Space, Add		*18.66*	
40 05 23 23-0010	LF	4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly		166.73	32.30
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.			
		For Work In Restricted Working Space, Add		*23.67*	
40 05 23 23-0011		Stainless Steel Tubing And Fittings *(40 05 23 23)*			
40 05 23 23-0012		Type 304 Tubing *(40 05 23 23-0011)*			

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0013		**0.035" Wall** *(40 05 23 23-0012)*		
40 05 23 23-0014	LF	1/4", 0.035" Wall, Type 304, Stainless Steel Tubing	9.31	3.51
		For Work In Restricted Working Space, Add	*2.09*	
40 05 23 23-0015	LF	3/8", 0.035" Wall, Type 304, Stainless Steel Tubing	10.82	4.16
		For Work In Restricted Working Space, Add	*2.51*	
40 05 23 23-0016	LF	1/2", 0.035" Wall, Type 304, Stainless Steel Tubing	12.91	4.94
		For Work In Restricted Working Space, Add	*2.93*	
40 05 23 23-0017	LF	5/8", 0.035" Wall, Type 304, Stainless Steel Tubing	20.73	5.59
		For Work In Restricted Working Space, Add	*3.35*	
40 05 23 23-0018	LF	3/4", 0.035" Wall, Type 304, Stainless Steel Tubing	24.54	6.24
		For Work In Restricted Working Space, Add	*3.77*	
40 05 23 23-0019	LF	7/8", 0.035" Wall, Type 304, Stainless Steel Tubing	27.16	7.02
		For Work In Restricted Working Space, Add	*4.19*	
40 05 23 23-0020	LF	1", 0.035" Wall, Type 304, Stainless Steel Tubing	30.42	8.44
		For Work In Restricted Working Space, Add	*5.03*	
40 05 23 23-0021		**0.049" Wall** *(40 05 23 23-0012)*		
40 05 23 23-0022	LF	1/4", 0.049" Wall, Type 304, Stainless Steel Tubing	15.32	4.16
		For Work In Restricted Working Space, Add	*2.51*	
40 05 23 23-0023	LF	3/8", 0.049" Wall, Type 304, Stainless Steel Tubing	17.09	4.94
		For Work In Restricted Working Space, Add	*2.93*	
40 05 23 23-0024	LF	1/2", 0.049" Wall, Type 304, Stainless Steel Tubing	20.52	5.59
		For Work In Restricted Working Space, Add	*3.35*	
40 05 23 23-0025	LF	5/8", 0.049" Wall, Type 304, Stainless Steel Tubing	25.96	7.02
		For Work In Restricted Working Space, Add	*4.19*	
40 05 23 23-0026	LF	3/4", 0.049" Wall, Type 304, Stainless Steel Tubing	29.74	8.44
		For Work In Restricted Working Space, Add	*5.03*	
40 05 23 23-0027	LF	7/8", 0.049" Wall, Type 304, Stainless Steel Tubing	33.46	9.75
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0028	LF	1", 0.049" Wall, Type 304, Stainless Steel Tubing	38.59	11.05
		For Work In Restricted Working Space, Add	*6.67*	
40 05 23 23-0029		**0.065" Wall** *(40 05 23 23-0012)*		
40 05 23 23-0030	LF	1/4", 0.065" Wall, Type 304, Stainless Steel Tubing	17.88	4.94
		For Work In Restricted Working Space, Add	*2.93*	
40 05 23 23-0031	LF	3/8", 0.065" Wall, Type 304, Stainless Steel Tubing	20.58	5.59
		For Work In Restricted Working Space, Add	*3.35*	
40 05 23 23-0032	LF	1/2", 0.065" Wall, Type 304, Stainless Steel Tubing	25.38	7.02
		For Work In Restricted Working Space, Add	*4.19*	
40 05 23 23-0033	LF	5/8", 0.065" Wall, Type 304, Stainless Steel Tubing	29.85	8.44
		For Work In Restricted Working Space, Add	*5.03*	
40 05 23 23-0034	LF	3/4", 0.065" Wall, Type 304, Stainless Steel Tubing	35.19	9.75
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0035	LF	7/8", 0.065" Wall, Type 304, Stainless Steel Tubing	40.42	11.05
		For Work In Restricted Working Space, Add	*6.67*	
40 05 23 23-0036	LF	1", 0.065" Wall, Type 304, Stainless Steel Tubing	45.56	12.48
		For Work In Restricted Working Space, Add	*7.50*	
40 05 23 23-0037		**Type 304 Tube Fittings** *(40 05 23 23-0011)*		
40 05 23 23-0038		**90 Degree Elbows** *(40 05 23 23-0037)*		
40 05 23 23-0039	EA	1/4", Type 304, Stainless Steel, 90 Degree Elbow	57.53	14.04
		For Work In Restricted Working Space, Add	*8.39*	
40 05 23 23-0040	EA	3/8", Type 304, Stainless Steel, 90 Degree Elbow	67.89	15.34
		For Work In Restricted Working Space, Add	*9.18*	
40 05 23 23-0041	EA	1/2", Type 304, Stainless Steel, 90 Degree Elbow	101.54	17.29
		For Work In Restricted Working Space, Add	*10.40*	
40 05 23 23-0042	EA	5/8", Type 304, Stainless Steel, 90 Degree Elbow	108.57	19.36
		For Work In Restricted Working Space, Add	*11.64*	
40 05 23 23-0043	EA	3/4", Type 304, Stainless Steel, 90 Degree Elbow	121.35	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0044	EA	7/8", Type 304, Stainless Steel, 90 Degree Elbow	165.07	23.27
		For Work In Restricted Working Space, Add	*13.93*	
40 05 23 23-0045	EA	1", Type 304, Stainless Steel, 90 Degree Elbow	209.98	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0046		**Union Tees** *(40 05 23 23-0037)*		
40 05 23 23-0047	EA	1/4", Type 304, Stainless Steel, Union Tee	91.12	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0048	EA	3/8", Type 304, Stainless Steel, Union Tee	110.24	23.27
		For Work In Restricted Working Space, Add	*13.93*	
40 05 23 23-0049	EA	1/2", Type 304, Stainless Steel, Union Tee	149.91	26.00
		For Work In Restricted Working Space, Add	*15.60*	
40 05 23 23-0050	EA	5/8", Type 304, Stainless Steel, Union Tee	161.49	29.51
		For Work In Restricted Working Space, Add	*17.72*	
40 05 23 23-0051	EA	3/4", Type 304, Stainless Steel, Union Tee	205.53	31.71
		For Work In Restricted Working Space, Add	*19.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0052	EA	7/8", Type 304, Stainless Steel, Union Tee	324.59	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0053	EA	1", Type 304, Stainless Steel, Union Tee	389.00	41.99
		For Work In Restricted Working Space, Add	*25.16*	

40 05 23 23-0054 Unions *(40 05 23 23-0037)*

40 05 23 23-0055	EA	1/4", Type 304, Stainless Steel, Union	87.21	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0056	EA	3/8", Type 304, Stainless Steel, Union	112.45	23.27
		For Work In Restricted Working Space, Add	*13.93*	
40 05 23 23-0057	EA	1/2", Type 304, Stainless Steel, Union	151.36	26.00
		For Work In Restricted Working Space, Add	*15.60*	
40 05 23 23-0058	EA	5/8", Type 304, Stainless Steel, Union	184.22	29.51
		For Work In Restricted Working Space, Add	*17.72*	
40 05 23 23-0059	EA	3/4", Type 304, Stainless Steel, Union	219.36	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0060	EA	7/8", Type 304, Stainless Steel, Union	335.63	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0061	EA	1", Type 304, Stainless Steel, Union	357.72	41.99
		For Work In Restricted Working Space, Add	*25.16*	

40 05 23 23-0062 Male Connectors *(40 05 23 23-0037)*

40 05 23 23-0063	EA	1/4" x 1/4", Type 304, Stainless Steel, Male Connection	43.52	14.04
		For Work In Restricted Working Space, Add	*8.39*	
40 05 23 23-0064	EA	3/8" x 3/8", Type 304, Stainless Steel, Male Connection	54.11	15.34
		For Work In Restricted Working Space, Add	*9.18*	
40 05 23 23-0065	EA	1/2" x 1/2", Type 304, Stainless Steel, Male Connection	69.85	17.29
		For Work In Restricted Working Space, Add	*10.40*	
40 05 23 23-0066	EA	5/8" x 5/8" Male Connection, Stainless Steel Type 304	78.70	19.36
		For Work In Restricted Working Space, Add	*11.64*	
40 05 23 23-0067	EA	3/4" x 3/4", Type 304, Stainless Steel, Male Connection	94.80	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0068	EA	7/8" x 7/8", Type 304, Stainless Steel, Male Connection	141.78	23.27
		For Work In Restricted Working Space, Add	*13.93*	
40 05 23 23-0069	EA	1" x 1", Type 304, Stainless Steel, Male Connection	148.90	27.69
		For Work In Restricted Working Space, Add	*16.60*	

40 05 23 23-0070 Type 304 Valves *(40 05 23 23-0011)*

40 05 23 23-0071 Gate Valves *(40 05 23 23-0070)*

40 05 23 23-0072	EA	1/4" Gate Valve, Stainless Steel Type 304	235.21	20.93
		For Work In Restricted Working Space, Add	*11.36*	
40 05 23 23-0073	EA	3/8" Gate Valve, Stainless Steel Type 304	395.71	24.57
		For Work In Restricted Working Space, Add	*11.95*	
40 05 23 23-0074	EA	1/2" Gate Valve, Stainless Steel Type 304	411.19	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0075	EA	3/4" Gate Valve, Stainless Steel Type 304	455.87	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0076	EA	1" Gate Valve, Stainless Steel Type 304	419.14	41.99
		For Work In Restricted Working Space, Add	*25.16*	

40 05 23 23-0077 Globe Valves *(40 05 23 23-0070)*

40 05 23 23-0078	EA	1/4" Globe Valve, Stainless Steel Type 304	238.44	20.93
		For Work In Restricted Working Space, Add	*11.36*	
40 05 23 23-0079	EA	3/8" Globe Valve, Stainless Steel Type 304	157.90	24.57
		For Work In Restricted Working Space, Add	*11.95*	
40 05 23 23-0080	EA	1/2" Globe Valve, Stainless Steel Type 304	283.28	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0081	EA	3/4" Globe Valve, Stainless Steel Type 304	315.39	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0082	EA	1" Globe Valve, Stainless Steel Type 304	459.85	41.99
		For Work In Restricted Working Space, Add	*25.16*	

40 05 23 23-0083 Check Valves *(40 05 23 23-0070)*

40 05 23 23-0084	EA	1/4" Check Valve, Stainless Steel Type 304	333.47	20.93
		For Work In Restricted Working Space, Add	*11.36*	
40 05 23 23-0085	EA	3/8" Check Valve, Stainless Steel Type 304	335.46	24.57
		For Work In Restricted Working Space, Add	*11.95*	
40 05 23 23-0086	EA	1/2" Check Valve, Stainless Steel Type 304	220.56	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0087	EA	3/4" Check Valve, Stainless Steel Type 304	231.05	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0088	EA	1" Check Valve, Stainless Steel Type 304	256.29	41.99
		For Work In Restricted Working Space, Add	*25.16*	

40 05 23 23-0089 Plug Valves *(40 05 23 23-0070)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0090	EA	1/2" Plug Valve, Stainless Steel Type 304	515.71	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0091	EA	3/4" Plug Valve, Stainless Steel Type 304	564.72	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0092	EA	1" Plug Valve, Stainless Steel Type 304	639.73	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0093	EA	1-1/2" Plug Valve, Stainless Steel Type 304	887.95	47.45
		For Work In Restricted Working Space, Add	*28.46*	
40 05 23 23-0094	EA	2" Plug Valve, Stainless Steel Type 304	1,156.46	64.99
		For Work In Restricted Working Space, Add	*39.00*	

40 05 23 23-0095 Type 316 Tubing *(40 05 23 23-0011)*

40 05 23 23-0096 0.035" Wall *(40 05 23 23-0095)*

40 05 23 23-0097	LF	1/4" Stainless Steel Tubing, Type 316, 0.035" Wall	9.67	3.51
		For Work In Restricted Working Space, Add	*2.09*	
40 05 23 23-0098	LF	3/8" Stainless Steel Tubing, Type 316, 0.035" Wall	12.57	4.16
		For Work In Restricted Working Space, Add	*2.51*	
40 05 23 23-0099	LF	1/2" Stainless Steel Tubing, Type 316, 0.035" Wall	13.98	4.94
		For Work In Restricted Working Space, Add	*2.93*	
40 05 23 23-0100	LF	5/8" Stainless Steel Tubing, Type 316, 0.035" Wall	23.56	5.59
		For Work In Restricted Working Space, Add	*3.35*	
40 05 23 23-0101	LF	3/4" Stainless Steel Tubing, Type 316, 0.035" Wall	26.73	6.24
		For Work In Restricted Working Space, Add	*3.77*	
40 05 23 23-0102	LF	7/8" Stainless Steel Tubing, Type 316, 0.035" Wall	33.91	7.02
		For Work In Restricted Working Space, Add	*4.19*	
40 05 23 23-0103	LF	1" Stainless Steel Tubing, Type 316, 0.035" Wall	35.65	8.44
		For Work In Restricted Working Space, Add	*5.03*	

40 05 23 23-0104 0.049" Wall *(40 05 23 23-0095)*

40 05 23 23-0105	LF	1/4" Stainless Steel Tubing, Type 316, 0.049" Wall	16.83	4.16
		For Work In Restricted Working Space, Add	*2.51*	
40 05 23 23-0106	LF	3/8" Stainless Steel Tubing, Type 316, 0.049" Wall	18.68	4.94
		For Work In Restricted Working Space, Add	*2.93*	
40 05 23 23-0107	LF	1/2" Stainless Steel Tubing, Type 316, 0.049" Wall	22.01	5.59
		For Work In Restricted Working Space, Add	*3.35*	
40 05 23 23-0108	LF	5/8" Stainless Steel Tubing, Type 316, 0.049" Wall	28.71	7.02
		For Work In Restricted Working Space, Add	*4.19*	
40 05 23 23-0109	LF	3/4" Stainless Steel Tubing, Type 316, 0.049" Wall	33.16	8.44
		For Work In Restricted Working Space, Add	*5.03*	
40 05 23 23-0110	LF	7/8" Stainless Steel Tubing, Type 316, 0.049" Wall	42.25	9.75
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0111	LF	1" Stainless Steel Tubing, Type 316, 0.049" Wall	43.20	11.05
		For Work In Restricted Working Space, Add	*6.67*	

40 05 23 23-0112 0.065" Wall *(40 05 23 23-0095)*

40 05 23 23-0113	LF	1/4" Stainless Steel Tubing, Type 316, 0.065" Wall	19.68	4.94
		For Work In Restricted Working Space, Add	*2.93*	
40 05 23 23-0114	LF	3/8" Stainless Steel Tubing, Type 316, 0.065" Wall	21.96	5.59
		For Work In Restricted Working Space, Add	*3.35*	
40 05 23 23-0115	LF	1/2" Stainless Steel Tubing, Type 316, 0.065" Wall	27.54	7.02
		For Work In Restricted Working Space, Add	*4.19*	
40 05 23 23-0116	LF	5/8" Stainless Steel Tubing, Type 316, 0.065" Wall	32.82	8.44
		For Work In Restricted Working Space, Add	*5.03*	
40 05 23 23-0117	LF	3/4" Stainless Steel Tubing, Type 316, 0.065" Wall	39.76	9.75
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0118	LF	7/8" Stainless Steel Tubing, Type 316, 0.065" Wall	43.81	11.05
		For Work In Restricted Working Space, Add	*6.67*	
40 05 23 23-0119	LF	1" Stainless Steel Tubing, Type 316, 0.065" Wall	51.02	12.48
		For Work In Restricted Working Space, Add	*7.50*	

40 05 23 23-0120 Type 316 Tube Fittings *(40 05 23 23-0011)*

40 05 23 23-0121 90 Degree Elbows *(40 05 23 23-0120)*

40 05 23 23-0122	EA	1/4" 90 Degree Elbow, Stainless Steel Type 316	78.89	14.04
		For Work In Restricted Working Space, Add	*8.39*	
40 05 23 23-0123	EA	3/8" 90 Degree Elbow, Stainless Steel Type 316	94.82	15.34
		For Work In Restricted Working Space, Add	*9.18*	
40 05 23 23-0124	EA	1/2" 90 Degree Elbow, Stainless Steel Type 316	149.82	17.29
		For Work In Restricted Working Space, Add	*10.40*	
40 05 23 23-0125	EA	5/8" 90 Degree Elbow, Stainless Steel Type 316	158.95	19.36
		For Work In Restricted Working Space, Add	*11.64*	
40 05 23 23-0126	EA	3/4" 90 Degree Elbow, Stainless Steel Type 316	178.69	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0127	EA	7/8" 90 Degree Elbow, Stainless Steel Type 316	250.72	23.27
		For Work In Restricted Working Space, Add	*13.93*	
40 05 23 23-0128	EA	1" 90 Degree Elbow, Stainless Steel Type 316	321.64	27.69
		For Work In Restricted Working Space, Add	*16.60*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0129		**Union Tees** *(40 05 23 23-0120)*		
40 05 23 23-0130	EA	1/4" Union Tee, Stainless Steel Type 316	126.64	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0131	EA	3/8" Union Tee, Stainless Steel Type 316	156.32	23.27
		For Work In Restricted Working Space, Add	*13.93*	
40 05 23 23-0132	EA	1/2" Union Tee, Stainless Steel Type 316	220.59	26.00
		For Work In Restricted Working Space, Add	*15.60*	
40 05 23 23-0133	EA	5/8" Union Tee, Stainless Steel Type 316	235.42	29.51
		For Work In Restricted Working Space, Add	*17.72*	
40 05 23 23-0134	EA	3/4" Union Tee, Stainless Steel Type 316	308.13	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0135	EA	7/8" Union Tee, Stainless Steel Type 316	508.21	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0136	EA	1" Union Tee, Stainless Steel Type 316	609.29	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0137		**Unions** *(40 05 23 23-0120)*		
40 05 23 23-0138	EA	1/4" Union, Stainless Steel Type 316	81.79	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0139	EA	3/8" Union, Stainless Steel Type 316	104.56	23.27
		For Work In Restricted Working Space, Add	*13.93*	
40 05 23 23-0140	EA	1/2" Union, Stainless Steel Type 316	139.48	26.00
		For Work In Restricted Working Space, Add	*15.60*	
40 05 23 23-0141	EA	5/8" Union, Stainless Steel Type 316	169.26	29.51
		For Work In Restricted Working Space, Add	*17.72*	
40 05 23 23-0142	EA	3/4" Union, Stainless Steel Type 316	200.72	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0143	EA	7/8" Union, Stainless Steel Type 316	303.91	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0144	EA	1" Union, Stainless Steel Type 316	324.98	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0145		**Male Connectors** *(40 05 23 23-0120)*		
40 05 23 23-0146	EA	1/4" x 1/4" Male Connector, Stainless Steel Type 316	54.53	14.04
		For Work In Restricted Working Space, Add	*8.39*	
40 05 23 23-0147	EA	3/8" x 3/8" Male Connector, Stainless Steel Type 316	70.73	15.34
		For Work In Restricted Working Space, Add	*9.18*	
40 05 23 23-0148	EA	1/2" x 1/2" Male Connector, Stainless Steel Type 316	94.73	17.29
		For Work In Restricted Working Space, Add	*10.40*	
40 05 23 23-0149	EA	5/8" x 5/8" Male Connector, Stainless Steel Type 316	106.90	19.36
		For Work In Restricted Working Space, Add	*11.64*	
40 05 23 23-0150	EA	3/4" x 3/4" Male Connector, Stainless Steel Type 316	132.18	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0151	EA	7/8" x 7/8" Male Connector, Stainless Steel Type 316	209.20	23.27
		For Work In Restricted Working Space, Add	*13.93*	
40 05 23 23-0152	EA	1" x 1" Male Connector, Stainless Steel Type 316	215.05	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0153		**Type 316 Valves** *(40 05 23 23-0011)*		
40 05 23 23-0154		**Gate Valves** *(40 05 23 23-0153)*		
40 05 23 23-0155	EA	1/4" Gate Valve, Stainless Steel Type 316	298.93	20.93
		For Work In Restricted Working Space, Add	*11.36*	
40 05 23 23-0156	EA	3/8" Gate Valve, Stainless Steel Type 316	510.61	24.57
		For Work In Restricted Working Space, Add	*11.95*	
40 05 23 23-0157	EA	1/2" Gate Valve, Stainless Steel Type 316	526.09	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0158	EA	3/4" Gate Valve, Stainless Steel Type 316	582.59	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0159	EA	1" Gate Valve, Stainless Steel Type 316	527.39	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0160	EA	1-1/4" Gate Valve, Stainless Steel Type 316	724.53	43.54
		For Work In Restricted Working Space, Add	*26.13*	
40 05 23 23-0161	EA	1-1/2" Gate Valve, Stainless Steel Type 316	1,164.10	47.45
		For Work In Restricted Working Space, Add	*28.46*	
40 05 23 23-0162	EA	2" Gate Valve, Stainless Steel Type 316	1,384.54	64.99
		For Work In Restricted Working Space, Add	*39.00*	
40 05 23 23-0163	EA	2-1/2" Gate Valve, Stainless Steel Type 316	2,055.56	208.11
		For Work In Restricted Working Space, Add	*124.83*	
40 05 23 23-0164		**Globe Valves** *(40 05 23 23-0153)*		
40 05 23 23-0165	EA	1/4" Globe Valve, Stainless Steel Type 316	303.21	20.93
		For Work In Restricted Working Space, Add	*11.36*	
40 05 23 23-0166	EA	3/8" Globe Valve, Stainless Steel Type 316	196.03	24.57
		For Work In Restricted Working Space, Add	*11.95*	
40 05 23 23-0167	EA	1/2" Globe Valve, Stainless Steel Type 316	356.89	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0168	EA	3/4" Globe Valve, Stainless Steel Type 316	396.75	31.71
		For Work In Restricted Working Space, Add	*19.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0169	EA	1" Globe Valve, Stainless Steel Type 316	581.24	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0170	EA	1-1/4" Globe Valve, Stainless Steel Type 316	725.95	43.29
		For Work In Restricted Working Space, Add	*25.94*	
40 05 23 23-0171	EA	1-1/2" Globe Valve, Stainless Steel Type 316	1,206.87	47.45
		For Work In Restricted Working Space, Add	*28.46*	
40 05 23 23-0172	EA	2" Globe Valve, Stainless Steel Type 316	1,427.31	64.99
		For Work In Restricted Working Space, Add	*39.00*	
40 05 23 23-0173	EA	2-1/2" Globe Valve, Stainless Steel Type 316	1,784.69	208.11
		For Work In Restricted Working Space, Add	*124.83*	

40 05 23 23-0174 Check Valves *(40 05 23 23-0153)*

40 05 23 23-0175	EA	1/4" Check Valve, Stainless Steel Type 316	428.91	20.93
		For Work In Restricted Working Space, Add	*11.36*	
40 05 23 23-0176	EA	3/8" Check Valve, Stainless Steel Type 316	430.90	24.57
		For Work In Restricted Working Space, Add	*11.95*	
40 05 23 23-0177	EA	1/2" Check Valve, Stainless Steel Type 316	273.92	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0178	EA	3/4" Check Valve, Stainless Steel Type 316	285.17	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0179	EA	1" Check Valve, Stainless Steel Type 316	311.96	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0180	EA	1-1/4" Check Valve, Stainless Steel Type 316	431.81	43.54
		For Work In Restricted Working Space, Add	*26.13*	
40 05 23 23-0181	EA	1-1/2" Check Valve, Stainless Steel Type 316	964.51	47.45
		For Work In Restricted Working Space, Add	*28.46*	
40 05 23 23-0182	EA	2" Check Valve, Stainless Steel Type 316	1,170.70	64.99
		For Work In Restricted Working Space, Add	*39.00*	
40 05 23 23-0183	EA	2-1/2" Check Valve, Stainless Steel Type 316	2,316.92	208.11
		For Work In Restricted Working Space, Add	*124.83*	

40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined *(40 05 23 23-0153)*

40 05 23 23-0185	EA	1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	460.60	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0186	EA	3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	538.08	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0187	EA	1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	686.22	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0188	EA	1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	1,094.19	47.45
		For Work In Restricted Working Space, Add	*28.46*	
40 05 23 23-0189	EA	2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	1,529.03	64.99
		For Work In Restricted Working Space, Add	*39.00*	

40 05 23 23-0190 Diaphragm Valves, Teflon Lined *(40 05 23 23-0153)*

40 05 23 23-0191	EA	1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	610.49	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0192	EA	3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	701.86	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0193	EA	1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	850.00	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0194	EA	1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	1,324.58	47.45
		For Work In Restricted Working Space, Add	*28.46*	
40 05 23 23-0195	EA	2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	1,803.83	64.99
		For Work In Restricted Working Space, Add	*39.00*	

40 05 23 23-0196 Strainers *(40 05 23 23-0153)*

40 05 23 23-0197	EA	1/2" Strainer, Stainless Steel Type 316	611.94	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0198	EA	3/4" Strainer, Stainless Steel Type 316	732.39	31.85
		For Work In Restricted Working Space, Add	*19.11*	
40 05 23 23-0199	EA	1" Strainer, Stainless Steel Type 316	958.24	42.24
		For Work In Restricted Working Space, Add	*25.35*	
40 05 23 23-0200	EA	1-1/4" Strainer, Stainless Steel Type 316	1,190.26	43.54
		For Work In Restricted Working Space, Add	*26.13*	
40 05 23 23-0201	EA	1-1/2" Strainer, Stainless Steel Type 316	1,494.29	47.45
		For Work In Restricted Working Space, Add	*28.47*	
40 05 23 23-0202	EA	2" Strainer, Stainless Steel Type 316	2,155.11	64.99
		For Work In Restricted Working Space, Add	*39.00*	
40 05 23 23-0203	EA	2-1/2" Strainer, Stainless Steel Type 316	2,961.85	86.44
		For Work In Restricted Working Space, Add	*51.87*	
40 05 23 23-0204	EA	3" Strainer, Stainless Steel Type 316	4,313.08	129.99
		For Work In Restricted Working Space, Add	*77.99*	
40 05 23 23-0205	EA	4" Strainer, Stainless Steel Type 316	5,518.93	207.98
		For Work In Restricted Working Space, Add	*124.78*	

40 05 23 23-0206 Plug Valves *(40 05 23 23-0153)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0207	EA	1/2" Plug Valve, Stainless Steel Type 316	652.17	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0208	EA	3/4" Plug Valve, Stainless Steel Type 316	713.31	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0209	EA	1" Plug Valve, Stainless Steel Type 316	804.50	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0210	EA	1-1/2" Plug Valve, Stainless Steel Type 316	1,123.03	47.45
		For Work In Restricted Working Space, Add	*28.46*	
40 05 23 23-0211	EA	2" Plug Valve, Stainless Steel Type 316	1,460.72	64.99
		For Work In Restricted Working Space, Add	*39.00*	

40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place *(40 05 23 23-0011)*

Note: For use when connecting pipe to an existing in-place system.

40 05 23 23-0213	EA	Cut And Prepare 1/2" Stainless Steel Pipe	25.99	
40 05 23 23-0214	EA	Cut And Prepare 3/4" Stainless Steel Pipe	28.07	
40 05 23 23-0215	EA	Cut And Prepare 1" Stainless Steel Pipe	31.57	
40 05 23 23-0216	EA	Cut And Prepare 1-1/4" Stainless Steel Pipe	33.13	
40 05 23 23-0217	EA	Cut And Prepare 1-1/2" Stainless Steel Pipe	35.08	
40 05 23 23-0218	EA	Cut And Prepare 2" Stainless Steel Pipe	37.68	
40 05 23 23-0219	EA	Cut And Prepare 2-1/2" Stainless Steel Pipe	40.29	
40 05 23 23-0220	EA	Cut And Prepare 3" Stainless Steel Pipe	44.18	
40 05 23 23-0221	EA	Cut And Prepare 4" Stainless Steel Pipe	48.07	
40 05 23 23-0222	EA	Cut And Prepare 6" Stainless Steel Pipe	51.98	
40 05 23 23-0223	EA	Cut And Prepare 8" Stainless Steel Pipe	55.87	
40 05 23 23-0224	EA	Cut And Prepare 10" Stainless Steel Pipe	61.07	
40 05 23 23-0225	EA	Cut And Prepare 12" Stainless Steel Pipe	66.27	
40 05 23 23-0226	EA	Cut And Prepare 14" Stainless Steel Pipe	71.47	
40 05 23 23-0227	EA	Cut And Prepare 16" Stainless Steel Pipe	76.67	
40 05 23 23-0228	EA	Cut And Prepare 18" Stainless Steel Pipe	80.56	
40 05 23 23-0229	EA	Cut And Prepare 20" Stainless Steel Pipe	84.46	
40 05 23 23-0230	EA	Cut And Prepare 24" Stainless Steel Pipe	89.66	

40 05 23 23-0231 Stainless Steel Pipe And Fittings *(40 05 23 23)*

40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 Lb. Threaded Fittings *(40 05 23 23-0231)*

40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe *(40 05 23 23-0232)*

40 05 23 23-0234	LF	1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting	17.35	5.59
		For Work In Restricted Working Space, Add	*3.35*	
40 05 23 23-0235	LF	3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting	21.42	7.02
		For Work In Restricted Working Space, Add	*4.19*	
40 05 23 23-0236	LF	1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting	26.22	8.44
		For Work In Restricted Working Space, Add	*5.03*	
40 05 23 23-0237	LF	1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting	31.36	9.75
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0238	LF	1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting	36.19	11.05
		For Work In Restricted Working Space, Add	*6.67*	
40 05 23 23-0239	LF	2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting	46.12	14.04
		For Work In Restricted Working Space, Add	*8.39*	
40 05 23 23-0240	LF	2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting	61.39	16.64
		For Work In Restricted Working Space, Add	*10.00*	
40 05 23 23-0241	LF	3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting	77.16	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0242	LF	4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting	104.10	27.69
		For Work In Restricted Working Space, Add	*16.60*	

40 05 23 23-0243 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbows *(40 05 23 23-0232)*

40 05 23 23-0244	EA	1/2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow	46.10	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0245	EA	3/4", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow	61.27	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0246	EA	1", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow	78.94	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0247	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow	111.11	48.10
		For Work In Restricted Working Space, Add	*28.89*	
40 05 23 23-0248	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow	132.76	56.54
		For Work In Restricted Working Space, Add	*33.91*	
40 05 23 23-0249	EA	2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow	161.88	68.37
		For Work In Restricted Working Space, Add	*41.05*	
40 05 23 23-0250	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow	273.69	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-0251	EA	3", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow	352.20	139.74
		For Work In Restricted Working Space, Add	*83.86*	
40 05 23 23-0252	EA	4", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow	488.44	173.28
		For Work In Restricted Working Space, Add	*103.99*	

40 05 23 23-0253 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbows *(40 05 23 23-0232)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0254	EA	1/2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow	47.06	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0255	EA	3/4", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow	62.82	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0256	EA	1", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow	79.42	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0257	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow	110.92	48.10
		For Work In Restricted Working Space, Add	*28.89*	
40 05 23 23-0258	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow	130.47	56.54
		For Work In Restricted Working Space, Add	*33.91*	
40 05 23 23-0259	EA	2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow	161.34	68.37
		For Work In Restricted Working Space, Add	*41.05*	
40 05 23 23-0260	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow	284.08	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-0261	EA	3", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow	372.47	139.74
		For Work In Restricted Working Space, Add	*83.86*	
40 05 23 23-0262	EA	4", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow	512.04	173.28
		For Work In Restricted Working Space, Add	*103.99*	

40 05 23 23-0263 150 Lb., Type 304 Stainless Steel Threaded Tees *(40 05 23 23-0232)*

40 05 23 23-0264	EA	1/2", 150 Lb., Type 304 Stainless Steel Threaded Tee	69.07	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0265	EA	3/4", 150 Lb., Type 304 Stainless Steel Threaded Tee	92.83	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0266	EA	1", 150 Lb., Type 304 Stainless Steel Threaded Tee	115.42	52.00
		For Work In Restricted Working Space, Add	*31.20*	
40 05 23 23-0267	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Tee	167.15	72.28
		For Work In Restricted Working Space, Add	*43.33*	
40 05 23 23-0268	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Tee	190.74	81.24
		For Work In Restricted Working Space, Add	*48.75*	
40 05 23 23-0269	EA	2", 150 Lb., Type 304 Stainless Steel Threaded Tee	252.94	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-0270	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Tee	391.03	156.63
		For Work In Restricted Working Space, Add	*93.97*	
40 05 23 23-0271	EA	3", 150 Lb., Type 304 Stainless Steel Threaded Tee	531.45	209.67
		For Work In Restricted Working Space, Add	*125.80*	
40 05 23 23-0272	EA	4", 150 Lb., Type 304 Stainless Steel Threaded Tee	722.48	259.98
		For Work In Restricted Working Space, Add	*155.99*	

40 05 23 23-0273 150 Lb., Type 304 Stainless Steel Threaded Reducers *(40 05 23 23-0232)*

40 05 23 23-0274	EA	3/4", 150 Lb., Type 304 Stainless Steel Threaded Reducer	60.55	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0275	EA	1", 150 Lb., Type 304 Stainless Steel Threaded Reducer	77.42	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0276	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Reducer	106.76	48.10
		For Work In Restricted Working Space, Add	*28.89*	
40 05 23 23-0277	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Reducer	128.09	56.54
		For Work In Restricted Working Space, Add	*33.91*	
40 05 23 23-0278	EA	2", 150 Lb., Type 304 Stainless Steel Threaded Reducer	161.98	68.37
		For Work In Restricted Working Space, Add	*41.05*	
40 05 23 23-0279	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Reducer	270.62	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-0280	EA	3", 150 Lb., Type 304 Stainless Steel Threaded Reducer	356.39	139.74
		For Work In Restricted Working Space, Add	*83.86*	
40 05 23 23-0281	EA	4", 150 Lb., Type 304 Stainless Steel Threaded Reducer	473.94	173.28
		For Work In Restricted Working Space, Add	*103.99*	

40 05 23 23-0282 150 Lb., Type 304 Stainless Steel Threaded Caps *(40 05 23 23-0232)*

40 05 23 23-0283	EA	1/2", 150 Lb., Type 304 Stainless Steel Threaded Cap	23.75	10.53
		For Work In Restricted Working Space, Add	*6.29*	
40 05 23 23-0284	EA	3/4", 150 Lb., Type 304 Stainless Steel Threaded Cap	31.42	14.04
		For Work In Restricted Working Space, Add	*8.39*	
40 05 23 23-0285	EA	1", 150 Lb., Type 304 Stainless Steel Threaded Cap	39.87	17.29
		For Work In Restricted Working Space, Add	*10.40*	
40 05 23 23-0286	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Cap	58.49	24.57
		For Work In Restricted Working Space, Add	*14.72*	
40 05 23 23-0287	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Cap	67.68	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0288	EA	2", 150 Lb., Type 304 Stainless Steel Threaded Cap	86.02	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0289	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Cap	132.43	52.00
		For Work In Restricted Working Space, Add	*31.20*	
40 05 23 23-0290	EA	3", 150 Lb., Type 304 Stainless Steel Threaded Cap	176.14	68.37
		For Work In Restricted Working Space, Add	*41.05*	
40 05 23 23-0291	EA	4", 150 Lb., Type 304 Stainless Steel Threaded Cap	239.84	86.70
		For Work In Restricted Working Space, Add	*52.00*	

40 05 23 23-0292 150 Lb., Type 304 Stainless Steel Threaded Unions *(40 05 23 23-0232)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0293	EA	1/2", 150 Lb., Type 304 Stainless Steel Threaded Union	75.11	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0294	EA	3/4", 150 Lb., Type 304 Stainless Steel Threaded Union	98.68	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0295	EA	1", 150 Lb., Type 304 Stainless Steel Threaded Union	126.37	52.00
		For Work In Restricted Working Space, Add	*31.20*	
40 05 23 23-0296	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Union	183.26	72.28
		For Work In Restricted Working Space, Add	*43.33*	
40 05 23 23-0297	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Union	206.36	81.24
		For Work In Restricted Working Space, Add	*48.75*	
40 05 23 23-0298	EA	2", 150 Lb., Type 304 Stainless Steel Threaded Union	269.20	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-0299	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Union	467.30	162.49
		For Work In Restricted Working Space, Add	*97.49*	
40 05 23 23-0300	EA	3", 150 Lb., Type 304 Stainless Steel Threaded Union	598.57	209.67
		For Work In Restricted Working Space, Add	*125.80*	
40 05 23 23-0301	EA	4", 150 Lb., Type 304 Stainless Steel Threaded Union	637.62	173.34
		For Work In Restricted Working Space, Add	*104.00*	

40 05 23 23-0302 150 Lb., Type 304 Stainless Steel Threaded Couplings *(40 05 23 23-0232)*

40 05 23 23-0303	EA	1/2", 150 Lb., Type 304 Stainless Steel Threaded Coupling	45.70	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0304	EA	3/4", 150 Lb., Type 304 Stainless Steel Threaded Coupling	60.74	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0305	EA	1", 150 Lb., Type 304 Stainless Steel Threaded Coupling	78.51	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0306	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Coupling	109.40	48.10
		For Work In Restricted Working Space, Add	*28.89*	
40 05 23 23-0307	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Coupling	128.60	56.54
		For Work In Restricted Working Space, Add	*33.91*	
40 05 23 23-0308	EA	2", 150 Lb., Type 304 Stainless Steel Threaded Coupling	158.78	68.37
		For Work In Restricted Working Space, Add	*41.05*	
40 05 23 23-0309	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Coupling	264.82	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-0310	EA	3", 150 Lb., Type 304 Stainless Steel Threaded Coupling	341.81	139.74
		For Work In Restricted Working Space, Add	*83.86*	
40 05 23 23-0311	EA	4", 150 Lb., Type 304 Stainless Steel Threaded Coupling	443.41	173.28
		For Work In Restricted Working Space, Add	*103.99*	

40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 Lb. Threaded Fittings
(40 05 23 23-0231)

40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe *(40 05 23 23-0312)*

40 05 23 23-0314	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting	20.62	5.59
		For Work In Restricted Working Space, Add	*3.35*	
40 05 23 23-0315	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting	24.65	7.02
		For Work In Restricted Working Space, Add	*4.19*	
40 05 23 23-0316	LF	1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting	30.86	8.44
		For Work In Restricted Working Space, Add	*5.03*	
40 05 23 23-0317	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting	37.43	9.75
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0318	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting	43.37	11.05
		For Work In Restricted Working Space, Add	*6.67*	
40 05 23 23-0319	LF	2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting	55.74	14.04
		For Work In Restricted Working Space, Add	*8.39*	
40 05 23 23-0320	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting	74.83	16.64
		For Work In Restricted Working Space, Add	*10.00*	
40 05 23 23-0321	LF	3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting	97.21	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0322	LF	4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting	130.19	27.69
		For Work In Restricted Working Space, Add	*16.60*	

40 05 23 23-0323 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbows *(40 05 23 23-0312)*

40 05 23 23-0324	EA	1/2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow	47.35	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0325	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow	63.14	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0326	EA	1", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow	80.09	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0327	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow	113.17	48.10
		For Work In Restricted Working Space, Add	*28.89*	
40 05 23 23-0328	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow	135.51	56.54
		For Work In Restricted Working Space, Add	*33.91*	
40 05 23 23-0329	EA	2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow	165.27	68.37
		For Work In Restricted Working Space, Add	*41.05*	
40 05 23 23-0330	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow	279.11	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-0331	EA	3", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow	365.47	139.74
		For Work In Restricted Working Space, Add	*83.86*	
40 05 23 23-0332	EA	4", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow	504.57	173.28
		For Work In Restricted Working Space, Add	*103.99*	

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0333		**150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbows** *(40 05 23 23-0312)*			
40 05 23 23-0334	EA	1/2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow		48.37	20.93
		For Work In Restricted Working Space, Add		*12.58*	
40 05 23 23-0335	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow		63.78	27.69
		For Work In Restricted Working Space, Add		*16.60*	
40 05 23 23-0336	EA	1", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow		80.83	35.10
		For Work In Restricted Working Space, Add		*21.08*	
40 05 23 23-0337	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow		112.95	48.10
		For Work In Restricted Working Space, Add		*28.89*	
40 05 23 23-0338	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow		132.84	56.54
		For Work In Restricted Working Space, Add		*33.91*	
40 05 23 23-0339	EA	2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow		164.52	68.37
		For Work In Restricted Working Space, Add		*41.05*	
40 05 23 23-0340	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow		289.18	108.28
		For Work In Restricted Working Space, Add		*65.00*	
40 05 23 23-0341	EA	3", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow		384.22	139.74
		For Work In Restricted Working Space, Add		*83.86*	
40 05 23 23-0342	EA	4", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow		543.74	173.28
		For Work In Restricted Working Space, Add		*103.99*	
40 05 23 23-0343		**150 Lb., Type 316 Stainless Steel Threaded Tees** *(40 05 23 23-0312)*			
40 05 23 23-0344	EA	1/2", 150 Lb., Type 316 Stainless Steel Threaded Tee		70.41	31.71
		For Work In Restricted Working Space, Add		*19.02*	
40 05 23 23-0345	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded Tee		94.19	41.99
		For Work In Restricted Working Space, Add		*25.16*	
40 05 23 23-0346	EA	1", 150 Lb., Type 316 Stainless Steel Threaded Tee		116.94	52.00
		For Work In Restricted Working Space, Add		*31.20*	
40 05 23 23-0347	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Tee		170.25	72.28
		For Work In Restricted Working Space, Add		*43.33*	
40 05 23 23-0348	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Tee		193.81	81.24
		For Work In Restricted Working Space, Add		*48.75*	
40 05 23 23-0349	EA	2", 150 Lb., Type 316 Stainless Steel Threaded Tee		256.97	108.28
		For Work In Restricted Working Space, Add		*65.00*	
40 05 23 23-0350	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Tee		407.51	156.63
		For Work In Restricted Working Space, Add		*93.97*	
40 05 23 23-0351	EA	3", 150 Lb., Type 316 Stainless Steel Threaded Tee		553.91	209.67
		For Work In Restricted Working Space, Add		*125.80*	
40 05 23 23-0352	EA	4", 150 Lb., Type 316 Stainless Steel Threaded Tee		739.22	259.98
		For Work In Restricted Working Space, Add		*155.99*	
40 05 23 23-0353		**150 Lb., Type 316 Stainless Steel Threaded Reducers** *(40 05 23 23-0312)*			
40 05 23 23-0354	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded Reducer		61.70	27.69
		For Work In Restricted Working Space, Add		*16.60*	
40 05 23 23-0355	EA	1", 150 Lb., Type 316 Stainless Steel Threaded Reducer		80.81	35.10
		For Work In Restricted Working Space, Add		*21.08*	
40 05 23 23-0356	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Reducer		107.40	48.10
		For Work In Restricted Working Space, Add		*28.89*	
40 05 23 23-0357	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Reducer		131.43	56.54
		For Work In Restricted Working Space, Add		*33.91*	
40 05 23 23-0358	EA	2", 150 Lb., Type 316 Stainless Steel Threaded Reducer		167.83	68.37
		For Work In Restricted Working Space, Add		*41.05*	
40 05 23 23-0359	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Reducer		283.92	108.28
		For Work In Restricted Working Space, Add		*65.00*	
40 05 23 23-0360	EA	3", 150 Lb., Type 316 Stainless Steel Threaded Reducer		371.08	139.74
		For Work In Restricted Working Space, Add		*83.86*	
40 05 23 23-0361	EA	4", 150 Lb., Type 316 Stainless Steel Threaded Reducer		498.42	173.28
		For Work In Restricted Working Space, Add		*103.99*	
40 05 23 23-0362		**150 Lb., Type 316 Stainless Steel Threaded Caps** *(40 05 23 23-0312)*			
40 05 23 23-0363	EA	1/2", 150 Lb., Type 316 Stainless Steel Threaded Cap		24.49	10.53
		For Work In Restricted Working Space, Add		*6.29*	
40 05 23 23-0364	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded Cap		31.98	14.04
		For Work In Restricted Working Space, Add		*8.39*	
40 05 23 23-0365	EA	1", 150 Lb., Type 316 Stainless Steel Threaded Cap		40.86	17.29
		For Work In Restricted Working Space, Add		*10.40*	
40 05 23 23-0366	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Cap		61.24	24.57
		For Work In Restricted Working Space, Add		*14.72*	
40 05 23 23-0367	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Cap		70.94	27.69
		For Work In Restricted Working Space, Add		*16.60*	
40 05 23 23-0368	EA	2", 150 Lb., Type 316 Stainless Steel Threaded Cap		90.26	35.10
		For Work In Restricted Working Space, Add		*21.08*	
40 05 23 23-0369	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Cap		139.45	52.00
		For Work In Restricted Working Space, Add		*31.20*	
40 05 23 23-0370	EA	3", 150 Lb., Type 316 Stainless Steel Threaded Cap		183.27	68.37
		For Work In Restricted Working Space, Add		*41.05*	
40 05 23 23-0371	EA	4", 150 Lb., Type 316 Stainless Steel Threaded Cap		253.99	86.70
		For Work In Restricted Working Space, Add		*52.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0372		**150 Lb., Type 316 Stainless Steel Threaded Unions** *(40 05 23 23-0312)*		
40 05 23 23-0373	EA	1/2", 150 Lb., Type 316 Stainless Steel Threaded Union	76.71	31.71
		For Work In Restricted Working Space, Add	*19.02*	
40 05 23 23-0374	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded Union	104.74	41.99
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-0375	EA	1", 150 Lb., Type 316 Stainless Steel Threaded Union	129.44	52.00
		For Work In Restricted Working Space, Add	*31.20*	
40 05 23 23-0376	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Union	188.46	72.28
		For Work In Restricted Working Space, Add	*43.33*	
40 05 23 23-0377	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Union	212.45	81.24
		For Work In Restricted Working Space, Add	*48.75*	
40 05 23 23-0378	EA	2", 150 Lb., Type 316 Stainless Steel Threaded Union	276.25	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-0379	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Union	478.12	162.49
		For Work In Restricted Working Space, Add	*97.49*	
40 05 23 23-0380	EA	3", 150 Lb., Type 316 Stainless Steel Threaded Union	632.27	209.67
		For Work In Restricted Working Space, Add	*125.80*	
40 05 23 23-0381	EA	4", 150 Lb., Type 316 Stainless Steel Threaded Union	709.45	173.34
		For Work In Restricted Working Space, Add	*104.00*	
40 05 23 23-0382		**150 Lb., Type 316 Stainless Steel Threaded Couplings** *(40 05 23 23-0312)*		
40 05 23 23-0383	EA	1/2", 150 Lb., Type 316 Stainless Steel Threaded Coupling	48.23	20.93
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-0384	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded Coupling	61.92	27.69
		For Work In Restricted Working Space, Add	*16.60*	
40 05 23 23-0385	EA	1", 150 Lb., Type 316 Stainless Steel Threaded Coupling	79.63	35.10
		For Work In Restricted Working Space, Add	*21.08*	
40 05 23 23-0386	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Coupling	111.19	48.10
		For Work In Restricted Working Space, Add	*28.89*	
40 05 23 23-0387	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Coupling	130.73	56.54
		For Work In Restricted Working Space, Add	*33.91*	
40 05 23 23-0388	EA	2", 150 Lb., Type 316 Stainless Steel Threaded Coupling	161.74	68.37
		For Work In Restricted Working Space, Add	*41.05*	
40 05 23 23-0389	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Coupling	275.18	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-0390	EA	3", 150 Lb., Type 316 Stainless Steel Threaded Coupling	355.16	139.74
		For Work In Restricted Working Space, Add	*83.86*	
40 05 23 23-0391	EA	4", 150 Lb., Type 316 Stainless Steel Threaded Coupling	463.44	173.28
		For Work In Restricted Working Space, Add	*103.99*	
40 05 23 23-0392		**Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings** *(40 05 23 23-0231)*		
40 05 23 23-0393		**Type 304, Schedule 10 Stainless Steel Pipe** *(40 05 23 23-0392)*		
40 05 23 23-0394	LF	1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	18.93	5.46
		For Work In Restricted Working Space, Add	*3.28*	
40 05 23 23-0395	LF	3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	22.62	6.67
		For Work In Restricted Working Space, Add	*4.01*	
40 05 23 23-0396	LF	1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	29.46	7.89
		For Work In Restricted Working Space, Add	*4.70*	
40 05 23 23-0397	LF	1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	36.08	9.83
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0398	LF	1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	40.21	11.04
		For Work In Restricted Working Space, Add	*6.62*	
40 05 23 23-0399	LF	2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	49.74	13.70
		For Work In Restricted Working Space, Add	*8.19*	
40 05 23 23-0400	LF	2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	59.11	15.64
		For Work In Restricted Working Space, Add	*9.36*	
40 05 23 23-0401	LF	3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	69.34	17.59
		For Work In Restricted Working Space, Add	*10.55*	
40 05 23 23-0402	LF	4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	86.46	20.85
		For Work In Restricted Working Space, Add	*12.48*	
40 05 23 23-0403	LF	6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	124.65	27.40
		For Work In Restricted Working Space, Add	*16.39*	
40 05 23 23-0404	LF	8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	210.60	48.26
		For Work In Restricted Working Space, Add	*31.01*	
40 05 23 23-0405	LF	10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	264.70	53.07
		For Work In Restricted Working Space, Add	*34.12*	
40 05 23 23-0406	LF	12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	314.53	59.01
		For Work In Restricted Working Space, Add	*37.91*	
40 05 23 23-0407	LF	14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	383.86	66.34
		For Work In Restricted Working Space, Add	*42.65*	
40 05 23 23-0408	LF	16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	424.04	75.82
		For Work In Restricted Working Space, Add	*48.74*	
40 05 23 23-0409	LF	18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	476.86	88.45
		For Work In Restricted Working Space, Add	*56.86*	
40 05 23 23-0410	LF	20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	653.72	106.14
		For Work In Restricted Working Space, Add	*68.24*	
40 05 23 23-0411	LF	24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	849.65	132.68
		For Work In Restricted Working Space, Add	*85.29*	

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0412		Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow *(40 05 23 23-0392)*			
40 05 23 23-0413	EA	1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		144.73	62.22
		For Work In Restricted Working Space, Add		*41.47*	
40 05 23 23-0414	EA	3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		153.24	66.03
		For Work In Restricted Working Space, Add		*44.03*	
40 05 23 23-0415	EA	1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		168.91	72.57
		For Work In Restricted Working Space, Add		*48.38*	
40 05 23 23-0416	EA	1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		184.37	79.09
		For Work In Restricted Working Space, Add		*52.73*	
40 05 23 23-0417	EA	1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		203.65	87.35
		For Work In Restricted Working Space, Add		*58.23*	
40 05 23 23-0418	EA	2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		227.78	97.18
		For Work In Restricted Working Space, Add		*64.78*	
40 05 23 23-0419	EA	2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		296.61	124.37
		For Work In Restricted Working Space, Add		*82.91*	
40 05 23 23-0420	EA	3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		347.97	145.76
		For Work In Restricted Working Space, Add		*97.17*	
40 05 23 23-0421	EA	4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		427.04	174.47
		For Work In Restricted Working Space, Add		*116.31*	
40 05 23 23-0422	EA	6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		589.73	217.94
		For Work In Restricted Working Space, Add		*145.30*	
40 05 23 23-0423	EA	8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		1,005.73	365.55
		For Work In Restricted Working Space, Add		*243.69*	
40 05 23 23-0424	EA	10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		1,498.01	487.38
		For Work In Restricted Working Space, Add		*324.92*	
40 05 23 23-0425	EA	12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		2,263.91	731.07
		For Work In Restricted Working Space, Add		*487.38*	
40 05 23 23-0426	EA	14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		2,680.03	852.92
		For Work In Restricted Working Space, Add		*568.61*	
40 05 23 23-0427	EA	16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		3,155.70	972.90
		For Work In Restricted Working Space, Add		*648.61*	
40 05 23 23-0428	EA	18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		3,991.33	1,218.46
		For Work In Restricted Working Space, Add		*812.30*	
40 05 23 23-0429	EA	20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		5,562.73	1,705.84
		For Work In Restricted Working Space, Add		*1,137.23*	
40 05 23 23-0430	EA	24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow		7,988.74	2,436.91
		For Work In Restricted Working Space, Add		*1,624.61*	
40 05 23 23-0431		Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow *(40 05 23 23-0392)*			
40 05 23 23-0432	EA	1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		146.64	62.22
		For Work In Restricted Working Space, Add		*41.47*	
40 05 23 23-0433	EA	3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		155.15	66.03
		For Work In Restricted Working Space, Add		*44.03*	
40 05 23 23-0434	EA	1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		171.20	72.57
		For Work In Restricted Working Space, Add		*48.38*	
40 05 23 23-0435	EA	1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		187.43	79.09
		For Work In Restricted Working Space, Add		*52.73*	
40 05 23 23-0436	EA	1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		204.03	87.35
		For Work In Restricted Working Space, Add		*58.23*	
40 05 23 23-0437	EA	2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		227.78	97.18
		For Work In Restricted Working Space, Add		*64.78*	
40 05 23 23-0438	EA	2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		294.70	124.37
		For Work In Restricted Working Space, Add		*82.91*	
40 05 23 23-0439	EA	3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		344.53	145.76
		For Work In Restricted Working Space, Add		*97.17*	
40 05 23 23-0440	EA	4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		420.54	174.47
		For Work In Restricted Working Space, Add		*116.31*	
40 05 23 23-0441	EA	6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		555.74	217.94
		For Work In Restricted Working Space, Add		*145.30*	
40 05 23 23-0442	EA	8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		940.17	365.55
		For Work In Restricted Working Space, Add		*243.69*	
40 05 23 23-0443	EA	10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		1,381.29	487.38
		For Work In Restricted Working Space, Add		*324.92*	
40 05 23 23-0444	EA	12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		2,079.12	731.07
		For Work In Restricted Working Space, Add		*487.38*	
40 05 23 23-0445	EA	14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		2,453.22	852.92
		For Work In Restricted Working Space, Add		*568.61*	
40 05 23 23-0446	EA	16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		2,875.77	972.90
		For Work In Restricted Working Space, Add		*648.61*	
40 05 23 23-0447	EA	18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		3,623.72	1,218.46
		For Work In Restricted Working Space, Add		*812.30*	
40 05 23 23-0448	EA	20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		5,066.70	1,705.84
		For Work In Restricted Working Space, Add		*1,137.23*	
40 05 23 23-0449	EA	24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow		7,285.09	2,436.91
		For Work In Restricted Working Space, Add		*1,624.61*	
40 05 23 23-0450		Type 304, Schedule 10 Stainless Steel Butt Weld Tee *(40 05 23 23-0392)*			

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0451	EA	1/2", Type 304, Schedule 10 Stainless Steel Tee	196.71	79.07
		For Work In Restricted Working Space, Add	*52.71*	
40 05 23 23-0452	EA	3/4", Type 304, Schedule 10 Stainless Steel Tee	236.69	97.07
		For Work In Restricted Working Space, Add	*64.71*	
40 05 23 23-0453	EA	1", Type 304, Schedule 10 Stainless Steel Tee	263.35	109.07
		For Work In Restricted Working Space, Add	*72.71*	
40 05 23 23-0454	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Tee	299.70	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0455	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Tee	317.66	133.50
		For Work In Restricted Working Space, Add	*89.00*	
40 05 23 23-0456	EA	2", Type 304, Schedule 10 Stainless Steel Tee	346.10	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0457	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Tee	451.29	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0458	EA	3", Type 304, Schedule 10 Stainless Steel Tee	527.12	218.64
		For Work In Restricted Working Space, Add	*145.76*	
40 05 23 23-0459	EA	4", Type 304, Schedule 10 Stainless Steel Tee	607.16	245.38
		For Work In Restricted Working Space, Add	*163.59*	
40 05 23 23-0460	EA	6", Type 304, Schedule 10 Stainless Steel Tee	891.66	327.17
		For Work In Restricted Working Space, Add	*218.12*	
40 05 23 23-0461	EA	8", Type 304, Schedule 10 Stainless Steel Tee	1,471.20	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0462	EA	10", Type 304, Schedule 10 Stainless Steel Tee	2,263.91	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0463	EA	12", Type 304, Schedule 10 Stainless Steel Tee	2,918.77	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0464	EA	14", Type 304, Schedule 10 Stainless Steel Tee	3,598.26	1,098.18
		For Work In Restricted Working Space, Add	*732.12*	
40 05 23 23-0465	EA	16", Type 304, Schedule 10 Stainless Steel Tee	4,355.90	1,339.66
		For Work In Restricted Working Space, Add	*893.11*	
40 05 23 23-0466	EA	18", Type 304, Schedule 10 Stainless Steel Tee	5,542.36	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	
40 05 23 23-0467	EA	20", Type 304, Schedule 10 Stainless Steel Tee	7,422.64	2,244.52
		For Work In Restricted Working Space, Add	*1,496.35*	
40 05 23 23-0468	EA	24", Type 304, Schedule 10 Stainless Steel Tee	11,113.65	3,411.67
		For Work In Restricted Working Space, Add	*2,274.45*	

40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees *(40 05 23 23-0392)*

40 05 23 23-0470	EA	3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee	184.24	66.06
		For Work In Restricted Working Space, Add	*44.04*	
40 05 23 23-0471	EA	1", Type 304, Schedule 10 Stainless Steel Reducing Tee	217.31	80.95
		For Work In Restricted Working Space, Add	*53.96*	
40 05 23 23-0472	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee	270.46	90.96
		For Work In Restricted Working Space, Add	*60.64*	
40 05 23 23-0473	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee	277.39	103.69
		For Work In Restricted Working Space, Add	*69.13*	
40 05 23 23-0474	EA	2", Type 304, Schedule 10 Stainless Steel Reducing Tee	290.00	111.41
		For Work In Restricted Working Space, Add	*74.28*	
40 05 23 23-0475	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee	384.78	121.42
		For Work In Restricted Working Space, Add	*80.95*	
40 05 23 23-0476	EA	3", Type 304, Schedule 10 Stainless Steel Reducing Tee	452.51	145.54
		For Work In Restricted Working Space, Add	*97.03*	
40 05 23 23-0477	EA	4", Type 304, Schedule 10 Stainless Steel Reducing Tee	557.00	181.91
		For Work In Restricted Working Space, Add	*121.27*	
40 05 23 23-0478	EA	6", Type 304, Schedule 10 Stainless Steel Reducing Tee	743.74	207.85
		For Work In Restricted Working Space, Add	*138.57*	
40 05 23 23-0479	EA	8", Type 304, Schedule 10 Stainless Steel Reducing Tee	1,422.62	304.61
		For Work In Restricted Working Space, Add	*203.07*	
40 05 23 23-0480	EA	10", Type 304, Schedule 10 Stainless Steel Reducing Tee	2,373.80	406.16
		For Work In Restricted Working Space, Add	*270.77*	
40 05 23 23-0481	EA	12", Type 304, Schedule 10 Stainless Steel Reducing Tee	3,383.13	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-0482	EA	14", Type 304, Schedule 10 Stainless Steel Reducing Tee	4,106.77	731.92
		For Work In Restricted Working Space, Add	*487.94*	
40 05 23 23-0483	EA	16", Type 304, Schedule 10 Stainless Steel Reducing Tee	5,090.29	892.80
		For Work In Restricted Working Space, Add	*595.20*	
40 05 23 23-0484	EA	18", Type 304, Schedule 10 Stainless Steel Reducing Tee	6,577.94	1,137.23
		For Work In Restricted Working Space, Add	*758.15*	
40 05 23 23-0485	EA	20", Type 304, Schedule 10 Stainless Steel Reducing Tee	9,391.34	1,496.35
		For Work In Restricted Working Space, Add	*997.57*	
40 05 23 23-0486	EA	24", Type 304, Schedule 10 Stainless Steel Reducing Tee	14,711.27	2,272.42
		For Work In Restricted Working Space, Add	*1,514.96*	

40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers *(40 05 23 23-0392)*

40 05 23 23-0488	EA	3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer	146.48	60.08
		For Work In Restricted Working Space, Add	*40.05*	
40 05 23 23-0489	EA	1", Type 304, Schedule 10 Stainless Steel Concentric Reducer	161.52	65.46
		For Work In Restricted Working Space, Add	*43.64*	
40 05 23 23-0490	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer	179.05	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0491	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	189.89	79.09
		For Work In Restricted Working Space, Add	*52.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0492	EA	2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	206.70	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0493	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	279.98	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0494	EA	3", Type 304, Schedule 10 Stainless Steel Concentric Reducer	316.23	124.26
		For Work In Restricted Working Space, Add	*82.84*	
40 05 23 23-0495	EA	4", Type 304, Schedule 10 Stainless Steel Concentric Reducer	369.47	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0496	EA	6", Type 304, Schedule 10 Stainless Steel Concentric Reducer	477.62	185.37
		For Work In Restricted Working Space, Add	*123.58*	
40 05 23 23-0497	EA	8", Type 304, Schedule 10 Stainless Steel Concentric Reducer	755.35	292.43
		For Work In Restricted Working Space, Add	*194.96*	
40 05 23 23-0498	EA	10", Type 304, Schedule 10 Stainless Steel Concentric Reducer	962.84	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0499	EA	12", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,296.31	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0500	EA	14", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,865.04	639.69
		For Work In Restricted Working Space, Add	*426.46*	
40 05 23 23-0501	EA	16", Type 304, Schedule 10 Stainless Steel Concentric Reducer	2,186.73	728.99
		For Work In Restricted Working Space, Add	*485.99*	
40 05 23 23-0502	EA	18", Type 304, Schedule 10 Stainless Steel Concentric Reducer	2,686.97	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0503	EA	20", Type 304, Schedule 10 Stainless Steel Concentric Reducer	3,791.77	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0504	EA	24", Type 304, Schedule 10 Stainless Steel Concentric Reducer	5,445.93	1,827.69
		For Work In Restricted Working Space, Add	*1,218.46*	
40 05 23 23-0505	EA	3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	182.38	60.08
		For Work In Restricted Working Space, Add	*40.05*	
40 05 23 23-0506	EA	1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	187.87	65.46
		For Work In Restricted Working Space, Add	*43.64*	
40 05 23 23-0507	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	197.10	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0508	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	222.73	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0509	EA	2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	230.38	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0510	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	305.95	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0511	EA	3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	341.82	124.26
		For Work In Restricted Working Space, Add	*82.84*	
40 05 23 23-0512	EA	4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	389.26	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0513	EA	6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	549.03	185.37
		For Work In Restricted Working Space, Add	*123.58*	
40 05 23 23-0514	EA	8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	908.45	292.43
		For Work In Restricted Working Space, Add	*194.96*	
40 05 23 23-0515	EA	10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,261.46	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0516	EA	12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,572.24	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0517	EA	14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,501.57	639.69
		For Work In Restricted Working Space, Add	*426.46*	
40 05 23 23-0518	EA	16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,916.10	728.99
		For Work In Restricted Working Space, Add	*485.99*	
40 05 23 23-0519	EA	18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	3,577.13	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0520	EA	20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	5,218.22	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0521	EA	24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	7,336.42	1,827.69
		For Work In Restricted Working Space, Add	*1,218.46*	

40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps *(40 05 23 23-0392)*

40 05 23 23-0523	EA	1/2", Type 304, Schedule 10 Stainless Steel Cap	80.96	31.11
		For Work In Restricted Working Space, Add	*20.74*	
40 05 23 23-0524	EA	3/4", Type 304, Schedule 10 Stainless Steel Cap	89.41	33.02
		For Work In Restricted Working Space, Add	*22.01*	
40 05 23 23-0525	EA	1", Type 304, Schedule 10 Stainless Steel Cap	98.20	36.28
		For Work In Restricted Working Space, Add	*24.19*	
40 05 23 23-0526	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Cap	108.33	39.55
		For Work In Restricted Working Space, Add	*26.36*	
40 05 23 23-0527	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Cap	115.77	43.67
		For Work In Restricted Working Space, Add	*29.12*	
40 05 23 23-0528	EA	2", Type 304, Schedule 10 Stainless Steel Cap	124.39	48.59
		For Work In Restricted Working Space, Add	*32.39*	
40 05 23 23-0529	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Cap	161.88	62.19
		For Work In Restricted Working Space, Add	*41.46*	
40 05 23 23-0530	EA	3", Type 304, Schedule 10 Stainless Steel Cap	182.20	72.89
		For Work In Restricted Working Space, Add	*48.59*	
40 05 23 23-0531	EA	4", Type 304, Schedule 10 Stainless Steel Cap	219.83	87.23
		For Work In Restricted Working Space, Add	*58.16*	
40 05 23 23-0532	EA	6", Type 304, Schedule 10 Stainless Steel Cap	284.94	109.15
		For Work In Restricted Working Space, Add	*72.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0533	EA	8", Type 304, Schedule 10 Stainless Steel Cap	482.47	182.77
		For Work In Restricted Working Space, Add	*121.85*	
40 05 23 23-0534	EA	10", Type 304, Schedule 10 Stainless Steel Cap	642.35	243.69
		For Work In Restricted Working Space, Add	*162.46*	
40 05 23 23-0535	EA	12", Type 304, Schedule 10 Stainless Steel Cap	943.67	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0536	EA	14", Type 304, Schedule 10 Stainless Steel Cap	1,108.70	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-0537	EA	16", Type 304, Schedule 10 Stainless Steel Cap	1,288.68	486.46
		For Work In Restricted Working Space, Add	*324.31*	
40 05 23 23-0538	EA	18", Type 304, Schedule 10 Stainless Steel Cap	1,629.68	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-0539	EA	20", Type 304, Schedule 10 Stainless Steel Cap	2,246.09	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0540	EA	24", Type 304, Schedule 10 Stainless Steel Cap	3,325.66	1,218.45
		For Work In Restricted Working Space, Add	*812.30*	

40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings *(40 05 23 23-0231)*

40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe *(40 05 23 23-0541)*

40 05 23 23-0543	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	20.90	5.46
		For Work In Restricted Working Space, Add	*3.28*	
40 05 23 23-0544	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	25.41	6.67
		For Work In Restricted Working Space, Add	*4.01*	
40 05 23 23-0545	LF	1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	30.97	7.89
		For Work In Restricted Working Space, Add	*4.70*	
40 05 23 23-0546	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	38.71	9.70
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0547	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	44.48	10.92
		For Work In Restricted Working Space, Add	*6.62*	
40 05 23 23-0548	LF	2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	56.77	13.95
		For Work In Restricted Working Space, Add	*8.19*	
40 05 23 23-0549	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	69.83	15.76
		For Work In Restricted Working Space, Add	*9.36*	
40 05 23 23-0550	LF	3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	69.15	17.59
		For Work In Restricted Working Space, Add	*10.55*	
40 05 23 23-0551	LF	4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	110.36	20.62
		For Work In Restricted Working Space, Add	*12.48*	
40 05 23 23-0552	LF	6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	169.50	27.28
		For Work In Restricted Working Space, Add	*16.39*	
40 05 23 23-0553	LF	8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	300.31	48.02
		For Work In Restricted Working Space, Add	*31.01*	
40 05 23 23-0554	LF	10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	376.29	53.07
		For Work In Restricted Working Space, Add	*34.12*	
40 05 23 23-0555	LF	12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	465.51	58.75
		For Work In Restricted Working Space, Add	*37.91*	

40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows *(40 05 23 23-0541)*

40 05 23 23-0557	EA	1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	146.26	62.22
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-0558	EA	3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	154.77	66.03
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-0559	EA	1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	170.05	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0560	EA	1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	185.20	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0561	EA	1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	204.41	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0562	EA	2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	230.45	97.18
		For Work In Restricted Working Space, Add	*64.78*	
40 05 23 23-0563	EA	2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	306.54	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0564	EA	3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	362.48	145.76
		For Work In Restricted Working Space, Add	*97.17*	
40 05 23 23-0565	EA	4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	451.48	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0566	EA	6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	745.92	217.94
		For Work In Restricted Working Space, Add	*145.30*	
40 05 23 23-0567	EA	8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	1,218.57	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0568	EA	10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	1,929.84	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0569	EA	12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	2,824.02	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0570	EA	14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	3,359.52	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0571	EA	16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	4,028.60	972.90
		For Work In Restricted Working Space, Add	*648.61*	
40 05 23 23-0572	EA	18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	5,204.20	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0573	EA	20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	7,059.75	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	
40 05 23 23-0574	EA	24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	10,124.49	2,436.91
		For Work In Restricted Working Space, Add	*1,624.61*	
40 05 23 23-0575		**Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows** *(40 05 23 23-0541)*		
40 05 23 23-0576	EA	1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	148.93	62.22
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-0577	EA	3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	157.44	66.03
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-0578	EA	1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	171.96	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0579	EA	1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	187.15	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0580	EA	1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	206.32	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0581	EA	2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	230.86	97.18
		For Work In Restricted Working Space, Add	*64.78*	
40 05 23 23-0582	EA	2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	306.54	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0583	EA	3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	351.79	145.76
		For Work In Restricted Working Space, Add	*97.17*	
40 05 23 23-0584	EA	4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	457.21	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0585	EA	6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	615.69	217.94
		For Work In Restricted Working Space, Add	*145.30*	
40 05 23 23-0586	EA	8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	1,082.04	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0587	EA	10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	1,588.76	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0588	EA	12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	2,320.84	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0589	EA	14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	2,623.68	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0590	EA	16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	3,152.49	972.90
		For Work In Restricted Working Space, Add	*648.61*	
40 05 23 23-0591	EA	18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	3,981.94	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0592	EA	20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	5,410.48	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	
40 05 23 23-0593	EA	24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	7,868.82	2,436.91
		For Work In Restricted Working Space, Add	*1,624.61*	
40 05 23 23-0594		**Type 304, Schedule 40 Stainless Steel Butt Weld Tees** *(40 05 23 23-0541)*		
40 05 23 23-0595	EA	1/2", Type 304, Schedule 40 Stainless Steel Tee	198.24	79.07
		For Work In Restricted Working Space, Add	*52.71*	
40 05 23 23-0596	EA	3/4", Type 304, Schedule 40 Stainless Steel Tee	238.22	97.07
		For Work In Restricted Working Space, Add	*64.71*	
40 05 23 23-0597	EA	1", Type 304, Schedule 40 Stainless Steel Tee	264.88	109.07
		For Work In Restricted Working Space, Add	*72.71*	
40 05 23 23-0598	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Tee	303.59	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0599	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Tee	319.19	133.50
		For Work In Restricted Working Space, Add	*89.00*	
40 05 23 23-0600	EA	2", Type 304, Schedule 40 Stainless Steel Tee	348.01	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0601	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Tee	456.44	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0602	EA	3", Type 304, Schedule 40 Stainless Steel Tee	535.14	218.64
		For Work In Restricted Working Space, Add	*145.76*	
40 05 23 23-0603	EA	4", Type 304, Schedule 40 Stainless Steel Tee	615.94	245.38
		For Work In Restricted Working Space, Add	*163.59*	
40 05 23 23-0604	EA	6", Type 304, Schedule 40 Stainless Steel Tee	952.38	327.17
		For Work In Restricted Working Space, Add	*218.12*	
40 05 23 23-0605	EA	8", Type 304, Schedule 40 Stainless Steel Tee	1,651.44	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0606	EA	10", Type 304, Schedule 40 Stainless Steel Tee	2,817.03	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0607	EA	12", Type 304, Schedule 40 Stainless Steel Tee	3,501.98	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0608	EA	14", Type 304, Schedule 40 Stainless Steel Tee	4,773.45	1,098.18
		For Work In Restricted Working Space, Add	*732.12*	
40 05 23 23-0609	EA	16", Type 304, Schedule 40 Stainless Steel Tee	6,071.60	1,339.66
		For Work In Restricted Working Space, Add	*893.11*	
40 05 23 23-0610	EA	18", Type 304, Schedule 40 Stainless Steel Tee	7,871.86	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	
40 05 23 23-0611	EA	20", Type 304, Schedule 40 Stainless Steel Tee	10,155.10	2,244.52
		For Work In Restricted Working Space, Add	*1,496.35*	
40 05 23 23-0612	EA	24", Type 304, Schedule 40 Stainless Steel Tee	15,551.49	3,411.67
		For Work In Restricted Working Space, Add	*2,274.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0613		**Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees** *(40 05 23 23-0541)*		
40 05 23 23-0614	EA	3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee	189.20	66.06
		For Work In Restricted Working Space, Add	*44.04*	
40 05 23 23-0615	EA	1", Type 304, Schedule 40 Stainless Steel Reducing Tee	222.27	80.95
		For Work In Restricted Working Space, Add	*53.96*	
40 05 23 23-0616	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee	294.34	90.96
		For Work In Restricted Working Space, Add	*60.64*	
40 05 23 23-0617	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee	284.65	103.69
		For Work In Restricted Working Space, Add	*69.13*	
40 05 23 23-0618	EA	2", Type 304, Schedule 40 Stainless Steel Reducing Tee	290.00	111.41
		For Work In Restricted Working Space, Add	*74.28*	
40 05 23 23-0619	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee	360.38	121.42
		For Work In Restricted Working Space, Add	*80.95*	
40 05 23 23-0620	EA	3", Type 304, Schedule 40 Stainless Steel Reducing Tee	398.66	145.54
		For Work In Restricted Working Space, Add	*97.03*	
40 05 23 23-0621	EA	4", Type 304, Schedule 40 Stainless Steel Reducing Tee	528.74	181.91
		For Work In Restricted Working Space, Add	*121.27*	
40 05 23 23-0622	EA	6", Type 304, Schedule 40 Stainless Steel Reducing Tee	748.33	207.85
		For Work In Restricted Working Space, Add	*138.57*	
40 05 23 23-0623	EA	8", Type 304, Schedule 40 Stainless Steel Reducing Tee	1,260.53	304.61
		For Work In Restricted Working Space, Add	*203.07*	
40 05 23 23-0624	EA	10", Type 304, Schedule 40 Stainless Steel Reducing Tee	2,424.52	406.16
		For Work In Restricted Working Space, Add	*270.77*	
40 05 23 23-0625	EA	12", Type 304, Schedule 40 Stainless Steel Reducing Tee	3,484.59	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-0626	EA	14", Type 304, Schedule 40 Stainless Steel Reducing Tee	3,964.41	731.92
		For Work In Restricted Working Space, Add	*487.94*	
40 05 23 23-0627	EA	16", Type 304, Schedule 40 Stainless Steel Reducing Tee	4,911.99	892.80
		For Work In Restricted Working Space, Add	*595.20*	
40 05 23 23-0628	EA	18", Type 304, Schedule 40 Stainless Steel Reducing Tee	6,345.43	1,137.23
		For Work In Restricted Working Space, Add	*758.15*	
40 05 23 23-0629	EA	20", Type 304, Schedule 40 Stainless Steel Reducing Tee	9,043.15	1,496.35
		For Work In Restricted Working Space, Add	*997.57*	
40 05 23 23-0630	EA	24", Type 304, Schedule 40 Stainless Steel Reducing Tee	14,156.72	2,272.42
		For Work In Restricted Working Space, Add	*1,514.96*	
40 05 23 23-0631		**Type 304, Schedule 40 Stainless Steel Butt Weld Reducers** *(40 05 23 23-0541)*		
40 05 23 23-0632	EA	3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	150.30	60.08
		For Work In Restricted Working Space, Add	*40.05*	
40 05 23 23-0633	EA	1", Type 304, Schedule 40 Stainless Steel Concentric Reducer	165.34	65.46
		For Work In Restricted Working Space, Add	*43.64*	
40 05 23 23-0634	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	179.32	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0635	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	193.71	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0636	EA	2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	208.99	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0637	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	279.98	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0638	EA	3", Type 304, Schedule 40 Stainless Steel Concentric Reducer	302.48	124.26
		For Work In Restricted Working Space, Add	*82.84*	
40 05 23 23-0639	EA	4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	349.92	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0640	EA	6", Type 304, Schedule 40 Stainless Steel Concentric Reducer	480.67	185.37
		For Work In Restricted Working Space, Add	*123.58*	
40 05 23 23-0641	EA	8", Type 304, Schedule 40 Stainless Steel Concentric Reducer	820.20	292.43
		For Work In Restricted Working Space, Add	*194.96*	
40 05 23 23-0642	EA	10", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,074.21	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0643	EA	12", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,395.70	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0644	EA	14", Type 304, Schedule 40 Stainless Steel Concentric Reducer	2,088.10	639.69
		For Work In Restricted Working Space, Add	*426.46*	
40 05 23 23-0645	EA	16", Type 304, Schedule 40 Stainless Steel Concentric Reducer	2,467.14	728.99
		For Work In Restricted Working Space, Add	*485.99*	
40 05 23 23-0646	EA	18", Type 304, Schedule 40 Stainless Steel Concentric Reducer	3,254.82	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0647	EA	20", Type 304, Schedule 40 Stainless Steel Concentric Reducer	4,461.57	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0648	EA	24", Type 304, Schedule 40 Stainless Steel Concentric Reducer	6,139.58	1,827.69
		For Work In Restricted Working Space, Add	*1,218.46*	
40 05 23 23-0649	EA	3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	183.94	60.08
		For Work In Restricted Working Space, Add	*40.05*	
40 05 23 23-0650	EA	1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	195.89	65.46
		For Work In Restricted Working Space, Add	*43.64*	
40 05 23 23-0651	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	224.60	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0652	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	236.86	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0653	EA	2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	252.15	87.35
		For Work In Restricted Working Space, Add	*58.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0654	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	305.95	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0655	EA	3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	389.17	124.26
		For Work In Restricted Working Space, Add	*82.84*	
40 05 23 23-0656	EA	4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	421.34	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0657	EA	6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	580.73	185.37
		For Work In Restricted Working Space, Add	*123.58*	
40 05 23 23-0658	EA	8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	911.76	292.43
		For Work In Restricted Working Space, Add	*194.96*	
40 05 23 23-0659	EA	10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	1,258.58	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0660	EA	12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	1,722.37	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0661	EA	14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	2,888.80	639.69
		For Work In Restricted Working Space, Add	*426.46*	
40 05 23 23-0662	EA	16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	3,275.26	728.99
		For Work In Restricted Working Space, Add	*485.99*	
40 05 23 23-0663	EA	18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	4,300.28	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0664	EA	20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	5,575.10	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0665	EA	24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	8,918.25	1,827.69
		For Work In Restricted Working Space, Add	*1,218.46*	

40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps *(40 05 23 23-0541)*

40 05 23 23-0667	EA	1/2", Type 304, Schedule 40 Stainless Steel Cap	82.10	31.11
		For Work In Restricted Working Space, Add	*20.74*	
40 05 23 23-0668	EA	3/4", Type 304, Schedule 40 Stainless Steel Cap	88.26	33.02
		For Work In Restricted Working Space, Add	*22.01*	
40 05 23 23-0669	EA	1", Type 304, Schedule 40 Stainless Steel Cap	99.34	36.28
		For Work In Restricted Working Space, Add	*24.19*	
40 05 23 23-0670	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Cap	113.43	39.55
		For Work In Restricted Working Space, Add	*26.36*	
40 05 23 23-0671	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Cap	120.74	43.67
		For Work In Restricted Working Space, Add	*29.12*	
40 05 23 23-0672	EA	2", Type 304, Schedule 40 Stainless Steel Cap	124.01	48.59
		For Work In Restricted Working Space, Add	*32.39*	
40 05 23 23-0673	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Cap	159.31	62.19
		For Work In Restricted Working Space, Add	*41.46*	
40 05 23 23-0674	EA	3", Type 304, Schedule 40 Stainless Steel Cap	183.73	72.89
		For Work In Restricted Working Space, Add	*48.59*	
40 05 23 23-0675	EA	4", Type 304, Schedule 40 Stainless Steel Cap	224.41	87.23
		For Work In Restricted Working Space, Add	*58.16*	
40 05 23 23-0676	EA	6", Type 304, Schedule 40 Stainless Steel Cap	313.20	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0677	EA	8", Type 304, Schedule 40 Stainless Steel Cap	527.84	182.77
		For Work In Restricted Working Space, Add	*121.85*	
40 05 23 23-0678	EA	10", Type 304, Schedule 40 Stainless Steel Cap	706.51	243.69
		For Work In Restricted Working Space, Add	*162.46*	
40 05 23 23-0679	EA	12", Type 304, Schedule 40 Stainless Steel Cap	1,065.95	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0680	EA	14", Type 304, Schedule 40 Stainless Steel Cap	1,220.71	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-0681	EA	16", Type 304, Schedule 40 Stainless Steel Cap	1,442.77	486.46
		For Work In Restricted Working Space, Add	*324.31*	
40 05 23 23-0682	EA	18", Type 304, Schedule 40 Stainless Steel Cap	1,812.30	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-0683	EA	20", Type 304, Schedule 40 Stainless Steel Cap	2,489.63	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0684	EA	24", Type 304, Schedule 40 Stainless Steel Cap	3,732.85	1,218.45
		For Work In Restricted Working Space, Add	*812.30*	

40 05 23 23-0685 Type 304, Schedule 40 Stainless Steel Butt Half Coupling *(40 05 23 23-0541)*

Note: Threaded Female x Butt Weld Straight Adapter

40 05 23 23-0686	EA	1/2", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	131.88	62.22
		For Work In Restricted Working Space, Add	*37.33*	
40 05 23 23-0687	EA	3/4", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	140.93	66.09
		For Work In Restricted Working Space, Add	*39.62*	
40 05 23 23-0688	EA	1", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	160.70	72.52
		For Work In Restricted Working Space, Add	*43.55*	
40 05 23 23-0689	EA	1-1/4", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	177.88	79.07
		For Work In Restricted Working Space, Add	*47.44*	
40 05 23 23-0690	EA	1-1/2", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	199.97	87.31
		For Work In Restricted Working Space, Add	*52.39*	
40 05 23 23-0691	EA	2", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	228.94	97.14
		For Work In Restricted Working Space, Add	*58.32*	
40 05 23 23-0692	EA	2-1/2", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	320.02	124.43
		For Work In Restricted Working Space, Add	*74.62*	
40 05 23 23-0693	EA	3", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	410.67	145.78
		For Work In Restricted Working Space, Add	*87.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0694	EA	4", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	496.03	174.52
		For Work In Restricted Working Space, Add	*104.67*	

40 05 23 23-0695 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings *(40 05 23 23-0231)*

40 05 23 23-0696 Type 316, Schedule 10 Stainless Steel Pipe *(40 05 23 23-0695)*

40 05 23 23-0697	LF	1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	21.44	5.46
		For Work In Restricted Working Space, Add	*3.28*	
40 05 23 23-0698	LF	3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	25.52	6.67
		For Work In Restricted Working Space, Add	*4.01*	
40 05 23 23-0699	LF	1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	33.78	7.89
		For Work In Restricted Working Space, Add	*4.70*	
40 05 23 23-0700	LF	1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	41.24	9.83
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0701	LF	1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	45.88	11.04
		For Work In Restricted Working Space, Add	*6.62*	
40 05 23 23-0702	LF	2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	56.74	13.70
		For Work In Restricted Working Space, Add	*8.19*	
40 05 23 23-0703	LF	2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	67.82	15.64
		For Work In Restricted Working Space, Add	*9.36*	
40 05 23 23-0704	LF	3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	80.02	17.59
		For Work In Restricted Working Space, Add	*10.55*	
40 05 23 23-0705	LF	4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	100.46	20.85
		For Work In Restricted Working Space, Add	*12.48*	
40 05 23 23-0706	LF	6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	146.51	27.40
		For Work In Restricted Working Space, Add	*16.39*	
40 05 23 23-0707	LF	8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	244.08	48.26
		For Work In Restricted Working Space, Add	*31.01*	
40 05 23 23-0708	LF	10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	311.85	53.07
		For Work In Restricted Working Space, Add	*34.12*	
40 05 23 23-0709	LF	12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	373.30	59.01
		For Work In Restricted Working Space, Add	*37.91*	
40 05 23 23-0710	LF	14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	459.34	66.34
		For Work In Restricted Working Space, Add	*42.65*	
40 05 23 23-0711	LF	16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	505.74	75.82
		For Work In Restricted Working Space, Add	*48.74*	
40 05 23 23-0712	LF	18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	566.59	88.45
		For Work In Restricted Working Space, Add	*56.86*	
40 05 23 23-0713	LF	20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	786.83	106.14
		For Work In Restricted Working Space, Add	*68.24*	
40 05 23 23-0714	LF	24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	1,026.20	132.68
		For Work In Restricted Working Space, Add	*85.29*	

40 05 23 23-0715 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows *(40 05 23 23-0695)*

40 05 23 23-0716	EA	1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	146.64	62.22
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-0717	EA	3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	155.15	66.03
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-0718	EA	1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	171.20	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0719	EA	1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	187.70	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0720	EA	1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	205.94	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0721	EA	2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	230.45	97.18
		For Work In Restricted Working Space, Add	*64.78*	
40 05 23 23-0722	EA	2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	301.58	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0723	EA	3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	355.23	145.76
		For Work In Restricted Working Space, Add	*97.17*	
40 05 23 23-0724	EA	4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	438.11	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0725	EA	6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	618.75	217.94
		For Work In Restricted Working Space, Add	*145.30*	
40 05 23 23-0726	EA	8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	1,059.77	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0727	EA	10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	1,622.96	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0728	EA	12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	2,434.27	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0729	EA	14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	2,840.33	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0730	EA	16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	3,409.25	972.90
		For Work In Restricted Working Space, Add	*648.61*	
40 05 23 23-0731	EA	18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	4,295.37	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0732	EA	20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	5,997.06	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	
40 05 23 23-0733	EA	24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	8,634.12	2,436.91
		For Work In Restricted Working Space, Add	*1,624.61*	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0734		Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows *(40 05 23 23-0695)*		
40 05 23 23-0735	EA	1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	148.93	62.22
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-0736	EA	3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	157.44	66.03
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-0737	EA	1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	173.49	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0738	EA	1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	190.76	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0739	EA	1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	205.94	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0740	EA	2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	230.45	97.18
		For Work In Restricted Working Space, Add	*64.78*	
40 05 23 23-0741	EA	2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	299.28	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0742	EA	3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	351.79	145.76
		For Work In Restricted Working Space, Add	*97.17*	
40 05 23 23-0743	EA	4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	430.09	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0744	EA	6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	571.39	217.94
		For Work In Restricted Working Space, Add	*145.30*	
40 05 23 23-0745	EA	8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	974.80	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0746	EA	10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	1,588.76	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0747	EA	12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	2,320.84	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0748	EA	14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	2,734.05	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0749	EA	16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	3,214.38	972.90
		For Work In Restricted Working Space, Add	*648.61*	
40 05 23 23-0750	EA	18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	4,065.89	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0751	EA	20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	5,790.87	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	
40 05 23 23-0752	EA	24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	8,359.49	2,436.91
		For Work In Restricted Working Space, Add	*1,624.61*	
40 05 23 23-0753		Type 316, Schedule 10 Stainless Steel Butt Weld Tees *(40 05 23 23-0695)*		
40 05 23 23-0754	EA	1/2", Type 316, Schedule 10 Stainless Steel Tee	201.68	79.07
		For Work In Restricted Working Space, Add	*52.71*	
40 05 23 23-0755	EA	3/4", Type 316, Schedule 10 Stainless Steel Tee	241.66	97.07
		For Work In Restricted Working Space, Add	*64.71*	
40 05 23 23-0756	EA	1", Type 316, Schedule 10 Stainless Steel Tee	268.32	109.07
		For Work In Restricted Working Space, Add	*72.71*	
40 05 23 23-0757	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Tee	308.87	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0758	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Tee	324.92	133.50
		For Work In Restricted Working Space, Add	*89.00*	
40 05 23 23-0759	EA	2", Type 316, Schedule 10 Stainless Steel Tee	352.59	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0760	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Tee	430.47	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0761	EA	3", Type 316, Schedule 10 Stainless Steel Tee	539.72	218.64
		For Work In Restricted Working Space, Add	*145.76*	
40 05 23 23-0762	EA	4", Type 316, Schedule 10 Stainless Steel Tee	624.34	245.38
		For Work In Restricted Working Space, Add	*163.59*	
40 05 23 23-0763	EA	6", Type 316, Schedule 10 Stainless Steel Tee	940.93	327.17
		For Work In Restricted Working Space, Add	*218.12*	
40 05 23 23-0764	EA	8", Type 316, Schedule 10 Stainless Steel Tee	1,600.69	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0765	EA	10", Type 316, Schedule 10 Stainless Steel Tee	2,512.63	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0766	EA	12", Type 316, Schedule 10 Stainless Steel Tee	3,248.30	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0767	EA	14", Type 316, Schedule 10 Stainless Steel Tee	4,209.29	1,098.18
		For Work In Restricted Working Space, Add	*732.12*	
40 05 23 23-0768	EA	16", Type 316, Schedule 10 Stainless Steel Tee	4,947.64	1,339.66
		For Work In Restricted Working Space, Add	*893.11*	
40 05 23 23-0769	EA	18", Type 316, Schedule 10 Stainless Steel Tee	6,286.90	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	
40 05 23 23-0770	EA	20", Type 316, Schedule 10 Stainless Steel Tee	8,508.38	2,244.52
		For Work In Restricted Working Space, Add	*1,496.35*	
40 05 23 23-0771	EA	24", Type 316, Schedule 10 Stainless Steel Tee	12,065.91	3,411.67
		For Work In Restricted Working Space, Add	*2,274.45*	
40 05 23 23-0772		Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees *(40 05 23 23-0695)*		
40 05 23 23-0773	EA	3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee	196.08	66.06
		For Work In Restricted Working Space, Add	*44.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0774	EA	1", Type 316, Schedule 10 Stainless Steel Reducing Tee	231.44	80.95
		For Work In Restricted Working Space, Add	*53.96*	
40 05 23 23-0775	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee	287.68	90.96
		For Work In Restricted Working Space, Add	*60.64*	
40 05 23 23-0776	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee	289.23	103.69
		For Work In Restricted Working Space, Add	*69.13*	
40 05 23 23-0777	EA	2", Type 316, Schedule 10 Stainless Steel Reducing Tee	306.42	111.41
		For Work In Restricted Working Space, Add	*74.28*	
40 05 23 23-0778	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee	434.43	121.42
		For Work In Restricted Working Space, Add	*80.95*	
40 05 23 23-0779	EA	3", Type 316, Schedule 10 Stainless Steel Reducing Tee	407.83	145.54
		For Work In Restricted Working Space, Add	*97.03*	
40 05 23 23-0780	EA	4", Type 316, Schedule 10 Stainless Steel Reducing Tee	557.00	181.91
		For Work In Restricted Working Space, Add	*121.27*	
40 05 23 23-0781	EA	6", Type 316, Schedule 10 Stainless Steel Reducing Tee	814.40	207.85
		For Work In Restricted Working Space, Add	*138.57*	
40 05 23 23-0782	EA	8", Type 316, Schedule 10 Stainless Steel Reducing Tee	1,628.04	304.61
		For Work In Restricted Working Space, Add	*203.07*	
40 05 23 23-0783	EA	10", Type 316, Schedule 10 Stainless Steel Reducing Tee	3,058.89	406.16
		For Work In Restricted Working Space, Add	*270.77*	
40 05 23 23-0784	EA	12", Type 316, Schedule 10 Stainless Steel Reducing Tee	3,966.74	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-0785	EA	14", Type 316, Schedule 10 Stainless Steel Reducing Tee	4,493.44	731.92
		For Work In Restricted Working Space, Add	*487.94*	
40 05 23 23-0786	EA	16", Type 316, Schedule 10 Stainless Steel Reducing Tee	5,574.55	892.80
		For Work In Restricted Working Space, Add	*595.20*	
40 05 23 23-0787	EA	18", Type 316, Schedule 10 Stainless Steel Reducing Tee	7,209.44	1,137.23
		For Work In Restricted Working Space, Add	*758.15*	
40 05 23 23-0788	EA	20", Type 316, Schedule 10 Stainless Steel Reducing Tee	10,337.02	1,496.35
		For Work In Restricted Working Space, Add	*997.57*	
40 05 23 23-0789	EA	24", Type 316, Schedule 10 Stainless Steel Reducing Tee	16,217.44	2,272.42
		For Work In Restricted Working Space, Add	*1,514.96*	

40 05 23 23-0790 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers *(40 05 23 23-0695)*

40 05 23 23-0791	EA	3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer	149.92	60.08
		For Work In Restricted Working Space, Add	*40.05*	
40 05 23 23-0792	EA	1", Type 316, Schedule 10 Stainless Steel Concentric Reducer	165.72	65.46
		For Work In Restricted Working Space, Add	*43.64*	
40 05 23 23-0793	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer	185.16	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0794	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer	192.56	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0795	EA	2", Type 316, Schedule 10 Stainless Steel Concentric Reducer	208.99	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0796	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer	278.38	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0797	EA	3", Type 316, Schedule 10 Stainless Steel Concentric Reducer	325.40	124.26
		For Work In Restricted Working Space, Add	*82.84*	
40 05 23 23-0798	EA	4", Type 316, Schedule 10 Stainless Steel Concentric Reducer	352.64	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0799	EA	6", Type 316, Schedule 10 Stainless Steel Concentric Reducer	496.33	185.37
		For Work In Restricted Working Space, Add	*123.58*	
40 05 23 23-0800	EA	8", Type 316, Schedule 10 Stainless Steel Concentric Reducer	774.92	292.43
		For Work In Restricted Working Space, Add	*194.96*	
40 05 23 23-0801	EA	10", Type 316, Schedule 10 Stainless Steel Concentric Reducer	1,008.65	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0802	EA	12", Type 316, Schedule 10 Stainless Steel Concentric Reducer	1,350.35	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0803	EA	14", Type 316, Schedule 10 Stainless Steel Concentric Reducer	1,939.46	639.69
		For Work In Restricted Working Space, Add	*426.46*	
40 05 23 23-0804	EA	16", Type 316, Schedule 10 Stainless Steel Concentric Reducer	2,257.20	728.99
		For Work In Restricted Working Space, Add	*485.99*	
40 05 23 23-0805	EA	18", Type 316, Schedule 10 Stainless Steel Concentric Reducer	2,790.57	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0806	EA	20", Type 316, Schedule 10 Stainless Steel Concentric Reducer	3,951.83	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0807	EA	24", Type 316, Schedule 10 Stainless Steel Concentric Reducer	5,729.72	1,827.69
		For Work In Restricted Working Space, Add	*1,218.46*	
40 05 23 23-0808	EA	3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	179.61	60.08
		For Work In Restricted Working Space, Add	*40.05*	
40 05 23 23-0809	EA	1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	200.98	65.46
		For Work In Restricted Working Space, Add	*43.64*	
40 05 23 23-0810	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	226.96	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0811	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	241.45	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0812	EA	2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	239.16	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0813	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	320.08	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0814	EA	3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	368.17	124.26
		For Work In Restricted Working Space, Add	*82.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0815	EA	4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	410.64	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0816	EA	6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	596.01	185.37
		For Work In Restricted Working Space, Add	*123.58*	
40 05 23 23-0817	EA	8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	990.94	292.43
		For Work In Restricted Working Space, Add	*194.96*	
40 05 23 23-0818	EA	10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	1,380.67	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0819	EA	12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	1,736.39	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0820	EA	14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	2,671.53	639.69
		For Work In Restricted Working Space, Add	*426.46*	
40 05 23 23-0821	EA	16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	3,142.01	728.99
		For Work In Restricted Working Space, Add	*485.99*	
40 05 23 23-0822	EA	18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	3,889.87	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0823	EA	20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	5,709.97	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0824	EA	24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	7,817.65	1,827.69
		For Work In Restricted Working Space, Add	*1,218.46*	

40 05 23 23-0825 Type 316, Schedule 10 Stainless Steel Butt Weld Caps *(40 05 23 23-0695)*

40 05 23 23-0826	EA	1/2", Type 316, Schedule 10 Stainless Steel Cap	85.92	31.11
		For Work In Restricted Working Space, Add	*20.74*	
40 05 23 23-0827	EA	3/4", Type 316, Schedule 10 Stainless Steel Cap	95.90	33.02
		For Work In Restricted Working Space, Add	*22.01*	
40 05 23 23-0828	EA	1", Type 316, Schedule 10 Stainless Steel Cap	105.07	36.28
		For Work In Restricted Working Space, Add	*24.19*	
40 05 23 23-0829	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Cap	114.96	39.55
		For Work In Restricted Working Space, Add	*26.36*	
40 05 23 23-0830	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Cap	123.79	43.67
		For Work In Restricted Working Space, Add	*29.12*	
40 05 23 23-0831	EA	2", Type 316, Schedule 10 Stainless Steel Cap	128.97	48.59
		For Work In Restricted Working Space, Add	*32.39*	
40 05 23 23-0832	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Cap	160.42	62.19
		For Work In Restricted Working Space, Add	*41.46*	
40 05 23 23-0833	EA	3", Type 316, Schedule 10 Stainless Steel Cap	190.22	72.89
		For Work In Restricted Working Space, Add	*48.59*	
40 05 23 23-0834	EA	4", Type 316, Schedule 10 Stainless Steel Cap	227.85	87.23
		For Work In Restricted Working Space, Add	*58.16*	
40 05 23 23-0835	EA	6", Type 316, Schedule 10 Stainless Steel Cap	299.07	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0836	EA	8", Type 316, Schedule 10 Stainless Steel Cap	507.63	182.77
		For Work In Restricted Working Space, Add	*121.85*	
40 05 23 23-0837	EA	10", Type 316, Schedule 10 Stainless Steel Cap	672.90	243.69
		For Work In Restricted Working Space, Add	*162.46*	
40 05 23 23-0838	EA	12", Type 316, Schedule 10 Stainless Steel Cap	988.36	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0839	EA	14", Type 316, Schedule 10 Stainless Steel Cap	1,148.99	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-0840	EA	16", Type 316, Schedule 10 Stainless Steel Cap	1,322.72	486.46
		For Work In Restricted Working Space, Add	*324.31*	
40 05 23 23-0841	EA	18", Type 316, Schedule 10 Stainless Steel Cap	1,668.70	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-0842	EA	20", Type 316, Schedule 10 Stainless Steel Cap	2,308.33	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0843	EA	24", Type 316, Schedule 10 Stainless Steel Cap	3,517.27	1,218.45
		For Work In Restricted Working Space, Add	*812.30*	

40 05 23 23-0844 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings *(40 05 23 23-0231)*

40 05 23 23-0845 Type 316, Schedule 40 Stainless Steel Pipe *(40 05 23 23-0844)*

40 05 23 23-0846	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	24.24	5.46
		For Work In Restricted Working Space, Add	*3.28*	
40 05 23 23-0847	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	29.45	6.67
		For Work In Restricted Working Space, Add	*4.01*	
40 05 23 23-0848	LF	1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	36.09	7.89
		For Work In Restricted Working Space, Add	*4.70*	
40 05 23 23-0849	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	45.11	9.70
		For Work In Restricted Working Space, Add	*5.87*	
40 05 23 23-0850	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	51.98	10.92
		For Work In Restricted Working Space, Add	*6.62*	
40 05 23 23-0851	LF	2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	66.62	13.95
		For Work In Restricted Working Space, Add	*8.19*	
40 05 23 23-0852	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	82.75	15.76
		For Work In Restricted Working Space, Add	*9.36*	
40 05 23 23-0853	LF	3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	80.52	17.59
		For Work In Restricted Working Space, Add	*10.55*	
40 05 23 23-0854	LF	4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	133.36	20.62
		For Work In Restricted Working Space, Add	*12.48*	
40 05 23 23-0855	LF	6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	207.93	27.28
		For Work In Restricted Working Space, Add	*16.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0856	LF	8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	366.18	48.02
		For Work In Restricted Working Space, Add	*31.01*	
40 05 23 23-0857	LF	10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	464.12	53.07
		For Work In Restricted Working Space, Add	*34.12*	
40 05 23 23-0858	LF	12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	578.96	58.75
		For Work In Restricted Working Space, Add	*37.91*	
40 05 23 23-0859		Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows *(40 05 23 23-0844)*		
40 05 23 23-0860	EA	1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	148.55	62.22
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-0861	EA	3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	157.06	66.03
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-0862	EA	1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	173.11	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0863	EA	1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	188.54	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0864	EA	1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	207.85	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0865	EA	2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	235.04	97.18
		For Work In Restricted Working Space, Add	*64.78*	
40 05 23 23-0866	EA	2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	315.71	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0867	EA	3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	375.08	145.76
		For Work In Restricted Working Space, Add	*97.17*	
40 05 23 23-0868	EA	4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	481.65	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0869	EA	6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	771.51	217.94
		For Work In Restricted Working Space, Add	*145.30*	
40 05 23 23-0870	EA	8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	1,352.19	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0871	EA	10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	2,262.27	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0872	EA	12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	3,207.62	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0873	EA	14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	3,570.28	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0874	EA	16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	4,362.22	972.90
		For Work In Restricted Working Space, Add	*648.61*	
40 05 23 23-0875	EA	18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	5,580.60	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0876	EA	20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	7,508.71	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	
40 05 23 23-0877	EA	24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	10,915.90	2,436.91
		For Work In Restricted Working Space, Add	*1,624.61*	
40 05 23 23-0878		Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows *(40 05 23 23-0844)*		
40 05 23 23-0879	EA	1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	152.37	62.22
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-0880	EA	3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	160.88	66.03
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-0881	EA	1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	175.40	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0882	EA	1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	189.65	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0883	EA	1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	210.14	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0884	EA	2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	235.04	97.18
		For Work In Restricted Working Space, Add	*64.78*	
40 05 23 23-0885	EA	2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	315.71	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0886	EA	3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	360.19	145.76
		For Work In Restricted Working Space, Add	*97.17*	
40 05 23 23-0887	EA	4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	453.39	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0888	EA	6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	655.41	217.94
		For Work In Restricted Working Space, Add	*145.30*	
40 05 23 23-0889	EA	8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	1,147.63	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0890	EA	10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	1,790.85	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0891	EA	12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	2,576.55	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0892	EA	14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	2,917.13	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0893	EA	16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	3,290.66	972.90
		For Work In Restricted Working Space, Add	*648.61*	
40 05 23 23-0894	EA	18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	4,246.60	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0895	EA	20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	5,749.03	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0896	EA	24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	8,565.90	2,436.91
		For Work In Restricted Working Space, Add	*1,624.61*	

40 05 23 23-0897 Type 316, Schedule 40 Stainless Steel Butt Weld Tees *(40 05 23 23-0844)*

40 05 23 23-0898	EA	1/2", Type 316, Schedule 40 Stainless Steel Tee	203.97	79.07
		For Work In Restricted Working Space, Add	*52.71*	
40 05 23 23-0899	EA	3/4", Type 316, Schedule 40 Stainless Steel Tee	243.95	97.07
		For Work In Restricted Working Space, Add	*64.71*	
40 05 23 23-0900	EA	1", Type 316, Schedule 40 Stainless Steel Tee	270.61	109.07
		For Work In Restricted Working Space, Add	*72.71*	
40 05 23 23-0901	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Tee	312.20	124.37
		For Work In Restricted Working Space, Add	*82.91*	
40 05 23 23-0902	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Tee	324.92	133.50
		For Work In Restricted Working Space, Add	*89.00*	
40 05 23 23-0903	EA	2", Type 316, Schedule 40 Stainless Steel Tee	354.12	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0904	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Tee	444.08	174.47
		For Work In Restricted Working Space, Add	*116.31*	
40 05 23 23-0905	EA	3", Type 316, Schedule 40 Stainless Steel Tee	546.97	218.64
		For Work In Restricted Working Space, Add	*145.76*	
40 05 23 23-0906	EA	4", Type 316, Schedule 40 Stainless Steel Tee	636.95	245.38
		For Work In Restricted Working Space, Add	*163.59*	
40 05 23 23-0907	EA	6", Type 316, Schedule 40 Stainless Steel Tee	1,030.67	327.17
		For Work In Restricted Working Space, Add	*218.12*	
40 05 23 23-0908	EA	8", Type 316, Schedule 40 Stainless Steel Tee	1,831.26	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0909	EA	10", Type 316, Schedule 40 Stainless Steel Tee	3,121.40	731.07
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-0910	EA	12", Type 316, Schedule 40 Stainless Steel Tee	3,831.94	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0911	EA	14", Type 316, Schedule 40 Stainless Steel Tee	5,582.23	1,098.18
		For Work In Restricted Working Space, Add	*732.12*	
40 05 23 23-0912	EA	16", Type 316, Schedule 40 Stainless Steel Tee	6,926.09	1,339.66
		For Work In Restricted Working Space, Add	*893.11*	
40 05 23 23-0913	EA	18", Type 316, Schedule 40 Stainless Steel Tee	8,983.85	1,705.84
		For Work In Restricted Working Space, Add	*1,137.23*	
40 05 23 23-0914	EA	20", Type 316, Schedule 40 Stainless Steel Tee	11,659.30	2,244.52
		For Work In Restricted Working Space, Add	*1,496.35*	
40 05 23 23-0915	EA	24", Type 316, Schedule 40 Stainless Steel Tee	16,616.71	3,411.67
		For Work In Restricted Working Space, Add	*2,274.45*	

40 05 23 23-0916 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees *(40 05 23 23-0844)*

40 05 23 23-0917	EA	3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee	203.33	66.06
		For Work In Restricted Working Space, Add	*44.04*	
40 05 23 23-0918	EA	1", Type 316, Schedule 40 Stainless Steel Reducing Tee	236.40	80.95
		For Work In Restricted Working Space, Add	*53.96*	
40 05 23 23-0919	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee	318.23	90.96
		For Work In Restricted Working Space, Add	*60.64*	
40 05 23 23-0920	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee	301.07	103.69
		For Work In Restricted Working Space, Add	*69.13*	
40 05 23 23-0921	EA	2", Type 316, Schedule 40 Stainless Steel Reducing Tee	306.42	111.41
		For Work In Restricted Working Space, Add	*74.28*	
40 05 23 23-0922	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee	436.72	121.42
		For Work In Restricted Working Space, Add	*80.95*	
40 05 23 23-0923	EA	3", Type 316, Schedule 40 Stainless Steel Reducing Tee	424.25	145.54
		For Work In Restricted Working Space, Add	*97.03*	
40 05 23 23-0924	EA	4", Type 316, Schedule 40 Stainless Steel Reducing Tee	573.42	181.91
		For Work In Restricted Working Space, Add	*121.27*	
40 05 23 23-0925	EA	6", Type 316, Schedule 40 Stainless Steel Reducing Tee	824.71	207.85
		For Work In Restricted Working Space, Add	*138.57*	
40 05 23 23-0926	EA	8", Type 316, Schedule 40 Stainless Steel Reducing Tee	1,425.10	304.61
		For Work In Restricted Working Space, Add	*203.07*	
40 05 23 23-0927	EA	10", Type 316, Schedule 40 Stainless Steel Reducing Tee	3,109.63	406.16
		For Work In Restricted Working Space, Add	*270.77*	
40 05 23 23-0928	EA	12", Type 316, Schedule 40 Stainless Steel Reducing Tee	4,068.21	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-0929	EA	14", Type 316, Schedule 40 Stainless Steel Reducing Tee	4,604.77	731.92
		For Work In Restricted Working Space, Add	*487.94*	
40 05 23 23-0930	EA	16", Type 316, Schedule 40 Stainless Steel Reducing Tee	5,713.98	892.80
		For Work In Restricted Working Space, Add	*595.20*	
40 05 23 23-0931	EA	18", Type 316, Schedule 40 Stainless Steel Reducing Tee	7,391.27	1,137.23
		For Work In Restricted Working Space, Add	*758.15*	
40 05 23 23-0932	EA	20", Type 316, Schedule 40 Stainless Steel Reducing Tee	10,609.31	1,496.35
		For Work In Restricted Working Space, Add	*997.57*	
40 05 23 23-0933	EA	24", Type 316, Schedule 40 Stainless Steel Reducing Tee	16,651.11	2,272.42
		For Work In Restricted Working Space, Add	*1,514.96*	

40 05 23 23-0934 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers *(40 05 23 23-0844)*

40 05 23 23-0935	EA	3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer	156.03	60.08
		For Work In Restricted Working Space, Add	*40.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0936	EA	1", Type 316, Schedule 40 Stainless Steel Concentric Reducer	171.83	65.46
		For Work In Restricted Working Space, Add	*43.64*	
40 05 23 23-0937	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer	187.93	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0938	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer	199.44	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0939	EA	2", Type 316, Schedule 40 Stainless Steel Concentric Reducer	213.20	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0940	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer	291.82	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0941	EA	3", Type 316, Schedule 40 Stainless Steel Concentric Reducer	310.50	124.26
		For Work In Restricted Working Space, Add	*82.84*	
40 05 23 23-0942	EA	4", Type 316, Schedule 40 Stainless Steel Concentric Reducer	357.94	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0943	EA	6", Type 316, Schedule 40 Stainless Steel Concentric Reducer	499.00	185.37
		For Work In Restricted Working Space, Add	*123.58*	
40 05 23 23-0944	EA	8", Type 316, Schedule 40 Stainless Steel Concentric Reducer	854.84	292.43
		For Work In Restricted Working Space, Add	*194.96*	
40 05 23 23-0945	EA	10", Type 316, Schedule 40 Stainless Steel Concentric Reducer	1,159.19	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0946	EA	12", Type 316, Schedule 40 Stainless Steel Concentric Reducer	1,458.41	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0947	EA	14", Type 316, Schedule 40 Stainless Steel Concentric Reducer	2,145.29	639.69
		For Work In Restricted Working Space, Add	*426.46*	
40 05 23 23-0948	EA	16", Type 316, Schedule 40 Stainless Steel Concentric Reducer	2,476.26	728.99
		For Work In Restricted Working Space, Add	*485.99*	
40 05 23 23-0949	EA	18", Type 316, Schedule 40 Stainless Steel Concentric Reducer	3,337.74	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0950	EA	20", Type 316, Schedule 40 Stainless Steel Concentric Reducer	4,537.13	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0951	EA	24", Type 316, Schedule 40 Stainless Steel Concentric Reducer	6,468.79	1,827.69
		For Work In Restricted Working Space, Add	*1,218.46*	
40 05 23 23-0952	EA	3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	199.19	60.08
		For Work In Restricted Working Space, Add	*40.05*	
40 05 23 23-0953	EA	1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	211.17	65.46
		For Work In Restricted Working Space, Add	*43.64*	
40 05 23 23-0954	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	246.82	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-0955	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	253.29	79.09
		For Work In Restricted Working Space, Add	*52.73*	
40 05 23 23-0956	EA	2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	270.48	87.35
		For Work In Restricted Working Space, Add	*58.23*	
40 05 23 23-0957	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	320.08	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0958	EA	3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	420.87	124.26
		For Work In Restricted Working Space, Add	*82.84*	
40 05 23 23-0959	EA	4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	452.65	145.60
		For Work In Restricted Working Space, Add	*97.07*	
40 05 23 23-0960	EA	6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	654.44	185.37
		For Work In Restricted Working Space, Add	*123.58*	
40 05 23 23-0961	EA	8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	971.15	292.43
		For Work In Restricted Working Space, Add	*194.96*	
40 05 23 23-0962	EA	10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	1,414.89	365.55
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0963	EA	12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	1,969.85	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-0964	EA	14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	3,004.56	639.69
		For Work In Restricted Working Space, Add	*426.46*	
40 05 23 23-0965	EA	16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	3,465.47	728.99
		For Work In Restricted Working Space, Add	*485.99*	
40 05 23 23-0966	EA	18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	4,689.99	913.84
		For Work In Restricted Working Space, Add	*609.23*	
40 05 23 23-0967	EA	20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	6,008.36	1,218.46
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-0968	EA	24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	9,007.07	1,827.69
		For Work In Restricted Working Space, Add	*1,218.46*	
40 05 23 23-0969		Type 316, Schedule 40 Stainless Steel Butt Weld Caps *(40 05 23 23-0844)*		
40 05 23 23-0970	EA	1/2", Type 316, Schedule 40 Stainless Steel Cap	86.69	31.11
		For Work In Restricted Working Space, Add	*20.74*	
40 05 23 23-0971	EA	3/4", Type 316, Schedule 40 Stainless Steel Cap	95.52	33.02
		For Work In Restricted Working Space, Add	*22.01*	
40 05 23 23-0972	EA	1", Type 316, Schedule 40 Stainless Steel Cap	105.84	36.28
		For Work In Restricted Working Space, Add	*24.19*	
40 05 23 23-0973	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Cap	122.04	39.55
		For Work In Restricted Working Space, Add	*26.36*	
40 05 23 23-0974	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Cap	118.06	43.67
		For Work In Restricted Working Space, Add	*29.12*	
40 05 23 23-0975	EA	2", Type 316, Schedule 40 Stainless Steel Cap	134.32	48.59
		For Work In Restricted Working Space, Add	*32.39*	
40 05 23 23-0976	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Cap	167.36	62.19
		For Work In Restricted Working Space, Add	*41.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0977	EA	3", Type 316, Schedule 40 Stainless Steel Cap	191.37	72.89
		For Work In Restricted Working Space, Add	*48.59*	
40 05 23 23-0978	EA	4", Type 316, Schedule 40 Stainless Steel Cap	236.25	87.23
		For Work In Restricted Working Space, Add	*58.16*	
40 05 23 23-0979	EA	6", Type 316, Schedule 40 Stainless Steel Cap	334.21	109.15
		For Work In Restricted Working Space, Add	*72.77*	
40 05 23 23-0980	EA	8", Type 316, Schedule 40 Stainless Steel Cap	573.62	182.77
		For Work In Restricted Working Space, Add	*121.85*	
40 05 23 23-0981	EA	10", Type 316, Schedule 40 Stainless Steel Cap	770.03	243.69
		For Work In Restricted Working Space, Add	*162.46*	
40 05 23 23-0982	EA	12", Type 316, Schedule 40 Stainless Steel Cap	1,147.20	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-0983	EA	14", Type 316, Schedule 40 Stainless Steel Cap	1,302.93	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-0984	EA	16", Type 316, Schedule 40 Stainless Steel Cap	1,460.61	486.46
		For Work In Restricted Working Space, Add	*324.31*	
40 05 23 23-0985	EA	18", Type 316, Schedule 40 Stainless Steel Cap	1,870.60	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-0986	EA	20", Type 316, Schedule 40 Stainless Steel Cap	2,562.50	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-0987	EA	24", Type 316, Schedule 40 Stainless Steel Cap	4,012.24	1,218.45
		For Work In Restricted Working Space, Add	*812.30*	

40 05 23 23-0988 Type 316, Schedule 40 Stainless Steel Butt Half Coupling *(40 05 23 23-0844)*

Note: Threaded Female x Butt Weld Straight Adapter

40 05 23 23-0989	EA	1/2", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	132.81	62.22
		For Work In Restricted Working Space, Add	*37.33*	
40 05 23 23-0990	EA	3/4", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	144.25	66.09
		For Work In Restricted Working Space, Add	*39.62*	
40 05 23 23-0991	EA	1", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	164.97	72.52
		For Work In Restricted Working Space, Add	*43.55*	
40 05 23 23-0992	EA	1-1/4", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	188.13	79.07
		For Work In Restricted Working Space, Add	*47.44*	
40 05 23 23-0993	EA	1-1/2", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	216.58	87.31
		For Work In Restricted Working Space, Add	*52.39*	
40 05 23 23-0994	EA	2", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	241.84	97.14
		For Work In Restricted Working Space, Add	*58.32*	
40 05 23 23-0995	EA	2-1/2", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	364.13	124.43
		For Work In Restricted Working Space, Add	*74.62*	
40 05 23 23-0996	EA	3", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	436.73	145.78
		For Work In Restricted Working Space, Add	*87.46*	
40 05 23 23-0997	EA	4", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling	588.38	174.52
		For Work In Restricted Working Space, Add	*104.67*	

40 05 23 23-0998 Valves *(40 05 23 23-0231)*

40 05 23 23-0999 Gate Valves, Class 150 *(40 05 23 23-0998)*

40 05 23 23-1000	EA	1/2" Gate Valve, Stainless Steel, Flanged	710.86	62.39
		For Work In Restricted Working Space, Add	*23.40*	
		For Class 200, Deduct	*-169.29*	
		For Class 300, Add	*594.90*	
40 05 23 23-1001	EA	3/4" Gate Valve, Stainless Steel, Flanged	772.22	64.99
		For Work In Restricted Working Space, Add	*27.30*	
		For Class 200, Deduct	*-182.23*	
		For Class 300, Add	*640.36*	
40 05 23 23-1002	EA	1" Gate Valve, Stainless Steel, Flanged	951.49	97.49
		For Work In Restricted Working Space, Add	*36.79*	
		For Class 200, Deduct	*-221.72*	
		For Class 300, Add	*779.13*	
40 05 23 23-1003	EA	1-1/4" Gate Valve, Stainless Steel, Flanged	1,199.97	113.74
		For Work In Restricted Working Space, Add	*42.39*	
		For Class 200, Deduct	*-283.20*	
		For Class 300, Add	*995.16*	
40 05 23 23-1004	EA	1-1/2" Gate Valve, Stainless Steel, Flanged	1,352.53	143.17
		For Work In Restricted Working Space, Add	*53.69*	
		For Class 200, Deduct	*-313.93*	
		For Class 300, Add	*1,103.16*	
40 05 23 23-1005	EA	2" Gate Valve, Stainless Steel, Flanged	1,605.48	173.28
		For Work In Restricted Working Space, Add	*65.00*	
		For Class 200, Deduct	*-371.51*	
		For Class 300, Add	*1,305.50*	
40 05 23 23-1006	EA	2-1/2" Gate Valve, Stainless Steel, Flanged	2,308.36	188.49
		For Work In Restricted Working Space, Add	*70.90*	
		For Class 300, Add	*1,947.70*	
40 05 23 23-1007	EA	3" Gate Valve, Stainless Steel, Flanged	2,599.67	220.98
		For Work In Restricted Working Space, Add	*82.97*	
		For Class 300, Add	*2,183.71*	
40 05 23 23-1008	EA	4" Gate Valve, Stainless Steel, Flanged	3,436.05	370.46
		For Work In Restricted Working Space, Add	*139.28*	
		For Class 300, Add	*2,793.49*	
40 05 23 23-1009	EA	6" Gate Valve, Stainless Steel, Flanged	5,752.74	467.96
		For Work In Restricted Working Space, Add	*176.11*	
		For Class 300, Add	*4,855.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1010	EA	8" Gate Valve, Stainless Steel, Flanged	12,563.94	597.95
		For Work In Restricted Working Space, Add	*222.83*	
		For Class 300, Add	*11,111.89*	
40 05 23 23-1011	EA	10" Gate Valve, Stainless Steel, Flanged	17,710.16	727.93
		For Work In Restricted Working Space, Add	*272.97*	
		For Class 300, Add	*15,792.24*	
40 05 23 23-1012	EA	12" Gate Valve, Stainless Steel, Flanged	26,670.87	883.91
		For Work In Restricted Working Space, Add	*330.88*	
		For Class 300, Add	*24,033.86*	

40 05 23 23-1013 Globe Valves, Class 150 *(40 05 23 23-0998)*

40 05 23 23-1014	EA	1/2" Globe Valve, Stainless Steel, Flanged	972.01	62.39
		For Work In Restricted Working Space, Add	*23.40*	
		For Class 200, Deduct	*-239.15*	
		For Class 300, Add	*840.38*	
40 05 23 23-1015	EA	3/4" Globe Valve, Stainless Steel, Flanged	1,075.70	64.99
		For Work In Restricted Working Space, Add	*27.30*	
		For Class 200, Deduct	*-263.41*	
		For Class 300, Add	*925.63*	
40 05 23 23-1016	EA	1" Globe Valve, Stainless Steel, Flanged	1,340.56	97.49
		For Work In Restricted Working Space, Add	*36.79*	
		For Class 200, Deduct	*-325.80*	
		For Class 300, Add	*1,144.85*	
40 05 23 23-1017	EA	1-1/2" Globe Valve, Stainless Steel, Flanged	1,992.90	143.17
		For Work In Restricted Working Space, Add	*53.69*	
		For Class 200, Deduct	*-485.23*	
		For Class 300, Add	*1,705.10*	
40 05 23 23-1018	EA	2" Globe Valve, Stainless Steel, Flanged	2,432.26	173.28
		For Work In Restricted Working Space, Add	*65.00*	
		For Class 200, Deduct	*-592.68*	
		For Class 300, Add	*2,082.67*	
40 05 23 23-1019	EA	2-1/2" Globe Valve, Stainless Steel, Flanged	4,900.79	188.49
		For Work In Restricted Working Space, Add	*70.90*	
		For Class 300, Add	*4,384.58*	
40 05 23 23-1020	EA	3" Globe Valve, Stainless Steel, Flanged	5,070.59	220.98
		For Work In Restricted Working Space, Add	*82.97*	
		For Class 300, Add	*4,506.38*	
40 05 23 23-1021	EA	4" Globe Valve, Stainless Steel, Flanged	6,035.66	370.46
		For Work In Restricted Working Space, Add	*139.28*	
		For Class 300, Add	*5,237.13*	
40 05 23 23-1022	EA	6" Globe Valve, Stainless Steel, Flanged	11,146.81	467.96
		For Work In Restricted Working Space, Add	*176.11*	
		For Class 300, Add	*9,926.18*	

40 05 23 23-1023 Check Valves, Class 150 *(40 05 23 23-0998)*

40 05 23 23-1024	EA	2-1/2" Check Valve, Stainless Steel, Flanged	2,208.93	188.49
		For Work In Restricted Working Space, Add	*70.90*	
		For Class 300, Add	*1,854.23*	
40 05 23 23-1025	EA	3" Check Valve, Stainless Steel, Flanged	2,310.67	220.98
		For Work In Restricted Working Space, Add	*82.97*	
		For Class 300, Add	*1,912.05*	
40 05 23 23-1026	EA	4" Check Valve, Stainless Steel, Flanged	3,629.91	370.46
		For Work In Restricted Working Space, Add	*139.28*	
		For Class 300, Add	*2,975.72*	
40 05 23 23-1027	EA	6" Check Valve, Stainless Steel, Flanged	6,244.82	467.96
		For Work In Restricted Working Space, Add	*176.11*	
		For Class 300, Add	*5,318.31*	
40 05 23 23-1028	EA	8" Check Valve, Stainless Steel, Flanged	10,980.65	597.95
		For Work In Restricted Working Space, Add	*222.83*	
		For Class 300, Add	*9,623.60*	

40 05 23 23-1029 Stainless Steel Thread-O-Let Fittings *(40 05 23 23-0231)*

40 05 23 23-1030	EA	1/2", Stainless Steel Thread-o-let Fitting	103.28	37.73
		For Work In Restricted Working Space, Add	*25.16*	
40 05 23 23-1031	EA	3/4", Stainless Steel Thread-o-let Fitting	136.08	50.31
		For Work In Restricted Working Space, Add	*33.54*	
40 05 23 23-1032	EA	1", Stainless Steel Thread-o-let Fitting	167.54	62.39
		For Work In Restricted Working Space, Add	*41.60*	
40 05 23 23-1033	EA	1-1/4", Stainless Steel Thread-o-let Fitting	241.05	88.29
		For Work In Restricted Working Space, Add	*58.86*	
40 05 23 23-1034	EA	1-1/2", Stainless Steel Thread-o-let Fitting	266.09	99.57
		For Work In Restricted Working Space, Add	*66.38*	
40 05 23 23-1035	EA	2", Stainless Steel Thread-o-let Fitting	332.12	126.48
		For Work In Restricted Working Space, Add	*84.32*	
40 05 23 23-1036	EA	2-1/2", Stainless Steel Thread-o-let Fitting	604.55	194.98
		For Work In Restricted Working Space, Add	*129.99*	
40 05 23 23-1037	EA	3", Stainless Steel Thread-o-let Fitting	814.22	248.92
		For Work In Restricted Working Space, Add	*165.94*	
40 05 23 23-1038	EA	4", Stainless Steel Thread-o-let Fitting	1,079.46	311.97
		For Work In Restricted Working Space, Add	*207.98*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1039		Stainless Steel Flanges *(40 05 23 23-0231)*		
40 05 23 23-1040		150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange *(40 05 23 23-1039)*		
40 05 23 23-1041	EA	1/2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	79.81	20.97
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-1042	EA	3/4", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	98.00	27.96
		For Work In Restricted Working Space, Add	*16.77*	
40 05 23 23-1043	EA	1", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	116.48	34.66
		For Work In Restricted Working Space, Add	*20.80*	
40 05 23 23-1044	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	157.88	49.06
		For Work In Restricted Working Space, Add	*29.43*	
40 05 23 23-1045	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	170.41	55.31
		For Work In Restricted Working Space, Add	*33.19*	
40 05 23 23-1046	EA	2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	218.84	70.25
		For Work In Restricted Working Space, Add	*42.16*	
40 05 23 23-1047	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	326.09	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-1048	EA	3", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	391.07	220.98
		For Work In Restricted Working Space, Add	*82.97*	
40 05 23 23-1049	EA	4", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	503.23	173.28
		For Work In Restricted Working Space, Add	*103.99*	
40 05 23 23-1050		300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange *(40 05 23 23-1039)*		
40 05 23 23-1051	EA	1/2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	101.71	20.97
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-1052	EA	3/4", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	115.69	27.96
		For Work In Restricted Working Space, Add	*16.77*	
40 05 23 23-1053	EA	1", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	129.11	34.66
		For Work In Restricted Working Space, Add	*20.80*	
40 05 23 23-1054	EA	1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	189.89	49.06
		For Work In Restricted Working Space, Add	*29.43*	
40 05 23 23-1055	EA	1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	202.42	55.31
		For Work In Restricted Working Space, Add	*33.19*	
40 05 23 23-1056	EA	2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	251.67	70.25
		For Work In Restricted Working Space, Add	*42.16*	
40 05 23 23-1057	EA	2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	399.34	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-1058	EA	3", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	465.98	220.98
		For Work In Restricted Working Space, Add	*82.97*	
40 05 23 23-1059	EA	4", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange	618.57	173.28
		For Work In Restricted Working Space, Add	*103.99*	
40 05 23 23-1060		150 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange *(40 05 23 23-1039)*		
40 05 23 23-1061	EA	1/2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	107.00	31.10
		For Work In Restricted Working Space, Add	*20.74*	
40 05 23 23-1062	EA	3/4", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	115.46	33.02
		For Work In Restricted Working Space, Add	*22.01*	
40 05 23 23-1063	EA	1", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	129.46	36.28
		For Work In Restricted Working Space, Add	*24.20*	
40 05 23 23-1064	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	157.86	39.58
		For Work In Restricted Working Space, Add	*26.39*	
40 05 23 23-1065	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	166.85	43.63
		For Work In Restricted Working Space, Add	*29.09*	
40 05 23 23-1066	EA	2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	185.46	48.60
		For Work In Restricted Working Space, Add	*32.40*	
40 05 23 23-1067	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	255.14	62.14
		For Work In Restricted Working Space, Add	*41.43*	
40 05 23 23-1068	EA	3", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	289.65	72.76
		For Work In Restricted Working Space, Add	*48.50*	
40 05 23 23-1069	EA	4", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	372.21	87.17
		For Work In Restricted Working Space, Add	*58.12*	
40 05 23 23-1070	EA	6", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	550.16	108.91
		For Work In Restricted Working Space, Add	*72.62*	
40 05 23 23-1071	EA	8", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	928.09	182.77
		For Work In Restricted Working Space, Add	*121.85*	
40 05 23 23-1072	EA	10", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	1,311.79	243.68
		For Work In Restricted Working Space, Add	*162.46*	
40 05 23 23-1073	EA	12", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	2,014.40	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-1074	EA	14", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	2,509.83	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-1075	EA	16", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	3,119.50	486.46
		For Work In Restricted Working Space, Add	*324.31*	
40 05 23 23-1076	EA	18", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	3,830.16	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-1077	EA	20", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	4,980.49	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-1078	EA	24", 150 Lb., Type 304 Stainless Steel Weld Neck Flange	7,079.58	1,218.45
		For Work In Restricted Working Space, Add	*812.30*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1079		**300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange** *(40 05 23 23-1039)*		
40 05 23 23-1080	EA	1/2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	133.11	31.10
		For Work In Restricted Working Space, Add	*20.74*	
40 05 23 23-1081	EA	3/4", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	137.36	33.02
		For Work In Restricted Working Space, Add	*22.01*	
40 05 23 23-1082	EA	1", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	144.64	36.28
		For Work In Restricted Working Space, Add	*24.20*	
40 05 23 23-1083	EA	1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	187.28	39.58
		For Work In Restricted Working Space, Add	*26.39*	
40 05 23 23-1084	EA	1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	196.27	43.63
		For Work In Restricted Working Space, Add	*29.09*	
40 05 23 23-1085	EA	2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	210.72	48.60
		For Work In Restricted Working Space, Add	*32.40*	
40 05 23 23-1086	EA	2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	298.89	62.14
		For Work In Restricted Working Space, Add	*41.43*	
40 05 23 23-1087	EA	3", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	338.46	72.76
		For Work In Restricted Working Space, Add	*48.50*	
40 05 23 23-1088	EA	4", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	486.67	87.17
		For Work In Restricted Working Space, Add	*58.12*	
40 05 23 23-1089	EA	6", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	679.80	108.91
		For Work In Restricted Working Space, Add	*72.62*	
40 05 23 23-1090	EA	8", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	1,251.34	182.77
		For Work In Restricted Working Space, Add	*121.85*	
40 05 23 23-1091	EA	10", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	1,738.61	243.68
		For Work In Restricted Working Space, Add	*162.46*	
40 05 23 23-1092	EA	12", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	2,556.57	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-1093	EA	14", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	3,366.88	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-1094	EA	16", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	4,144.43	486.46
		For Work In Restricted Working Space, Add	*324.31*	
40 05 23 23-1095	EA	18", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	5,289.63	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-1096	EA	20", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	6,847.82	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-1097	EA	24", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange	9,963.56	1,218.45
		For Work In Restricted Working Space, Add	*812.30*	
40 05 23 23-1098		**150 Lb., Type 304 Stainless Steel Raised Face Slip-On Flanges** *(40 05 23 23-1039)*		
40 05 23 23-1099	EA	1/2", 150 Lb., Type 304 Stainless Steel Slip-On Flange	171.91	62.21
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-1100	EA	3/4", 150 Lb., Type 304 Stainless Steel Slip-On Flange	181.27	66.02
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-1101	EA	1", 150 Lb., Type 304 Stainless Steel Slip-On Flange	199.16	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-1102	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Slip-On Flange	227.26	79.15
		For Work In Restricted Working Space, Add	*52.77*	
40 05 23 23-1103	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Slip-On Flange	245.25	87.24
		For Work In Restricted Working Space, Add	*58.17*	
40 05 23 23-1104	EA	2", 150 Lb., Type 304 Stainless Steel Slip-On Flange	282.53	97.19
		For Work In Restricted Working Space, Add	*64.80*	
40 05 23 23-1105	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Slip-On Flange	369.66	124.28
		For Work In Restricted Working Space, Add	*82.86*	
40 05 23 23-1106	EA	3", 150 Lb., Type 304 Stainless Steel Slip-On Flange	423.57	145.50
		For Work In Restricted Working Space, Add	*97.01*	
40 05 23 23-1107	EA	4", 150 Lb., Type 304 Stainless Steel Slip-On Flange	523.85	174.35
		For Work In Restricted Working Space, Add	*116.24*	
40 05 23 23-1108	EA	6", 150 Lb., Type 304 Stainless Steel Slip-On Flange	692.04	217.84
		For Work In Restricted Working Space, Add	*145.23*	
40 05 23 23-1109	EA	8", 150 Lb., Type 304 Stainless Steel Slip-On Flange	1,205.45	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-1110	EA	10" 150 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	1,693.39	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-1111	EA	12" 150 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	2,526.21	731.06
		For Work In Restricted Working Space, Add	*487.38*	
40 05 23 23-1112		**300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flanges** *(40 05 23 23-1039)*		
40 05 23 23-1113	EA	1/2", 300 Lb., Type 304 Stainless Steel Raised Neck Slip-On Flange	188.75	62.21
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-1114	EA	3/4", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	197.26	66.02
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-1115	EA	1", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	211.79	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-1116	EA	1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	253.36	79.15
		For Work In Restricted Working Space, Add	*52.77*	
40 05 23 23-1117	EA	1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	271.35	87.24
		For Work In Restricted Working Space, Add	*58.17*	
40 05 23 23-1118	EA	2", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	300.17	97.19
		For Work In Restricted Working Space, Add	*64.80*	
40 05 23 23-1119	EA	2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	435.35	124.28
		For Work In Restricted Working Space, Add	*82.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1120	EA	3", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	489.22	145.50
		For Work In Restricted Working Space, Add	*97.01*	
40 05 23 23-1121	EA	4", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	614.75	174.35
		For Work In Restricted Working Space, Add	*116.24*	
40 05 23 23-1122	EA	6", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	948.79	217.84
		For Work In Restricted Working Space, Add	*145.23*	
40 05 23 23-1123	EA	8", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	1,464.71	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-1124	EA	10", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	2,110.94	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-1125	EA	12", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange	3,063.31	731.06
		For Work In Restricted Working Space, Add	*487.38*	

40 05 23 23-1126 150 Lb., Type 304 Stainless Steel Blind Flanges *(40 05 23 23-1039)*

40 05 23 23-1127	EA	1/2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	63.58	12.43
		For Work In Restricted Working Space, Add	*8.30*	
40 05 23 23-1128	EA	3/4", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	66.38	13.19
		For Work In Restricted Working Space, Add	*8.81*	
40 05 23 23-1129	EA	1", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	71.84	14.51
		For Work In Restricted Working Space, Add	*9.68*	
40 05 23 23-1130	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	92.31	16.15
		For Work In Restricted Working Space, Add	*10.77*	
40 05 23 23-1131	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	104.93	21.83
		For Work In Restricted Working Space, Add	*14.55*	
40 05 23 23-1132	EA	2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	123.75	24.23
		For Work In Restricted Working Space, Add	*16.16*	
40 05 23 23-1133	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	168.57	31.16
		For Work In Restricted Working Space, Add	*20.78*	
40 05 23 23-1134	EA	3", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	206.46	43.66
		For Work In Restricted Working Space, Add	*29.11*	
40 05 23 23-1135	EA	4", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	314.89	72.74
		For Work In Restricted Working Space, Add	*48.50*	
40 05 23 23-1136	EA	6", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	431.79	93.54
		For Work In Restricted Working Space, Add	*62.36*	
40 05 23 23-1137	EA	8", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	662.70	113.72
		For Work In Restricted Working Space, Add	*75.82*	
40 05 23 23-1138	EA	10", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	1,015.45	136.47
		For Work In Restricted Working Space, Add	*90.98*	
40 05 23 23-1139	EA	12", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	1,342.95	170.59
		For Work In Restricted Working Space, Add	*113.72*	
40 05 23 23-1140	EA	14", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	1,706.87	213.23
		For Work In Restricted Working Space, Add	*142.15*	
40 05 23 23-1141	EA	16", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	2,199.34	243.22
		For Work In Restricted Working Space, Add	*162.15*	
40 05 23 23-1142	EA	18", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	2,601.87	304.61
		For Work In Restricted Working Space, Add	*203.08*	
40 05 23 23-1143	EA	20", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	3,458.11	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-1144	EA	24", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	5,035.19	609.22
		For Work In Restricted Working Space, Add	*406.15*	

40 05 23 23-1145 300 Lb., Type 304 Stainless Steel Blind Flanges *(40 05 23 23-1039)*

40 05 23 23-1146	EA	1/2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	80.71	12.43
		For Work In Restricted Working Space, Add	*8.30*	
40 05 23 23-1147	EA	3/4", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	82.41	13.19
		For Work In Restricted Working Space, Add	*8.81*	
40 05 23 23-1148	EA	1", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	85.32	14.51
		For Work In Restricted Working Space, Add	*9.68*	
40 05 23 23-1149	EA	1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	108.29	16.15
		For Work In Restricted Working Space, Add	*10.77*	
40 05 23 23-1150	EA	1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	120.91	21.83
		For Work In Restricted Working Space, Add	*14.55*	
40 05 23 23-1151	EA	2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	132.16	24.23
		For Work In Restricted Working Space, Add	*16.16*	
40 05 23 23-1152	EA	2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	227.49	31.16
		For Work In Restricted Working Space, Add	*20.78*	
40 05 23 23-1153	EA	3", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	261.60	43.66
		For Work In Restricted Working Space, Add	*29.11*	
40 05 23 23-1154	EA	4", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	383.89	72.74
		For Work In Restricted Working Space, Add	*48.50*	
40 05 23 23-1155	EA	6", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	716.31	93.54
		For Work In Restricted Working Space, Add	*62.36*	
40 05 23 23-1156	EA	8", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	1,002.79	113.72
		For Work In Restricted Working Space, Add	*75.82*	
40 05 23 23-1157	EA	10", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	1,429.60	136.47
		For Work In Restricted Working Space, Add	*90.98*	
40 05 23 23-1158	EA	12", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	1,978.53	170.59
		For Work In Restricted Working Space, Add	*113.72*	
40 05 23 23-1159	EA	14", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	2,766.94	213.23
		For Work In Restricted Working Space, Add	*142.15*	
40 05 23 23-1160	EA	16", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	3,537.71	243.22
		For Work In Restricted Working Space, Add	*162.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1161	EA	18", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	4,616.10	304.61
		For Work In Restricted Working Space, Add	*203.08*	
40 05 23 23-1162	EA	20", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	5,847.88	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-1163	EA	24", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	8,965.78	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-1164		**150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange** *(40 05 23 23-1039)*		
40 05 23 23-1165	EA	1/2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	94.99	20.97
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-1166	EA	3/4", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	117.39	27.96
		For Work In Restricted Working Space, Add	*16.77*	
40 05 23 23-1167	EA	1", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	134.97	34.66
		For Work In Restricted Working Space, Add	*20.80*	
40 05 23 23-1168	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	185.64	49.06
		For Work In Restricted Working Space, Add	*29.43*	
40 05 23 23-1169	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	198.17	55.31
		For Work In Restricted Working Space, Add	*33.19*	
40 05 23 23-1170	EA	2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	249.16	70.25
		For Work In Restricted Working Space, Add	*42.16*	
40 05 23 23-1171	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	369.88	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-1172	EA	3", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	447.48	220.98
		For Work In Restricted Working Space, Add	*82.97*	
40 05 23 23-1173	EA	4", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	582.35	173.28
		For Work In Restricted Working Space, Add	*103.99*	
40 05 23 23-1174		**300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange** *(40 05 23 23-1039)*		
40 05 23 23-1175	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	123.60	20.97
		For Work In Restricted Working Space, Add	*12.58*	
40 05 23 23-1176	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	137.58	27.96
		For Work In Restricted Working Space, Add	*16.77*	
40 05 23 23-1177	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	151.00	34.66
		For Work In Restricted Working Space, Add	*20.80*	
40 05 23 23-1178	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	231.98	49.06
		For Work In Restricted Working Space, Add	*29.43*	
40 05 23 23-1179	EA	1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	244.51	55.31
		For Work In Restricted Working Space, Add	*33.19*	
40 05 23 23-1180	EA	2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	288.70	70.25
		For Work In Restricted Working Space, Add	*42.16*	
40 05 23 23-1181	EA	2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	482.67	108.28
		For Work In Restricted Working Space, Add	*65.00*	
40 05 23 23-1182	EA	3", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	551.01	220.98
		For Work In Restricted Working Space, Add	*82.97*	
40 05 23 23-1183	EA	4", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	754.07	173.28
		For Work In Restricted Working Space, Add	*103.99*	
40 05 23 23-1184		**150 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange** *(40 05 23 23-1039)*		
40 05 23 23-1185	EA	1/2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	126.35	31.10
		For Work In Restricted Working Space, Add	*20.74*	
40 05 23 23-1186	EA	3/4", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	134.85	33.02
		For Work In Restricted Working Space, Add	*22.01*	
40 05 23 23-1187	EA	1", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	151.35	36.28
		For Work In Restricted Working Space, Add	*24.20*	
40 05 23 23-1188	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	186.47	39.58
		For Work In Restricted Working Space, Add	*26.39*	
40 05 23 23-1189	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	195.46	43.63
		For Work In Restricted Working Space, Add	*29.09*	
40 05 23 23-1190	EA	2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	214.93	48.60
		For Work In Restricted Working Space, Add	*32.40*	
40 05 23 23-1191	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	304.75	62.14
		For Work In Restricted Working Space, Add	*41.43*	
40 05 23 23-1192	EA	3", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	334.25	72.76
		For Work In Restricted Working Space, Add	*48.50*	
40 05 23 23-1193	EA	4", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	447.98	87.17
		For Work In Restricted Working Space, Add	*58.12*	
40 05 23 23-1194	EA	6", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	681.50	108.91
		For Work In Restricted Working Space, Add	*72.62*	
40 05 23 23-1195	EA	8", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	1,130.97	182.77
		For Work In Restricted Working Space, Add	*121.85*	
40 05 23 23-1196	EA	10", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	1,650.22	243.68
		For Work In Restricted Working Space, Add	*162.46*	
40 05 23 23-1197	EA	12", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	2,461.46	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-1198	EA	14", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	2,880.08	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-1199	EA	16", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	3,602.65	486.46
		For Work In Restricted Working Space, Add	*324.31*	
40 05 23 23-1200	EA	18", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	4,417.09	609.22
		For Work In Restricted Working Space, Add	*406.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1201	EA	20", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	5,711.72	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-1202	EA	24", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	8,115.79	1,218.45
		For Work In Restricted Working Space, Add	*812.30*	

40 05 23 23-1203 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange *(40 05 23 23-1039)*

40 05 23 23-1204	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	158.36	31.10
		For Work In Restricted Working Space, Add	*20.74*	
40 05 23 23-1205	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	162.61	33.02
		For Work In Restricted Working Space, Add	*22.01*	
40 05 23 23-1206	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	169.89	36.28
		For Work In Restricted Working Space, Add	*24.20*	
40 05 23 23-1207	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	221.84	39.58
		For Work In Restricted Working Space, Add	*26.39*	
40 05 23 23-1208	EA	1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	230.83	43.63
		For Work In Restricted Working Space, Add	*29.09*	
40 05 23 23-1209	EA	2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	252.81	48.60
		For Work In Restricted Working Space, Add	*32.40*	
40 05 23 23-1210	EA	2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	371.29	62.14
		For Work In Restricted Working Space, Add	*41.43*	
40 05 23 23-1211	EA	3", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	406.66	72.76
		For Work In Restricted Working Space, Add	*48.50*	
40 05 23 23-1212	EA	4", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	612.94	87.17
		For Work In Restricted Working Space, Add	*58.12*	
40 05 23 23-1213	EA	6", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	992.12	108.91
		For Work In Restricted Working Space, Add	*72.62*	
40 05 23 23-1214	EA	8", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	1,570.42	182.77
		For Work In Restricted Working Space, Add	*121.85*	
40 05 23 23-1215	EA	10", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	2,255.48	243.68
		For Work In Restricted Working Space, Add	*162.46*	
40 05 23 23-1216	EA	12", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	3,315.86	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-1217	EA	14", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	4,471.25	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-1218	EA	16", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	5,542.89	486.46
		For Work In Restricted Working Space, Add	*324.31*	
40 05 23 23-1219	EA	18", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	7,086.34	609.22
		For Work In Restricted Working Space, Add	*406.15*	
40 05 23 23-1220	EA	20", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	9,108.64	852.92
		For Work In Restricted Working Space, Add	*568.61*	
40 05 23 23-1221	EA	24", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	13,275.91	1,218.45
		For Work In Restricted Working Space, Add	*812.30*	

40 05 23 23-1222 150 Lb., Type 316 Stainless Steel Raised Face Slip-On Flanges *(40 05 23 23-1039)*

40 05 23 23-1223	EA	1/2", 150 Lb., Type 316 Stainless Steel Slip-On Flange	182.03	62.21
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-1224	EA	3/4", 150 Lb., Type 316 Stainless Steel Slip-On Flange	196.45	66.02
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-1225	EA	1", 150 Lb., Type 316 Stainless Steel Slip-On Flange	216.55	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-1226	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Slip-On Flange	290.69	79.15
		For Work In Restricted Working Space, Add	*52.77*	
40 05 23 23-1227	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Slip-On Flange	265.44	87.24
		For Work In Restricted Working Space, Add	*58.17*	
40 05 23 23-1228	EA	2", 150 Lb., Type 316 Stainless Steel Slip-On Flange	287.54	97.19
		For Work In Restricted Working Space, Add	*64.80*	
40 05 23 23-1229	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Slip-On Flange	366.30	124.28
		For Work In Restricted Working Space, Add	*82.86*	
40 05 23 23-1230	EA	3", 150 Lb., Type 316 Stainless Steel Slip-On Flange	452.18	145.50
		For Work In Restricted Working Space, Add	*97.01*	
40 05 23 23-1231	EA	4", 150 Lb., Type 316 Stainless Steel Slip-On Flange	584.44	174.35
		For Work In Restricted Working Space, Add	*116.24*	
40 05 23 23-1232	EA	6", 150 Lb., Type 316 Stainless Steel Slip-On Flange	782.09	217.84
		For Work In Restricted Working Space, Add	*145.23*	
40 05 23 23-1233	EA	8", 150 Lb., Type 316 Stainless Steel Slip-On Flange	1,391.45	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-1234	EA	10" 150 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	1,947.63	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-1235	EA	12" 150 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	2,866.29	731.06
		For Work In Restricted Working Space, Add	*487.38*	

40 05 23 23-1236 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flanges *(40 05 23 23-1039)*

40 05 23 23-1237	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Neck Slip-On Flange	205.59	62.21
		For Work In Restricted Working Space, Add	*41.47*	
40 05 23 23-1238	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	214.10	66.02
		For Work In Restricted Working Space, Add	*44.03*	
40 05 23 23-1239	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	228.63	72.57
		For Work In Restricted Working Space, Add	*48.38*	
40 05 23 23-1240	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	286.19	79.15
		For Work In Restricted Working Space, Add	*52.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1241	EA	1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	304.18	87.24
		For Work In Restricted Working Space, Add	*58.17*	
40 05 23 23-1242	EA	2", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	331.21	97.19
		For Work In Restricted Working Space, Add	*64.80*	
40 05 23 23-1243	EA	2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	508.56	124.28
		For Work In Restricted Working Space, Add	*82.86*	
40 05 23 23-1244	EA	3", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	564.13	145.50
		For Work In Restricted Working Space, Add	*97.01*	
40 05 23 23-1245	EA	4", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	730.91	174.35
		For Work In Restricted Working Space, Add	*116.24*	
40 05 23 23-1246	EA	6", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	1,118.01	217.84
		For Work In Restricted Working Space, Add	*145.23*	
40 05 23 23-1247	EA	8", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	1,638.98	365.52
		For Work In Restricted Working Space, Add	*243.69*	
40 05 23 23-1248	EA	10" 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	2,678.32	487.38
		For Work In Restricted Working Space, Add	*324.92*	
40 05 23 23-1249	EA	12", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	3,563.34	731.06
		For Work In Restricted Working Space, Add	*487.38*	

40 05 23 23-1250 150 Lb., Type 316 Stainless Steel Blind Flanges *(40 05 23 23-1039)*

40 05 23 23-1251	EA	1/2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	71.44	12.43
		For Work In Restricted Working Space, Add	*8.30*	
40 05 23 23-1252	EA	3/4", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	80.71	13.19
		For Work In Restricted Working Space, Add	*8.81*	
40 05 23 23-1253	EA	1", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	91.19	14.51
		For Work In Restricted Working Space, Add	*9.68*	
40 05 23 23-1254	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	107.44	16.15
		For Work In Restricted Working Space, Add	*10.77*	
40 05 23 23-1255	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	120.06	21.83
		For Work In Restricted Working Space, Add	*14.55*	
40 05 23 23-1256	EA	2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	149.00	24.23
		For Work In Restricted Working Space, Add	*16.16*	
40 05 23 23-1257	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	208.15	31.16
		For Work In Restricted Working Space, Add	*20.78*	
40 05 23 23-1258	EA	3", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	250.25	43.66
		For Work In Restricted Working Space, Add	*29.11*	
40 05 23 23-1259	EA	4", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	388.95	72.74
		For Work In Restricted Working Space, Add	*48.50*	
40 05 23 23-1260	EA	6", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	550.50	93.54
		For Work In Restricted Working Space, Add	*62.36*	
40 05 23 23-1261	EA	8", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	946.37	113.72
		For Work In Restricted Working Space, Add	*75.82*	
40 05 23 23-1262	EA	10", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	1,239.38	136.47
		For Work In Restricted Working Space, Add	*90.98*	
40 05 23 23-1263	EA	12", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	1,988.64	170.59
		For Work In Restricted Working Space, Add	*113.72*	
40 05 23 23-1264	EA	14", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	2,367.95	213.23
		For Work In Restricted Working Space, Add	*142.15*	
40 05 23 23-1265	EA	16", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	3,088.70	243.22
		For Work In Restricted Working Space, Add	*162.15*	
40 05 23 23-1266	EA	18", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	3,633.91	304.61
		For Work In Restricted Working Space, Add	*203.08*	
40 05 23 23-1267	EA	20", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	4,804.04	426.46
		For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-1268	EA	24", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange	7,008.91	609.22
		For Work In Restricted Working Space, Add	*406.15*	

40 05 23 23-1269 300 Lb., Type 316 Stainless Steel Blind Flanges *(40 05 23 23-1039)*

40 05 23 23-1270	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	109.32	12.43
		For Work In Restricted Working Space, Add	*8.30*	
40 05 23 23-1271	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	111.02	13.19
		For Work In Restricted Working Space, Add	*8.81*	
40 05 23 23-1272	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	113.93	14.51
		For Work In Restricted Working Space, Add	*9.68*	
40 05 23 23-1273	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	169.77	16.15
		For Work In Restricted Working Space, Add	*10.77*	
40 05 23 23-1274	EA	1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	182.39	21.83
		For Work In Restricted Working Space, Add	*14.55*	
40 05 23 23-1275	EA	2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	202.02	24.23
		For Work In Restricted Working Space, Add	*16.16*	
40 05 23 23-1276	EA	2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	335.27	31.16
		For Work In Restricted Working Space, Add	*20.78*	
40 05 23 23-1277	EA	3", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	371.46	43.66
		For Work In Restricted Working Space, Add	*29.11*	
40 05 23 23-1278	EA	4", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	569.09	72.74
		For Work In Restricted Working Space, Add	*48.50*	
40 05 23 23-1279	EA	6", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	1,032.03	93.54
		For Work In Restricted Working Space, Add	*62.36*	
40 05 23 23-1280	EA	8", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	1,329.44	113.72
		For Work In Restricted Working Space, Add	*75.82*	
40 05 23 23-1281	EA	10", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	2,379.19	136.47
		For Work In Restricted Working Space, Add	*90.98*	

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			MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1282	EA		12", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	2,902.02	170.59
			For Work In Restricted Working Space, Add	*113.72*	
40 05 23 23-1283	EA		14", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	4,185.37	213.23
			For Work In Restricted Working Space, Add	*142.15*	
40 05 23 23-1284	EA		16", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	5,391.68	243.22
			For Work In Restricted Working Space, Add	*162.15*	
40 05 23 23-1285	EA		18", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	7,052.74	304.61
			For Work In Restricted Working Space, Add	*203.08*	
40 05 23 23-1286	EA		20", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	8,878.96	426.46
			For Work In Restricted Working Space, Add	*284.31*	
40 05 23 23-1287	EA		24", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange	13,674.26	609.22
			For Work In Restricted Working Space, Add	*406.15*	

40 05 23 23-1288 Type 316 Seamless Annealed Tubing *(40 05 23 23)*

Note: For high-pressure air (8000 PSIG working pressure).

40 05 23 23-1289 Type 316 Seamless Annealed Tubing *(40 05 23 23-1288)*

40 05 23 23-1290	LF		3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness	21.55
40 05 23 23-1291	LF		1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness	26.36
40 05 23 23-1292	LF		3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness	31.77

40 05 23 23-1293 Type 316 Seamless Annealed Tubing Fittings *(40 05 23 23-1288)*

Note: Pressure rating 5,000 PSI minimum. Includes front and back ferrules.

40 05 23 23-1294	EA		3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	73.39
40 05 23 23-1295	EA		3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	76.37
40 05 23 23-1296	EA		3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules	117.00
40 05 23 23-1297	EA		3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	70.16
40 05 23 23-1298	EA		3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	115.83
40 05 23 23-1299	EA		1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	87.42
40 05 23 23-1300	EA		1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules	108.59
40 05 23 23-1301	EA		1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	167.19
40 05 23 23-1302	EA		1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	106.37
40 05 23 23-1303	EA		1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	164.20
40 05 23 23-1304	EA		3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	104.21
40 05 23 23-1305	EA		3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules	134.79
40 05 23 23-1306	EA		3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	223.20
40 05 23 23-1307	EA		3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	184.31
40 05 23 23-1308	EA		3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	227.00

40 05 23 23-1309 Valves For High Pressure Air (5,000 PSIG) *(40 05 23 23-1288)*

40 05 23 23-1310 Needle Valves *(40 05 23 23-1309)*

40 05 23 23-1311	EA		3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	421.30
40 05 23 23-1312	EA		1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	669.89

40 05 23 23-1313 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG *(40 05 23 23-1309)*

40 05 23 23-1314	EA		1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction	403.99

40 05 23 23-1315 Other Valves Working Pressure 6,000 PSI *(40 05 23 23-1309)*

40 05 23 23-1316	EA		1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG	1,681.29
40 05 23 23-1317	EA		1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	420.30
40 05 23 23-1318	EA		Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element	80.44

40 05 31 Thermoplastic Process Pipe *(40 05)*

40 05 31 43 Polypropylene Process Pipe *(40 05 31)*

40 05 31 43-0001 Polypropylene (PP) Lined Steel Piping System *(40 05 31 43)*

40 05 31 43-0002 Polypropylene (PP) Lined Pipe And Fittings *(40 05 31 43-0001)*

40 05 31 43-0003 Pipe *(40 05 31 43-0002)*

40 05 31 43-0004	LF		3/4" Polypropylene (PP) Lined Pipe	82.89	2.52
40 05 31 43-0005	LF		1" Polypropylene (PP) Lined Pipe	83.31	2.75
40 05 31 43-0006	LF		1-1/4" Polypropylene (PP) Lined Pipe	112.42	2.99
40 05 31 43-0007	LF		1-1/2" Polypropylene (PP) Lined Pipe	112.54	2.99
40 05 31 43-0008	LF		2" Polypropylene (PP) Lined Pipe	108.42	3.59
40 05 31 43-0009	LF		2-1/2" Polypropylene (PP) Lined Pipe	158.57	4.31
40 05 31 43-0010	LF		3" Polypropylene (PP) Lined Pipe	189.36	5.14
40 05 31 43-0011	LF		4" Polypropylene (PP) Lined Pipe	279.29	7.78
40 05 31 43-0012	LF		6" Polypropylene (PP) Lined Pipe	479.87	10.29
40 05 31 43-0013	LF		8" Polypropylene (PP) Lined Pipe	743.41	12.32

40 05 31 43-0014 90 Degree Elbows *(40 05 31 43-0002)*

40 05 31 43-0015	EA		3/4" 90 Degree Elbow, Polypropylene (PP) Lined	631.69	10.29

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 31 43-0016	EA	1" 90 Degree Elbow, Polypropylene (PP) Lined	637.87	12.80
40 05 31 43-0017	EA	1-1/4" 90 Degree Elbow, Polypropylene (PP) Lined	670.83	18.07
40 05 31 43-0018	EA	1-1/2" 90 Degree Elbow, Polypropylene (PP) Lined	676.60	20.34
40 05 31 43-0019	EA	2" 90 Degree Elbow, Polypropylene (PP) Lined	780.55	25.84
40 05 31 43-0020	EA	2-1/2" 90 Degree Elbow, Polypropylene (PP) Lined	991.97	38.29
40 05 31 43-0021	EA	3" 90 Degree Elbow, Polypropylene (PP) Lined	1,202.58	50.37
40 05 31 43-0022	EA	4" 90 Degree Elbow, Polypropylene (PP) Lined	1,772.98	59.82
40 05 31 43-0023	EA	6" 90 Degree Elbow, Polypropylene (PP) Lined	2,746.98	68.32
40 05 31 43-0024	EA	8" 90 Degree Elbow, Polypropylene (PP) Lined	4,290.80	86.14
40 05 31 43-0025		**45 Degree Elbows** *(40 05 31 43-0002)*		
40 05 31 43-0026	EA	3/4" 45 Degree Elbow, Polypropylene (PP) Lined	558.60	10.29
40 05 31 43-0027	EA	1" 45 Degree Elbow, Polypropylene (PP) Lined	564.78	12.80
40 05 31 43-0028	EA	1-1/4" 45 Degree Elbow, Polypropylene (PP) Lined	642.78	18.07
40 05 31 43-0029	EA	1-1/2" 45 Degree Elbow, Polypropylene (PP) Lined	648.55	20.34
40 05 31 43-0030	EA	2" 45 Degree Elbow, Polypropylene (PP) Lined	747.69	25.84
40 05 31 43-0031	EA	2-1/2" 45 Degree Elbow, Polypropylene (PP) Lined	1,002.47	38.29
40 05 31 43-0032	EA	3" 45 Degree Elbow, Polypropylene (PP) Lined	1,253.51	50.37
40 05 31 43-0033	EA	4" 45 Degree Elbow, Polypropylene (PP) Lined	1,642.19	59.82
40 05 31 43-0034	EA	6" 45 Degree Elbow, Polypropylene (PP) Lined	2,841.18	68.32
40 05 31 43-0035	EA	8" 45 Degree Elbow, Polypropylene (PP) Lined	4,321.07	79.80
40 05 31 43-0036		**Tees** *(40 05 31 43-0002)*		
40 05 31 43-0037	EA	3/4" Tee, Polypropylene (PP) Lined	853.17	15.43
40 05 31 43-0038	EA	1" Tee, Polypropylene (PP) Lined	865.49	20.34
40 05 31 43-0039	EA	1-1/4" Tee, Polypropylene (PP) Lined	1,021.92	25.84
40 05 31 43-0040	EA	1-1/2" Tee, Polypropylene (PP) Lined	1,034.44	30.87
40 05 31 43-0041	EA	2" Tee, Polypropylene (PP) Lined	1,184.12	38.29
40 05 31 43-0042	EA	2-1/2" Tee, Polypropylene (PP) Lined	1,393.83	50.37
40 05 31 43-0043	EA	3" Tee, Polypropylene (PP) Lined	1,596.93	59.82
40 05 31 43-0044	EA	4" Tee, Polypropylene (PP) Lined	2,086.29	79.80
40 05 31 43-0045	EA	6" Tee, Polypropylene (PP) Lined	2,841.29	102.89
40 05 31 43-0046	EA	8" Tee, Polypropylene (PP) Lined	5,362.83	127.54
40 05 31 43-0047		**Crosses** *(40 05 31 43-0002)*		
40 05 31 43-0048	EA	3/4" Cross, Polypropylene (PP) Lined	1,218.06	20.57
40 05 31 43-0049	EA	1" Cross, Polypropylene (PP) Lined	1,231.20	25.84
40 05 31 43-0050	EA	1-1/4" Cross, Polypropylene (PP) Lined	1,505.68	36.38
40 05 31 43-0051	EA	1-1/2" Cross, Polypropylene (PP) Lined	1,516.58	40.68
40 05 31 43-0052	EA	2" Cross, Polypropylene (PP) Lined	1,718.05	51.69
40 05 31 43-0053	EA	2-1/2" Cross, Polypropylene (PP) Lined	2,002.79	76.57
40 05 31 43-0054	EA	3" Cross, Polypropylene (PP) Lined	2,654.04	100.51
40 05 31 43-0055	EA	4" Cross, Polypropylene (PP) Lined	2,982.52	119.65
40 05 31 43-0056	EA	6" Cross, Polypropylene (PP) Lined	5,175.57	136.87
40 05 31 43-0057	EA	8" Cross, Polypropylene (PP) Lined	6,543.13	159.72
40 05 31 43-0058		**Reducers** *(40 05 31 43-0002)*		
40 05 31 43-0059	EA	1" Reducer, Polypropylene (PP) Lined	1,121.29	12.80
40 05 31 43-0060	EA	1-1/4" Reducer, Polypropylene (PP) Lined	1,134.52	18.07
40 05 31 43-0061	EA	1-1/2" Reducer, Polypropylene (PP) Lined	1,140.29	20.34
40 05 31 43-0062	EA	2" Reducer, Polypropylene (PP) Lined	1,344.15	25.84
40 05 31 43-0063	EA	2-1/2" Reducer, Polypropylene (PP) Lined	1,557.97	38.29
40 05 31 43-0064	EA	3" Reducer, Polypropylene (PP) Lined	1,741.74	50.37
40 05 31 43-0065	EA	4" Reducer, Polypropylene (PP) Lined	2,269.84	59.82
40 05 31 43-0066	EA	6" Reducer, Polypropylene (PP) Lined	3,128.35	68.32
40 05 31 43-0067	EA	8" Reducer, Polypropylene (PP) Lined	5,046.81	79.80
40 05 31 43-0068		**Unions** *(40 05 31 43-0002)*		
40 05 31 43-0069	EA	3/4" Union, Polypropylene (PP) Lined	927.91	15.43
40 05 31 43-0070	EA	1" Union, Polypropylene (PP) Lined	1,067.26	20.34
40 05 31 43-0071	EA	1-1/4" Union, Polypropylene (PP) Lined	2,079.22	25.84
40 05 31 43-0072	EA	1-1/2" Union, Polypropylene (PP) Lined	2,356.73	30.87
40 05 31 43-0073	EA	2" Union, Polypropylene (PP) Lined	3,184.71	38.29
40 05 31 43-0074	EA	2-1/2" Union, Polypropylene (PP) Lined	4,626.94	50.37
40 05 31 43-0075	EA	3" Union, Polypropylene (PP) Lined	5,902.86	59.82
40 05 31 43-0076	EA	4" Union, Polypropylene (PP) Lined	9,154.20	79.80
40 05 31 43-0077	EA	6" Union, Polypropylene (PP) Lined	12,261.15	102.89
40 05 31 43-0078	EA	8" Union, Polypropylene (PP) Lined	20,123.28	127.54
40 05 31 43-0079		**Blind Flanges** *(40 05 31 43-0002)*		
40 05 31 43-0080	EA	3/4" Blind Flanges, Polypropylene (PP) Lined	188.01	15.43
40 05 31 43-0081	EA	1" Blind Flange, Polypropylene (PP) Lined	200.33	20.34
40 05 31 43-0082	EA	1-1/4" Blind Flange, Polypropylene (PP) Lined	228.10	25.84
40 05 31 43-0083	EA	1-1/2" Blind Flange, Polypropylene (PP) Lined	240.62	30.87

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 31 43-0084	EA	2" Blind Flange, Polypropylene (PP) Lined	277.82	38.29
40 05 31 43-0085	EA	2-1/2" Blind Flange, Polypropylene (PP) Lined	350.07	50.37
40 05 31 43-0086	EA	3" Blind Flange, Polypropylene (PP) Lined	415.71	59.82
40 05 31 43-0087	EA	4" Blind Flange, Polypropylene (PP) Lined	526.27	79.80
40 05 31 43-0088	EA	6" Blind Flange, Polypropylene (PP) Lined	780.16	102.89
40 05 31 43-0089	EA	8" Blind Flange, Polypropylene (PP) Lined	1,145.36	127.54
40 05 31 43-0090		Filler Flanges *(40 05 31 43-0002)*		
40 05 31 43-0091	EA	1" Filler Flange, Polypropylene (PP) Lined	681.28	20.34
40 05 31 43-0092	EA	1-1/4" Filler Flange, Polypropylene (PP) Lined	853.79	25.84
40 05 31 43-0093	EA	1-1/2" Filler Flange, Polypropylene (PP) Lined	955.03	30.87
40 05 31 43-0094	EA	2" Filler Flange, Polypropylene (PP) Lined	1,094.96	38.29
40 05 31 43-0095	EA	2-1/2" Filler Flange, Polypropylene (PP) Lined	1,269.94	50.37
40 05 31 43-0096	EA	3" Filler Flange, Polypropylene (PP) Lined	1,438.31	59.82
40 05 31 43-0097	EA	4" Filler Flange, Polypropylene (PP) Lined	1,791.67	79.80
40 05 31 43-0098	EA	6" Filler Flange, Polypropylene (PP) Lined	2,447.13	102.89
40 05 31 43-0099	EA	8" Filler Flange, Polypropylene (PP) Lined	3,424.02	127.54
40 05 31 43-0100		Polypropylene (PP) Lined Gate Valves *(40 05 31 43-0001)*		
40 05 31 43-0101	EA	1" Flanged Gate Valve, Polypropylene (PP) Lined	2,000.10	100.76
40 05 31 43-0102	EA	1-1/4" Flanged Gate Valve, Polypropylene (PP) Lined	2,257.14	113.35
40 05 31 43-0103	EA	1-1/2" Flanged Gate Valve, Polypropylene (PP) Lined	2,547.24	125.63
40 05 31 43-0104	EA	2" Flanged Gate Valve, Polypropylene (PP) Lined	3,022.22	159.49
40 05 31 43-0105	EA	2-1/2" Flanged Gate Valve, Polypropylene (PP) Lined	3,981.93	181.58
40 05 31 43-0106	EA	3" Flanged Gate Valve, Polypropylene (PP) Lined	4,941.62	203.65
40 05 31 43-0107	EA	4" Flanged Gate Valve, Polypropylene (PP) Lined	6,271.27	341.84
40 05 31 43-0108	EA	6" Flanged Gate Valve, Polypropylene (PP) Lined	10,119.39	432.27
40 05 31 43-0109	EA	8" Flanged Gate Valve, Polypropylene (PP) Lined	21,210.25	546.95
40 05 31 43-0110		Polypropylene (PP) Lined Check Valves *(40 05 31 43-0001)*		
40 05 31 43-0111	EA	1" Flanged Check Valve, Polypropylene (PP) Lined	2,262.96	100.76
40 05 31 43-0112	EA	1-1/4" Flanged Check Valve, Polypropylene (PP) Lined	2,553.83	113.35
40 05 31 43-0113	EA	1-1/2" Flanged Check Valve, Polypropylene (PP) Lined	2,882.41	125.63
40 05 31 43-0114	EA	2" Flanged Check Valve, Polypropylene (PP) Lined	3,418.13	159.49
40 05 31 43-0115	EA	2-1/2" Flanged Check Valve, Polypropylene (PP) Lined	4,508.56	181.58
40 05 31 43-0116	EA	3" Flanged Check Valve, Polypropylene (PP) Lined	5,598.99	203.65
40 05 31 43-0117	EA	4" Flanged Check Valve, Polypropylene (PP) Lined	7,090.88	341.84
40 05 31 43-0118	EA	6" Flanged Check Valve, Polypropylene (PP) Lined	11,462.86	432.27
40 05 31 43-0119	EA	8" Flanged Check Valve, Polypropylene (PP) Lined	24,089.12	546.95
40 05 31 43-0120		Polypropylene (PP) Lined Plug Valves *(40 05 31 43-0001)*		
40 05 31 43-0121	EA	1" Flanged Plug Valve, Polypropylene (PP) Lined	1,985.46	100.76
40 05 31 43-0122	EA	1-1/4" Flanged Plug Valve, Polypropylene (PP) Lined	2,241.85	113.35
40 05 31 43-0123	EA	1-1/2" Flanged Plug Valve, Polypropylene (PP) Lined	2,527.41	125.63
40 05 31 43-0124	EA	2" Flanged Plug Valve, Polypropylene (PP) Lined	2,999.63	159.49
40 05 31 43-0125	EA	2-1/2" Flanged Plug Valve, Polypropylene (PP) Lined	3,953.33	181.58
40 05 31 43-0126	EA	3" Flanged Plug Valve, Polypropylene (PP) Lined	4,907.01	203.65
40 05 31 43-0127	EA	4" Flanged Plug Valve, Polypropylene (PP) Lined	6,228.29	341.84
40 05 31 43-0128	EA	6" Flanged Plug Valve, Polypropylene (PP) Lined	10,049.41	432.27
40 05 31 43-0129	EA	8" Flanged Plug Valve, Polypropylene (PP) Lined	19,927.91	546.95
40 05 31 53		**PVDF Process Pipe** *(40 05 31)*		
40 05 31 53-0001		Polyvinylidene Fluoride (PVDF) Kynar Lined Steel Piping System *(40 05 31 53)*		
40 05 31 53-0002		Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe And Fittings *(40 05 31 53-0001)*		
40 05 31 53-0003		Pipe *(40 05 31 53-0002)*		
40 05 31 53-0004	LF	3/4" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	78.58	2.52
40 05 31 53-0005	LF	1" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	79.00	2.75
40 05 31 53-0006	LF	1-1/4" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	88.50	2.99
40 05 31 53-0007	LF	1-1/2" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	88.62	2.99
40 05 31 53-0008	LF	2" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	97.72	3.59
40 05 31 53-0009	LF	2-1/2" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	125.39	4.31
40 05 31 53-0010	LF	3" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	152.27	5.14
40 05 31 53-0011	LF	4" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	213.40	7.78
40 05 31 53-0012	LF	6" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	341.75	10.29
40 05 31 53-0013	LF	8" Polyvinylidene Fluoride (PVDF) Kynar Lined Pipe	529.59	12.32
40 05 31 53-0014		90 Degree Elbows *(40 05 31 53-0002)*		
40 05 31 53-0015	EA	3/4" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	439.21	10.29
40 05 31 53-0016	EA	1" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	445.39	12.80
40 05 31 53-0017	EA	1-1/4" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	551.64	18.07
40 05 31 53-0018	EA	1-1/2" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	557.41	20.34
40 05 31 53-0019	EA	2" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	663.28	25.84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 31 53-0020	EA	2-1/2" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	804.97	38.29
40 05 31 53-0021	EA	3" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	938.30	50.37
40 05 31 53-0022	EA	4" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,451.83	59.82
40 05 31 53-0023	EA	6" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,321.87	68.32
40 05 31 53-0024	EA	8" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	3,821.71	86.14
40 05 31 53-0025		**45 Degree Elbows** *(40 05 31 53-0002)*		
40 05 31 53-0026	EA	3/4" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	525.76	10.29
40 05 31 53-0027	EA	1" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	531.94	12.80
40 05 31 53-0028	EA	1-1/4" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	590.49	18.07
40 05 31 53-0029	EA	1-1/2" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	596.26	20.34
40 05 31 53-0030	EA	2" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	720.66	25.84
40 05 31 53-0031	EA	2-1/2" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	836.09	38.29
40 05 31 53-0032	EA	3" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,059.63	50.37
40 05 31 53-0033	EA	4" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,512.83	59.82
40 05 31 53-0034	EA	6" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,487.24	68.32
40 05 31 53-0035	EA	8" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Kynar Lined	3,270.93	79.80
40 05 31 53-0036		**Tees** *(40 05 31 53-0002)*		
40 05 31 53-0037	EA	3/4" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	705.75	15.43
40 05 31 53-0038	EA	1" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	718.07	20.34
40 05 31 53-0039	EA	1-1/4" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	805.72	25.84
40 05 31 53-0040	EA	1-1/2" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	818.24	30.87
40 05 31 53-0041	EA	2" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	991.60	38.29
40 05 31 53-0042	EA	2-1/2" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,278.08	50.37
40 05 31 53-0043	EA	3" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,326.62	59.82
40 05 31 53-0044	EA	4" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,998.95	79.80
40 05 31 53-0045	EA	6" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	3,049.93	102.89
40 05 31 53-0046	EA	8" Tee, Polyvinylidene Fluoride (PVDF) Kynar Lined	4,577.35	127.54
40 05 31 53-0047		**Crosses** *(40 05 31 53-0002)*		
40 05 31 53-0048	EA	3/4" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	985.82	20.57
40 05 31 53-0049	EA	1" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	998.96	25.84
40 05 31 53-0050	EA	1-1/4" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,167.89	36.38
40 05 31 53-0051	EA	1-1/2" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,178.78	40.68
40 05 31 53-0052	EA	2" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,458.67	51.69
40 05 31 53-0053	EA	2-1/2" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,688.48	76.57
40 05 31 53-0054	EA	3" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,030.06	100.51
40 05 31 53-0055	EA	4" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	3,057.03	119.65
40 05 31 53-0056	EA	6" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	4,673.06	136.87
40 05 31 53-0057	EA	8" Cross, Polyvinylidene Fluoride (PVDF) Kynar Lined	5,904.37	159.72
40 05 31 53-0058		**Reducers** *(40 05 31 53-0002)*		
40 05 31 53-0059	EA	1" Reducer, Polyvinylidene Fluoride (PVDF) Kynar Lined	678.45	12.80
40 05 31 53-0060	EA	1-1/4" Reducer, Polyvinylidene Fluoride (PVDF) Kynar Lined	691.68	18.07
40 05 31 53-0061	EA	1-1/2" Reducer, Polyvinylidene Fluoride (PVDF) Kynar Lined	697.45	20.34
40 05 31 53-0062	EA	2" Reducer, Polyvinylidene Fluoride (PVDF) Kynar Lined	727.53	25.84
40 05 31 53-0063	EA	2-1/2" Reducer, Polyvinylidene Fluoride (PVDF) Kynar Lined	800.41	38.29
40 05 31 53-0064	EA	3" Reducer, Polyvinylidene Fluoride (PVDF) Kynar Lined	962.77	50.37
40 05 31 53-0065	EA	4" Reducer, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,226.95	59.82
40 05 31 53-0066	EA	6" Reducer, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,991.09	68.32
40 05 31 53-0067	EA	8" Reducer, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,986.99	79.80
40 05 31 53-0068		**Unions** *(40 05 31 53-0002)*		
40 05 31 53-0069	EA	3/4" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	978.01	15.43
40 05 31 53-0070	EA	1" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,124.52	20.34
40 05 31 53-0071	EA	1-1/4" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,192.71	25.84
40 05 31 53-0072	EA	1-1/2" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,485.16	30.87
40 05 31 53-0073	EA	2" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	3,358.73	38.29
40 05 31 53-0074	EA	2-1/2" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	4,880.51	50.37
40 05 31 53-0075	EA	3" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	6,226.99	59.82
40 05 31 53-0076	EA	4" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	9,658.69	79.80
40 05 31 53-0077	EA	6" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	12,937.31	102.89
40 05 31 53-0078	EA	8" Union, Polyvinylidene Fluoride (PVDF) Kynar Lined	21,239.02	127.54
40 05 31 53-0079		**Blind Flanges** *(40 05 31 53-0002)*		
40 05 31 53-0080	EA	3/4" Blind Flanges, Polyvinylidene Fluoride (PVDF) Kynar Lined	150.65	15.43
40 05 31 53-0081	EA	1" Blind Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	162.97	20.34
40 05 31 53-0082	EA	1-1/4" Blind Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	187.24	25.84
40 05 31 53-0083	EA	1-1/2" Blind Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	199.76	30.87
40 05 31 53-0084	EA	2" Blind Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	232.29	38.29
40 05 31 53-0085	EA	2-1/2" Blind Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	294.04	50.37
40 05 31 53-0086	EA	3" Blind Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	349.18	59.82
40 05 31 53-0087	EA	4" Blind Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	444.55	79.80

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 31 53-0088	EA	6" Blind Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	649.42	102.89
40 05 31 53-0089	EA	8" Blind Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	938.74	127.54
40 05 31 53-0090		Filler Flanges *(40 05 31 53-0002)*		
40 05 31 53-0091	EA	1" Filler Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	383.60	20.34
40 05 31 53-0092	EA	1-1/4" Filler Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	435.89	25.84
40 05 31 53-0093	EA	1-1/2" Filler Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	490.43	30.87
40 05 31 53-0094	EA	2" Filler Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	600.00	38.29
40 05 31 53-0095	EA	2-1/2" Filler Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	749.30	50.37
40 05 31 53-0096	EA	3" Filler Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	895.49	59.82
40 05 31 53-0097	EA	4" Filler Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,141.46	79.80
40 05 31 53-0098	EA	6" Filler Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	1,437.37	102.89
40 05 31 53-0099	EA	8" Filler Flange, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,188.97	127.54
40 05 31 53-0100		Polyvinylidene Fluoride (PVDF) Kynar Lined Gate Valves *(40 05 31 53-0001)*		
40 05 31 53-0101	EA	1" Flanged Gate Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,105.69	100.76
40 05 31 53-0102	EA	1-1/4" Flanged Gate Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,376.32	113.35
40 05 31 53-0103	EA	1-1/2" Flanged Gate Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,681.87	125.63
40 05 31 53-0104	EA	2" Flanged Gate Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	3,181.25	159.53
40 05 31 53-0105	EA	2-1/2" Flanged Gate Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	4,193.47	181.58
40 05 31 53-0106	EA	3" Flanged Gate Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	5,205.68	203.65
40 05 31 53-0107	EA	4" Flanged Gate Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	6,600.50	341.84
40 05 31 53-0108	EA	6" Flanged Gate Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	10,659.06	432.27
40 05 31 53-0109	EA	8" Flanged Gate Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	22,366.68	546.95
40 05 31 53-0110		Polyvinylidene Fluoride (PVDF) Kynar Lined Check Valves *(40 05 31 53-0001)*		
40 05 31 53-0111	EA	1" Flanged Check Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,383.35	100.76
40 05 31 53-0112	EA	1-1/4" Flanged Check Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,689.73	113.35
40 05 31 53-0113	EA	1-1/2" Flanged Check Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	3,035.93	125.63
40 05 31 53-0114	EA	2" Flanged Check Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	3,599.46	159.53
40 05 31 53-0115	EA	2-1/2" Flanged Check Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	4,749.78	181.58
40 05 31 53-0116	EA	3" Flanged Check Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	5,900.08	203.65
40 05 31 53-0117	EA	4" Flanged Check Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	7,466.30	341.84
40 05 31 53-0118	EA	6" Flanged Check Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	12,078.22	432.27
40 05 31 53-0119	EA	8" Flanged Check Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	25,407.73	546.95
40 05 31 53-0120		Polyvinylidene Fluoride (PVDF) Kynar Lined Plug Valves *(40 05 31 53-0001)*		
40 05 31 53-0121	EA	1" Flanged Plug Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,090.23	100.76
40 05 31 53-0122	EA	1-1/4" Flanged Plug Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,360.17	113.35
40 05 31 53-0123	EA	1-1/2" Flanged Plug Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	2,660.93	125.63
40 05 31 53-0124	EA	2" Flanged Plug Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	3,157.39	159.53
40 05 31 53-0125	EA	2-1/2" Flanged Plug Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	4,163.26	181.58
40 05 31 53-0126	EA	3" Flanged Plug Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	5,169.12	203.65
40 05 31 53-0127	EA	4" Flanged Plug Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	6,555.10	341.84
40 05 31 53-0128	EA	6" Flanged Plug Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	10,585.13	432.27
40 05 31 53-0129	EA	8" Flanged Plug Valve, Polyvinylidene Fluoride (PVDF) Kynar Lined	21,012.10	546.95
40 05 31 56		**Polyvinylidene Chloride (PVDC) Process Pipe** ***(40 05 31)***		
40 05 31 56-0001		Polyvinylidene Chloride (PVDC) Saran Lined Steel Piping System *(40 05 31 56)*		
40 05 31 56-0002		Polyvinylidene Chloride (PVDC) Saran Lined Pipe And Fittings *(40 05 31 56-0001)*		
40 05 31 56-0003		Pipe *(40 05 31 56-0002)*		
40 05 31 56-0004	LF	3/4" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	54.52	2.52
40 05 31 56-0005	LF	1" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	54.94	2.75
40 05 31 56-0006	LF	1-1/4" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	61.45	2.99
40 05 31 56-0007	LF	1-1/2" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	61.57	2.99
40 05 31 56-0008	LF	2" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	68.13	3.59
40 05 31 56-0009	LF	2-1/2" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	88.49	4.31
40 05 31 56-0010	LF	3" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	105.80	5.14
40 05 31 56-0011	LF	4" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	148.70	7.78
40 05 31 56-0012	LF	6" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	236.41	10.29
40 05 31 56-0013	LF	8" Polyvinylidene Chloride (PVDC) Saran Lined Pipe	363.29	12.32
40 05 31 56-0014		90 Degree Elbows *(40 05 31 56-0002)*		
40 05 31 56-0015	EA	3/4" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	385.27	10.29
40 05 31 56-0016	EA	1" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	391.45	12.80
40 05 31 56-0017	EA	1-1/4" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	485.56	18.07
40 05 31 56-0018	EA	1-1/2" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	491.33	20.34
40 05 31 56-0019	EA	2" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	585.21	25.84
40 05 31 56-0020	EA	2-1/2" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	712.44	38.29
40 05 31 56-0021	EA	3" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	832.32	50.37
40 05 31 56-0022	EA	4" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	1,281.98	59.82
40 05 31 56-0023	EA	6" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	2,041.30	68.32

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 31 56-0024	EA	8" 90 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	3,351.29	86.14
40 05 31 56-0025		**45 Degree Elbows** *(40 05 31 56-0002)*		
40 05 31 56-0026	EA	3/4" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	460.54	10.29
40 05 31 56-0027	EA	1" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	466.72	12.80
40 05 31 56-0028	EA	1-1/4" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	519.36	18.07
40 05 31 56-0029	EA	1-1/2" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	525.13	20.34
40 05 31 56-0030	EA	2" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	635.08	25.84
40 05 31 56-0031	EA	2-1/2" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	739.52	38.29
40 05 31 56-0032	EA	3" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	937.81	50.37
40 05 31 56-0033	EA	4" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	1,335.02	59.82
40 05 31 56-0034	EA	6" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	2,185.11	68.32
40 05 31 56-0035	EA	8" 45 Degree Elbow, Polyvinylidene Chloride (PVDC) Saran Lined	2,870.29	79.80
40 05 31 56-0036		**Tees** *(40 05 31 56-0002)*		
40 05 31 56-0037	EA	3/4" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	619.57	15.43
40 05 31 56-0038	EA	1" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	631.03	20.34
40 05 31 56-0039	EA	1-1/4" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	709.04	25.84
40 05 31 56-0040	EA	1-1/2" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	721.56	30.87
40 05 31 56-0041	EA	2" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	874.75	38.29
40 05 31 56-0042	EA	2-1/2" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	1,127.80	50.37
40 05 31 56-0043	EA	3" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	1,173.09	59.82
40 05 31 56-0044	EA	4" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	1,764.21	79.80
40 05 31 56-0045	EA	6" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	2,685.64	102.89
40 05 31 56-0046	EA	8" Tee, Polyvinylidene Chloride (PVDC) Saran Lined	4,021.88	127.54
40 05 31 56-0047		**Crosses** *(40 05 31 56-0002)*		
40 05 31 56-0048	EA	3/4" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	863.93	20.57
40 05 31 56-0049	EA	1" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	877.07	25.84
40 05 31 56-0050	EA	1-1/4" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	1,027.40	36.38
40 05 31 56-0051	EA	1-1/2" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	1,038.29	40.68
40 05 31 56-0052	EA	2" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	1,285.27	51.69
40 05 31 56-0053	EA	2-1/2" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	1,493.19	76.57
40 05 31 56-0054	EA	3" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	1,798.04	100.51
40 05 31 56-0055	EA	4" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	2,697.30	119.65
40 05 31 56-0056	EA	6" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	4,108.18	136.87
40 05 31 56-0057	EA	8" Cross, Polyvinylidene Chloride (PVDC) Saran Lined	8,469.24	159.72
40 05 31 56-0058		**Reducers** *(40 05 31 56-0002)*		
40 05 31 56-0059	EA	1" Reducer, Polyvinylidene Chloride (PVDC) Saran Lined	566.01	12.80
40 05 31 56-0060	EA	1-1/4" Reducer, Polyvinylidene Chloride (PVDC) Saran Lined	607.33	18.07
40 05 31 56-0061	EA	1-1/2" Reducer, Polyvinylidene Chloride (PVDC) Saran Lined	613.10	20.34
40 05 31 56-0062	EA	2" Reducer, Polyvinylidene Chloride (PVDC) Saran Lined	641.06	25.84
40 05 31 56-0063	EA	2-1/2" Reducer, Polyvinylidene Chloride (PVDC) Saran Lined	800.41	38.29
40 05 31 56-0064	EA	3" Reducer, Polyvinylidene Chloride (PVDC) Saran Lined	853.62	50.37
40 05 31 56-0065	EA	4" Reducer, Polyvinylidene Chloride (PVDC) Saran Lined	1,086.42	59.82
40 05 31 56-0066	EA	6" Reducer, Polyvinylidene Chloride (PVDC) Saran Lined	1,753.66	68.32
40 05 31 56-0067	EA	8" Reducer, Polyvinylidene Chloride (PVDC) Saran Lined	2,623.38	79.80
40 05 31 56-0068		**Unions** *(40 05 31 56-0002)*		
40 05 31 56-0069	EA	3/4" Union, Polyvinylidene Chloride (PVDC) Saran Lined	852.76	15.43
40 05 31 56-0070	EA	1" Union, Polyvinylidene Chloride (PVDC) Saran Lined	981.37	20.34
40 05 31 56-0071	EA	1-1/4" Union, Polyvinylidene Chloride (PVDC) Saran Lined	1,908.97	25.84
40 05 31 56-0072	EA	1-1/2" Union, Polyvinylidene Chloride (PVDC) Saran Lined	2,164.10	30.87
40 05 31 56-0073	EA	2" Union, Polyvinylidene Chloride (PVDC) Saran Lined	2,923.66	38.29
40 05 31 56-0074	EA	2-1/2" Union, Polyvinylidene Chloride (PVDC) Saran Lined	4,246.57	50.37
40 05 31 56-0075	EA	3" Union, Polyvinylidene Chloride (PVDC) Saran Lined	5,416.67	59.82
40 05 31 56-0076	EA	4" Union, Polyvinylidene Chloride (PVDC) Saran Lined	8,397.46	79.80
40 05 31 56-0077	EA	6" Union, Polyvinylidene Chloride (PVDC) Saran Lined	11,246.63	102.89
40 05 31 56-0078	EA	8" Union, Polyvinylidene Chloride (PVDC) Saran Lined	18,449.67	127.54
40 05 31 56-0079		**Blind Flanges** *(40 05 31 56-0002)*		
40 05 31 56-0080	EA	3/4" Blind Flanges, Polyvinylidene Chloride (PVDC) Saran Lined	135.71	15.43
40 05 31 56-0081	EA	1" Blind Flange, Polyvinylidene Chloride (PVDC) Saran Lined	148.03	20.34
40 05 31 56-0082	EA	1-1/4" Blind Flange, Polyvinylidene Chloride (PVDC) Saran Lined	170.90	25.84
40 05 31 56-0083	EA	1-1/2" Blind Flange, Polyvinylidene Chloride (PVDC) Saran Lined	183.42	30.87
40 05 31 56-0084	EA	2" Blind Flange, Polyvinylidene Chloride (PVDC) Saran Lined	214.08	38.29
40 05 31 56-0085	EA	2-1/2" Blind Flange, Polyvinylidene Chloride (PVDC) Saran Lined	271.62	50.37
40 05 31 56-0086	EA	3" Blind Flange, Polyvinylidene Chloride (PVDC) Saran Lined	322.56	59.82
40 05 31 56-0087	EA	4" Blind Flange, Polyvinylidene Chloride (PVDC) Saran Lined	411.87	79.80
40 05 31 56-0088	EA	6" Blind Flange, Polyvinylidene Chloride (PVDC) Saran Lined	597.12	102.89
40 05 31 56-0089	EA	8" Blind Flange, Polyvinylidene Chloride (PVDC) Saran Lined	856.09	127.54

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 31 56-0090		**Filler Flanges** *(40 05 31 56-0002)*		
40 05 31 56-0091	EA	1" Filler Flange, Polyvinylidene Chloride (PVDC) Saran Lined	339.24	20.34
40 05 31 56-0092	EA	1-1/4" Filler Flange, Polyvinylidene Chloride (PVDC) Saran Lined	386.39	25.84
40 05 31 56-0093	EA	1-1/2" Filler Flange, Polyvinylidene Chloride (PVDC) Saran Lined	435.33	30.87
40 05 31 56-0094	EA	2" Filler Flange, Polyvinylidene Chloride (PVDC) Saran Lined	532.76	38.29
40 05 31 56-0095	EA	2-1/2" Filler Flange, Polyvinylidene Chloride (PVDC) Saran Lined	666.19	50.37
40 05 31 56-0096	EA	3" Filler Flange, Polyvinylidene Chloride (PVDC) Saran Lined	796.04	59.82
40 05 31 56-0097	EA	4" Filler Flange, Polyvinylidene Chloride (PVDC) Saran Lined	1,015.85	79.80
40 05 31 56-0098	EA	6" Filler Flange, Polyvinylidene Chloride (PVDC) Saran Lined	1,280.02	102.89
40 05 31 56-0099	EA	8" Filler Flange, Polyvinylidene Chloride (PVDC) Saran Lined	1,939.62	127.54
40 05 31 56-0100		**Polyvinylidene Chloride (PVDC) Saran Lined Gate Valves** *(40 05 31 56-0001)*		
40 05 31 56-0101	EA	1" Flanged Gate Valve, Polyvinylidene Chloride (PVDC) Saran Lined	1,841.72	100.76
40 05 31 56-0102	EA	1-1/4" Flanged Gate Valve, Polyvinylidene Chloride (PVDC) Saran Lined	2,078.37	113.35
40 05 31 56-0103	EA	1-1/2" Flanged Gate Valve, Polyvinylidene Chloride (PVDC) Saran Lined	2,345.28	125.63
40 05 31 56-0104	EA	2" Flanged Gate Valve, Polyvinylidene Chloride (PVDC) Saran Lined	2,783.68	159.53
40 05 31 56-0105	EA	2-1/2" Flanged Gate Valve, Polyvinylidene Chloride (PVDC) Saran Lined	3,664.61	181.58
40 05 31 56-0106	EA	3" Flanged Gate Valve, Polyvinylidene Chloride (PVDC) Saran Lined	4,545.53	203.65
40 05 31 56-0107	EA	4" Flanged Gate Valve, Polyvinylidene Chloride (PVDC) Saran Lined	5,777.41	341.84
40 05 31 56-0108	EA	6" Flanged Gate Valve, Polyvinylidene Chloride (PVDC) Saran Lined	9,309.89	432.27
40 05 31 56-0109	EA	8" Flanged Gate Valve, Polyvinylidene Chloride (PVDC) Saran Lined	19,475.61	546.95
40 05 31 56-0110		**Polyvinylidene Chloride (PVDC) Saran Lined Check Valves** *(40 05 31 56-0001)*		
40 05 31 56-0111	EA	1" Flanged Check Valve, Polyvinylidene Chloride (PVDC) Saran Lined	2,082.36	100.76
40 05 31 56-0112	EA	1-1/4" Flanged Check Valve, Polyvinylidene Chloride (PVDC) Saran Lined	2,349.99	113.35
40 05 31 56-0113	EA	1-1/2" Flanged Check Valve, Polyvinylidene Chloride (PVDC) Saran Lined	2,652.13	125.63
40 05 31 56-0114	EA	2" Flanged Check Valve, Polyvinylidene Chloride (PVDC) Saran Lined	3,146.12	159.53
40 05 31 56-0115	EA	2-1/2" Flanged Check Valve, Polyvinylidene Chloride (PVDC) Saran Lined	4,146.74	181.58
40 05 31 56-0116	EA	3" Flanged Check Valve, Polyvinylidene Chloride (PVDC) Saran Lined	5,147.35	203.65
40 05 31 56-0117	EA	4" Flanged Check Valve, Polyvinylidene Chloride (PVDC) Saran Lined	6,527.76	341.84
40 05 31 56-0118	EA	6" Flanged Check Valve, Polyvinylidene Chloride (PVDC) Saran Lined	10,539.83	432.27
40 05 31 56-0119	EA	8" Flanged Check Valve, Polyvinylidene Chloride (PVDC) Saran Lined	22,111.19	546.95
40 05 31 56-0120		**Polyvinylidene Chloride (PVDC) Saran Lined Plug Valves** *(40 05 31 56-0001)*		
40 05 31 56-0121	EA	1" Flanged Plug Valve, Polyvinylidene Chloride (PVDC) Saran Lined	1,828.32	100.76
40 05 31 56-0122	EA	1-1/4" Flanged Plug Valve, Polyvinylidene Chloride (PVDC) Saran Lined	2,064.37	113.35
40 05 31 56-0123	EA	1-1/2" Flanged Plug Valve, Polyvinylidene Chloride (PVDC) Saran Lined	2,327.13	125.63
40 05 31 56-0124	EA	2" Flanged Plug Valve, Polyvinylidene Chloride (PVDC) Saran Lined	2,762.99	159.53
40 05 31 56-0125	EA	2-1/2" Flanged Plug Valve, Polyvinylidene Chloride (PVDC) Saran Lined	3,638.42	181.58
40 05 31 56-0126	EA	3" Flanged Plug Valve, Polyvinylidene Chloride (PVDC) Saran Lined	4,513.85	203.65
40 05 31 56-0127	EA	4" Flanged Plug Valve, Polyvinylidene Chloride (PVDC) Saran Lined	5,738.07	341.84
40 05 31 56-0128	EA	6" Flanged Plug Valve, Polyvinylidene Chloride (PVDC) Saran Lined	9,245.83	432.27
40 05 31 56-0129	EA	8" Flanged Plug Valve, Polyvinylidene Chloride (PVDC) Saran Lined	18,301.64	546.95
40 05 38		**PTFE Process Pipe** *(40 05)*		
40 05 38 00-0001		**Polytetrafluoroethylene (PTFE) Lined Steel Piping System** *(40 05 38)*		
40 05 38 00-0002		**Polytetrafluoroethylene (PTFE) Lined Pipe And Fittings** *(40 05 38 00-0001)*		
40 05 38 00-0003		**Polytetrafluoroethylene (PTFE) Lined Pipe** *(40 05 38 00-0002)*		
40 05 38 00-0004	LF	3/4" Polytetrafluoroethylene (PTFE) Lined Pipe	152.75	2.52
40 05 38 00-0005	LF	1" Polytetrafluoroethylene (PTFE) Lined Pipe	227.88	2.75
40 05 38 00-0006	LF	1-1/4" Polytetrafluoroethylene (PTFE) Lined Pipe	254.46	2.99
40 05 38 00-0007	LF	1-1/2" Polytetrafluoroethylene (PTFE) Lined Pipe	280.64	2.99
40 05 38 00-0008	LF	2" Polytetrafluoroethylene (PTFE) Lined Pipe	307.36	3.59
40 05 38 00-0009	LF	2-1/2" Polytetrafluoroethylene (PTFE) Lined Pipe	405.39	4.31
40 05 38 00-0010	LF	3" Polytetrafluoroethylene (PTFE) Lined Pipe	487.18	5.14
40 05 38 00-0011	LF	4" Polytetrafluoroethylene (PTFE) Lined Pipe	702.34	7.78
40 05 38 00-0012	LF	6" Polytetrafluoroethylene (PTFE) Lined Pipe	1,314.48	10.29
40 05 38 00-0013	LF	8" Polytetrafluoroethylene (PTFE) Lined Pipe	2,346.69	12.32
40 05 38 00-0014		**90 Degree Elbows** *(40 05 38 00-0002)*		
40 05 38 00-0015	EA	3/4" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,029.65	10.29
40 05 38 00-0016	EA	1" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,035.83	12.80
40 05 38 00-0017	EA	1-1/4" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,081.74	18.07
40 05 38 00-0018	EA	1-1/2" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,087.51	20.34
40 05 38 00-0019	EA	2" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,250.69	25.84
40 05 38 00-0020	EA	2-1/2" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,580.57	38.29
40 05 38 00-0021	EA	3" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,909.64	50.37
40 05 38 00-0022	EA	4" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	2,839.12	59.82
40 05 38 00-0023	EA	6" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	4,438.74	68.32
40 05 38 00-0024	EA	8" 90 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	6,967.26	86.14

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 38 00-0025		**45 Degree Elbows** *(40 05 38 00-0002)*		
40 05 38 00-0026	EA	3/4" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	870.89	10.29
40 05 38 00-0027	EA	1" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	877.07	12.80
40 05 38 00-0028	EA	1-1/4" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	993.02	18.07
40 05 38 00-0029	EA	1-1/2" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	998.79	20.34
40 05 38 00-0030	EA	2" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,147.97	25.84
40 05 38 00-0031	EA	2-1/2" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,533.88	38.29
40 05 38 00-0032	EA	3" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	1,914.31	50.37
40 05 38 00-0033	EA	4" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	2,516.93	59.82
40 05 38 00-0034	EA	6" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	4,406.05	68.32
40 05 38 00-0035	EA	8" 45 Degree Elbow, Polytetrafluoroethylene (PTFE) Lined	6,736.54	79.80
40 05 38 00-0036		**Tees** *(40 05 38 00-0002)*		
40 05 38 00-0037	EA	3/4" Tee, Polytetrafluoroethylene (PTFE) Lined	1,691.55	15.43
40 05 38 00-0038	EA	1" Tee, Polytetrafluoroethylene (PTFE) Lined	1,703.87	20.34
40 05 38 00-0039	EA	1-1/4" Tee, Polytetrafluoroethylene (PTFE) Lined	2,007.13	25.84
40 05 38 00-0040	EA	1-1/2" Tee, Polytetrafluoroethylene (PTFE) Lined	2,019.65	30.87
40 05 38 00-0041	EA	2" Tee, Polytetrafluoroethylene (PTFE) Lined	2,304.33	38.29
40 05 38 00-0042	EA	2-1/2" Tee, Polytetrafluoroethylene (PTFE) Lined	2,698.77	50.37
40 05 38 00-0043	EA	3" Tee, Polytetrafluoroethylene (PTFE) Lined	3,086.60	59.82
40 05 38 00-0044	EA	4" Tee, Polytetrafluoroethylene (PTFE) Lined	4,028.30	79.80
40 05 38 00-0045	EA	6" Tee, Polytetrafluoroethylene (PTFE) Lined	5,500.90	102.89
40 05 38 00-0046	EA	8" Tee, Polytetrafluoroethylene (PTFE) Lined	10,554.15	127.54
40 05 38 00-0047		**Crosses** *(40 05 38 00-0002)*		
40 05 38 00-0048	EA	3/4" Cross, Polytetrafluoroethylene (PTFE) Lined	2,400.16	20.57
40 05 38 00-0049	EA	1" Cross, Polytetrafluoroethylene (PTFE) Lined	2,413.30	25.84
40 05 38 00-0050	EA	1-1/4" Cross, Polytetrafluoroethylene (PTFE) Lined	2,939.24	36.38
40 05 38 00-0051	EA	1-1/2" Cross, Polytetrafluoroethylene (PTFE) Lined	2,950.14	40.68
40 05 38 00-0052	EA	2" Cross, Polytetrafluoroethylene (PTFE) Lined	3,327.86	51.69
40 05 38 00-0053	EA	2-1/2" Cross, Polytetrafluoroethylene (PTFE) Lined	3,838.21	76.57
40 05 38 00-0054	EA	3" Cross, Polytetrafluoroethylene (PTFE) Lined	5,088.74	100.51
40 05 38 00-0055	EA	4" Cross, Polytetrafluoroethylene (PTFE) Lined	5,701.58	119.65
40 05 38 00-0056	EA	6" Cross, Polytetrafluoroethylene (PTFE) Lined	10,073.17	136.87
40 05 38 00-0057	EA	8" Cross, Polytetrafluoroethylene (PTFE) Lined	12,768.54	159.72
40 05 38 00-0058		**Reducers** *(40 05 38 00-0002)*		
40 05 38 00-0059	EA	1" Reducer, Polytetrafluoroethylene (PTFE) Lined	1,423.38	12.80
40 05 38 00-0060	EA	1-1/4" Reducer, Polytetrafluoroethylene (PTFE) Lined	1,436.61	18.07
40 05 38 00-0061	EA	1-1/2" Reducer, Polytetrafluoroethylene (PTFE) Lined	1,442.38	20.34
40 05 38 00-0062	EA	2" Reducer, Polytetrafluoroethylene (PTFE) Lined	1,698.95	25.84
40 05 38 00-0063	EA	2-1/2" Reducer, Polytetrafluoroethylene (PTFE) Lined	1,963.46	38.29
40 05 38 00-0064	EA	3" Reducer, Polytetrafluoroethylene (PTFE) Lined	2,189.80	50.37
40 05 38 00-0065	EA	4" Reducer, Polytetrafluoroethylene (PTFE) Lined	2,857.80	59.82
40 05 38 00-0066	EA	6" Reducer, Polytetrafluoroethylene (PTFE) Lined	3,948.46	68.32
40 05 38 00-0067	EA	8" Reducer, Polytetrafluoroethylene (PTFE) Lined	6,391.00	79.80
40 05 38 00-0068		**Unions** *(40 05 38 00-0002)*		
40 05 38 00-0069	EA	3/4" Union, Polytetrafluoroethylene (PTFE) Lined	1,291.15	15.43
40 05 38 00-0070	EA	1" Union, Polytetrafluoroethylene (PTFE) Lined	1,482.39	20.34
40 05 38 00-0071	EA	1-1/4" Union, Polytetrafluoroethylene (PTFE) Lined	2,902.06	25.84
40 05 38 00-0072	EA	1-1/2" Union, Polytetrafluoroethylene (PTFE) Lined	3,287.82	30.87
40 05 38 00-0073	EA	2" Union, Polytetrafluoroethylene (PTFE) Lined	4,446.41	38.29
40 05 38 00-0074	EA	2-1/2" Union, Polytetrafluoroethylene (PTFE) Lined	6,465.37	50.37
40 05 38 00-0075	EA	3" Union, Polytetrafluoroethylene (PTFE) Lined	8,252.80	59.82
40 05 38 00-0076	EA	4" Union, Polytetrafluoroethylene (PTFE) Lined	12,811.79	79.80
40 05 38 00-0077	EA	6" Union, Polytetrafluoroethylene (PTFE) Lined	17,164.13	102.89
40 05 38 00-0078	EA	8" Union, Polytetrafluoroethylene (PTFE) Lined	28,212.40	127.54
40 05 38 00-0079		**Blind Flanges** *(40 05 38 00-0002)*		
40 05 38 00-0080	EA	3/4" Blind Flanges, Polytetrafluoroethylene (PTFE) Lined	188.01	15.43
40 05 38 00-0081	EA	1" Blind Flange, Polytetrafluoroethylene (PTFE) Lined	200.33	20.34
40 05 38 00-0082	EA	1-1/4" Blind Flange, Polytetrafluoroethylene (PTFE) Lined	228.10	25.84
40 05 38 00-0083	EA	1-1/2" Blind Flange, Polytetrafluoroethylene (PTFE) Lined	240.62	30.87
40 05 38 00-0084	EA	2" Blind Flange, Polytetrafluoroethylene (PTFE) Lined	277.82	38.29
40 05 38 00-0085	EA	2-1/2" Blind Flange, Polytetrafluoroethylene (PTFE) Lined	350.07	50.37
40 05 38 00-0086	EA	3" Blind Flange, Polytetrafluoroethylene (PTFE) Lined	415.71	59.82
40 05 38 00-0087	EA	4" Blind Flange, Polytetrafluoroethylene (PTFE) Lined	526.27	79.80
40 05 38 00-0088	EA	6" Blind Flange, Polytetrafluoroethylene (PTFE) Lined	780.16	102.89
40 05 38 00-0089	EA	8" Blind Flange, Polytetrafluoroethylene (PTFE) Lined	1,145.36	127.54
40 05 38 00-0090		**Filler Flanges** *(40 05 38 00-0002)*		
40 05 38 00-0091	EA	1" Filler Flange, Polytetrafluoroethylene (PTFE) Lined	494.50	20.34

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 38 00-0092	EA	1-1/4" Filler Flange, Polytetrafluoroethylene (PTFE) Lined	559.62	25.84
40 05 38 00-0093	EA	1-1/2" Filler Flange, Polytetrafluoroethylene (PTFE) Lined	628.18	30.87
40 05 38 00-0094	EA	2" Filler Flange, Polytetrafluoroethylene (PTFE) Lined	768.10	38.29
40 05 38 00-0095	EA	2-1/2" Filler Flange, Polytetrafluoroethylene (PTFE) Lined	957.09	50.37
40 05 38 00-0096	EA	3" Filler Flange, Polytetrafluoroethylene (PTFE) Lined	1,144.14	59.82
40 05 38 00-0097	EA	4" Filler Flange, Polytetrafluoroethylene (PTFE) Lined	1,455.47	79.80
40 05 38 00-0098	EA	6" Filler Flange, Polytetrafluoroethylene (PTFE) Lined	1,830.77	102.89
40 05 38 00-0099	EA	8" Filler Flange, Polytetrafluoroethylene (PTFE) Lined	2,812.33	127.54

40 05 38 00-0100 Polytetrafluoroethylene (PTFE) Lined Gate Valves *(40 05 38 00-0001)*

40 05 38 00-0101	EA	1" Flanged Gate Valve, Polytetrafluoroethylene (PTFE) Lined	2,765.61	100.76
40 05 38 00-0102	EA	1-1/4" Flanged Gate Valve, Polytetrafluoroethylene (PTFE) Lined	3,121.20	113.35
40 05 38 00-0103	EA	1-1/2" Flanged Gate Valve, Polytetrafluoroethylene (PTFE) Lined	3,523.36	125.63
40 05 38 00-0104	EA	2" Flanged Gate Valve, Polytetrafluoroethylene (PTFE) Lined	4,175.21	159.53
40 05 38 00-0105	EA	2-1/2" Flanged Gate Valve, Polytetrafluoroethylene (PTFE) Lined	5,515.64	181.58
40 05 38 00-0106	EA	3" Flanged Gate Valve, Polytetrafluoroethylene (PTFE) Lined	6,856.06	203.65
40 05 38 00-0107	EA	4" Flanged Gate Valve, Polytetrafluoroethylene (PTFE) Lined	8,658.23	341.84
40 05 38 00-0108	EA	6" Flanged Gate Valve, Polytetrafluoroethylene (PTFE) Lined	14,031.96	432.27
40 05 38 00-0109	EA	8" Flanged Gate Valve, Polytetrafluoroethylene (PTFE) Lined	29,594.33	546.95

40 05 38 00-0110 Polytetrafluoroethylene (PTFE) Lined Check Valves *(40 05 38 00-0001)*

40 05 38 00-0111	EA	1" Flanged Check Valve, Polytetrafluoroethylene (PTFE) Lined	3,135.82	100.76
40 05 38 00-0112	EA	1-1/4" Flanged Check Valve, Polytetrafluoroethylene (PTFE) Lined	3,539.08	113.35
40 05 38 00-0113	EA	1-1/2" Flanged Check Valve, Polytetrafluoroethylene (PTFE) Lined	3,995.43	125.63
40 05 38 00-0114	EA	2" Flanged Check Valve, Polytetrafluoroethylene (PTFE) Lined	4,732.81	159.53
40 05 38 00-0115	EA	2-1/2" Flanged Check Valve, Polytetrafluoroethylene (PTFE) Lined	6,257.37	181.58
40 05 38 00-0116	EA	3" Flanged Check Valve, Polytetrafluoroethylene (PTFE) Lined	7,781.92	203.65
40 05 38 00-0117	EA	4" Flanged Check Valve, Polytetrafluoroethylene (PTFE) Lined	9,812.63	341.84
40 05 38 00-0118	EA	6" Flanged Check Valve, Polytetrafluoroethylene (PTFE) Lined	15,924.18	432.27
40 05 38 00-0119	EA	8" Flanged Check Valve, Polytetrafluoroethylene (PTFE) Lined	33,649.08	546.95

40 05 38 00-0120 Polytetrafluoroethylene (PTFE) Lined Plug Valves *(40 05 38 00-0001)*

40 05 38 00-0121	EA	1" Flanged Plug Valve, Polytetrafluoroethylene (PTFE) Lined	2,744.98	100.76
40 05 38 00-0122	EA	1-1/4" Flanged Plug Valve, Polytetrafluoroethylene (PTFE) Lined	3,099.66	113.35
40 05 38 00-0123	EA	1-1/2" Flanged Plug Valve, Polytetrafluoroethylene (PTFE) Lined	3,495.43	125.63
40 05 38 00-0124	EA	2" Flanged Plug Valve, Polytetrafluoroethylene (PTFE) Lined	4,143.38	159.53
40 05 38 00-0125	EA	2-1/2" Flanged Plug Valve, Polytetrafluoroethylene (PTFE) Lined	5,475.35	181.58
40 05 38 00-0126	EA	3" Flanged Plug Valve, Polytetrafluoroethylene (PTFE) Lined	6,807.30	203.65
40 05 38 00-0127	EA	4" Flanged Plug Valve, Polytetrafluoroethylene (PTFE) Lined	8,597.70	341.84
40 05 38 00-0128	EA	6" Flanged Plug Valve, Polytetrafluoroethylene (PTFE) Lined	13,933.40	432.27
40 05 38 00-0129	EA	8" Flanged Plug Valve, Polytetrafluoroethylene (PTFE) Lined	27,788.23	546.95

40 05 41 Glass Process Pipe *(40 05)*

40 05 41 00-0001 Glass Pressure Pipe *(40 05 41)*

40 05 41 00-0002 Glass Pipe, Beaded Joints *(40 05 41 00-0001)*

40 05 41 00-0003	LF	1/2" Glass Pipe, Pressure	48.46	17.95
		For Work In Restricted Working Space, Add	*10.77*	
40 05 41 00-0004	LF	3/4" Glass Pipe, Pressure	58.15	21.54
		For Work In Restricted Working Space, Add	*12.92*	
40 05 41 00-0005	LF	1" Glass Pipe, Pressure	67.47	23.93
		For Work In Restricted Working Space, Add	*14.36*	
40 05 41 00-0006	LF	1-1/2" Glass Pipe, Pressure	89.18	32.30
		For Work In Restricted Working Space, Add	*19.38*	
40 05 41 00-0007	LF	2" Glass Pipe, Pressure	109.08	38.29
		For Work In Restricted Working Space, Add	*22.97*	
40 05 41 00-0008	LF	3" Glass Pipe, Pressure	134.97	44.27
		For Work In Restricted Working Space, Add	*26.56*	
40 05 41 00-0009	LF	4" Glass Pipe, Pressure	184.68	59.82
		For Work In Restricted Working Space, Add	*35.90*	
40 05 41 00-0010	LF	6" Glass Pipe, Pressure	260.23	71.79
		For Work In Restricted Working Space, Add	*43.07*	

40 05 41 00-0011 Glass 90 Degree Elbows *(40 05 41 00-0001)*

40 05 41 00-0012	EA	1/2" 90 Degree Elbow, Glass, Pressure	220.79	95.71
		For Work In Restricted Working Space, Add	*57.43*	
40 05 41 00-0013	EA	3/4" 90 Degree Elbow, Glass, Pressure	237.99	101.70
		For Work In Restricted Working Space, Add	*61.02*	
40 05 41 00-0014	EA	1" 90 Degree Elbow, Glass, Pressure	260.63	107.68
		For Work In Restricted Working Space, Add	*64.61*	
40 05 41 00-0015	EA	1-1/2" 90 Degree Elbow, Glass, Pressure	287.56	119.65
		For Work In Restricted Working Space, Add	*71.79*	
40 05 41 00-0016	EA	2" 90 Degree Elbow, Glass, Pressure	327.60	131.61
		For Work In Restricted Working Space, Add	*78.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 41 00-0017	EA	3" 90 Degree Elbow, Glass, Pressure	413.63	155.53
		For Work In Restricted Working Space, Add	*93.32*	
40 05 41 00-0018	EA	4" 90 Degree Elbow, Glass, Pressure	477.74	167.50
		For Work In Restricted Working Space, Add	*100.49*	
40 05 41 00-0019	EA	6" 90 Degree Elbow, Glass, Pressure	754.96	191.43
		For Work In Restricted Working Space, Add	*114.87*	
40 05 41 00-0020		Glass 45 Degree Elbows *(40 05 41 00-0001)*		
40 05 41 00-0021	EA	1/2" 45 Degree Elbow, Glass, Pressure	219.62	95.71
		For Work In Restricted Working Space, Add	*57.43*	
40 05 41 00-0022	EA	3/4" 45 Degree Elbow, Glass, Pressure	236.62	101.70
		For Work In Restricted Working Space, Add	*61.02*	
40 05 41 00-0023	EA	1" 45 Degree Elbow, Glass, Pressure	258.79	107.68
		For Work In Restricted Working Space, Add	*64.60*	
40 05 41 00-0024	EA	1-1/2" 45 Degree Elbow, Glass, Pressure	285.63	119.65
		For Work In Restricted Working Space, Add	*71.79*	
40 05 41 00-0025	EA	2" 45 Degree Elbow, Glass, Pressure	324.97	131.61
		For Work In Restricted Working Space, Add	*78.96*	
40 05 41 00-0026	EA	3" 45 Degree Elbow, Glass, Pressure	409.56	155.53
		For Work In Restricted Working Space, Add	*93.33*	
40 05 41 00-0027	EA	4" 45 Degree Elbow, Glass, Pressure	472.03	167.50
		For Work In Restricted Working Space, Add	*100.49*	
40 05 41 00-0028	EA	6" 45 Degree Elbow, Glass, Pressure	739.94	191.43
		For Work In Restricted Working Space, Add	*114.83*	
40 05 41 00-0029		Glass Tees *(40 05 41 00-0001)*		
40 05 41 00-0030	EA	1/2" Tee, Glass, Pressure	337.47	143.58
		For Work In Restricted Working Space, Add	*86.16*	
40 05 41 00-0031	EA	3/4" Tee, Glass, Pressure	362.04	155.53
		For Work In Restricted Working Space, Add	*93.33*	
40 05 41 00-0032	EA	1" Tee, Glass, Pressure	391.26	167.50
		For Work In Restricted Working Space, Add	*100.49*	
40 05 41 00-0033	EA	1-1/2" Tee, Glass, Pressure	441.32	179.47
		For Work In Restricted Working Space, Add	*107.66*	
40 05 41 00-0034	EA	2" Tee, Glass, Pressure	491.41	197.42
		For Work In Restricted Working Space, Add	*118.46*	
40 05 41 00-0035	EA	3" Tee, Glass, Pressure	597.24	239.29
		For Work In Restricted Working Space, Add	*143.57*	
40 05 41 00-0036	EA	4" Tee, Glass, Pressure	701.40	251.14
		For Work In Restricted Working Space, Add	*150.69*	
40 05 41 00-0037	EA	6" Tee, Glass, Pressure	922.06	287.03
		For Work In Restricted Working Space, Add	*172.24*	
40 05 41 00-0038		Glass Couplings, Vitron Liner *(40 05 41 00-0001)*		
40 05 41 00-0039	EA	1/2" Coupling, Vitron Liner, Glass	42.23	
40 05 41 00-0040	EA	3/4" Coupling, Vitron Liner, Glass	48.27	
40 05 41 00-0041	EA	1" Coupling, Vitron Liner, Glass	56.31	
40 05 41 00-0042	EA	1-1/2" Coupling, Vitron Liner, Glass	64.36	
40 05 41 00-0043	EA	2" Coupling, Vitron Liner, Glass	77.43	
40 05 41 00-0044	EA	3" Coupling, Vitron Liner, Glass	141.79	
40 05 41 00-0045	EA	4" Coupling, Vitron Liner, Glass	170.95	
40 05 41 00-0046	EA	6" Coupling, Vitron Liner, Glass	341.90	

40 05 63 Ball Valves *(40 05)*

40 05 63 43 Plastic Ball Valves *(40 05 63)*

40 05 63 43-0001 Polysulfone Resin, PVC Socket Welded Ends, Ball Valve *(40 05 63 43)*

Note: Hasrelloy C-276 stem handle and hardware. 150 PSIG rating.

40 05 63 43-0002	EA	1/2" Polysulfone Resin, PVC Socket Welded Ends, Ball Valve (Nil-Cor 410 ST-V-S-PVC)	500.47	11.97
40 05 63 43-0003	EA	3/4" Polysulfone Resin, PVC Socket Welded Ends, Ball Valve (Nil-Cor 410 ST-V-S-PVC)	513.63	11.97
40 05 63 43-0004	EA	1" Polysulfone Resin, PVC Socket Welded Ends, Ball Valve (Nil-Cor 410 ST-V-S-PVC)	525.58	14.96
40 05 63 43-0005	EA	1-1/2" Polysulfone Resin, PVC Socket Welded Ends, Ball Valve (Nil-Cor 410 ST-V-S-PVC)	812.98	18.43
40 05 63 43-0006	EA	2" Polysulfone Resin, PVC Socket Welded Ends, Ball Valve (Nil-Cor 410 ST-V-S-PVC)	995.05	21.77
40 05 63 43-0007	EA	1" Polysulfone Resin, 150 Lb. Flange, Ball Valve (Nil-Cor 410 ST-T-S)	1,241.11	50.37
40 05 63 43-0008	EA	1-1/2" Polysulfone Resin, 150 Lb. Flange, Ball Valve (Nil-Cor 410 ST-T-S)	1,571.54	125.63
40 05 63 43-0009	EA	2" Polysulfone Resin, 150 Lb. Flange, Ball Valve (Nil-Cor 410 ST-T-S)	2,036.15	106.36
40 05 63 43-0010	EA	3" Polysulfone Resin, 150 Lb. Flange, Ball Valve (Nil-Cor 410 ST-T-S)	2,722.36	203.40
40 05 63 43-0011	EA	4" Polysulfone Resin, 150 Lb. Flange, Ball Valve (Nil-Cor 410 ST-T-S)	4,067.52	340.99

40 05 63 43-0012 Vinyl Ester, 150 Lb. Flange, Ball Valve *(40 05 63 43)*

Note: Hasrelloy C-276 stem handle and hardware. 150 PSIG rating.

40 05 63 43-0013	EA	1" Vinyl Ester, 150 Lb. Flange, Ball Valve (Nil-Cor 310 ST-T-S)	770.45	100.76
40 05 63 43-0014	EA	1-1/2" Vinyl Ester, 150 Lb. Flange, Ball Valve (Nil-Cor 310 ST-T-S)	1,069.07	125.63
40 05 63 43-0015	EA	2" Vinyl Ester, 150 Lb. Flange, Ball Valve (Nil-Cor 310 ST-T-S)	1,229.78	159.53
40 05 63 43-0016	EA	3" Vinyl Ester, 150 Lb. Flange, Ball Valve (Nil-Cor 310 ST-T-S)	1,808.60	203.65
40 05 63 43-0017	EA	4" Vinyl Ester, 150 Lb. Flange, Ball Valve (Nil-Cor 310 ST-T-S)	2,780.62	341.84

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 63 43-0018	EA	6" Vinyl Ester, 150 Lb. Flange, Ball Valve (Nil-Cor 310 ST-T-S)	5,164.27	432.27

40 05 71 Solids Handling Valves *(40 05)*

40 05 71 16 Flap Gates *(40 05 71)*

40 05 71 16-0001 Cast Iron, Flap Valves *(40 05 71 16)*

40 05 71 16-0002	EA	3" Cast Iron, Flap Valve (Troy A25406/04-03)	691.69	114.55
40 05 71 16-0003	EA	4" Cast Iron, Flap Valve (Troy A25406/04)	868.16	192.29
40 05 71 16-0004	EA	6" Cast Iron, Flap Valve (Troy A25406/06)	992.68	229.59
40 05 71 16-0005	EA	8" Cast Iron, Flap Valve (Troy A25406/08)	1,457.05	290.49
40 05 71 16-0006	EA	10" Cast Iron, Flap Valve (Troy A25406/10)	1,913.39	355.86
40 05 71 16-0007	EA	12" Cast Iron, Flap Valve (Troy A25406/12)	2,202.42	431.34
40 05 71 16-0008	EA	14" Cast Iron, Flap Valve (Troy A25406/14)	4,297.24	614.46
40 05 71 16-0009	EA	16" Cast Iron, Flap Valve (Troy A25406/16)	6,042.91	1,351.82
40 05 71 16-0010	EA	18" Cast Iron, Flap Valve (Troy A25406/18)	6,013.64	749.65
40 05 71 16-0011	EA	20" Cast Iron, Flap Valve (Troy A25406/20)	7,336.87	844.89
40 05 71 16-0012	EA	24" Cast Iron, Flap Valve (Troy A25406/24)	9,464.42	1,036.91
40 05 71 16-0013	EA	30" Cast Iron, Flap Valve (Troy A25406/30)	19,256.38	1,639.33

40 05 71 23 Mud Valves *(40 05 71)*

40 05 71 23-0001 Cast Iron, Non-Rising Stem, Mud Valves *(40 05 71 23)*

40 05 71 23-0002	EA	3" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/03)	965.62	76.37
40 05 71 23-0003	EA	4" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/04)	1,098.36	128.19
40 05 71 23-0004	EA	6" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/06)	1,185.65	153.06
40 05 71 23-0005	EA	8" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/08)	1,540.29	193.66
40 05 71 23-0006	EA	10" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/10)	2,312.99	237.23
40 05 71 23-0007	EA	12" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/12)	2,714.31	287.56
40 05 71 23-0008	EA	14" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/14)	5,196.27	409.65
40 05 71 23-0009	EA	16" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/16)	6,915.65	901.22
40 05 71 23-0010	EA	18" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/18)	6,934.15	499.76
40 05 71 23-0011	EA	20" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/20)	7,668.14	563.26
40 05 71 23-0012	EA	24" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/24)	9,725.23	691.27
40 05 71 23-0013	EA	30" Cast Iron, Non-Rising Stem, Mud Valve (Troy A25600RB/30)	15,076.24	1,092.88

40 05 71 23-0014 Cast 316 Stainless Steel, Non-Rising Stem, Mud Valve *(40 05 71 23)*

40 05 71 23-0015	EA	4" Cast 316 Stainless Steel, Non-Rising Stem, Mud Valve (Troy A25600RB/04CSS)	1,944.05	128.19
40 05 71 23-0016	EA	6" Cast 316 Stainless Steel, Non-Rising Stem, Mud Valve (Troy A25600RB/06CSS)	2,401.83	153.06
40 05 71 23-0017	EA	8" Cast 316 Stainless Steel, Non-Rising Stem, Mud Valve (Troy A25600RB/08CSS)	3,719.75	193.66
40 05 71 23-0018	EA	10" Cast 316 Stainless Steel, Non-Rising Stem, Mud Valve (Troy A25600RB/10CSS)	4,506.22	237.23
40 05 71 23-0019	EA	12" Cast 316 Stainless Steel, Non-Rising Stem, Mud Valve (Troy A25600RB/12CSS)	5,903.47	287.56

40 05 71 23-0020 Cast Iron, Rising Stem, Mud Valves *(40 05 71 23)*

40 05 71 23-0021	EA	4" Cast Iron, Rising Stem, Mud Valve (Troy A25612RB/04)	1,384.96	128.19
40 05 71 23-0022	EA	6" Cast Iron, Rising Stem, Mud Valve (Troy A25612RB/06)	1,523.03	153.06
40 05 71 23-0023	EA	8" Cast Iron, Rising Stem, Mud Valve (Troy A25612RB/08)	1,940.36	193.66
40 05 71 23-0024	EA	10" Cast Iron, Rising Stem, Mud Valve (Troy A25612RB/10)	3,014.79	237.23
40 05 71 23-0025	EA	12" Cast Iron, Rising Stem, Mud Valve (Troy A25612RB/12)	3,930.08	287.56
40 05 71 23-0026	EA	16" Cast Iron, Rising Stem, Mud Valve (Troy A25612RB/16)	7,178.56	901.22
40 05 71 23-0027	EA	18" Cast Iron, Rising Stem, Mud Valve (Troy A25612RB/18)	7,584.20	499.76

40 05 71 23-0028 Cast 316 Stainless Steel, Rising Stem, Mud Valves *(40 05 71 23)*

40 05 71 23-0029	EA	4" Cast 316 Stainless Steel, Rising Stem, Mud Valve (Troy A25612RB/04CSS)	2,290.13	128.19
40 05 71 23-0030	EA	6" Cast 316 Stainless Steel, Rising Stem, Mud Valve (Troy A25612RB/06CSS)	2,831.17	153.06
40 05 71 23-0031	EA	8" Cast 316 Stainless Steel, Rising Stem, Mud Valve (Troy A25612RB/08CSS)	3,788.76	193.66
40 05 71 23-0032	EA	10" Cast 316 Stainless Steel, Rising Stem, Mud Valve (Troy A25612RB/10CSS)	5,328.38	237.23
40 05 71 23-0033	EA	12" Cast 316 Stainless Steel, Rising Stem, Mud Valve (Troy A25612RB/12CSS)	7,515.34	287.56

40 05 73 Special-Application Process Valves *(40 05)*

40 05 73 13 Altitude Valves *(40 05 73)*

40 05 73 13-0001 Single Acting, Modulating, Altitude Valves *(40 05 73 13)*

40 05 73 13-0002	EA	2-1/2" Diameter, Flanged, Single Acting, Modulating, Altitude Valve	5,325.02	173.48
40 05 73 13-0003	EA	3" Diameter, Flanged, Single Acting, Modulating, Altitude Valve	5,437.15	203.40
40 05 73 13-0004	EA	4" Diameter, Flanged, Single Acting, Modulating, Altitude Valve	6,586.33	340.99
40 05 73 13-0005	EA	6" Diameter, Flanged, Single Acting, Modulating, Altitude Valve	8,013.77	430.72
40 05 73 13-0006	EA	8" Diameter, Flanged, Single Acting, Modulating, Altitude Valve	11,461.97	550.37
40 05 73 13-0007	EA	10" Diameter, Flanged, Single Acting, Modulating, Altitude Valve	12,930.23	670.01
40 05 73 13-0008	EA	12" Diameter, Flanged, Single Acting, Modulating, Altitude Valve	19,491.66	813.59

40 05 73 13-0009 Single Acting, Non-Modulating, Altitude Valves *(40 05 73 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 73 13-0010	EA	2-1/2" Diameter, Flanged, Single Acting, Non-Modulating, Altitude Valve	5,362.58	173.48
40 05 73 13-0011	EA	3" Diameter, Flanged, Single Acting, Non-Modulating, Altitude Valve	5,549.82	203.40
40 05 73 13-0012	EA	4" Diameter, Flanged, Single Acting, Non-Modulating, Altitude Valve	6,811.66	340.99
40 05 73 13-0013	EA	6" Diameter, Flanged, Single Acting, Non-Modulating, Altitude Valve	8,426.88	430.72
40 05 73 13-0014	EA	8" Diameter, Flanged, Single Acting, Non-Modulating, Altitude Valve	11,687.31	550.37
40 05 73 13-0015	EA	10" Diameter, Flanged, Single Acting, Non-Modulating, Altitude Valve	12,967.78	670.01
40 05 73 13-0016	EA	12" Diameter, Flanged, Single Acting, Non-Modulating, Altitude Valve	19,641.88	813.59
40 05 73 13-0017		Double Acting, Non-Modulating, Altitude Valves *(40 05 73 13)*		
40 05 73 13-0018	EA	2-1/2" Diameter, Flanged, Double Acting, Non-Modulating, Altitude Valve	6,451.67	173.48
40 05 73 13-0019	EA	3" Diameter, Flanged, Double Acting, Non-Modulating, Altitude Valve	6,714.02	203.40
40 05 73 13-0020	EA	4" Diameter, Flanged, Double Acting, Non-Modulating, Altitude Valve	8,050.97	340.99
40 05 73 13-0021	EA	6" Diameter, Flanged, Double Acting, Non-Modulating, Altitude Valve	9,102.87	430.72
40 05 73 13-0022	EA	8" Diameter, Flanged, Double Acting, Non-Modulating, Altitude Valve	11,574.64	550.37
40 05 73 13-0023	EA	10" Diameter, Flanged, Double Acting, Non-Modulating, Altitude Valve	15,634.19	670.01
40 05 73 13-0024	EA	12" Diameter, Flanged, Double Acting, Non-Modulating, Altitude Valve	23,547.60	813.59

40 20 Liquids Process Piping *(40)*

40 23 Water and Wastewater Process Piping *(40 20)*

40 23 51 Water and Wastewater Process Valves *(40 23)*

40 23 51 00-0001		Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valves *(40 23 51)*		
40 23 51 00-0002	EA	2" Lever Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Gas Service Eccentric Plug Valve (DeZurik PEC,2,F1,CI,T,NBR*LV)	737.78	173.22
40 23 51 00-0003	EA	3" Lever Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Gas Service Eccentric Plug Valve (DeZurik PEC,3,F1,CI,T,NBR*LV)	1,135.54	221.18
40 23 51 00-0004	EA	4" Handwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,4,F1,CI,T,NBR,1304G0*GS-6-HD8)	2,279.34	340.99
40 23 51 00-0005	EA	4" Chainwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,4,F1,CI,T,NBR,1304G0*GS-6-CW8)	2,575.98	340.99
40 23 51 00-0006	EA	6" Handwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,6,F1,CI,T,NBR,1304G0*GS-6-HD8)	3,225.40	406.70
40 23 51 00-0007	EA	6" Chainwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,6,F1,CI,T,NBR,1304G0*GS-6-CW8)	3,585.92	406.70
40 23 51 00-0008	EA	8" Handwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,8,F1,CI,T,NBR,1304G0*GS-6-HD12)	4,796.64	519.67
40 23 51 00-0009	EA	8" Chainwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,8,F1,CI,T,NBR,1304G0*GS-6-CW12)	5,233.38	519.67
40 23 51 00-0010	EA	10" Handwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,10,F1,CI,T,NBR,1304G0*GS-12-HD12)	7,300.71	632.64
40 23 51 00-0011	EA	10" Chainwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,10,F1,CI,T,NBR,1304G0*GS-12-CW12)	7,922.86	632.64
40 23 51 00-0012	EA	14" Handwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,14,F1,CI,T,NBR,1304G0*GS-12-HD16)	12,467.36	1,092.38
40 23 51 00-0013	EA	14" Chainwheel Operated, Flanged, ANSI 125/150, Cast Iron, PTFE Packing, Acrylonitrile-Butadiene Plug Facing, Interior And Exterior Coating, Gas Service Eccentric Plug Valve (DeZurik PEC,14,F1,CI,T,NBR,1304G0*GS-12-CW20)	13,274.92	1,092.38
40 23 51 00-0014		Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valves *(40 23 51)*		
40 23 51 00-0015	EA	2" Lever Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,2,F1,CI,NBR,CR*LV)	732.90	173.25
40 23 51 00-0016	EA	3" Lever Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,3,F1,CI,NBR,CR*LV)	1,128.43	221.19
40 23 51 00-0017	EA	4" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,4,F1,CI,NBR,CR*GS-6-HD8)	2,023.88	340.99
40 23 51 00-0018	EA	4" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,4,F1,CI,NBR,CR*GS-6-CW8)	2,380.27	340.99
40 23 51 00-0019	EA	6" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,6,F1,CI,NBR,CR*GS-6-HD8)	2,875.18	406.70
40 23 51 00-0020	EA	6" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,6,F1,CI,NBR,CR*GS-6-CW8)	3,235.70	406.70
40 23 51 00-0021	EA	8" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,8,F1,CI,NBR,CR*GS-6-HD12)	4,209.51	519.67
40 23 51 00-0022	EA	8" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,8,F1,CI,NBR,CR*GS-6-CW12)	4,644.19	519.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 23 51 00-0023	EA	10" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,10,F1,CI,NBR,CR*GS-12-HD12)	6,723.88	632.64
40 23 51 00-0024	EA	10" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,10,F1,CI,NBR,CR*GS-12-CW12)	7,158.56	632.64
40 23 51 00-0025	EA	12" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,12,F1,CI,NBR,CR*GS-12-HD16)	8,852.83	768.19
40 23 51 00-0026	EA	12" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,12,F1,CI,NBR,CR*GS-12-CW20)	9,656.27	768.19
40 23 51 00-0027	EA	14" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,14,F1,CI,NBR,CR*GS-12-HD16)	11,315.76	1,092.38
40 23 51 00-0028	EA	14" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,14,F1,CI,NBR,CR*GS-12-CW20)	12,123.32	1,092.38
40 23 51 00-0029	EA	16" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,16,F1,CI,NBR,CR*GS-12-HD16)	13,629.83	1,201.62
40 23 51 00-0030	EA	16" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,16,F1,CI,NBR,CR*GS-12-CW20)	14,437.39	1,201.62
40 23 51 00-0031	EA	18" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,18,F1,CI,NBR,CR*GS-12-HD24)	17,913.89	1,332.70
40 23 51 00-0032	EA	18" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,18,F1,CI,NBR,CR*GS-12-CW30)	18,597.84	1,332.70
40 23 51 00-0033	EA	20" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,20,F1,CI,NBR,CR*GS-16-HD16)	24,734.34	1,502.02
40 23 51 00-0034	EA	20" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,20,F1,CI,NBR,CR*GS-16-CW20)	25,517.18	1,502.02
40 23 51 00-0035	EA	24" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,24,F1,CI,NBR,CR*GS-16-HD16)	44,056.29	1,843.39
40 23 51 00-0036	EA	24" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,24,F1,CI,NBR,CR*GS-16-CW20)	44,839.12	1,843.39
40 23 51 00-0037	EA	30" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,30,F1,CI,NBR,CR*GS-16-HD24)	60,746.85	2,914.35
40 23 51 00-0038	EA	30" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,30,F1,CI,NBR,CR*GS-16-CW30)	61,686.26	2,914.35
40 23 51 00-0039	EA	36" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,36,F1,CI,NBR,CR*GS-16-HD30)	92,813.23	3,885.81
40 23 51 00-0040	EA	36" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,36,F1,CI,NBR,CR*GS-16-CW30)	93,202.59	3,885.81

40 23 51 00-0041 Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valves *(40 23 51)*

40 23 51 00-0042	EA	3" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,3,F1,CI,NBR,CR*GS-6A-HD8)	2,367.48	221.19
40 23 51 00-0043	EA	3" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,3,F1,CI,NBR,CR*GS-6A-CW8)	2,789.80	221.19
40 23 51 00-0044	EA	4" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,4,F1,CI,NBR,CR*GS-6A-HD8)	2,617.20	340.99
40 23 51 00-0045	EA	4" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,4,F1,CI,NBR,CR*GS-6A-CW8)	3,041.58	340.99
40 23 51 00-0046	EA	6" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,6,F1,CI,NBR,CR*GS-6A-HD8)	4,107.12	406.70
40 23 51 00-0047	EA	6" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,6,F1,CI,NBR,CR*GS-6A-CW8)	4,531.51	406.70
40 23 51 00-0048	EA	8" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,8,F1,CI,NBR,CR*GS-6A-HD12)	5,035.61	519.67
40 23 51 00-0049	EA	8" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,8,F1,CI,NBR,CR*GS-6A-CW12)	5,550.64	519.67
40 23 51 00-0050	EA	10" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,10,F1,CI,NBR,CR*GS-12A-HD12)	8,219.51	632.64
40 23 51 00-0051	EA	10" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,10,F1,CI,NBR,CR*GS-12A-CW12)	8,734.54	632.64
40 23 51 00-0052	EA	12" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,12,F1,CI,NBR,CR*GS-12A-HD16)	9,732.50	768.19
40 23 51 00-0053	EA	12" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,12,F1,CI,NBR,CR*GS-12A-CW20)	10,395.85	768.19
40 23 51 00-0054	EA	14" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,14,F1,CI,NBR,CR*GS-12A-HD16)	12,840.24	1,092.38
40 23 51 00-0055	EA	14" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,14,F1,CI,NBR,CR*GS-12A-CW20)	13,499.47	1,092.38
40 23 51 00-0056	EA	16" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,16,F1,CI,NBR,CR*GS-12A-HD16)	15,191.38	1,201.62
40 23 51 00-0057	EA	16" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,16,F1,CI,NBR,CR*GS-12A-CW20)	15,850.62	1,201.62
40 23 51 00-0058	EA	18" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,18,F1,CI,NBR,CR*GS-12A-HD24)	19,475.44	1,332.70
40 23 51 00-0059	EA	18" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,18,F1,CI,NBR,CR*GS-12A-CW30)	20,287.12	1,332.70
40 23 51 00-0060	EA	20" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,20,F1,CI,NBR,CR*MG-WR3-HD24)	33,528.91	1,502.02
40 23 51 00-0061	EA	20" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,20,F1,CI,NBR,CR*GS-12A-CW30)	26,600.79	1,502.02
40 23 51 00-0062	EA	24" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,24,F1,CI,NBR,CR*MG-WR1-HD24)	54,935.67	1,843.39
40 23 51 00-0063	EA	24" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,24,F1,CI,NBR,CR*MG-WR1-CW30)	54,935.67	1,843.39

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 23 51 00-0064	EA	30" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,30,F1,CI,NBR,CR*MG-WR4-HD24)	84,419.46	2,914.35
40 23 51 00-0065	EA	30" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,30,F1,CI,NBR,CR*MG-WR4-CW30)	84,419.46	2,914.35
40 23 51 00-0066	EA	36" Handwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,36,F1,CI,NBR,CR*MG-WR4-HD24)	116,240.69	3,885.81
40 23 51 00-0067	EA	36" Chainwheel Operated, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 100% Port Eccentric Plug Valve (DeZurik PEF,36,F1,CI,NBR,CR*MG-WR4-CW30)	116,240.69	3,885.81

40 23 51 00-0068 Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valves *(40 23 51)*

40 23 51 00-0069	EA	4" Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,4,MJ,CI,NBR,CR*NT)	1,442.93	341.84
40 23 51 00-0070	EA	6" Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,6,MJ,CI,NBR,CR*NT)	2,404.52	451.88
40 23 51 00-0071	EA	8" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,8,MJ,CI,NBR,CR*GB-6-N)	4,298.07	516.41
40 23 51 00-0072	EA	10" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,10,MJ,CI,NBR,CR*GB-6-N)	6,116.15	632.64
40 23 51 00-0073	EA	12" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,12,MJ,CI,NBR,CR*GB-6-N)	7,671.86	766.81
40 23 51 00-0074	EA	14" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,14,MJ,CI,NBR,CR*GB-12-N)	11,047.95	1,092.38
40 23 51 00-0075	EA	16" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,16,MJ,CI,NBR,CR*GB-12-N)	13,699.87	1,201.62
40 23 51 00-0076	EA	18" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,18,MJ,CI,NBR,CR*GB-12-N)	17,733.27	1,335.11
40 23 51 00-0077	EA	20" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,20,MJ,CI,NBR,CR*GB-12-N)	23,805.23	1,502.02
40 23 51 00-0078	EA	24" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,24,MJ,CI,NBR,CR*GB-16-N)	46,975.41	1,848.65
40 23 51 00-0079	EA	30" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,30,MJ,CI,NBR,CR*GB-16-N)	63,536.54	2,967.34
40 23 51 00-0080	EA	36" Buriable Worm Gear Square Nut Actuator, Mechanical Joint, ANSI/AWWA C111/A21.11, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,36,MJ,CI,NBR,CR*GB-16-N)	91,813.72	3,709.18

40 23 51 00-0081 Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valves *(40 23 51)*

40 23 51 00-0082	EA	4" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,4,F1,CI,NBR,CR*GS-6-PC4,EPP)	8,579.43	340.99
40 23 51 00-0083	EA	6" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,6,F1,CI,NBR,CR*GS-6-PC4,EPP)	9,387.16	406.70
40 23 51 00-0084	EA	8" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,8,F1,CI,NBR,CR*GS-6-PC6,EPP)	10,370.49	519.67
40 23 51 00-0085	EA	10" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,10,F1,CI,NBR,CR*GS-6-PC8,EPP)	11,965.45	632.64
40 23 51 00-0086	EA	12" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,12,F1,CI,NBR,CR*GS-12-PC6,EPP)	15,292.76	768.19
40 23 51 00-0087	EA	14" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,14,F1,CI,NBR,CR*GS-12-PC6,EPP)	18,640.82	1,092.38
40 23 51 00-0088	EA	16" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,16,F1,CI,NBR,CR*GS-12-PC8,EPP)	21,992.54	1,201.62
40 23 51 00-0089	EA	18" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,18,F1,CI,NBR,CR*GS-12-PC8,EPP)	25,812.44	1,332.70
40 23 51 00-0090	EA	20" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,20,F1,CI,NBR,CR*GS-12-PC10,EPP)	32,204.21	1,502.02
40 23 51 00-0091	EA	24" Double Acting Cylinder Operated, Pneumatic Pump Check Accessory, Flanged, ANSI Class 125/150, Cast Iron, Acrylonitrile-Butadiene V-Type Packing, Chloroprene Plug Facing, 80% Port Eccentric Plug Valve (DeZurik PEC,24,F1,CI,NBR,CR*GS-16-PC8,EPP)	60,718.38	1,843.39

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 23 51 00-0092		**Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valves** *(40 23 51)*		
40 23 51 00-0093	EA	3" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,3,6000A,F1,DI,DI-S11-S2-NBR*AC)	9,412.79	221.19
40 23 51 00-0094	EA	4" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,4,6000A,F1,DI,DI-S11-S2-NBR*AC)	10,209.62	340.99
40 23 51 00-0095	EA	6" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,6,6000A,F1,DI,DI-S11-S2-NBR*AC)	11,307.65	406.70
40 23 51 00-0096	EA	8" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,8,6000A,F1,DI,DI-S11-S2-NBR*AC)	12,365.86	519.67
40 23 51 00-0097	EA	10" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,10,6000A,F1,DI,DI-S11-S2-NBR*AC)	16,017.98	632.64
40 23 51 00-0098	EA	12" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,12,6000A,F1,DI,DI-S11-S2-NBR*AC)	20,615.45	768.19
40 23 51 00-0099	EA	14" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,14,6000A,F1,DI,DI-S11-S2-NBR*AC)	35,280.58	1,092.38
40 23 51 00-0100	EA	16" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,16,6000,F1,DI,DI-S11-S2-NBR*AC)	48,950.87	1,201.62
40 23 51 00-0101	EA	18" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,18,6000,F1,DI,DI-S11-S2-NBR*AC)	53,115.32	1,332.70
40 23 51 00-0102	EA	20" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,20,6000,F1,DI,DI-S11-S2-NBR*AC)	51,711.97	1,502.02
40 23 51 00-0103	EA	24" Air Cushion Side Mounted Cylinder, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 303 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,24,6000,F1,DI,DI-S11-S2-NBR*AC)	63,905.14	1,843.39
40 23 51 00-0104		**Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valves** *(40 23 51)*		
40 23 51 00-0105	EA	2" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,2,250A,F1,DIF,DI-S1-S2-NBR*AC)	3,308.15	173.22
40 23 51 00-0106	EA	3" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,3,250A,F1,DIF,DI-S1-S2-NBR*AC)	3,552.63	221.19
40 23 51 00-0107	EA	4" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,4,250A,F1,DIF,DI-S1-S2-NBR*AC)	4,118.74	340.99
40 23 51 00-0108	EA	6" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,6,250A,F1,DIF,DI-S1-S2-NBR*AC)	4,640.50	406.70
40 23 51 00-0109	EA	8" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,8,250A,F1,DIF,DI-S1-S2-NBR*AC)	6,090.41	519.67
40 23 51 00-0110	EA	10" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,10,250A,F1,DIF,DI-S1-S2-NBR*AC)	8,358.24	632.64
40 23 51 00-0111	EA	12" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,12,250A,F1,DIF,DI-S1-S2-NBR*AC)	14,709.14	768.19
40 23 51 00-0112	EA	14" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,14,250A,F1,DIF,DI-S1-S2-NBR*AC)	17,146.39	1,092.38
40 23 51 00-0113	EA	16" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,16,250,F1,DIF,DI-S1-S1-NBR*AC)	21,620.37	1,201.62
40 23 51 00-0114	EA	18" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,18,250,F1,DIF,DI-S1-S1-NBR*AC)	31,889.54	1,332.70
40 23 51 00-0115	EA	20" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,20,250,F1,DIF,DI-S1-S1-NBR*AC)	35,792.63	1,502.02
40 23 51 00-0116	EA	24" Lever And Weight Operated, Flanged, ANSI Class 125/150, Ductile Iron Body, Ductile Iron Disc, 304 Stainless Steel Shaft, 316 Stainless Steel Body Seat, Acrylonitrile-Butadiene Seat, Swing Check Valve (DeZurik CVS,24,250,F1,DIF,DI-S1-S1-NBR*AC)	54,907.26	1,843.39
40 23 51 00-0117		**Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valves** *(40 23 51)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 23 51 00-0118	EA	2" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,2,HD,F1,S2,SMP,S2-M*MN-HD8-CS)	1,333.23	173.25
40 23 51 00-0119	EA	3" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,3,HD,F1,S2,SMP,S2-M*MN-HD8-CS)	1,503.88	221.19
40 23 51 00-0120	EA	4" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,4,HD,F1,S2,SMP,S2-M*MN-HD8-CS)	2,051.53	340.99
40 23 51 00-0121	EA	6" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,6,HD,F1,S2,SMP,S2-M*MN-HD12-CS)	2,438.97	406.70
40 23 51 00-0122	EA	8" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,8,HD,F1,S2,SMP,S2-M*MN-HD12-CS)	3,183.40	519.67
40 23 51 00-0123	EA	10" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,10,HD,F1,S2,SMP,S2-M*MN-HD16-CS)	4,620.66	632.64
40 23 51 00-0124	EA	12" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,12,BD,F1,S2,SMP,S2-CR*MN-HD16-CS)	6,172.69	768.19
40 23 51 00-0125	EA	14" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,14,BD,F1,S2,SMP,S2-CR*MN-HD20-S1)	8,840.65	1,092.38
40 23 51 00-0126	EA	16" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,16,BD,F1,S2,SMP,S2-CR*MN-HD20-S1)	10,915.19	1,201.62
40 23 51 00-0127	EA	18" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,18,BD,F1,S2,SMP,S2-CR*MN-HD20-S1)	15,047.35	1,332.70
40 23 51 00-0128	EA	20" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,20,BD,F1,S2,SMP,S2-CR*MN-HD20-S1)	18,119.87	1,502.02
40 23 51 00-0129	EA	24" Handwheel Operated, Flanged, ANSI 125/150 UNC Tapping For Threads, 316 Stainless Steel Body, PTFE Braided Packing, 316 Stainless Steel Gate, Metal Seat, Heavy-Duty, Knifegate Valve (DeZurik KGC,24,BD,F1,S2,SMP,S2-CR*MNB-HD24-S1)	27,221.46	1,843.39
40 23 51 00-0130		**Flanged, ANSI 150, 316 Stainless Steel, Acrylonitrile-Butadiene Seat, 316 Stainless Steel Disc, Single Body Sewage Combination Air Valves** *(40 23 51)*		
40 23 51 00-0131	EA	1" Flanged, ANSI 150, 316 Stainless Steel, Acrylonitrile-Butadiene Seat, 316 Stainless Steel Disc, Single Body Sewage Combination Air Valve (DeZurik ASU,1.2,SCAV,F1,S2,R516-NBR-S2-S2-S2*)	6,951.75	97.45
40 23 51 00-0132	EA	2" Flanged, ANSI 150, 316 Stainless Steel, Acrylonitrile-Butadiene Seat, 316 Stainless Steel Disc, Single Body Sewage Combination Air Valve (DeZurik ASU,2,SCAV,F1,S2,R516-NBR-S2-S2-S2*)	7,045.73	173.22
40 23 51 00-0133	EA	3" Flanged, ANSI 150, 316 Stainless Steel, Acrylonitrile-Butadiene Seat, 316 Stainless Steel Disc, Single Body Sewage Combination Air Valve (DeZurik ASU,3,SCAV,F1,S2,R516-NBR-S2-S2-S2*)	8,410.57	221.19
40 23 51 00-0134	EA	4" Flanged, ANSI 150, 316 Stainless Steel, Acrylonitrile-Butadiene Seat, 316 Stainless Steel Disc, Single Body Sewage Combination Air Valve (DeZurik ASU,4,SCAV,F1,S2,R516-NBR-S2-S2-S2*)	9,187.09	340.99
40 23 51 00-0135		**Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valves** *(40 23 51)*		
40 23 51 00-0136	EA	2" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,2,F1L,S3,TC,S3NH-S10-S3-FT*PR-R1A-PC4)	3,930.57	173.22
40 23 51 00-0137	EA	4" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,4,F1L,S3,TC,S3NH-S10-S3-FT*PR-R1A-PC4)	7,071.90	340.99
40 23 51 00-0138	EA	6" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,6,F1L,S3,TC,S3NH-S10-S3-FT*PR-R2A-PC6)	12,069.01	406.70
40 23 51 00-0139	EA	8" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,8,F1L,S3,TC,S3NH-S10-S3-FT*PR-R2A-PC6)	13,473.29	519.67
40 23 51 00-0140	EA	10" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,10,F1L,S3,TC,S3NH-S10-S3-FT*PR-R2A-PC8)	18,048.27	632.64
40 23 51 00-0141	EA	12" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,12,F1L,S3,TC,S3NH-S10-S3-FT*PR-R2A-PC8)	24,952.89	768.19
40 23 51 00-0142	EA	14" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,14,F1S,S3,TC,S3NH-S10-S3-FT*PR-R2A-PC8)	38,107.51	1,092.38
40 23 51 00-0143	EA	16" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,16,F1S,S3,TC,S3NH-S10-S3-FT*PR-R3A-PC10)	61,487.92	1,201.62
40 23 51 00-0144	EA	18" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,18,F1S,S3,TC,S3NH-S10-S3-FT*PR-R3A-PC10)	70,880.38	1,332.70
40 23 51 00-0145	EA	20" Double Acting Cylinder Operated, Flanged, ANSI Class 150, 317 Stainless Steel Body, 317 Stainless Steel Ball, Stainless Steel Shaft, 317 Stainless Steel Body Seat, PTFE Liner, V-Port Ball Valve (DeZurik VPB,20,F1S,S3,TC,S3NH-S10-S3-FT*PR-R3A-PC10)	89,508.21	1,502.02

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 23 51 00-0146		Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valves *(40 23 51)*		
40 23 51 00-0147	EA	2" Lever Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,2,L1,S2,TC,S2-S5A-FT-TT*LT)	1,655.68	173.22
40 23 51 00-0148	EA	2-1/2" Lever Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,2.5,L1,S2,TC,S2-S5A-FT-TT*LT)	1,814.35	188.42
40 23 51 00-0149	EA	4" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,4,L1,S2,TC,S2-S5A-FT-TT*MG-7-HD8)	2,730.80	340.99
40 23 51 00-0150	EA	4" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,4,L1,S2,TC,S2-S5A-FT-TT*MG-7-CW8)	3,126.15	340.99
40 23 51 00-0151	EA	6" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,6,L1,S2,TC,S2-S5A-FT-TT*MG-7-HD8)	3,790.48	406.70
40 23 51 00-0152	EA	6" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,6,L1,S2,TC,S2-S5A-FT-TT*MG-7-CW8)	4,224.19	406.70
40 23 51 00-0153	EA	8" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,8,L1,S2,TC,S2-S5A-FT-TT*MG-7-HD8)	4,728.68	519.67
40 23 51 00-0154	EA	8" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,8,L1,S2,TC,S2-S5A-FT-TT*MG-7-CW8)	5,237.28	519.67
40 23 51 00-0155	EA	10" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,10,L1,S2,TC,S2-S5A-FT-TT*MG-1012-HD8)	6,697.09	632.64
40 23 51 00-0156	EA	10" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,10,L1,S2,TC,S2-S5A-FT-TT*MG-1012-CW8)	7,250.81	632.64
40 23 51 00-0157	EA	12" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,12,L1,S2,TC,S2-S5A-FT-TT*MG-1012-HD8)	8,433.70	768.19
40 23 51 00-0158	EA	12" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,12,L1,S2,TC,S2-S5A-FT-TT*MG-1012-CW8)	8,987.41	768.19
40 23 51 00-0159	EA	14" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,14,L1,S2,TC,S2-S5A-FT-TT*MG-1012-HD8)	12,255.23	1,092.38
40 23 51 00-0160	EA	14" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,14,L1,S2,TC,S2-S5A-FT-TT*MG-1012-CW8)	12,808.94	1,092.38
40 23 51 00-0161	EA	16" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,16,L1,S2,TC,S2-S5A-FT-TT*MG-1216-HD16)	16,452.35	1,201.62
40 23 51 00-0162	EA	16" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,16,L1,S2,TC,S2-S5A-FT-TT*MG-1216-CW20)	18,021.21	1,201.62
40 23 51 00-0163	EA	18" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,18,L1,S2,TC,S2-S5A-FT-TT*MG-1216-HD24)	20,861.37	1,332.70
40 23 51 00-0164	EA	18" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,18,L1,S2,TC,S2-S5A-FT-TT*MG-1216-CW20)	22,430.23	1,332.70
40 23 51 00-0165	EA	20" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,20,L1,S2,TC,S2-S5A-FT-TT*MG-1216-HD24)	24,663.40	1,502.02
40 23 51 00-0166	EA	20" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,20,L1,S2,TC,S2-S5A-FT-TT*MG-16-CW30)	27,025.47	1,502.02
40 23 51 00-0167	EA	24" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,24,L1,S2,TC,S2-S5-FT-TT*GS-12-HD16)	42,505.41	1,843.39
40 23 51 00-0168	EA	24" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,24,L1,S2,TC,S2-S5-FT-TT*GS-12-CW20)	44,063.66	1,843.39
40 23 51 00-0169	EA	30" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,30,L1,S2,TC,S2-S5-FT-TT*GS-12-HD30)	66,552.35	2,914.35
40 23 51 00-0170	EA	30" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,30,L1,S2,TC,S2-S5-FT-TT*GS-12-CW30)	69,396.72	2,914.35
40 23 51 00-0171	EA	36" Handwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,36,L1,S2,TC,S2-S5-FT-TT*GS-12-HD30)	90,223.47	3,885.81
40 23 51 00-0172	EA	36" Chainwheel Operated, Flanged, PTFE Packing, 316 Stainless Steel Body, 316 Stainless Steel Disc, 17-4PH Stainless Steel Shaft, Air And General Service Butterfly Valve (DeZurik BHP,36,L1,S2,TC,S2-S5-FT-TT*GS-12-CW30)	91,561.72	3,885.81
40 23 51 00-0173		Plug, Bearings And Packing, Plug Valve Rebuild Kits *(40 23 51)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 23 51 00-0174	EA	2" Plug, Bearings And Packing, Plug Valve Rebuild Kit (DeZurik)	449.89	
40 23 51 00-0175	EA	4" Plug, Bearings And Packing, Plug Valve Rebuild Kit (DeZurik)	1,274.16	
40 23 51 00-0176	EA	6" Plug, Bearings And Packing, Plug Valve Rebuild Kit (DeZurik)	1,574.74	
40 23 51 00-0177	EA	8" Plug, Bearings And Packing, Plug Valve Rebuild Kit (DeZurik)	1,876.78	
40 23 51 00-0178	EA	10" Plug, Bearings And Packing, Plug Valve Rebuild Kit (DeZurik)	4,490.15	
40 23 51 00-0179	EA	12" Plug, Bearings And Packing, Plug Valve Rebuild Kit (DeZurik)	5,443.37	
40 23 51 00-0180	EA	14" Plug, Bearings And Packing, Plug Valve Rebuild Kit (DeZurik)	9,338.54	
40 23 51 00-0181	EA	16" Plug, Bearings And Packing, Plug Valve Rebuild Kit (DeZurik)	8,664.65	
40 23 51 00-0182		**Air Cushioned, Lever And Weight, 125 Lb. Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valves** *(40 23 51)*		
40 23 51 00-0183	EA	3" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	4,100.15	203.40
40 23 51 00-0184	EA	4" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	4,880.21	340.99
40 23 51 00-0185	EA	6" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	5,550.02	406.70
40 23 51 00-0186	EA	8" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	6,911.33	519.67
40 23 51 00-0187	EA	10" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	9,229.78	632.64
40 23 51 00-0188	EA	12" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	12,839.75	768.19
40 23 51 00-0189	EA	14" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	18,868.91	1,092.38
40 23 51 00-0190	EA	16" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	21,185.45	1,201.62
40 23 51 00-0191	EA	18" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	25,648.12	1,332.70
40 23 51 00-0192	EA	20" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	27,366.74	1,502.02
40 23 51 00-0193	EA	24" Air Cushioned, Lever And Weight, 125 LB Flanged, Cast Iron Body, 316 Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX250DS)	50,336.71	1,843.39
40 23 51 00-0194		**Lever And Weight, 125 Lb. Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valves** *(40 23 51)*		
40 23 51 00-0195	EA	3" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	2,880.98	203.40
40 23 51 00-0196	EA	4" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	3,605.42	340.99
40 23 51 00-0197	EA	6" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	4,190.35	406.70
40 23 51 00-0198	EA	8" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	5,769.21	519.67
40 23 51 00-0199	EA	10" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	7,978.89	632.64
40 23 51 00-0200	EA	12" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	10,439.94	768.19
40 23 51 00-0201	EA	14" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	17,821.97	1,092.38
40 23 51 00-0202	EA	16" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	20,090.92	1,201.62
40 23 51 00-0203	EA	18" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	24,143.43	1,332.70
40 23 51 00-0204	EA	20" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	25,764.60	1,502.02
40 23 51 00-0205	EA	24" Lever And Weight, 125 LB Flanged, Cast Iron Body, Stainless Steel Seat And Trim Swing Check Valve (GA Industries GAX220DS)	45,133.72	1,843.39
40 23 51 00-0206		**125 Lb. Flanged, Cast Iron Body, Stainless Steel Seat, Sewage Surge Relief Valves** *(40 23 51)*		
40 23 51 00-0207	EA	3" 125 LB Flanged, Cast Iron Body, Stainless Steel Seat, Sewage Surge Relief Valve (GA Industries GAX625DX)	9,985.24	203.40
40 23 51 00-0208	EA	4" 125 LB Flanged, Cast Iron Body, Stainless Steel Seat, Sewage Surge Relief Valve (GA Industries GAX625DX)	10,411.78	340.99
40 23 51 00-0209	EA	6" 125 LB Flanged, Cast Iron Body, Stainless Steel Seat, Sewage Surge Relief Valve (GA Industries GAX625DX)	13,621.90	406.70
40 23 51 00-0210	EA	8" 125 LB Flanged, Cast Iron Body, Stainless Steel Seat, Sewage Surge Relief Valve (GA Industries GAX625DX)	15,934.98	519.67
40 23 51 00-0211	EA	10" 125 LB Flanged, Cast Iron Body, Stainless Steel Seat, Sewage Surge Relief Valve (GA Industries GAX625DX)	23,134.63	632.64
40 23 51 00-0212	EA	12" 125 LB Flanged, Cast Iron Body, Stainless Steel Seat, Sewage Surge Relief Valve (GA Industries GAX625DX)	28,781.84	768.19
40 23 51 00-0213		**Cast Iron Body, 316 Stainless Steel Internals, Sewage Combination Air Release And Air Vacuum Valves** *(40 23 51)*		
40 23 51 00-0214	EA	3" Cast Iron Body, 316 Stainless Steel Internals, Sewage Combination Air Release And Air Vacuum Valve (GA Industries GAX942FT)	2,420.80	203.40
40 23 51 00-0215	EA	4" Cast Iron Body, 316 Stainless Steel Internals, Sewage Combination Air Release And Air Vacuum Valve (GA Industries GAX942FT)	2,834.65	340.99

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 23 51 00-0216	EA	6" Cast Iron Body, 316 Stainless Steel Internals, Sewage Combination Air Release And Air Vacuum Valve (GA Industries GAX942FT)	4,359.28	406.70
40 23 51 00-0217	EA	8" Cast Iron Body, 316 Stainless Steel Internals, Sewage Combination Air Release And Air Vacuum Valve (GA Industries GAX942FT)	4,832.82	519.67
40 23 51 00-0218	EA	10" Cast Iron Body, 316 Stainless Steel Internals, Sewage Combination Air Release And Air Vacuum Valve (GA Industries GAX942FT)	5,801.28	632.64
40 23 51 00-0219	EA	12" Cast Iron Body, 316 Stainless Steel Internals, Sewage Combination Air Release And Air Vacuum Valve (GA Industries GAX942FT)	8,309.64	768.19

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

41 Material Processing and Handling Equipment

41 01 Operation and Maintenance of Material Processing and Handling Equipment *(41)*

41 01 20 Operation and Maintenance of Piece Material Handling Equipment *(41 01)*

41 01 20 13 Operation And Maintenance Of Hoists Or Cranes *(41 01 20)*

41 01 20 13-0001 Maintenance *(41 01 20 13)*

41 01 20 13-0002	EA	Regular Inspection	444.28	
41 01 20 13-0003	HR	Hoist Or Crane Servicing, Labor Only	133.60	
41 01 20 13-0004	MO	Hoist Or Crane Maintenance Contract	1,072.42	

41 10 Bulk Material Processing Equipment *(41)*

41 12 Bulk Material Conveying Equipment *(41 10)*

41 12 13 Bulk Material Conveyors *(41 12)*

41 12 13 19 Belt Bulk Material Conveyors *(41 12 13)*

41 12 13 19-0001 Belt Bulk Material Conveyors And Accessories (Serpentix) *(41 12 13 19)*

41 12 13 19-0002	EA	4', 10 HP, 230/460 Volt, 3 Phase, 60 Hertz, Drive Station Unit For Model-H Conveyor	69,679.55	1,878.18
41 12 13 19-0003	EA	10', 1/4" Thick, Hi-Profile Straight Track For Model-H Conveyor	16,331.14	440.20
41 12 13 19-0004	EA	Hi-Profile Vertical Curve For Model-H Conveyor	20,686.12	557.58
41 12 13 19-0005	EA	Hi-Profile Horizontal Curve For Model-H Conveyor	22,863.61	616.27
41 12 13 19-0006	EA	Hi-Profile Helix Curve For Model-H Conveyor	27,218.58	733.66
41 12 13 19-0007	EA	4', 20 Amperes, 125/250/480 Volt AC, Single Pole, Double Throw Circuit, Tension Station Unit For Model-H Conveyor	40,827.87	1,100.50
41 12 13 19-0008	EA	10' Section Support Tower For Model-H Conveyor	10,887.43	293.47
41 12 13 19-0009	PR	Support Legs For Model-H Conveyor	1,615.01	34.96
41 12 13 19-0010	PR	Tension Station Support legs For Model-H Conveyor	2,153.34	46.62
41 12 13 19-0011	LF	32" Wide Conveyor Belt And Chain For Model-H	3,230.01	69.93
41 12 13 19-0012	DAY	Field Testing/Field Services/Operation And Maintainence Training	15,450.75	
		For Each Additional Day Onsite, Add	*4,635.22*	

41 20 Piece Material Handling Equipment *(41)*

41 22 Cranes and Hoists *(41 20)*

41 22 23 Hoists *(41 22)*

41 22 23 13 Fixed Hoists *(41 22 23)*

41 22 23 13-0001 Air-Powered Chain Hoists *(41 22 23 13)*
Note: Excludes beam.

41 22 23 13-0002	EA	500 Lb. Capacity, Air-Powered Chain Hoist	8,172.28	457.35
41 22 23 13-0003	EA	1,000 Lb. Capacity, Air-Powered Chain Hoist	8,267.68	457.35
41 22 23 13-0004	EA	2,000 Lb. Capacity, Air-Powered Chain Hoist	9,967.71	457.35
41 22 23 13-0005	EA	4,000 Lb. Capacity, Air-Powered Chain Hoist	12,590.98	609.80
41 22 23 13-0006	EA	6,000 LB Capacity, Air-Powered Chain Hoist	15,889.37	762.25
41 22 23 13-0007	EA	8,000 LB Capacity, Air-Powered Chain Hoist	18,708.96	1,120.20
41 22 23 13-0008	EA	10,000 LB Capacity, Air-Powered Chain Hoist	21,597.76	1,352.99
41 22 23 13-0009	EA	12,000 LB Capacity, Air-Powered Chain Hoist	22,032.99	1,352.99

41 22 23 13-0010 Electric Hoists *(41 22 23 13)*

41 22 23 13-0011 Electric Industrial Chain Hoists *(41 22 23 13-0010)*
Note: Includes 20' of chain. Excludes beams.

41 22 23 13-0012	EA	500 LB Capacity, Electric Industrial Chain Hoist	3,597.90	442.10
		For DC Electrical Operated, Add	*677.75*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0013	EA	1,000 LB Capacity, Electric Industrial Chain Hoist	3,746.77	442.10
		For DC Electrical Operated, Add	*714.37*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0014	EA	2,000 LB Capacity, Electric Industrial Chain Hoist	4,123.57	442.10
		For DC Electrical Operated, Add	*804.93*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0015	EA	3,000 LB Capacity, Electric Industrial Chain Hoist	6,119.78	457.35
		For DC Electrical Operated, Add	*1,294.32*	
		For Each LF Copper Conductor Bar, Add	*10.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
41 22 23 13-0016	EA	4,000 LB Capacity, Electric Industrial Chain Hoist	5,306.39	457.35
		For DC Electrical Operated, Add	*1,088.26*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0017	EA	5,000 LB Capacity, Electric Industrial Chain Hoist	7,504.66	472.60
		For DC Electrical Operated, Add	*1,625.55*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0018	EA	6,000 LB Capacity, Electric Industrial Chain Hoist	6,847.83	518.33
		For DC Electrical Operated, Add	*1,418.68*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0019	EA	7,500 LB Capacity, Electric Industrial Chain Hoist	8,411.88	640.29
		For DC Electrical Operated, Add	*1,802.23*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0020	EA	10,000 LB Capacity, Electric Industrial Chain Hoist	9,874.72	653.18
		For DC Electrical Operated, Add	*2,186.18*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0021	EA	15,000 LB Capacity, Electric Industrial Chain Hoist	15,799.87	681.58
		For DC Electrical Operated, Add	*3,608.88*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0022	EA	20,000 LB Capacity, Electric Industrial Chain Hoist	18,888.64	709.98
		For DC Electrical Operated, Add	*4,366.32*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0023	EA	25,000 LB Capacity, Electric Industrial Chain Hoist	26,040.68	738.38
		For DC Electrical Operated, Add	*6,139.16*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0024	EA	30,000 LB Capacity, Electric Industrial Chain Hoist	33,276.37	809.38
		For DC Electrical Operated, Add	*7,912.41*	
		For Each LF Copper Conductor Bar, Add	*10.50*	

41 22 23 13-0025 Hand Chain Hoists *(41 22 23 13)*

41 22 23 13-0026	EA	1,000 LB Capacity, Hand Chain Hoist	1,951.86	186.74
41 22 23 13-0027	EA	2,000 LB Capacity, Hand Chain Hoist	2,294.96	189.30
41 22 23 13-0028	EA	3,000 LB Capacity, Hand Chain Hoist	3,072.30	198.26
41 22 23 13-0029	EA	4,000 LB Capacity, Hand Chain Hoist	3,454.64	200.81
41 22 23 13-0030	EA	5,000 LB Capacity, Hand Chain Hoist	4,164.31	211.05
41 22 23 13-0031	EA	6,000 LB Capacity, Hand Chain Hoist	4,665.25	246.85
41 22 23 13-0032	EA	10,000 LB Capacity, Hand Chain Hoist	6,455.25	254.53
41 22 23 13-0033	EA	16,000 LB Capacity, Hand Chain Hoist	8,425.84	306.97
41 22 23 13-0034	EA	20,000 LB Capacity, Hand Chain Hoist	10,283.46	321.04
41 22 23 13-0035	EA	30,000 LB Capacity, Hand Chain Hoist	18,093.46	367.09

END OF SECTION 41

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 10 Gas Handling Equipment *(43)*

43 11 Gas Fans, Blowers, Pumps And Boosters *(43 10)*

43 11 43 Gas-handling Vacuum Pumps *(43 11)*

43 11 43 00-0001 Vacuum Pumps *(43 11 43)*

43 11 43 00-0002	EA	20 SCFM, Duplex Vacuum Pump	5,435.82	806.17
43 11 43 00-0003	EA	60 SCFM, 10 HP Vacuum Pump	8,161.72	1,299.41
43 11 43 00-0004	EA	180 SCFM, Triplex Vacuum Pump	9,734.90	1,612.36
43 11 43 00-0005	EA	Vacuum Pressure Pump, Millipore #XX5500000 Or Equal, 115 Volt, 60 Hertz	1,840.31	597.99

43 20 Liquid Handling Equipment *(43)*

43 23 Dry Location Liquid Pumps *(43 20)*

43 23 57 Progressing Cavity Pumps *(43 23)*

43 23 57 00-0001 Progressive Cavity Pumps *(43 23 57)*

43 23 57 00-0002 Progressive Cavity Pumps (Seepex N Series) *(43 23 57 00-0001)*

Note: Includes CI housing, tool steel rotor, Nitrile stator, single mech. seal, WP motors (TEXP) base plates, couplings, and OSHA guards.

43 23 57 00-0003	EA	3 HP, 50 GPM, Progressive Cavity Pumps, 5" x 4" ANSI Flange (Seepex Model 35-6L)	12,067.50	255.47
43 23 57 00-0004	EA	5 HP, 50 GPM, Progressive Cavity Pumps, 6" x 5" ANSI Flange (Seepex Model 35-12)	16,900.35	255.47
43 23 57 00-0005	EA	7.5 HP, 100 GPM, Progressive Cavity Pumps, 5" x 5" ANSI Flange (Seepex Model 52-6L)	14,373.73	255.47
43 23 57 00-0006	EA	10 HP, 100 GPM, Progressive Cavity Pumps, 6" x 6" ANSI Flange (Seepex Model 52-12)	22,111.56	255.47
43 23 57 00-0007	EA	10 HP, 150 GPM, Progressive Cavity Pumps, 6" x 6" ANSI Flange (Seepex Model 70-6L)	18,458.01	255.47
43 23 57 00-0008	EA	15 HP, 150 GPM, Progressive Cavity Pumps, 8" x 6" ANSI Flange (Seepex Model 70-12)	33,583.64	255.47
43 23 57 00-0009	EA	7.5 HP, 150 GPM, Progressive Cavity Pumps, 6" x 6" ANSI Flange (Seepex Model 100-6L)	21,684.46	255.47
43 23 57 00-0010	EA	15HP, 250 GPM, Progressive Cavity Pumps, 8" x 6" ANSI Flange (Seepex Model 130-6L)	32,252.04	255.47
43 23 57 00-0011	EA	20 HP, 350 GPM, Progressive Cavity Pumps, 8" x 6" ANSI Flange (Seepex Model 200-6L)	42,161.47	383.20

43 23 57 00-0012 Progressive Cavity Pumps (Monoflo) *(43 23 57 00-0001)*

Note: Monoflo Progressive Cavity Pumps BARESHAFT: E range heavy-duty, 316 SST HCP rotor and shaft, Stator either Nitrile or natural rubber, Power Drive Shaft, gland packing or John Crane502 mechanical seal.

43 23 57 00-0013	EA	Model E01 Monoflo 2 Stage Progressive Cavity Pumps	3,912.39	129.99
		For High Nitrile Stator, Add	*20.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*42.00*	
		For Rotor Coating, Duracoat 3000, Add	*721.00*	
43 23 57 00-0014	EA	Model E01 Monoflo 4 Stage Progressive Cavity Pumps	4,465.99	129.99
		For High Nitrile Stator, Add	*34.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*71.00*	
		For Rotor Coating, Duracoat 3000, Add	*747.00*	
43 23 57 00-0015	EA	Model E02 Monoflo 1 Stage Progressive Cavity Pumps	4,098.68	129.99
		For High Nitrile Stator, Add	*12.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*45.00*	
		For Rotor Coating, Duracoat 3000, Add	*767.00*	
43 23 57 00-0016	EA	Model E02 Monoflo 2 Stage Progressive Cavity Pumps	4,403.03	129.99
		For High Nitrile Stator, Add	*24.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*55.00*	
		For Rotor Coating, Duracoat 3000, Add	*836.00*	
43 23 57 00-0017	EA	Model E02 Monoflo 4 Stage Progressive Cavity Pumps	5,691.26	129.99
		For High Nitrile Stator, Add	*47.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*72.00*	
		For Rotor Coating, Duracoat 3000, Add	*850.00*	
43 23 57 00-0018	EA	Model E03 Monoflo 1 Stage Progressive Cavity Pumps	4,788.46	191.60
		For High Nitrile Stator, Add	*14.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*50.00*	
		For Rotor Coating, Duracoat 3000, Add	*822.00*	
43 23 57 00-0019	EA	Model E03 Monoflo 2 Stage Progressive Cavity Pumps	5,570.32	191.60
		For High Nitrile Stator, Add	*30.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*59.00*	
		For Rotor Coating, Duracoat 3000, Add	*906.00*	
43 23 57 00-0020	EA	Model E03 Monoflo 4 Stage Progressive Cavity Pumps	10,308.73	191.60
		For High Nitrile Stator, Add	*59.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*80.00*	
		For Rotor Coating, Duracoat 3000, Add	*917.00*	
43 23 57 00-0021	EA	Model E0X Monoflo 1 Stage Progressive Cavity Pumps	6,688.91	255.47
		For High Nitrile Stator, Add	*17.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*54.00*	
		For Rotor Coating, Duracoat 3000, Add	*965.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
43 23 57 00-0022	EA	Model E0X Monoflo 2 Stage Progressive Cavity Pumps	7,712.16	255.47
		For High Nitrile Stator, Add	*36.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*72.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,162.00*	
43 23 57 00-0023	EA	Model E0X Monoflo 4 Stage Progressive Cavity Pumps	10,842.23	255.47
		For High Nitrile Stator, Add	*70.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*107.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,170.00*	
43 23 57 00-0024	EA	Model E04 Monoflo 1 Stage Progressive Cavity Pumps	7,079.84	255.47
		For High Nitrile Stator, Add	*20.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*71.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,170.00*	
43 23 57 00-0025	EA	Model E04 Monoflo 2 Stage Progressive Cavity Pumps	8,260.51	255.47
		For High Nitrile Stator, Add	*41.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*90.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,417.00*	
43 23 57 00-0026	EA	Model E04 Monoflo 4 Stage Progressive Cavity Pumps	14,638.72	255.47
		For High Nitrile Stator, Add	*80.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*103.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,433.00*	
43 23 57 00-0027	EA	Model E05 Monoflo 1 Stage Progressive Cavity Pumps	8,976.91	383.20
		For High Nitrile Stator, Add	*30.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*100.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,380.00*	
43 23 57 00-0028	EA	Model E05 Monoflo 2 Stage Progressive Cavity Pumps	11,039.14	383.20
		For High Nitrile Stator, Add	*47.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*118.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,673.00*	
43 23 57 00-0029	EA	Model E05 Monoflo 4 Stage Progressive Cavity Pumps	19,306.42	383.20
		For High Nitrile Stator, Add	*92.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*142.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,803.00*	
43 23 57 00-0030	EA	Model E06 Monoflo 1 Stage Progressive Cavity Pumps	10,144.45	383.20
		For High Nitrile Stator, Add	*40.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*121.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,459.00*	
43 23 57 00-0031	EA	Model E06 Monoflo 2 Stage Progressive Cavity Pumps	14,163.96	383.20
		For High Nitrile Stator, Add	*56.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*171.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,867.00*	
43 23 57 00-0032	EA	Model E06 Monoflo 4 Stage Progressive Cavity Pumps	26,372.04	383.20
		For Rotor Coating, Duracoat 3000, Add	*1,885.00*	
43 23 57 00-0033	EA	Model E07 Monoflo 1 Stage Progressive Cavity Pumps	15,337.73	510.93
		For High Nitrile Stator, Add	*46.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*147.00*	
		For Rotor Coating, Duracoat 3000, Add	*1,635.00*	
43 23 57 00-0034	EA	Model E07 Monoflo 2 Stage Progressive Cavity Pumps	18,719.68	510.93
		For High Nitrile Stator, Add	*75.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*174.00*	
		For Rotor Coating, Duracoat 3000, Add	*2,252.00*	
43 23 57 00-0035	EA	Model E07 Monoflo 4 Stage Progressive Cavity Pumps	34,099.81	510.93
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*255.00*	
		For Rotor Coating, Duracoat 3000, Add	*2,266.00*	
43 23 57 00-0036	EA	Model E08 Monoflo 1 Stage Progressive Cavity Pumps	17,170.03	766.40
		For High Nitrile Stator, Add	*57.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*154.00*	
		For Rotor Coating, Duracoat 3000, Add	*2,069.00*	
43 23 57 00-0037	EA	Model E08 Monoflo 2 Stage Progressive Cavity Pumps	22,239.02	766.40
		For High Nitrile Stator, Add	*94.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*179.00*	
		For Rotor Coating, Duracoat 3000, Add	*2,915.00*	
43 23 57 00-0038	EA	Model E08 Monoflo 4 Stage Progressive Cavity Pumps	39,256.34	766.40
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*262.00*	
		For Rotor Coating, Duracoat 3000, Add	*2,936.00*	
43 23 57 00-0039	EA	Model E09 Monoflo 1 Stage Progressive Cavity Pumps	22,210.16	766.40
		For High Nitrile Stator, Add	*81.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*129.00*	
43 23 57 00-0040	EA	Model E09 Monoflo 2 Stage Progressive Cavity Pumps	30,225.56	766.40
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*262.00*	
		For Rotor Coating, Duracoat 3000, Add	*3,502.00*	
43 23 57 00-0041	EA	Model E10 Monoflo 1 Stage Progressive Cavity Pumps	27,469.99	1,021.85
		For High Nitrile Stator, Add	*106.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*358.00*	
		For Rotor Coating, Duracoat 3000, Add	*2,855.00*	
43 23 57 00-0042	EA	Model E10 Monoflo 2 Stage Progressive Cavity Pumps	37,917.56	1,021.85
		For High Nitrile Stator, Add	*162.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*499.00*	
		For Rotor Coating, Duracoat 3000, Add	*3,581.00*	
43 23 57 00-0043	EA	Model E10 Monoflo 4 Stage Progressive Cavity Pumps	82,785.45	1,021.85
		For Rotor Coating, Duracoat 3000, Add	*4,329.00*	
43 23 57 00-0044	EA	Model E12 Monoflo 1 Stage Progressive Cavity Pumps	42,990.13	1,149.58
		For Ethylene Propylene Diene Monomer (EPDM) Lined Stator, Add	*522.00*	
		For Rotor Coating, Duracoat 3000, Add	*3,312.00*	
43 23 57 00-0045	EA	Model E12 Monoflo 2 Stage Progressive Cavity Pumps	61,812.56	1,149.58
		For Rotor Coating, Duracoat 3000, Add	*5,284.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
43 23 57 00-0046	EA	Model E15 Monoflo 1 Stage Progressive Cavity Pumps	65,835.65	1,277.32
		For Rotor Coating, Duracoat 3000, Add	*4,400.00*	
43 23 57 00-0047	EA	Model E15 Monoflo 2 Stage Progressive Cavity Pumps	153,089.42	1,277.32
43 23 57 00-0048	EA	Model E16 Monoflo 1 Stage Progressive Cavity Pumps	87,220.75	2,043.71
43 23 57 00-0049	EA	Model E20 Monoflo 1 Stage Progressive Cavity Pumps	171,593.00	2,043.71

43 23 78 Controlled Volume Horizontal Reciprocating Pumps *(43 23)*

43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps *(43 23 78)*

43 23 78 31-0001 Diaphragm Pump *(43 23 78 31)*

43 23 78 31-0002	EA	28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI	5,106.77	

43 24 Suspended Liquid Pumps *(43 20)*

43 24 41 Archimedes Screw Pumps *(43 24)*

43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps *(43 24 41)*

43 24 41 23-0001 Positive Displacement Pump *(43 24 41 23)*

43 24 41 23-0002	EA	25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing	4,200.40	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

44 Pollution and Waste Control Equipment

44 30 Odor Control *(44)*

44 32 Odor Dispersing and Masking/Counteracting Equipment *(44 30)*

44 32 23 Odor Masking/Counteracting Equipment *(44 32)*

44 32 23 00-0001 Air Purification Systems (Carbtrol) *(44 32 23)*

44 32 23 00-0002	EA	90 CFM, 1/3 HP, Coconut Shell Carbon, Cord And Plug, 2-1/2" Suction Hose, Carbon Absorber For Odor Control (Carbtrol G-1BP90)	7,406.45	149.56
44 32 23 00-0003	EA	175 CFM, 1/3 HP, Coconut Shell Carbon, Cord And Plug, 4-5/8" Suction Hose, Carbon Absorber For Odor Control (Carbtrol G-2B175)	7,713.50	179.47
44 32 23 00-0004	EA	275 CFM, 1/2 HP, Coconut Shell Carbon, Manual Motor, 4-5/8" Suction Hose, Carbon Absorber For Odor Control (Carbtrol G-2B275)	9,400.80	209.38
44 32 23 00-0005	EA	450 CFM, 3/4 HP, Coconut Shell Carbon, Manual Motor, 4-5/8" Suction Hose, Carbon Absorber For Odor Control (Carbtrol G-3B450)	10,367.06	239.29
44 32 23 00-0006	EA	90 CFM, 1/3 HP, CAT 2 Carbon, Cord And Plug, 2-1/2" Suction Hose, Carbon Absorber For Odor Control (Carbtrol GC2-1B90)	8,075.99	149.56
44 32 23 00-0007	EA	175 CFM, 1/3 HP, CAT 2 Carbon, Cord And Plug, 4-5/8" Suction Hose, Carbon Absorber For Odor Control (Carbtrol GC2-2B175)	8,434.53	179.47
44 32 23 00-0008	EA	275 CFM, 1/2 HP, CAT 2 Carbon, Manual Motor, 4-5/8" Suction Hose, Carbon Absorber For Odor Control (Carbtrol GC2-2B275)	10,121.83	209.38
44 32 23 00-0009	EA	450 CFM, 3/4 HP, CAT 2 Carbon, Manual Motor, 4-5/8" Suction Hose, Carbon Absorber For Odor Control (Carbtrol GC2-3B450)	11,088.10	239.29

44 32 23 00-0010 Odor Control Systems (Carbtrol) *(44 32 23)*

44 32 23 00-0011	EA	225 CFM, 3/4 HP, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol G20)	45,522.82	195.02
44 32 23 00-0012	EA	500 CFM, 1 HP, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorder, Odor Control System (Carbtrol G21)	53,933.87	248.86
44 32 23 00-0013	EA	900 CFM, 3 HP, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorder, Odor Control System (Carbtrol G22)	61,845.34	299.11
44 32 23 00-0014	EA	1400 CFM, 3 HP, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorder, Odor Control System (Carbtrol G23)	73,377.49	329.03
44 32 23 00-0015	EA	2000 CFM, 5 HP, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorder, Odor Control System (Carbtrol G24)	86,913.39	358.94
44 32 23 00-0016	EA	225 CFM, CAT, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol GC2-20)	46,376.76	195.02
44 32 23 00-0017	EA	500 CFM, CAT, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol GC2-21)	55,647.71	248.86
44 32 23 00-0018	EA	900 CFM, CAT, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol GC2-22)	64,883.77	299.11
44 32 23 00-0019	EA	1400 CFM, CAT, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol GC2-23)	77,954.99	329.03
44 32 23 00-0020	EA	2000 CFM, CAT, NEMA 4X Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol GC2-24)	93,764.74	358.94
44 32 23 00-0021	EA	225 CFM, NEMA 7 Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol G20)	48,303.08	195.02
44 32 23 00-0022	EA	500 CFM, NEMA 7 Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol G21)	58,104.26	248.86
44 32 23 00-0023	EA	900 CFM, NEMA 7 Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol G22)	67,207.27	299.11
44 32 23 00-0024	EA	1,400 CFM, NEMA 7 Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol G23)	79,533.78	329.03
44 32 23 00-0025	EA	2,000 CFM, NEMA 7 Control Panel, XP Fan/Motor, Skid Mounted Carbon Absorber, Odor Control System (Carbtrol G24)	94,261.22	358.94

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CSI	UOM	DESCRIPTION	MINOR	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

46 Water And Wastewater Equipment

46 20 Water and Wastewater Preliminary Treatment Equipment *(46)*

46 21 Screening Equipment *(46 20)*

46 21 56 Wedge Wire Screens *(46 21)*

46 21 56 00-0001 Wastewater Stationary Screening *(46 21 56)*

46 21 56 00-0002	EA	145 Lb., SV1.5S, 90 GPM, Wastewater Stationary Screen		16,444.58	827.33
46 21 56 00-0003	EA	190 Lb., SV2S, 180 GPM, Wastewater Stationary Screen		22,230.95	827.33
46 21 56 00-0004	EA	740 Lb., SV3S, 280 GPM, Wastewater Stationary Screen		26,313.55	1,034.15
46 21 56 00-0005	EA	980 Lb., SV4S, 400 GPM, Wastewater Stationary Screen		33,965.26	1,034.15
46 21 56 00-0006	EA	1,300 Lb., SV6S, 600 GPM, Wastewater Stationary Screen		45,461.86	1,034.15
46 21 56 00-0007	EA	2,450 Lb., SV6S BB, 1,200 GPM, Wastewater Stationary Screen		81,893.12	1,034.15
46 21 56 00-0008	EA	1,700 Lb., SV8S, 800 GPM, Wastewater Stationary Screen		58,337.31	2,068.31
46 21 56 00-0009	EA	3,300 Lb., SV8S BB, 1,600 GPM, Wastewater Stationary Screen		98,594.43	2,068.31
46 21 56 00-0010	EA	2,300 Lb., SV10S, 1,000 GPM, Wastewater Stationary Screen		69,852.94	2,068.31
46 21 56 00-0011	EA	4,200 Lb., SV10S BB, 2,000 GPM, Wastewater Stationary Screen		125,432.51	2,068.31

46 24 Grinding and Shredding Equipment *(46 20)*

46 24 16 Comminutors *(46 24)*

46 24 16 00-0001 Comminutors *(46 24 16)*

46 24 16 00-0002	EA	Comminutors, Model A-5, 5" Diameter, 1/2 HP, 35 RPM, 164		6,591.60	2,481.97
46 24 16 00-0003	EA	Comminutors, Model A-8, 8" Diameter, 1/2 HP, 35 RPM, 360 GPM		8,724.85	3,309.29
46 24 16 00-0004	EA	Comminutors, Model A-12, 12" Diameter, 3/4 HP, 15 RPM, 1020 GPM		16,039.23	4,963.94

46 25 Oil and Grease Separation and Removal Equipment *(46)*

46 25 47 Floating Scum Skimming and Removal Equipment *(46 25)*

46 25 47 00-0001 Skimming Devices and Accessories (EIMCO) *(46 25 47)*
Note: Material Only - excludes installation

46 25 47 00-0002	EA	3', Stainless Steel, Skimming Device (EIMCO L42700-2)		4,325.29	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*8,780.34*	
46 25 47 00-0003	EA	4', Stainless Steel, Skimming Device (EIMCO L42700-3)		4,784.03	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*9,711.58*	
46 25 47 00-0004	EA	5', Stainless Steel, Skimming Device (EIMCO L42700-4)		5,373.85	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*10,908.92*	
46 25 47 00-0005	EA	6', Stainless Steel, Skimming Device (EIMCO L42700-5)		5,657.83	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*11,485.39*	
46 25 47 00-0006	EA	25,000 ft-lb Torque Rating, Cast Iron Base/Gear, Stainless Steel Oil Piping, NEMA 4X Control Panel, 30" Drive Unit (EIMCO L115100-1)		73,180.42	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*148,556.25*	
46 25 47 00-0007	EA	80,000 ft-lb Torque Rating, Cast Iron Base/Gear, Stainless Steel Oil Piping, NEMA 4X Control Panel, 40" Drive Unit (EIMCO L115342)		84,102.86	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*170,728.81*	
46 25 47 00-0008	EA	Skimming Device Clevis With Bushing (EIMCO 89081A1A)		502.43	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*1,019.93*	
46 25 47 00-0009	EA	Type 'S' Skimmer Arm (EIMCO 48080A1A)		238.11	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*483.36*	
46 25 47 00-0010	EA	Side Wiper Skimmer (EIMCO 81602A)		26.21	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*53.21*	
46 25 47 00-0011	EA	Side Clamp (EIMCO 81598A)		8.74	
		For 4" x 4" Guide Shoe, Add		*897.00*	
		For Ceramic Coating, Add		*413.00*	
		For Moisture Sensor, Add		*17.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 25 47 00-0012	EA	Hinged Skimmer (EIMCO 88188A)	447.82	
		For 4" x 4" Guide Shoe, Add	*897.00*	
		For Ceramic Coating, Add	*413.00*	
		For Moisture Sensor, Add	*909.07*	
46 25 47 00-0013	EA	Skimming Device Collar (EIMCO 88011C1A)	264.32	
		For 4" x 4" Guide Shoe, Add	*897.00*	
		For Ceramic Coating, Add	*413.00*	
		For Moisture Sensor, Add	*536.57*	
46 25 47 00-0014	EA	Wear Block, Skimmer (EIMCO 1141036-01)	131.07	
		For 4" x 4" Guide Shoe, Add	*897.00*	
		For Ceramic Coating, Add	*413.00*	
		For Moisture Sensor, Add	*266.07*	
46 25 47 00-0015	EA	Stainless Steel Skimming Device Spring (EIMCO 85606A)	91.75	
		For 4" x 4" Guide Shoe, Add	*897.00*	
		For Ceramic Coating, Add	*413.00*	
		For Moisture Sensor, Add	*186.25*	
46 25 47 00-0016	EA	Drive Control (EIMCO L115759-1)	3,233.05	
		For 4" x 4" Guide Shoe, Add	*897.00*	
		For Ceramic Coating, Add	*413.00*	
		For Moisture Sensor, Add	*6,563.09*	
46 25 47 00-0017	EA	Actuating Pin (EIMCO 48806A)	52.43	
		For 4" x 4" Guide Shoe, Add	*897.00*	
		For Ceramic Coating, Add	*413.00*	
		For Moisture Sensor, Add	*106.43*	

46 30 Water and Wastewater Chemical Feed Equipment *(46)*

46 31 Gas Chemical Feed Equipment *(46 30)*

46 31 11 Chlorine Gas Feed Equipment *(46 31)*

46 31 11 00-0001 Wastewater Chlorinators, Gas Type *(46 31 11)*

46 31 11 00-0002	EA	Direct Cylinder Mounted Type, Model #201, 100 PPD Gas Chlorinator	3,161.42	827.33
46 31 11 00-0003	EA	Wall Or Direct Cylinder Mounted Type, Model 202, 200 PPD Gas Chlorinator	3,368.17	827.33
46 31 11 00-0004	EA	Wall Or Direct Cylinder Mounted Type, Model 203, 500 PPD Gas Chlorinator	4,201.54	827.33
46 31 11 00-0005	EA	Booster Pump, 20 Thru 500 PPD System	1,102.74	413.66

46 31 11 00-0006 High Capacity Chlorinators, Series 4000 Model *(46 31 11)*

46 31 11 00-0007	EA	Single Cylinder, Floor Cabinet, 40X1C, 100 PPD	6,571.60	1,654.65
46 31 11 00-0008	EA	Single Cylinder, Floor Cabinet, 40X2C, 200 PPD	6,820.97	1,654.65
46 31 11 00-0009	EA	Single Cylinder, Floor Cabinet, 40X3C, 500 PPD	8,016.67	1,654.65
46 31 11 00-0010	EA	Single Cylinder, Floor Cabinet, 40X4C, 2000 PPD	10,845.83	2,481.97
46 31 11 00-0011	EA	Single Cylinder, Floor Cabinet 40X5C, 8000 PPD	12,696.93	2,481.97
46 31 11 00-0012	EA	Single Cylinder, Floor Cabinet, 40X6C, 10000 PPD	13,643.27	2,481.97
46 31 11 00-0013	EA	Dual Cylinder, Wall Cabinet, 40X1C, 100 PPD	5,224.57	1,654.65
46 31 11 00-0014	EA	Dual Cylinder, Wall Cabinet, 40X2C, 200 PPD	5,532.55	1,654.65
46 31 11 00-0015	EA	Dual Cylinder, Wall Cabinet, 40X3C, 500 PPD	6,461.83	1,654.65
46 31 11 00-0016	EA	Dual Cylinder, Wall Cabinet 40X4C, 2000 PPD	9,320.83	2,481.97
46 31 11 00-0017	EA	Dual Cylinder, Wall Cabinet, 41X5C, 8000 PPD	11,246.53	2,481.97

46 31 11 00-0018 High Capacity Chlorinators, Add-Ons *(46 31 11)*

46 31 11 00-0019	EA	Add For Flow Proportioning	2,632.25	
46 31 11 00-0020	EA	Add For Residual Control	9,303.47	
46 31 11 00-0021	EA	Add For Compound Loop	9,303.47	
46 31 11 00-0022	EA	Add For Gas Detectors	1,631.57	
46 31 11 00-0023	EA	Add For Booster Pumps, 20 Thru 500 PPD System	564.82	
46 31 11 00-0024	EA	Add For Booster Pumps, 501 Thru 8000 PPD System	1,694.45	
46 31 11 00-0025	EA	Add For Sample Pump	1,063.56	
46 31 11 00-0026	EA	Add For Factory Rep. Set-Up/Service Fee	5,861.30	

46 33 Liquid Chemical Feed Equipment *(46 30)*

46 33 42 Diaphragm-type Metering Pumps *(46 33)*

46 33 42 00-0001 Chemical Metering Pumps *(46 33 42)*

46 33 42 00-0002	EA	272 GPM, Sodium Hypochlorite Chemical Metering Pump (ProMinent Makro TZMb Pump)	45,213.50	239.29

46 33 66 Liquid Chemical Transfer Pumps *(46 33)*

46 33 66 00-0001 Transfer Pump *(46 33 66)*

46 33 66 00-0002 Polypropylene With Hypalon Liners *(46 33 66 00-0001)*

46 33 66 00-0003	EA	1/4 HP, 120 Volt, Chemical Transfer Pump, 3/4" In/Out	1,124.65	211.23
		For Each LF Of 3/4" ID Braided Polyvinyl Chloride (PVC) Tubing, Add	*22.17*	
		For Hose Clamp, Add	*1.40*	
		For Carrying Kit (Handle, Base And Cord), Add	*96.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 33 66 00-0004	EA	1/4 HP, 120 Volt, Chemical Transfer Pump, 1" In/Out	1,150.70	211.23
		For Each LF Of 1" ID Braided Polyvinyl Chloride (PVC) Tubing, Add	*22.69*	
		For Hose Clamp, Add	*1.40*	
		For Carrying Kit (Handle, Base And Cord), Add	*96.00*	
46 33 66 00-0005	EA	1/2 HP, 120 Volt, Chemical Transfer Pump, 1-1/4" In/1" Out	1,393.82	259.98
		For Each LF Of 1-1/4" ID Braided Polyvinyl Chloride (PVC) Tubing, Add	*30.88*	
		For Hose Clamp, Add	*1.40*	
		For Carrying Kit (Handle, Base And Cord), Add	*96.00*	

46 40 Water and Wastewater Clarification and Mixing Equipment *(46)*

46 41 Mixing Equipment *(46 40)*

46 41 11 Rapid Mixers *(46 41)*

46 41 11 00-0001 Invent Hyperclassic Mixers And Platforms (Invent & J Blanco Associates) *(46 41 11)*

46 41 11 00-0002 Invent Hyperclassic Mixers *(46 41 11 00-0001)*

46 41 11 00-0003	EA	3 HP, 1500mm, 26 RPM, FRP Mixer Body With Gearbox And Shaft (Invent & Blanco Associates HCM1500-26-3.0)	50,459.88	508.74
		For Baldor Motor, Add	*3,605.18*	
46 41 11 00-0004	EA	1.5 HP, 2000mm, 22 RPM, FRP Mixer Body With Gearbox And Shaft (Invent & Blanco Associates HCM2000-22-1.5)	53,782.50	418.97
		For Baldor Motor, Add	*3,605.18*	
46 41 11 00-0005	EA	3 HP, 2000mm, 26 RPM, FRP Mixer Body With Gearbox And Shaft (Invent & Blanco Associates HCM2000-26-3.0)	55,198.11	508.74
		For Baldor Motor, Add	*3,605.18*	
46 41 11 00-0006	EA	2 HP, 2500mm, 216 RPM, FRP Mixer Body With Gearbox And Shaft (Invent & Blanco Associates HCM2500-16-2.0)	66,626.93	454.88
		For Baldor Motor, Add	*3,605.18*	
46 41 11 00-0007	EA	3 HP, 2500mm, 18 RPM, FRP Mixer Body With Gearbox And Shaft (Invent & Blanco Associates HCM2500-18-3.0)	67,146.69	508.74
		For Baldor Motor, Add	*3,605.18*	
46 41 11 00-0008	EA	5 HP, 2500mm, 22 RPM, FRP Mixer Body With Gearbox And Shaft (Invent & Blanco Associates HCM2500-22-5.0)	74,246.80	556.62
		For Baldor Motor, Add	*3,605.18*	

46 41 11 00-0009 Invent Hyperclassic Platforms *(46 41 11 00-0001)*
Note: For Use With Invent Hyperclassic Mixers

46 41 11 00-0010	EA	Up To 12' x 42" Wide, Carbon Steel, Hot Dip Galvanized Platform With Anodized Aluminum Handrail And Grating (Invent & J Blanco Associates Small Carbon Steel) Note: Includes Stainless Steel 316 Hardware	38,549.30	1,660.79
		For 316 Stainless Steel Handrail, Add	*2,472.12*	
		For 316 Stainless Steel Grating, Add	*5,191.45*	
46 41 11 00-0011	EA	12' To 25' x 42" Wide, Carbon Steel, Hot Dip Galvanized Platform With Anodized Aluminum Handrail And Grating (Invent & J Blanco Associates Big Carbon Steel) Note: Includes Stainless Steel 316 Hardware	44,596.63	2,418.35
		For 316 Stainless Steel Handrail, Add	*4,635.22*	
		For 316 Stainless Steel Grating, Add	*10,815.52*	
46 41 11 00-0012	EA	Up To 12' x 42" Wide Anodized Aluminum Platform With Handrail And Grating (Invent & J Blanco Associates Small Aluminum) Note: Includes Stainless Steel 316 Hardware	56,266.16	1,660.79
		For 316 Stainless Steel Handrail, Add	*2,472.12*	
		For 316 Stainless Steel Grating, Add	*5,191.45*	
46 41 11 00-0013	EA	12' To 25' x 42" Wide Anodized Aluminum Platform With Handrail And Grating (Invent & J Blanco Associates Big Aluminum) Note: Includes Stainless Steel 316 Hardware	62,725.51	2,418.35
		For 316 Stainless Steel Handrail, Add	*4,635.22*	
		For 316 Stainless Steel Grating, Add	*10,815.52*	

46 41 16 Induction-type Rapid Mixing Equipment *(46 41)*

46 41 16 00-0001 Chemical Induction Mixer (Mastrrr Company) *(46 41 16)*

46 41 16 00-0002	EA	5 HP, 460 Volt AC/60 Hertz/ 3 Phase, Chemical Induction Mixer (Mastrrr Co. 32NV-5 HP)	25,590.21	538.66
46 41 16 00-0003	EA	7-1/2 HP, 460 Volt AC/60 Hertz/ 3 Phase, Chemical Induction Mixer (Mastrrr Co. 32NV-7-1/2 HP)	30,965.48	598.52
46 41 16 00-0004	EA	10 HP, 460 Volt AC/60 Hertz/ 3Ppaseh, Chemical Induction Mixer (Mastrrr Co. 32NV-10 HP)	36,870.40	718.22
46 41 16 00-0005	EA	20 HP, 460 Volt AC/60 Hertz/ 3 Phase, Chemical Induction Mixer (Mastrrr Co. 32NV-20 HP)	49,843.66	1,018.68
46 41 16 00-0006	EA	25 HP, 460 Volt AC/60 Hertzz/ 3 Phase, Chemical Induction Mixer (Mastrrr Co. 32NV-25 HP)	55,631.13	1,157.54
46 41 16 00-0007	EA	460 Volt AC/60 Hertz/ 3 Phase, Control Panel (Mastrrr Co. Savvy 3)	15,429.53	113.00
46 41 16 00-0008	EA	20', 316 Stainless Steel, Braided Lifting Cable With One Link Eye (Mastrrr Co. CAB-1)	181.71	13.17
46 41 16 00-0009	EA	20', 3/4" Inside Diameter, PVC, Wire Reinforced, Flexible Hose (Mastrrr Co. FX-1)	820.26	42.35
46 41 16 00-0010	EA	20', 1" Inside Diameter, PVC, Wire Reinforced, Flexible Hose (Mastrrr Co. FX-1)	1,115.02	47.64
46 41 16 00-0011	EA	20', 1-1/2" Inside Diameter, PVC, Wire Reinforced, Flexible Hose (Mastrrr Co. FX-1)	1,331.90	58.22
46 41 16 00-0012	EA	20', 2" Inside Diameter, PVC, Wire Reinforced, Flexible Hose (Mastrrr Co. FX-1)	1,847.21	63.51
46 41 16 00-0013	Day	Start Up Assistance (Mastrrr Co. DHA-FS)	3,708.18	

46 41 23 Submersible Mixers *(46 41)*

46 41 23 00-0001 Submersible Mixers (KSB Amamix) *(46 41 23)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 41 23 00-0002		**KSB Amamix Submersible Mixers** *(46 41 23 00-0001)*		
46 41 23 00-0003	EA	5.5 HP, 3 Phase, 32" Cast Iron Submersible Mixers, Gear Drive Note: Including 316 stainless steel adjustable mixer support frame, cable directing device and lifting handle. KSB Amamix Model 120-803/44UMG.	12,576.78	1,559.85
46 41 23 00-0004	EA	6.5 HP, 3 Phase, 32" Cast Iron Submersible Mixers, Gear Drive Note: Including 316 stainless steel adjustable mixer support frame, cable directing device and lifting handle. KSB Amamix Model 180-801/46UMG.	13,155.88	1,559.85
46 41 23 00-0005	EA	7.5 HP, 3 Phase, 32" Cast Iron Submersible Mixers, Gear Drive Note: Including 316 stainless steel adjustable mixer support frame, cable directing device and lifting handle. KSB Amamix Model 180-802/54UMG.	12,860.79	1,559.85
46 41 23 00-0006		**KSB Amamix Submersible Mixers Accessories** *(46 41 23 00-0001)*		
46 41 23 00-0007	EA	Mast Assemble (Vertical), 20', 316 Stainless Steel Note: Including positioner plate, all wall brackets, pivoting base bracket, anchor bolts, and static cable assembly.	3,233.32	
		For Each Additional Foot Mast Length, Add	*128.00*	
46 41 23 00-0008	EA	Extension Bracket, Wall To Mast, 316 Stainless Steel Note: For "T" and "Y" wall application, including hardware.	383.38	
46 41 23 00-0009	EA	Mixer Stop Bracket, 316 Stainless Steel	119.19	
46 41 23 00-0010	EA	Fixed Reach Hoist, 316 Stainless Steel Note: Includes marine grade winch with 40' of 316 stainless steel cable and shackle.	1,049.67	
46 41 23 00-0011		**Submersible Mixers (US Filter)** *(46 41 23)*		
46 41 23 00-0012		**US Filter Submersible Mixers** *(46 41 23 00-0011)*		
46 41 23 00-0013	EA	2.7 HP, 3 Phase, Submersible Mixers Note: TR50 2 - 6/8 Uniprop.	10,709.69	1,559.85
46 41 23 00-0014	EA	4.4 HP, 3 Phase, Submersible Mixers Note: TR50 2 - 4/8 Uniprop.	10,103.97	1,559.85
46 41 23 00-0015	EA	5.6 HP, 3 Phase, Submersible Mixers Note: TR50 2 - 4/8R Uniprop.	10,167.20	1,559.85
46 41 23 00-0016	EA	6 HP, 3 Phase, Submersible Mixers Note: TR50 2 - 6/16 Uniprop.	12,157.68	1,559.85
46 41 23 00-0017	EA	7.4 HP, 3 Phase, Submersible Mixers Note: TR50 2 - 4/12 Uniprop.	11,035.15	1,559.85
46 41 23 00-0018	EA	10 HP, 3 Phase, Submersible Mixers Note: TR50 2 - 4/16 Uniprop.	23,263.55	1,559.85
46 41 23 00-0019		**US Filter Submersible Mixers Accessories** *(46 41 23 00-0011)*		
46 41 23 00-0020	EA	Vertical Mast Assembly Note: Including 304 stainless steel lowering device, 20' 4" x 4" 304 stainless steel guide rail, fixation plate, bottom bearing plate, all anchors and bolts	6,219.78	
46 41 23 00-0021	EA	Replacement Of Mounting Skids	1,255.10	
46 41 23 00-0022	EA	Replacement Of Rollers	62.45	
46 41 23 00-0023	EA	Replacement Of Cable Clamps	64.67	

46 50 Water and Wastewater Secondary Treatment Equipment *(46)*

46 51 Air and Gas Diffusion Equipment *(46 50)*

46 51 11 Fixed Mechanical Aerators *(46 51)*

46 51 11 00-0001		**High Speed Mechanical Surface Aerator** *(46 51 11)* Note: Includes electric motor, ductile iron deflector, carbon steel core, stainless steel impeller and shaft, fiberglass float, morse moreflex radial coupling and cutless rubber bearing.		
46 51 11 00-0002	EA	5 HP, 1,800 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	25,224.96	2,038.40
		For Stainless Steel Deflector And Core, Add	*6,767.41*	
		For Floating Unit (Includes Platform With Ballast System), Add	*18,051.12*	
46 51 11 00-0003	EA	7.5 HP, 1,800 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	26,144.44	2,038.40
		For Stainless Steel Deflector And Core, Add	*7,061.65*	
		For Floating Unit (Includes Platform With Ballast System), Add	*18,800.49*	
46 51 11 00-0004	EA	10 HP, 1,800 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	32,249.72	2,718.64
		For Stainless Steel Deflector And Core, Add	*8,532.83*	
		For Floating Unit (Includes Platform With Ballast System), Add	*22,848.97*	
46 51 11 00-0005	EA	15 HP, 1,200 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	35,927.66	2,718.64
		For Stainless Steel Deflector And Core, Add	*9,709.77*	
		For Floating Unit (Includes Platform With Ballast System), Add	*25,846.49*	
46 51 11 00-0006	EA	20 HP, 1,200 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	42,364.06	2,718.64
		For Stainless Steel Deflector And Core, Add	*11,769.41*	
		For Floating Unit (Includes Platform With Ballast System), Add	*31,092.16*	
46 51 11 00-0007	EA	25 HP, 1,200 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	48,592.41	3,623.69
		For Stainless Steel Deflector And Core, Add	*13,240.59*	
		For Floating Unit (Includes Platform With Ballast System), Add	*35,165.24*	
46 51 11 00-0008	EA	30 HP, 1,200 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	52,576.84	3,623.69
		For Stainless Steel Deflector And Core, Add	*14,515.61*	
		For Floating Unit (Includes Platform With Ballast System), Add	*38,412.56*	
46 51 11 00-0009	EA	40 HP, 1,200 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	72,517.56	4,076.79
		For Stainless Steel Deflector And Core, Add	*20,596.47*	
		For Floating Unit (Includes Platform With Ballast System), Add	*54,087.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 51 11 00-0010	EA	50 HP, 900 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	77,053.81	4,659.19
		For Stainless Steel Deflector And Core, Add	*21,675.34*	
		For Floating Unit (Includes Platform With Ballast System), Add	*57,068.05*	
46 51 11 00-0011	EA	60 HP, 900 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	89,926.61	4,659.19
		For Stainless Steel Deflector And Core, Add	*25,794.63*	
		For Floating Unit (Includes Platform With Ballast System), Add	*67,559.38*	
46 51 11 00-0012	EA	75 HP, 900 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	95,770.60	5,436.11
		For Stainless Steel Deflector And Core, Add	*27,167.73*	
		For Floating Unit (Includes Platform With Ballast System), Add	*71,367.10*	
46 51 11 00-0013	EA	100 HP, 900 RPM Mechanical Surface Aerator With Ductile Iron Deflector And Carbon Steel Core	112,656.66	6,522.86
		For Stainless Steel Deflector And Core, Add	*31,875.50*	
		For Floating Unit (Includes Platform With Ballast System), Add	*83,792.05*	

46 51 11 00-0014 Low Speed Mechanical Surface Aerator *(46 51 11)*

Note: Includes electric motor gear reduction box, coupling, impeller/shaft, and adjusting studs.

46 51 11 00-0015	EA	15 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	26,978.82	2,718.64
		For Floating Unit (Includes Platform With Ballast System), Add	*18,644.77*	
46 51 11 00-0016	EA	20 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	29,950.28	2,718.64
		For Floating Unit (Includes Platform With Ballast System), Add	*21,066.51*	
46 51 11 00-0017	EA	25 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	35,494.61	3,261.43
		For Floating Unit (Includes Platform With Ballast System), Add	*24,916.55*	
46 51 11 00-0018	EA	30 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	39,208.94	3,261.43
		For Floating Unit (Includes Platform With Ballast System), Add	*27,943.73*	
46 51 11 00-0019	EA	40 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	43,648.04	3,623.69
		For Floating Unit (Includes Platform With Ballast System), Add	*31,115.86*	
46 51 11 00-0020	EA	50 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	46,619.50	3,623.69
		For Floating Unit (Includes Platform With Ballast System), Add	*33,537.60*	
46 51 11 00-0021	EA	60 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	52,725.51	4,076.79
		For Floating Unit (Includes Platform With Ballast System), Add	*37,956.84*	
46 51 11 00-0022	EA	75 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	58,668.43	4,076.79
		For Floating Unit (Includes Platform With Ballast System), Add	*42,800.32*	
46 51 11 00-0023	EA	100 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	68,747.62	4,659.19
		For Floating Unit (Includes Platform With Ballast System), Add	*50,298.51*	
46 51 11 00-0024	EA	125 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	78,472.20	5,436.11
		For Floating Unit (Includes Platform With Ballast System), Add	*57,268.91*	
46 51 11 00-0025	EA	150 HP Mechanical Surface Aerator, Fixed, Low Speed And Electrical Motor Gear Reducing Box	97,043.84	5,436.11
		For Floating Unit (Includes Platform With Ballast System), Add	*72,404.79*	

46 60 Water and Wastewater Advanced Treatment Equipment *(46)*

46 61 Filtration Equipment *(46 60)*

46 61 21 Pressure Filters *(46 61)*

46 61 21 00-0001 Pressure Filter For Pre-Treatment Of Raw Water *(46 61 21)*

Note: For domestic or industrial uses, and as tertiary step to render treated waste water suitable for discharge or possible reuse. Excludes raw water or backwash pumps, loss-of-head indicator, sight glasses, backwash flow rate indicator, nor pre-treatment equipment such as flash mixers, clarifiers, and chemical feed equipment.

46 61 21 00-0002 Pressure Filter With 100 PSI Non-Code Steel Construction *(46 61 21 00-0001)*

Note: A radial slotted PVC pipe lateral underdrain with gravel support bed, manual gate valves, manual operation, sand media, influent and effluent pressure gauges, sampling connections and schedule 40 steel pipe with cast iron fittings, flow rate at 5 GPM per SF.

46 61 21 00-0003	EA	3' Diameter, 36 GPM Manual Operating Pressure Filter For Pretreatment Of Raw Water	16,373.91	2,903.91
46 61 21 00-0004	EA	4' Diameter, 65 GPM Manual Operating Pressure Filter For Pretreatment Of Raw Water	23,861.91	3,250.00
46 61 21 00-0005	EA	5' Diameter, 100 GPM Manual Operating Pressure Filter For Pretreatment Of Raw Water	29,771.40	3,250.00
46 61 21 00-0006	EA	6' Diameter, 140 GPM Manual Operating Pressure Filter For Pretreatment Of Raw Water	40,512.46	3,591.96
46 61 21 00-0007	EA	7' Diameter, 200 GPM Manual Operating Pressure Filter For Pretreatment Of Raw Water	51,690.56	3,591.96
46 61 21 00-0008	EA	8' Diameter, 250 GPM Manual Operating Pressure Filter For Pretreatment Of Raw Water	63,732.57	4,402.74

46 61 21 00-0009 Pressure Filter With 100 PSI Non-Code Steel Shell Construction *(46 61 21 00-0001)*

Note: A flat plate with sand retaining corrosion resistant diffuser equipped for air scouring, electrically operated valves for automatic operation, sand media, influent and effluent pressure gages, sampling connect and schedule 40 steel pipe with cast iron fittings, flow rate at 5 GPM per SF.

46 61 21 00-0010	EA	3' Diameter, 36 GPM Electric Operating Pressure Filter For Pretreatment Of Raw Water	20,478.38	2,903.91
46 61 21 00-0011	EA	4' Diameter, 65 GPM Electric Operating Pressure Filter For Pretreatment Of Raw Water	27,908.78	3,250.00
46 61 21 00-0012	EA	5' Diameter, 100 GPM Electric Operating Pressure Filter For Pretreatment Of Raw Water	32,236.48	3,250.00
46 61 21 00-0013	EA	6' Diameter, 140 GPM Electric Operating Pressure Filter For Pretreatment Of Raw Water	39,655.56	3,591.96
46 61 21 00-0014	EA	7' Diameter, 200 GPM Electric Operating Pressure Filter For Pretreatment Of Raw Water	42,319.87	3,591.96
46 61 21 00-0015	EA	8' Diameter, 250 GPM Electric Operating Pressure Filter For Pretreatment Of Raw Water	64,500.66	4,402.74

46 61 23 Gravity Filters *(46 61)*

46 61 23 00-0001 Packaged Water Filters *(46 61 23)*

46 61 23 00-0002 Gravity Filtration Units *(46 61 23 00-0001)*

46 61 23 00-0003	EA	Gravity Filtration Units, 4', 94 GPM	61,187.55	1,654.65
46 61 23 00-0004	EA	Gravity Filtration Units, 8', 376 GPM	110,290.45	1,654.65
46 61 23 00-0005	EA	Gravity Filtration Units, 12', 847 GPM	172,349.65	3,309.29
46 61 23 00-0006	EA	Gravity Filtration Units, 18', 1,908 GPM	261,800.81	16,546.47

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 61 23 00-0007	EA	Gravity Filtration Units, 20', 2,356 GPM	283,592.04	16,546.47

46 80 Water Treatment Equipment *(46)*

46 82 General Water Treatment Equipment *(46 80)*

46 82 13 Aeration Water Treatment Equipment *(46 82)*

46 82 13 00-0001 Froth Control Nozzles *(46 82 13)*
Note: BETE series TF polypropylene body.

46 82 13 00-0002 Wide Range Of Flows And Angles *(46 82 13 00-0001)*
Note: BETE series TF, polypropylene body.

46 82 13 00-0003	EA	3/8" Diameter Nozzle	82.67	6.50
46 82 13 00-0004	EA	1/2" Diameter Nozzle	88.16	6.50

46 82 13 00-0005 High Impact/Narrow Fan Spray Nozzles *(46 82 13 00-0001)*
Note: BETE series SPN, brass body.

46 82 13 00-0006	EA	3/8" Diameter Nozzle	131.17	6.50
46 82 13 00-0007	EA	1/2" Diameter Nozzle	144.49	6.50

46 82 13 00-0008 Maximum Free Passage Nozzles *(46 82 13 00-0001)*
Note: BETE series MP, polypropylene body.

46 82 13 00-0009	EA	3/8" Diameter Nozzle	106.92	6.50
46 82 13 00-0010	EA	1/2" Diameter Nozzle	116.33	6.50

46 82 13 00-0011 Drainage Stems, Diffusers, Saddles *(46 82 13)*

46 82 13 00-0012	EA	Sanitaire MT-2 Membrane Tube Diffuser, Ethylene Propylene Diene Monomer (EPDM) Membrane With Polyvinyl Chloride (PVC) Body, 24" Diffuser	210.65	12.99
46 82 13 00-0013	EA	Sanitaire Diffuser, 304L Stainless Steel, 24" Long	196.45	12.99
46 82 13 00-0014	EA	Sanitaire Diffuser, 316L Stainless Steel, 24" Long	220.12	12.99
46 82 13 00-0015	EA	Sanitaire Diffuser, 304L Stainless Steel, 12" Long	184.38	11.69
46 82 13 00-0016	EA	Sanitaire Diffuser, 316L Stainless Steel, 12" Long	194.31	11.69
46 82 13 00-0017	EA	Open Bottom Coarse Bubble Diffuser, 304L Stainless Steel, 12" Long	161.75	11.69
46 82 13 00-0018	EA	Open Bottom Coarse Bubble Diffuser, 304L, 24" Long	187.50	12.99
46 82 13 00-0019	EA	EnviroQuip AirBand, Polyvinyl Chloride (PVC) Coarse Bubble Diffuser, 24" Long	90.56	12.99
46 82 13 00-0020	EA	Polyvinyl Chloride (PVC), EnviroQuip Variair Adjustable Diffuser	64.10	9.75
46 82 13 00-0021	EA	EnviroQuip Snap Cap Diffuser, Ethylene Propylene Diene Monomer (EPDM) Thermoplastic Cap, Celcon Plastic Base, 5 CFM Max	44.92	9.75
46 82 13 00-0022	EA	EnviroQuip Snap Cap Diffuser, Ethylene Propylene Diene Monomer (EPDM) Thermoplastic Cap, Celcon Plastic Base, 10 CFM Max	47.47	9.75
46 82 13 00-0023	EA	EnviroQuip Snap Cap Diffuser, Ethylene Propylene Diene Monomer (EPDM) Thermoplastic Cap, SS Base, 5 CFM Max	77.05	9.75
46 82 13 00-0024	EA	EnviroQuip Snap Cap Diffuser, Ethylene Propylene Diene Monomer (EPDM) Thermoplastic Cap, SS Base, 10 CFM Max	80.24	9.75
46 82 13 00-0025	EA	EnviroQuip FlexLine Membrane Tube Diffuser, 24" Long, Ethylene Propylene Diene Monomer (EPDM)	108.65	9.75
46 82 13 00-0026	EA	EnviroQuip FlexDome Fine Bubble Diffuser, 10" Diameter	74.83	9.75
46 82 13 00-0027	EA	EnviroQuip FlexDisc Fine Bubble Diffuser, 10" Diameter	74.83	9.75
46 82 13 00-0028	EA	EnviroQuip AirSeal Diffuser, 6-1/4" Diameter	74.83	9.75
46 82 13 00-0029	EA	Fine Bubble Ceramic Dome Diffuser, 7-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) Plastic Body	133.23	12.99
46 82 13 00-0030	EA	Fine Bubble Ceramic Dome Diffuser, 7-1/2" Diameter, SS Body And Hypalon Gaskets	293.79	12.99
46 82 13 00-0031	EA	Wyss Flex-A-Tube Fine Bubble Diffuser, 2" Long	210.76	16.24
46 82 13 00-0032	EA	Wyss Flex-A-Tube Polyurethane Replacement Sheath	73.70	9.75
46 82 13 00-0033	EA	Wyss Flex-A-Tube Ethylene Propylene Diene Monomer (EPDM) Replacement Sheath	55.77	9.75
46 82 13 00-0034	EA	AquaTec Fine Bubble Diffuser, 12" Diameter	219.69	12.99
46 82 13 00-0035	EA	Wilfley Weber Dura-Disc Plus Diffuser, .5 To 7 SCFM	133.60	12.99
46 82 13 00-0036	EA	Wilfley Weber Dura-Disc Plus Diffuser, 3 To 10 SCFM	133.60	12.99
46 82 13 00-0037	EA	Clog-Free Bottom Discharge Diffuser, Acrylonitrile Butadiene Styrene (ABS) Plastic, 5" Diameter	64.18	12.99
46 82 13 00-0038	EA	Hydro-Aerobic Hydro-Ceal Coarse Bubble, 3 CFM Max	51.42	12.99
46 82 13 00-0039	EA	Hydro-Aerobic Hydro-Ceal Coarse Bubble, 12 CFM Max	55.88	12.99
46 82 13 00-0040	EA	Hydro-Chek Coarse Bubble Diffuser, Celcon, .5-3 CFM	45.39	12.99
46 82 13 00-0041	EA	Hydro-Chek Coarse Bubble Diffuser, Celcon, 3-12 CFM	50.00	12.99
46 82 13 00-0042	EA	Hydro-Chek Coarse Bubble Diffuser, Stainless Steel, 0.5-3 CFM	141.53	12.99
46 82 13 00-0043	EA	Hydro-Chek Coarse Bubble Diffuser, Stainless Steel, 3-12 CFM	181.66	12.99
46 82 13 00-0044	EA	USFilter Discfuser Diffuser	108.05	12.99
46 82 13 00-0045	EA	Flexoplate Diffuser	140.10	16.24
46 82 13 00-0046	EA	Flexoplate Ethylene Propylene Diene Monomer (EPDM) Replacement Membrane	90.21	9.75
46 82 13 00-0047	EA	Ceramic Tube Diffuser 24", 316 Stainless Steel Hardware	160.61	9.75
46 82 13 00-0048	EA	Refractron 7" Ceramic Dome Diffuser	80.98	9.75
46 82 13 00-0049	EA	2" Single Outlet Polyvinyl Chloride (PVC) Saddle	65.12	9.75
46 82 13 00-0050	EA	2" Double Outlet Polyvinyl Chloride (PVC) Saddle	71.14	9.75
46 82 13 00-0051	EA	3" Single Outlet Polyvinyl Chloride (PVC) Saddle	83.34	11.05
46 82 13 00-0052	EA	3" Double Outlet Polyvinyl Chloride (PVC) Saddle	91.42	11.05
46 82 13 00-0053	EA	4" Single Outlet Polyvinyl Chloride (PVC) Saddle	101.52	12.35
46 82 13 00-0054	EA	4" Double Outlet Polyvinyl Chloride (PVC) Saddle	111.67	12.35
46 82 13 00-0055	EA	6" Single Outlet Polyvinyl Chloride (PVC) Saddle	114.02	13.64
46 82 13 00-0056	EA	6" Double Outlet Polyvinyl Chloride (PVC) Saddle	138.34	13.64

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 13 00-0057		Miscellaneous Items *(46 82 13)*		
46 82 13 00-0058	EA	Plastic Air Diffuser With 3/4" Diameter NPT Threaded Base And Brass Check Valve	35.22	12.99
46 82 13 00-0059	EA	1-1/4" x 18'-4" Stainless Steel Aeration Drain Gate Stem Assembly	1,169.19	142.61
46 82 13 00-0060	EA	1-3/4" x 23' - 11.25" Stainless Steel Aeration Drain Gate Stem Assembly	1,778.66	342.28
46 82 23		**Water Treatment Clarifiers** *(46 82)*		
46 82 23 00-0001		Wastewater Clarifier/Interceptors, Model HYGI *(46 82 23)*		
46 82 23 00-0002	EA	750 Gallon Precast Reinforced Clarifier	4,186.81	827.33
46 82 23 00-0003	EA	1,000 Gallon Precast Reinforced Clarifier	4,597.28	1,034.15
46 82 23 00-0004	EA	1,250 Gallon Precast Reinforced Clarifier	5,033.97	1,240.98
46 82 23 00-0005	EA	1,500 Gallon Precast Reinforced Clarifier	6,018.17	1,654.65
46 82 23 00-0006	LF	12' High Risers, Elevating Height Of Tank, Add Per LF	190.34	
46 82 33		**Water Treatment Digesters** *(46 82)*		
46 82 33 00-0001		Digester Cleaning Services *(46 82 33)*		
46 82 33 00-0002		Digester Cleaning Services *(46 82 33 00-0001)*		
		Note: All dewatering operations shall occur on site. See CSI section 01 22 20 00-0070 for gas monitoring.		
46 82 33 00-0003		Digester Dewatering *(46 82 33 00-0002)*		
		Note: Includes moving material from the digester to the mobile dewatering system and processing the material.		
46 82 33 00-0004	CF	Digester Tank Cleaning, Minimum 10,000 CF For Each Tank	3.95	
		For >50,000, Deduct	*-0.30*	
46 82 33 00-0005		Digester Residual Transportation And Disposal *(46 82 33 00-0002)*		
		Note: Includes transporting digester residuals from mobile dewatering system to landfill including landfill fee.		
46 82 33 00-0006	TON	Transportation And Disposal Of Digester Residuals	136.29	
46 82 36		**Water Treatment Separator** *(46 82)*		
46 82 36 00-0001		Commercial Service Centrifugal Separators *(46 82 36)*		
		Note: For water well applications sealed unit, includes support stand.		
46 82 36 00-0002	EA	4" Unit, 200 - 350 GPM, Commercial Service Centrifugal Separators	5,399.36	545.73
		Note: Includes support stand.		
		For Electrically Controlled Ball Valve With Controller, Add	*930.00*	
46 82 36 00-0003	EA	5" Unit, 320 - 540 GPM, Commercial Service Centrifugal Separators	6,792.83	606.38
		Note: Includes support stand.		
		For Electrically Controlled Ball Valve With Controller, Add	*930.00*	
46 82 36 00-0004	EA	6" Unit, 510 - 840 GPM, Commercial Service Centrifugal Separators	6,970.21	636.69
		Note: Includes support stand.		
		For Electrically Controlled Ball Valve With Controller, Add	*930.00*	
46 82 36 00-0005	EA	8" Unit, 820 - 1,360 GPM, Commercial Service Centrifugal Separators	8,708.43	666.89
		Note: Includes support stand.		
		For Electrically Controlled Ball Valve With Controller, Add	*930.00*	
46 82 36 00-0006		Commercial Service Centrifugal Separators *(46 82 36)*		
		Note: For water well applications sealed unit with removable top, includes support stand.		
46 82 36 00-0007	EA	4" Unit, 200 - 350 GPM, Commercial Service Centrifugal Separators With Removable Top	7,451.95	545.73
		Note: Includes support stand.		
		For Electrically Controlled Ball Valve With Controller, Add	*930.00*	
46 82 36 00-0008	EA	5" Unit, 320 - 540 GPM, Commercial Service Centrifugal Separators With Removable Top	8,986.77	606.38
		Note: Includes support stand.		
		For Electrically Controlled Ball Valve With Controller, Add	*930.00*	
46 82 36 00-0009	EA	6" Unit, 510 - 840 GPM, Commercial Service Centrifugal Separators With Removable Top	9,354.65	636.69
		Note: Includes support stand.		
		For Electrically Controlled Ball Valve With Controller, Add	*930.00*	
46 82 36 00-0010	EA	8" Unit, 820 - 1,360 GPM, Commercial Service Centrifugal Separators With Removable Top, Includes Support Stand	11,209.64	666.89
		For Electrically Controlled Ball Valve With Controller, Add	*930.00*	
46 82 73		**Water Treatment Tanks/Tank Liners** *(46 82)*		
46 82 73 00-0001		Sewage Treatment Tank Components *(46 82 73)*		
		Note: All metal components shall be primed and painted.		
46 82 73 00-0002		Drive Chains - 78 Series *(46 82 73 00-0001)*		
46 82 73 00-0003	LF	HB78 403 Stainless Steel Drive Chain	154.12	5.24
		For >500 To 1,000, Deduct	*-4.30*	
		For >1,000, Deduct	*-6.10*	
		For Extra Material Parts (No Labor), Add	*40.24*	
46 82 73 00-0004	LF	H78 Reinforced Nylon Drive Chain, Glass Reinforced Nylon Links With Stainless Steel Pins	123.41	5.24
		For >500 To 1,000, Deduct	*-3.10*	
		For >1,000, Deduct	*-5.50*	
		For Extra Material Parts (No Labor), Add	*28.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 73 00-0005	LF	H78 Acetal Resin Drive Chain With Acetal Resin Pins	123.65	5.24
		For >500 To 1,000, Deduct	*-2.40*	
		For >1,000, Deduct	*-4.30*	
		For Extra Material Parts (No Labor), Add	*31.90*	
46 82 73 00-0006	LF	H78 Cast Metal Drive Chain	156.16	5.24
		For >500 To 1,000, Deduct	*-6.10*	
		For >1,000, Deduct	*-7.70*	
		For Extra Material Parts (No Labor), Add	*41.10*	
46 82 73 00-0007	LF	Removal And Reinstallation Of Drive Chain	27.66	
46 82 73 00-0008		**Flight Chains - 700 Series** *(46 82 73 00-0001)*		
46 82 73 00-0009	LF	720S Cast Metal Chain	170.78	6.89
		For >500 To 1,000, Deduct	*-8.44*	
		For >1,000, Deduct	*-12.94*	
		For Extra Material Parts (No Labor), Add	*156.99*	
46 82 73 00-0010	EA	6" Or 8" Cast Metal Flight Attachment	303.03	10.34
		For >500 To 1,000, Deduct	*-15.18*	
		For >1,000, Deduct	*-23.28*	
		For Extra Material Parts (No Labor), Add	*282.35*	
46 82 73 00-0011	LF	SAV715 403 Stainless Steel Flight Chain	158.63	3.44
		For >500 To 1,000, Deduct	*-8.16*	
		For >1,000, Deduct	*-12.51*	
		For Extra Material Parts (No Labor), Add	*151.74*	
46 82 73 00-0012	EA	6" Or 8" Stainless Steel Flight Attachment	163.50	10.34
		For >500 To 1,000, Deduct	*-7.68*	
		For >1,000, Deduct	*-11.78*	
		For Extra Material Parts (No Labor), Add	*142.82*	
46 82 73 00-0013	LF	NM720-CS Polyester Flight Chain, 6" Pitch, Glass Fiber Reinforced Polyester Links	70.33	10.34
		For >500 To 1,000, Deduct	*-3.41*	
		For >1,000, Deduct	*-5.23*	
		For Extra Material Parts (No Labor), Add	*63.44*	
46 82 73 00-0014	EA	6" Or 8" Polyester Flight Attachment	57.74	10.34
		For >500 To 1,000, Deduct	*-1.99*	
		For >1,000, Deduct	*-3.06*	
		For Extra Material Parts (No Labor), Add	*37.06*	
46 82 73 00-0015	LF	HS730 Polyester Flight Chain, 6" Pitch, Glass Fiber Reinforced Polyester Links	120.00	3.44
		For >500 To 1,000, Deduct	*-6.08*	
		For >1,000, Deduct	*-9.33*	
		For Extra Material Parts (No Labor), Add	*113.11*	
46 82 73 00-0016	EA	8" Polyester Flight Attachment	145.20	10.34
		For >500 To 1,000, Deduct	*-6.69*	
		For >1,000, Deduct	*-10.27*	
		For Extra Material Parts (No Labor), Add	*124.52*	
46 82 73 00-0017	LF	NCS 720S Acetal Resin Flight Chain	69.21	3.44
		For >500 To 1,000, Deduct	*-3.35*	
		For >1,000, Deduct	*-5.14*	
		For Extra Material Parts (No Labor), Add	*62.32*	
46 82 73 00-0018	EA	6" Or 8" Acetal Resin Flight Attachment	57.55	10.34
		For >500 To 1,000, Deduct	*-1.98*	
		For >1,000, Deduct	*-3.04*	
		For Extra Material Parts (No Labor), Add	*36.87*	
46 82 73 00-0019	LF	Removal And Reinstallation Of Flight Chain	54.72	
46 82 73 00-0020		**Chain Tensioner** *(46 82 73 00-0001)*		
46 82 73 00-0021	EA	Stainless Steel Snap Idler With 316 Stainless Steel Straps; Snap Idle #180SS	1,282.09	34.47
		For >25 To 50, Deduct	*-89.89*	
		For >50, Deduct	*-146.06*	
		For Extra Material Parts (No Labor), Add	*1,213.14*	
46 82 73 00-0022	EA	Removal And Reinstallation Of Chain Tensioner	103.41	
46 82 73 00-0023		**Torque Limiter** *(46 82 73 00-0001)*		
46 82 73 00-0024	EA	Torque Limiter (Brunel JSE1-0228)	13,979.97	29.92
		For >5 To 10, Deduct	*-257.52*	
		For >10, Deduct	*-501.13*	
		For Extra Material Parts (No Labor), Add	*13,920.15*	
46 82 73 00-0025	EA	Torque Limiter (Brunel JSE1-0230)	16,984.32	33.50
		For >5 To 10, Deduct	*-312.97*	
		For >10, Deduct	*-609.02*	
		For Extra Material Parts (No Labor), Add	*16,917.31*	
46 82 73 00-0026	EA	Torque Limiter (Brunel JSE1-0401)	10,731.96	37.69
		For >5 To 10, Deduct	*-354.86*	
		For >10, Deduct	*-592.51*	
		For Extra Material Parts (No Labor), Add	*10,656.58*	
46 82 73 00-0027	EA	Torque Limiter (Brunel JSE1-0402)	12,696.85	44.86
		For >5 To 10, Deduct	*-419.82*	
		For >10, Deduct	*-700.96*	
		For Extra Material Parts (No Labor), Add	*12,607.11*	
46 82 73 00-0028	EA	Spare Externally Adjustable Safety Elements For All Sizes	3,829.71	
46 82 73 00-0029	EA	Removal And Reinstallation Of Torque Limiter	199.56	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 73 00-0030		**Drive Sprockets Rims** *(46 82 73 00-0001)*		
		Note: Sprocket and rim includes stainless steel hardware.		
46 82 73 00-0031	EA	11 Tooth, Split Or Solid, UHMW Drive Sprocket Rims	454.68	29.92
		For >50 To 100, Deduct	*-13.94*	
		For >100, Deduct	*-24.36*	
		For Extra Material Parts (No Labor), Add	*394.86*	
46 82 73 00-0032	EA	12 Tooth, Split Or Solid, UHMW Drive Sprocket Rims	485.61	29.92
		For >50 To 100, Deduct	*-15.03*	
		For >100, Deduct	*-26.27*	
		For Extra Material Parts (No Labor), Add	*425.79*	
46 82 73 00-0033	EA	13 Tooth, Split Or Solid, UHMW Drive Sprocket Rims	502.26	29.92
		For >50 To 100, Deduct	*-15.62*	
		For >100, Deduct	*-27.30*	
		For Extra Material Parts (No Labor), Add	*442.44*	
46 82 73 00-0034	EA	Polyurethane Segmental Rim Replacement Plate Sprocket Ring Only	1,030.33	29.92
		For >50 To 100, Deduct	*-34.26*	
		For >100, Deduct	*-59.88*	
		For Extra Material Parts (No Labor), Add	*970.51*	
46 82 73 00-0035	EA	UHMW-PE Segmental Rim Replacement Plate Sprocket Ring Only	837.65	29.92
		For >50 To 100, Deduct	*-63.32*	
		For >100, Deduct	*-94.20*	
		For Extra Material Parts (No Labor), Add	*777.83*	
46 82 73 00-0036	EA	Solid Polyurethane Drive Sprocket With Shear Pin Device	4,948.55	29.92
		For >50 To 100, Deduct	*-397.94*	
		For >100, Deduct	*-592.03*	
		For Extra Material Parts (No Labor), Add	*4,888.73*	
46 82 73 00-0037	EA	Solid Polyurethane Drive Sprocket With Shear Pin Device And Alarm Device	5,811.52	29.92
		For >50 To 100, Deduct	*-468.19*	
		For >100, Deduct	*-696.53*	
		For Extra Material Parts (No Labor), Add	*5,751.70*	
46 82 73 00-0038	EA	Cast Nylon NH78, 11 Tooth, Sprocket Segments	670.38	29.92
		For Extra Material Parts (No Labor), Add	*610.56*	
46 82 73 00-0039	EA	Cast Nylon NH78, 12 Tooth, Sprocket Segments	684.78	29.92
		For Extra Material Parts (No Labor), Add	*624.96*	
46 82 73 00-0040	EA	Cast Nylon NH78, 10 Tooth Drive Sprocket Assembly (Hub, Sprocket, Shear Pin)	2,262.64	29.92
		For Extra Material Parts (No Labor), Add	*2,202.82*	
46 82 73 00-0041	EA	Removal And Reinstallation Of Drive Sprocket	89.74	
46 82 73 00-0042		**Driven Sprockets** *(46 82 73 00-0001)*		
46 82 73 00-0043	EA	Cast Iron Driven Sprocket Body For 40 Tooth HB 78 Drive Chain (Cast Iron Driven Sprocket Bodies To Be Primed And Painted. Excludes Segmental Rims)	3,390.61	44.86
		For Extra Material Parts (No Labor), Add	*3,300.87*	
46 82 73 00-0044	EA	Cast Iron Driven Sprocket Body For 43 Tooth HB 78 Drive Chain (Cast Iron Driven Sprocket Bodies To Be Primed And Painted. Excludes Segmental Rims)	3,558.36	44.86
		For Extra Material Parts (No Labor), Add	*3,468.62*	
46 82 73 00-0045	EA	Cast Iron Driven Sprocket Body For 48 Tooth HB 78 Drive Chain (Cast Iron Driven Sprocket Bodies To Be Primed And Painted. Excludes Segmental Rims)	3,798.06	44.86
		For Extra Material Parts (No Labor), Add	*3,708.32*	
46 82 73 00-0046	EA	Split Polyester Driven Sprocket Including Polyester Segmental Teeth	7,405.89	29.92
		For Extra Material Parts (No Labor), Add	*7,346.07*	
46 82 73 00-0047	EA	Polyurethane Segmental Rims For Use With Driven Sprocket Bodies	1,413.47	29.92
		For Extra Material Parts (No Labor), Add	*1,353.65*	
46 82 73 00-0048	EA	UHMW-PE Segmental Rim For Use With Driven Sprocket Bodies	1,413.47	29.92
		For Extra Material Parts (No Labor), Add	*1,353.65*	
46 82 73 00-0049	EA	UHMW-PE HB 78 40 Tooth Segmental Rim For Use With Driven Sprocket Bodies	1,149.79	29.92
		For Extra Material Parts (No Labor), Add	*1,089.97*	
46 82 73 00-0050	EA	UHMW-PE HB 78 43 Tooth Segmental Rim For Use With Driven Sprocket Bodies	1,327.19	29.92
		For Extra Material Parts (No Labor), Add	*1,267.37*	
46 82 73 00-0051	EA	UHMW-PE HB 78 48 Tooth Segmental Rim For Use With Driven Sprocket Bodies	1,365.51	29.92
		For Extra Material Parts (No Labor), Add	*1,305.69*	
46 82 73 00-0052	EA	Cast Nylon NH78 43 Tooth Sprocket Segmental Rims For Use With Drive Sprocket Bodies	2,180.53	29.92
		For Extra Material Parts (No Labor), Add	*2,120.71*	
46 82 73 00-0053	EA	Cast Nylon NH78 48 Tooth Sprocket Segmental Rims For Use With Drive Sprocket Bodies	2,300.37	29.92
		For Extra Material Parts (No Labor), Add	*2,240.55*	
46 82 73 00-0054	EA	Cast Nylon Driven Sprocket, NH78, 40 Tooth, With Keyway	3,697.71	29.92
		For Extra Material Parts (No Labor), Add	*3,637.89*	
46 82 73 00-0055	EA	Removal And Reinstallation Of Driven Sprocket Segmental Rims	89.74	
46 82 73 00-0056	EA	Removal And Reinstallation Of Driven Sprocket Body	89.74	
46 82 73 00-0057	EA	Scrape And Wire Brush Cast Iron Driven Sprocket Body	59.82	
46 82 73 00-0058	EA	Prime And Paint Existing Sprocket Drive Body	48.73	
46 82 73 00-0059		**Idler And Head Sprockets - Hubs** *(46 82 73 00-0001)*		
46 82 73 00-0060	EA	Cast Iron Split Body Sprocket Hubs With 3/4" Web For NCS 720 Or SAV 715 Segments, Plain Bore (Cast Iron Idler Sprocket Hubs - Primed And Painted)	1,759.57	59.82
		For 2 Set Screws Only, Add	*29.25*	
		For Keyway And Set Screws, Add	*38.50*	
		For Extra Material Parts (No Labor), Add	*1,639.92*	
46 82 73 00-0061	EA	Cast Iron Split Body Sprocket Hubs With Heavy 1" Web For NCS 720 Or SAV 715 Segments, Plain Bore (Cast Iron Idler Sprocket Hubs - Primed And Painted)	2,110.62	59.82
		For Keyway And Set Screws, Add	*38.50*	
		For Extra Material Parts (No Labor), Add	*1,990.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 73 00-0062	EA	Cast Iron Split Body Sprocket Hubs For NCS 720, With Plain Bore Or Keyway (Cast Iron Idler Sprocket Hubs - Primed And Painted)	7,360.91	59.82
		For >50 To 100, Deduct	*-719.78*	
		For >100, Deduct	*-1,549.63*	
		For Extra Material Parts (No Labor), Add	*7,241.26*	
46 82 73 00-0063	EA	Fabricated Steel Split Body Sprocket Hubs For NCS 720, With Plain Bore Or Keyway	6,372.18	59.82
		For >50 To 100, Deduct	*-358.27*	
		For >100, Deduct	*-1,338.04*	
		For Extra Material Parts (No Labor), Add	*6,252.53*	
46 82 73 00-0064		**Idler And Head Sprockets - Segmental Rims** *(46 82 73 00-0001)*		
		Note: UHMW segmental rims for use with split body hubs.		
46 82 73 00-0065	EA	UHMW-PE 23 Tooth Segmental Rim With Chainsaver Flange, 22.21" Pitch (For Use With Split Body Hubs)	1,183.85	29.92
		For Extra Material Parts (No Labor), Add	*1,124.03*	
46 82 73 00-0066	EA	UHMW-PE 23 Tooth Segmental Rim With Standard Rim, 22.21" Pitch (For Use With Split Body Hubs)	1,010.85	29.92
		For Extra Material Parts (No Labor), Add	*951.03*	
46 82 73 00-0067	EA	UHMW-PE 23 Tooth Segmental Rim With Standard Rim (For Use With Split Body Hubs)	1,109.66	29.92
		For >50 To 100, Deduct	*-30.00*	
		For >100, Deduct	*-60.00*	
		For Extra Material Parts (No Labor), Add	*1,049.84*	
46 82 73 00-0068	EA	Polyurethane 23 Tooth Segmental Rims With Standard Rim (For Use With Split Body Hubs)	1,307.45	29.92
		For >50 To 100, Deduct	*-30.00*	
		For >100, Deduct	*-60.00*	
		For Extra Material Parts (No Labor), Add	*1,247.63*	
46 82 73 00-0069	EA	Cast Nylon 19 Tooth Segmental Rims With Chainsaver Rims (For Use With Split Body Hubs)	1,282.71	29.92
		For Extra Material Parts (No Labor), Add	*1,222.89*	
46 82 73 00-0070	EA	Cast Nylon 23 Tooth Segmental Rims With Chainsaver Rims (For Use With Split Body Hubs)	1,332.16	29.92
		For Extra Material Parts (No Labor), Add	*1,272.34*	
46 82 73 00-0071		**Idler And Head Sprockets - Split Sprockets** *(46 82 73 00-0001)*		
46 82 73 00-0072	EA	UHM-PE 23 Tooth Split Sprocket With Standard Rim, 21.22" Pitch, Plain Bore	1,185.14	29.92
		For Set Screws Only, Add	*11.00*	
		For Keyway And Set Screws, Add	*25.00*	
		For Extra Material Parts (No Labor), Add	*1,125.32*	
46 82 73 00-0073	EA	UHM-PE 17 Tooth Split Sprocket With Standard Rim, 21.22" Pitch, Plain Bore	1,169.01	29.92
		For Set Screws Only, Add	*11.00*	
		For Keyway And Set Screws, Add	*25.00*	
		For Extra Material Parts (No Labor), Add	*1,109.19*	
46 82 73 00-0074	EA	UHM-PE 23 Tooth Split Sprocket For NCS 720	2,296.20	29.92
		For Keyway, Add	*25.00*	
		For >50 To 100, Deduct	*-48.00*	
		For >100, Deduct	*-90.00*	
		For Extra Material Parts (No Labor), Add	*2,236.38*	
46 82 73 00-0075	EA	Polyurethane 23 Tooth Split Sprocket For NCS 720	3,309.67	29.92
		For Keyway, Add	*25.00*	
		For >50 To 100, Deduct	*-60.00*	
		For >100, Deduct	*-120.00*	
		For Extra Material Parts (No Labor), Add	*3,249.85*	
46 82 73 00-0076	EA	Polyurethane 23 Tooth Split Sprocket For HS 720	2,988.33	29.92
		For Keyway, Add	*25.00*	
		For >50 To 100, Deduct	*-72.00*	
		For >100, Deduct	*-132.00*	
		For Extra Material Parts (No Labor), Add	*2,928.51*	
46 82 73 00-0077	EA	Cast Nylon 23 Tooth Split Sprocket With Chainsaver Rim	1,539.80	29.92
		For Set Screws Only, Add	*17.00*	
		For Keyway And Set Screws, Add	*27.00*	
		For Extra Material Parts (No Labor), Add	*1,479.98*	
46 82 73 00-0078	EA	Cast Nylon 17 Tooth, Solid Sprocket	1,455.76	29.92
		For Extra Material Parts (No Labor), Add	*1,395.94*	
46 82 73 00-0079	EA	Removal And Reinstallation Of Idler Or Head Sprocket Segmental Rims	119.65	
46 82 73 00-0080	EA	Removal And Reinstallation Of Idler Or Head Sprocket Hubs	59.82	
46 82 73 00-0081	EA	Removal And Reinstallation Of Idler Or Head Split Sprocket	59.82	
46 82 73 00-0082	EA	Scrape And Wire Brush Idler Or Head Sprocket Hub	59.82	
46 82 73 00-0083	EA	Prime And Paint Existing Idler Or Head Sprocket Hub	48.73	
46 82 73 00-0084		**Sleeve Bearings** *(46 82 73 00-0001)*		
46 82 73 00-0085	EA	UHMW Sleeve Bearing With SS Clamps	512.96	14.96
		For >50 To 100, Deduct	*-33.47*	
		For >100, Deduct	*-66.95*	
		For Extra Material Parts (No Labor), Add	*483.04*	
46 82 73 00-0086	EA	UHMW 3 15/16" Sleeve Bearings For Use With Cast Nylon Set Collars	643.05	14.96
		For >50 To 100, Deduct	*-42.49*	
		For >100, Deduct	*-84.98*	
		For Extra Material Parts (No Labor), Add	*613.13*	
46 82 73 00-0087	EA	UHMW 4 7/16" Sleeve Bearings For Use With Cast Nylon Set Collars	704.04	14.96
		For >50 To 100, Deduct	*-46.72*	
		For >100, Deduct	*-93.43*	
		For Extra Material Parts (No Labor), Add	*674.12*	
46 82 73 00-0088	EA	UHMW Sleeve Bearing Assembly, 3 15/16" Shaft, Includes 2 Set Collars And Sleeve Bearing	1,054.45	44.86
		For >50 To 100, Deduct	*-66.85*	
		For >100, Deduct	*-133.71*	
		For Extra Material Parts (No Labor), Add	*964.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 73 00-0089	EA	UHMW Sleeve Bearing Assembly, 4 7/16" Shaft, Includes 2 Set Collars And Sleeve Bearing	1,077.90	44.86
		For >50 To 100, Deduct	*-68.48*	
		For >100, Deduct	*-136.96*	
		For Extra Material Parts (No Labor), Add	*988.16*	
46 82 73 00-0090	EA	UHMW PE Static Shaft Only Sleeve Bearing For 7" LTB Sprockets (All Bores)	447.76	14.96
		For >50 To 100, Deduct	*-28.96*	
		For >100, Deduct	*-57.91*	
		For Extra Material Parts (No Labor), Add	*417.84*	
46 82 73 00-0091	EA	UHMW PE Static Shaft Only Sleeve Bearing For 3" LTB Sprockets (All Bores)	317.43	14.96
		For >50 To 100, Deduct	*-19.92*	
		For >100, Deduct	*-39.85*	
		For Extra Material Parts (No Labor), Add	*287.51*	
46 82 73 00-0092	EA	Cast Iron Static Shaft Support Bracket	860.49	14.96
		For >50 To 100, Deduct	*-57.56*	
		For >100, Deduct	*-115.12*	
		For Extra Material Parts (No Labor), Add	*830.57*	
46 82 73 00-0093	EA	Polyurethane Static Shaft Only Sleeve Bearing For 7" LTB Sprockets (All Bores)	1,186.32	14.96
		For >50 To 100, Deduct	*-125.12*	
		For >100, Deduct	*-250.24*	
		For Extra Material Parts (No Labor), Add	*1,156.40*	
46 82 73 00-0094	EA	Removal And Reinstallation Of Sleeve Bearing	47.86	

46 82 73 00-0095 Collector Flights *(46 82 73 00-0001)*

Note: Includes 316 stainless steel hardware.

46 82 73 00-0096	LF	6" Nominal C Channel Fiberglass Flights	37.71	1.56
		For >1,000 To 10,000, Deduct	*-1.92*	
		For >10,000, Deduct	*-3.86*	
		For Extra Material Parts (No Labor), Add	*34.71*	
46 82 73 00-0097	LF	8" Nominal C Channel Fiberglass Flights	42.96	1.56
		For >1,000 To 10,000, Deduct	*-2.21*	
		For >10,000, Deduct	*-4.44*	
		For Extra Material Parts (No Labor), Add	*39.96*	
46 82 73 00-0098	LF	6" Actual C Channel Fiberglass Flights	45.58	1.56
		For >1,000 To 10,000, Deduct	*-2.36*	
		For >10,000, Deduct	*-4.73*	
		For Extra Material Parts (No Labor), Add	*42.58*	
46 82 73 00-0099	LF	8" Actual C Channel Fiberglass Flights	50.81	1.56
		For >1,000 To 10,000, Deduct	*-2.65*	
		For >10,000, Deduct	*-5.31*	
		For Extra Material Parts (No Labor), Add	*47.81*	
46 82 73 00-0100	LF	6" Nominal Sigma Fiberglass Flights	52.12	1.56
		For >1,000 To 10,000, Deduct	*-2.72*	
		For >10,000, Deduct	*-5.46*	
		For Extra Material Parts (No Labor), Add	*49.12*	
46 82 73 00-0101	LF	8" Nominal Sigma Fiberglass Flights	53.45	1.56
		For >1,000 To 10,000, Deduct	*-2.79*	
		For >10,000, Deduct	*-5.60*	
		For Extra Material Parts (No Labor), Add	*50.45*	
46 82 73 00-0102	LF	8" Nominal Sigma Plus Fiberglass Flights	50.81	1.56
		For >1,000 To 10,000, Deduct	*-2.65*	
		For >10,000, Deduct	*-5.31*	
		For Extra Material Parts (No Labor), Add	*47.81*	
46 82 73 00-0103	LF	8" Nominal High Strength Diamond Fiberglass Flights	58.69	1.56
		For >1,000 To 10,000, Deduct	*-3.09*	
		For >10,000, Deduct	*-6.19*	
		For Extra Material Parts (No Labor), Add	*55.69*	
46 82 73 00-0104	LF	6" Nominal Laminated Douglas Fir Flights	67.78	2.27
		For >1,000 To 10,000, Deduct	*-8.38*	
		For >10,000, Deduct	*-12.21*	
		For Extra Material Parts (No Labor), Add	*63.27*	
46 82 73 00-0105	LF	7-1/2" Nominal Laminated Douglas Fir Flights	86.34	2.27
		For >1,000 To 10,000, Deduct	*-10.84*	
		For >10,000, Deduct	*-15.79*	
		For Extra Material Parts (No Labor), Add	*81.83*	
46 82 73 00-0106	LF	3" x 6" Actual Laminated Douglas Fir Flights	93.52	2.27
		For >1,000 To 10,000, Deduct	*-11.79*	
		For >10,000, Deduct	*-17.18*	
		For Extra Material Parts (No Labor), Add	*89.01*	
46 82 73 00-0107	LF	3" x 8" Actual Laminated Douglas Fir Flights	109.65	2.27
		For >1,000 To 10,000, Deduct	*-13.93*	
		For >10,000, Deduct	*-20.29*	
		For Extra Material Parts (No Labor), Add	*105.14*	
46 82 73 00-0108	EA	Removal And Reinstallation Of Fiberglass Or Wood Flights (Remove And Store), Per Flight Note: Including Filler Blocks	59.92	
46 82 73 00-0109	EA	New 316 Stainless Steel Hardware Set For Reinstallation Of One Existing Flight	30.75	
46 82 73 00-0110	LF	Scrape And Wire Brush Existing Flights	4.79	

46 82 73 00-0111 Squeegee *(46 82 73 00-0001)*

46 82 73 00-0112	LF	1/2" x 4" UHMW Flight Squeegee	31.16	1.56
		For Extra Material Parts (No Labor), Add	*28.16*	
46 82 73 00-0113	LF	Buna N Squeegee	29.93	1.56
		For Extra Material Parts (No Labor), Add	*26.93*	
46 82 73 00-0114	EA	Removal And Reinstallation Of Squeegee, Per Flight (Remove And Store)	59.93	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 73 00-0115	EA	New 316 Stainless Steel Hardware Set For Reinstallation Of One Existing Squeegee	27.67	
46 82 73 00-0116	LF	Scrape And Wire Brush Existing Squeegee	4.79	
46 82 73 00-0117		**Filler Blocks** *(46 82 73 00-0001)*		
46 82 73 00-0118	EA	6" Polyurethane Filler Block	22.73	1.56
		For Extra Material Parts (No Labor), Add	*19.74*	
46 82 73 00-0119	EA	8" Polyurethane Filler Block	22.73	1.56
		For Extra Material Parts (No Labor), Add	*19.74*	
46 82 73 00-0120	EA	6" Polypropylene Filler Block	31.34	1.56
		For Extra Material Parts (No Labor), Add	*28.35*	
46 82 73 00-0121	EA	8" Polypropylene Filler Block	31.34	1.56
		For Extra Material Parts (No Labor), Add	*28.35*	
46 82 73 00-0122		**Return Rails** *(46 82 73 00-0001)*		
46 82 73 00-0123	LF	3" x 3" x 3/8" Fiberglass Reinforced Polyester (FRP) Return Rail	70.06	2.99
		For Extra Material Parts (No Labor), Add	*64.08*	
46 82 73 00-0124	LF	3" x 3" x 3/8" Steel Return Rail	71.63	2.99
		For Extra Material Parts (No Labor), Add	*65.65*	
46 82 73 00-0125	LF	3" x 3" x 3/8" Stainless Steel Return Rail	130.15	2.99
		For >1,000 To 10,000, Deduct	*-6.02*	
		For >10,000, Deduct	*-12.09*	
		For Extra Material Parts (No Labor), Add	*124.17*	
46 82 73 00-0126	LF	Non-Metallic "J" Track	79.26	1.56
		For >1,000 To 10,000, Deduct	*-3.70*	
		For >10,000, Deduct	*-7.43*	
		For Extra Material Parts (No Labor), Add	*76.26*	
46 82 73 00-0127	LF	Scrape And Wire Brush Existing Return Rails	4.79	
46 82 73 00-0128		**Return Rails Brackets** *(46 82 73 00-0001)*		
46 82 73 00-0129	EA	Cast Nylon Wall Mounted Bracket For Return Rails	408.25	14.96
		For Extra Material Parts (No Labor), Add	*378.33*	
46 82 73 00-0130	EA	Cast Nylon Intermediate Bracket For Return Rails (T-Up)	564.30	14.96
		For Extra Material Parts (No Labor), Add	*534.38*	
46 82 73 00-0131	EA	Non-Metallic Wall Mounted Bracket For Return Rails	189.91	14.96
		For Extra Material Parts (No Labor), Add	*159.94*	
46 82 73 00-0132	EA	Scrape And Wire Brush Existing Return Rail Bracket	59.93	
46 82 73 00-0133	EA	Prime And Paint Existing Return Rail Bracket	48.74	
46 82 73 00-0134		**Wear Shoes** *(46 82 73 00-0001)*		
		Note: Floor and return. With or without lugs. Includes stainless steel hardware.		
46 82 73 00-0135	EA	3" x 3" x 4" x 1/2" Polyurethane Wear Shoes	94.45	8.97
		For Extra Material Parts (No Labor), Add	*76.50*	
46 82 73 00-0136	EA	3" x 3" x 5-1/2" x 1/2" Polyurethane Wear Shoes	94.45	8.97
		For Extra Material Parts (No Labor), Add	*76.50*	
46 82 73 00-0137	EA	3" x 3" x 4" x 1/2" Nylon Wear Shoes	87.24	8.97
		For Extra Material Parts (No Labor), Add	*69.29*	
46 82 73 00-0138	EA	3" x 3" x 5-1/2" x 1/2" Nylon Wear Shoes	88.24	8.97
		For Extra Material Parts (No Labor), Add	*70.29*	
46 82 73 00-0139	EA	3" x 3" x 7" x 1/2" Nylon Wear Shoes	92.05	8.97
		For Extra Material Parts (No Labor), Add	*74.10*	
46 82 73 00-0140	EA	3" x 3" x 4" x 1/2" UHMW Wear Shoes	93.71	8.97
		For Extra Material Parts (No Labor), Add	*75.76*	
46 82 73 00-0141	EA	3" x 3" x 5-1/2" x 1/2" UHMW Wear Shoes	94.92	8.97
		For Extra Material Parts (No Labor), Add	*76.97*	
46 82 73 00-0142	EA	3" x 3" x 4" x 1/2" Steel Wear Shoes	102.85	8.97
		For Extra Material Parts (No Labor), Add	*84.90*	
46 82 73 00-0143	EA	3" x 3" x 5-1/2" x 1/2" Steel Wear Shoes	107.65	8.97
		For Extra Material Parts (No Labor), Add	*89.70*	
46 82 73 00-0144	EA	3" x 3" x 6" x 1/2" Steel Wear Shoes	110.05	8.97
		For Extra Material Parts (No Labor), Add	*92.10*	
46 82 73 00-0145	EA	3" x 3" x 7" x 1/2" Steel Wear Shoes	111.22	8.97
		For Extra Material Parts (No Labor), Add	*93.27*	
46 82 73 00-0146	EA	Removal And Reinstallation Of Wear Shoe	27.52	
46 82 73 00-0147		**Wear Strips** *(46 82 73 00-0001)*		
		Note: Add 1/4" stainless steel 316 self tapping screws and washers at 2.5' on-center		
46 82 73 00-0148	LF	2-5/8" x 3/8" UHMW Wear Strip	47.44	2.99
		For >1,000 To 5,000, Deduct	*-1.80*	
		For >5,000 LF, Deduct	*-3.51*	
		For Extra Material Parts (No Labor), Add	*41.46*	
46 82 73 00-0149	LF	3" x 3/8" UHMW Wear Strip	57.81	2.99
		For >1,000 To 5,000, Deduct	*-2.25*	
		For >5,000 LF, Deduct	*-4.39*	
		For Extra Material Parts (No Labor), Add	*51.83*	
46 82 73 00-0150	LF	4-1/4" x 3/8" C-Shape UHMW Wear Strip For Floor Or Return Track	81.85	1.79
		For >1,000 To 5,000, Deduct	*-3.40*	
		For >5,000 LF, Deduct	*-6.63*	
		For Extra Material Parts (No Labor), Add	*78.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 73 00-0151	LF	3" x 1/2" Steel Wear Strip	89.23	2.99
		For >1,000 To 5,000, Deduct	*-3.61*	
		For >5,000 LF, Deduct	*-7.05*	
		For Extra Material Parts (No Labor), Add	*83.25*	
46 82 73 00-0152	LF	4" x 1/2" Steel Wear Strip	95.54	2.99
		For >1,000 To 5,000, Deduct	*-3.89*	
		For >5,000 LF, Deduct	*-7.59*	
		For Extra Material Parts (No Labor), Add	*89.56*	
46 82 73 00-0153	LF	5" x 1/2" Steel Wear Strip	101.82	2.99
		For >1,000 To 5,000, Deduct	*-4.16*	
		For >5,000 LF, Deduct	*-8.12*	
		For Extra Material Parts (No Labor), Add	*95.84*	
46 82 73 00-0154	LF	6" x 1/2" Steel Wear Strip	120.70	2.99
		For >1,000 To 5,000, Deduct	*-4.98*	
		For >5,000 LF, Deduct	*-9.72*	
		For Extra Material Parts (No Labor), Add	*114.72*	
46 82 73 00-0155	LF	3" x 5/8" Steel Wear Strip	90.83	2.99
		For >1,000 To 5,000, Deduct	*-3.68*	
		For >5,000 LF, Deduct	*-7.19*	
		For Extra Material Parts (No Labor), Add	*84.85*	
46 82 73 00-0156	LF	4" x 5/8" Steel Wear Strip	97.13	2.99
		For >1,000 To 5,000, Deduct	*-3.96*	
		For >5,000 LF, Deduct	*-7.72*	
		For Extra Material Parts (No Labor), Add	*91.15*	
46 82 73 00-0157	LF	5" x 5/8" Steel Wear Strip	103.44	2.99
		For >1,000 To 5,000, Deduct	*-4.23*	
		For >5,000 LF, Deduct	*-8.25*	
		For Extra Material Parts (No Labor), Add	*97.46*	
46 82 73 00-0158	LF	6" x 5/8" Steel Wear Strip	114.42	2.99
		For >1,000 To 5,000, Deduct	*-4.71*	
		For >5,000 LF, Deduct	*-9.18*	
		For Extra Material Parts (No Labor), Add	*108.44*	
46 82 73 00-0159	LF	Scrape And Brush Existing Wear Strips	4.78	2.40

46 82 73 00-0160 Set Collars *(46 82 73 00-0001)*

46 82 73 00-0161	EA	3-15/16" Split Cast Iron Set Collar, Stainless Steel Hardware, 2 Cone Point Set Screws	386.49	14.96
		For Extra Material Parts (No Labor), Add	*356.57*	
46 82 73 00-0162	EA	4-7/16" Split Cast Iron Set Collar, Stainless Steel Hardware, 2 Cone Point Set Screws	418.93	14.96
		For Extra Material Parts (No Labor), Add	*389.01*	
46 82 73 00-0163	EA	Cast Nylon Set Collar With Hardware, All Bore Sizes	233.25	14.96
		For Extra Material Parts (No Labor), Add	*203.33*	
46 82 73 00-0164	EA	Removal And Reinstallation Of Set Collar	41.87	
46 82 73 00-0165	EA	Scrape And Wire Brush Existing Set Collar	59.82	
46 82 73 00-0166	EA	Prime And Paint Existing Set Collar	48.73	

46 82 73 00-0167 Idler Stub Shafts *(46 82 73 00-0001)*

46 82 73 00-0168	EA	Cast Nylon Idler Stub Shaft Assembly, Mounts To Wall With 3 Or 4 Stainless Steel Anchors Note: Excludes sprocket.	2,748.16	59.82
		For Extra Material Parts (No Labor), Add	*2,628.51*	
46 82 73 00-0169	EA	Cast Nylon Idler Stub Shaft Assembly Note: Excludes sprocket.	1,922.80	59.82
		For >50 To 100, Deduct	*-96.29*	
		For >100, Deduct	*-192.58*	
		For Extra Material Parts (No Labor), Add	*1,803.15*	
46 82 73 00-0170	EA	Fabricated Steel Stub Shaft Assembly Note: Excludes sprocket.	2,812.67	59.82
		For >50 To 100, Deduct	*-143.81*	
		For >100, Deduct	*-287.61*	
		For Extra Material Parts (No Labor), Add	*2,693.02*	
46 82 73 00-0171	EA	Non-Metallic Stub Shaft Assembly Note: Excludes sprocket.	2,812.67	59.82
		For >50 To 100, Deduct	*-143.81*	
		For >100, Deduct	*-287.61*	
		For Extra Material Parts (No Labor), Add	*2,693.02*	
46 82 73 00-0172	EA	Scrape And Wire Brush Stub Shaft Assembly	119.65	

46 82 73 00-0173 Shafts *(46 82 73 00-0001)*

46 82 73 00-0174	LF	4-7/16" Steel Shafts, Plain	246.68	5.98
		For Extra Material Parts (No Labor), Add	*234.71*	
46 82 73 00-0175	LF	4-7/16" Steel Shafts, Keyway, Set Screws	200.01	5.98
		For Extra Material Parts (No Labor), Add	*188.04*	
46 82 73 00-0176	EA	Removal And Reinstallation Of Static Shaft	119.65	
46 82 73 00-0177	EA	Removal And Reinstallation Of Dynamic Shaft	119.65	
46 82 73 00-0178	LF	Scrape And Wire Brush Existing Shaft	17.95	
46 82 73 00-0179	LF	Prime And Paint existing Shaft	11.08	

46 82 73 00-0180 Wall Bearings *(46 82 73 00-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 73 00-0181	EA	3 7/16" Cast Iron Wall Bearings With Solid Bearing Insert, Babbitted Liner And SS Hardware	2,965.99	119.65
		For >100, Deduct	*-120.79*	
		For Polyurethane Liner, Add	*867.09*	
		For Polyurethane Liner, Quantities >100, Add	*620.32*	
		For Extra Material Parts (No Labor), Add	*2,726.70*	
46 82 73 00-0182	EA	4 15/16" Cast Iron Wall Bearings With Solid Bearing Insert, Babbitted Liner And SS Hardware	3,977.23	119.65
		For >100, Deduct	*-165.59*	
		For Polyurethane Liner, Add	*1,760.57*	
		For Polyurethane Liner, Quantities >100, Add	*1,098.95*	
		For Extra Material Parts (No Labor), Add	*3,737.94*	
46 82 73 00-0183	EA	3 7/16" Cast Iron Wall Bearings With Split Bearing Insert, Babbitted Liner And SS Hardware	4,600.93	59.82
		For >100, Deduct	*-198.52*	
		For Polyurethane Liner, Add	*748.37*	
		For Polyurethane Liner, Quantities >100, Add	*371.95*	
		For Extra Material Parts (No Labor), Add	*4,481.28*	
46 82 73 00-0184	EA	4 15/16" Cast Iron Wall Bearings With Split Bearing Insert, Babbitted Liner And SS Hardware	8,308.75	59.82
		For >100, Deduct	*-362.78*	
		For Polyurethane Liner, Add	*1,424.90*	
		For Polyurethane Liner, Quantities >100, Add	*712.45*	
		For Extra Material Parts (No Labor), Add	*8,189.10*	
46 82 73 00-0185	EA	3 7/16" Cast Iron Wall Bearings With Two-piece Bearing Insert, Babbitted Liner And SS Hardware	4,204.79	89.74
		For >100, Deduct	*-178.32*	
		For Polyurethane Liner, Add	*1,207.60*	
		For Polyurethane Liner, Quantities >100, Add	*603.80*	
		For Extra Material Parts (No Labor), Add	*4,025.33*	
46 82 73 00-0186	EA	4 15/16" Cast Iron Wall Bearings With Two-piece Bearing Insert, Babbitted Liner And SS Hardware	4,373.35	89.74
		For >100, Deduct	*-185.79*	
		For Polyurethane Liner, Add	*998.15*	
		For Polyurethane Liner, Quantities >100, Add	*398.42*	
		For Extra Material Parts (No Labor), Add	*4,193.89*	
46 82 73 00-0187	EA	3 15/16" Cast Iron Wall Bearings With Split Bearing Insert, Babbitted Liner And SS Hardware	1,787.87	59.82
		For UHMW-PE Liners, Add	*542.17*	
		For Extra Material Parts (No Labor), Add	*1,668.23*	
46 82 73 00-0188	EA	4 7/16" Cast Iron Wall Bearings With Split Bearing Insert, Babbitted Liner And SS Hardware	1,827.21	59.82
		For UHMW-PE Liners, Add	*554.96*	
		For Extra Material Parts (No Labor), Add	*1,707.57*	
46 82 73 00-0189	EA	Removal And Reinstallation Of Wall Bearing Or Bracket	239.27	
46 82 73 00-0190	EA	Scrape And Wire Brush Existing Wall Bearing Or Bracket	119.64	
46 82 73 00-0191	EA	Prime And Paint Wall Bearing Or Bracket	48.73	

46 82 76 Water Treatment Flame Arrestors *(46 82)*

46 82 76 00-0001 Flame Arrestors And Traps *(46 82 76)*

46 82 76 00-0002 Shand And Jurs Wastewater Equipment *(46 82 76 00-0001)*

46 82 76 00-0003 Flanged Vertical Flame Arrestors *(46 82 76 00-0002)*

Note: Shand And Jurs 94309.

46 82 76 00-0004	EA	2" Vertical Flame Arrestor, Flanged, 316 Stainless Steel Body And Tube Bank	16,745.96	173.28
46 82 76 00-0005	EA	4" Vertical Flame Arrestor, Flanged, 316 Stainless Steel Body And Tube Bank	21,453.85	370.46
46 82 76 00-0006	EA	6" Vertical Flame Arrestor, Flanged, 316 Stainless Steel Body And Tube Bank	24,725.08	467.96
46 82 76 00-0007	EA	8" Vertical Flame Arrestor, Flanged, 316 Stainless Steel Body And Tube Bank	29,603.49	597.95
46 82 76 00-0008	EA	12" Vertical Flame Arrestor, Flanged, 316 Stainless Steel Body And Tube Bank	31,256.34	868.58

46 82 76 00-0009 Flanged Combination Conservation Valve And Flame Arrestors *(46 82 76 00-0002)*

Note: Shand And Jurs 97570.

46 82 76 00-0010	EA	2" 316 Stainless Steel Combination Conservation Valve And Flame Arrestor, Flanged	4,414.57	173.28
46 82 76 00-0011	EA	3" 316 Stainless Steel Combination Conservation Valve And Flame Arrestor, Flanged	6,048.71	220.98
46 82 76 00-0012	EA	4" 316 Stainless Steel Combination Conservation Valve And Flame Arrestor, Flanged	7,023.50	370.46
46 82 76 00-0013	EA	6" 316 Stainless Steel Combination Conservation Valve And Flame Arrestor, Flanged	10,819.47	467.96
46 82 76 00-0014	EA	8" 316 Stainless Steel Combination Conservation Valve And Flame Arrestor, Flanged	14,648.40	597.95
46 82 76 00-0015	EA	10" 316 Stainless Steel Combination Conservation Valve And Flame Arrestor, Flanged	18,751.07	727.93
46 82 76 00-0016	EA	12" 316 Stainless Steel Combination Conservation Valve And Flame Arrestor, Flanged	27,320.79	868.58

46 82 76 00-0017 Drip Traps *(46 82 76 00-0002)*

Note: Shand And Jurs 97100.

46 82 76 00-0018	EA	6 Quart Drip Trap Without Actuator	3,475.14	779.92
46 82 76 00-0019	EA	6 Quart Drip Trap With Actuator	12,054.64	779.92

46 82 76 00-0020 Sediment Traps *(46 82 76 00-0002)*

Note: Shand And Jurs 97120.

46 82 76 00-0021	EA	2" Sediment Trap, Hot Dipped Galvanized	7,076.80	389.97
46 82 76 00-0022	EA	3" Sediment Trap, Hot Dipped Galvanized	7,993.90	454.96
46 82 76 00-0023	EA	4" Sediment Trap, Hot Dipped Galvanized	8,648.63	519.95
46 82 76 00-0024	EA	6" Sediment Trap, Hot Dipped Galvanized	9,433.35	649.94
46 82 76 00-0025	EA	8" Sediment Trap, Hot Dipped Galvanized	15,203.09	779.92
46 82 76 00-0026	EA	10" Sediment Trap, Hot Dipped Galvanized	20,710.47	909.91
46 82 76 00-0027	EA	12" Sediment Trap, Hot Dipped Galvanized	24,869.90	1,021.85

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 76 00-0028		Flame Trap Assembly With Mounting Hardware *(46 82 76 00-0002)*		
		Note: Shand And Jurs 97140.		
46 82 76 00-0029	EA	2" Stainless Steel Flame Trap Assembly With Mounting Hardware	7,076.80	389.97
46 82 76 00-0030	EA	3" Stainless Steel Flame Trap Assembly With Mounting Hardware	8,781.01	454.96
46 82 76 00-0031	EA	4" Stainless Steel Flame Trap Assembly With Mounting Hardware	10,747.59	519.95
46 82 76 00-0032	EA	6" Stainless Steel Flame Trap Assembly With Mounting Hardware	13,631.27	649.94
46 82 76 00-0033	EA	8" Stainless Steel Flame Trap Assembly With Mounting Hardware	22,024.71	779.92
46 82 76 00-0034	EA	10" Stainless Steel Flame Trap Assembly With Mounting Hardware	31,992.38	909.91
46 82 76 00-0035	EA	12" Stainless Steel Flame Trap Assembly With Mounting Hardware	39,562.62	1,021.85
46 82 76 00-0036		Pressure Relief/Flame Trap Assembly *(46 82 76 00-0002)*		
		Note: Shand And Jurs 97160.		
46 82 76 00-0037	EA	2" Stainless Steel Pressure Relief/Flame Trap Assembly	12,324.20	389.97
46 82 76 00-0038	EA	3" Stainless Steel Pressure Relief/Flame Trap Assembly	13,766.04	454.96
46 82 76 00-0039	EA	4" Stainless Steel Pressure Relief/Flame Trap Assembly	15,470.25	519.95
46 82 76 00-0040	EA	6" Stainless Steel Pressure Relief/Flame Trap Assembly	20,715.26	649.94
46 82 76 00-0041	EA	8" Stainless Steel Pressure Relief/Flame Trap Assembly	28,583.96	779.92
46 82 76 00-0042	EA	10" Stainless Steel Pressure Relief/Flame Trap Assembly	54,556.20	909.91
46 82 76 00-0043	EA	12" Stainless Steel Pressure Relief/Flame Trap Assembly	75,769.68	1,021.85
46 82 76 00-0044		Flame Check *(46 82 76 00-0002)*		
		Note: Shand And Jurs 97200.		
46 82 76 00-0045	EA	1/4" Flame Check, Aluminum	917.10	64.99
46 82 76 00-0046	EA	1/2" Flame Check, Aluminum	1,153.23	64.99
46 82 76 00-0047	EA	3/4" Flame Check, Aluminum	1,179.47	64.99
46 82 76 00-0048	EA	1" Flame Check, Aluminum	1,258.18	64.99
46 82 76 00-0049	EA	1-1/2" Flame Check, Aluminum	1,349.41	97.49
46 82 76 00-0050	EA	2" Flame Check, Aluminum	1,428.12	97.49
46 82 76 00-0051	EA	1/4" Flame Check, Stainless Steel	1,113.88	64.99
46 82 76 00-0052	EA	1/2" Flame Check, Stainless Steel	1,389.37	64.99
46 82 76 00-0053	EA	3/4" Flame Check, Stainless Steel	1,441.84	64.99
46 82 76 00-0054	EA	1" Flame Check, Stainless Steel	1,520.55	64.99
46 82 76 00-0055	EA	1-1/2" Flame Check, Stainless Steel	1,638.02	97.49
46 82 76 00-0056	EA	2" Flame Check, Stainless Steel	1,742.96	97.49
46 82 76 00-0057		Varec Wastewater Equipment *(46 82 76 00-0001)*		
46 82 76 00-0058		Pressure And Vacuum Relief Valves With Flame Arrester *(46 82 76 00-0057)*		
46 82 76 00-0059		Pressure And Vacuum Relief Valves With Flame Arrester *(46 82 76 00-0058)*		
		Note: Aluminum housings and bank assembly frame, stainless steel internals and bank assembly sheets. Please provide pressure and vacuum settings at time of order, not to exceed 27.70" wc.		
46 82 76 00-0060	EA	2" Relief Valve With Flame Arrester (Varec 5811B-X-2-S)	11,196.47	173.31
46 82 76 00-0061	EA	3" Relief Valve With Flame Arrester (Varec 5811B-X-3-S)	12,209.10	221.25
46 82 76 00-0062	EA	4" Relief Valve With Flame Arrester (Varec 5811B-X-4-S)	16,105.57	371.39
46 82 76 00-0063	EA	6" Relief Valve With Flame Arrester (Varec 5811B-X-6-S)	19,879.52	459.84
46 82 76 00-0064	EA	8" Relief Valve With Flame Arrester (Varec 5811B-X-8-S)	40,788.35	594.22
46 82 76 00-0065	EA	10" Relief Valve With Flame Arrester (Varec 5811B-X-0-S)	52,827.81	727.93
46 82 76 00-0066	EA	12" Relief Valve With Flame Arrester (Varec 5811B-X-1-S)	79,600.10	882.34
46 82 76 00-0067		Insulating Jackets For 5811B Relief Valve With Flame Arrester *(46 82 76 00-0058)*		
		Note: Provides additional cold weather protection. Constructed of silicone impregnated woven glass cloth lining with a 1" thick, 6 Lb. density fiberglass insulating material.		
46 82 76 00-0068	EA	2" Insulating Jackets For 5811B Relief Valve With Flame Arrester (Varec VB05.1185.141)	5,806.82	89.16
46 82 76 00-0069	EA	3" Insulating Jackets For 5811B Relief Valve With Flame Arrester (Varec VB05.1185.142)	6,650.25	93.86
46 82 76 00-0070	EA	4" Insulating Jackets For 5811B Relief Valve With Flame Arrester (Varec VB05.1185.143)	7,543.70	98.79
46 82 76 00-0071	EA	6" Insulating Jackets For 5811B Relief Valve With Flame Arrester (Varec VB05.1185.144)	9,049.93	103.99
46 82 76 00-0072	EA	8" Insulating Jackets For 5811B Relief Valve With Flame Arrester (Varec VB05.1185.145)	11,333.55	109.19
46 82 76 00-0073	EA	10" Insulating Jackets For 5811B Relief Valve With Flame Arrester (Varec VB05.1185.146)	12,936.94	114.65
46 82 76 00-0074	EA	12" Insulating Jackets For 5811B Relief Valve With Flame Arrester (Varec VB05.1185.147)	16,409.50	120.38
46 82 76 00-0075		Pressure And Vacuum Relief Valves *(46 82 76 00-0057)*		
46 82 76 00-0076		Pressure And Vacuum Relief Valves *(46 82 76 00-0075)*		
		Note: Vent-to-atmosphere, all-weather type, aluminum boyd and trip, teflon valve seat insert, flat faced flange with 125 Lb. ASA drilling. Standard service. Please provide pressure and vacuum setting at time of order. Not to exceed 27.70" wc.		
46 82 76 00-0077	EA	2" Pressure And Vacuum Relief Valve (Varec 2011B-X-2-T-FF-OP-02-02)	4,412.27	173.31
46 82 76 00-0078	EA	3" Pressure And Vacuum Relief Valve (Varec 2011B-X-3-T-FF-OP-02-02)	4,985.20	221.25
46 82 76 00-0079	EA	4" Pressure And Vacuum Relief Valve (Varec 2011B-X-4-T-FF-OP-02-02)	6,232.89	371.39
46 82 76 00-0080	EA	6" Pressure And Vacuum Relief Valve (Varec 2011B-X-6-T-FF-OP-02-02)	9,192.90	469.63
46 82 76 00-0081	EA	8" Pressure And Vacuum Relief Valve (Varec 2011B-X-8-T-FF-OP-02-02)	11,536.77	594.22
46 82 76 00-0082	EA	10" Pressure And Vacuum Relief Valve (Varec 2011B-X-0-T-FF-OP-02-02)	16,302.59	727.93
46 82 76 00-0083	EA	12" Pressure And Vacuum Relief Valve (Varec 2011B-X-1-T-FF-OP-02-02)	25,716.56	882.34

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 76 00-0084		**Insulating Jackets For 2011B Relief Valve With Flame Arrester** *(46 82 76 00-0075)* Note: Provides additional cold weather protection. Constructed of silicone impregnated woven glass cloth lining with a 1" thick, 6 Lb. density fiberglass insulating material.		
46 82 76 00-0085	EA	2" Insulating Jackets For 2011B Relief Valve With Flame Arrester (Varec VB05.1185.148)	3,529.71	89.16
46 82 76 00-0086	EA	3" Insulating Jackets For 2011B Relief Valve With Flame Arrester (Varec VB05.1185.149)	4,038.12	93.86
46 82 76 00-0087	EA	4" Insulating Jackets For 2011B Relief Valve With Flame Arrester (Varec VB05.1185.150)	4,575.61	98.79
46 82 76 00-0088	EA	6" Insulating Jackets For 2011B Relief Valve With Flame Arrester (Varec VB05.1185.151)	5,479.86	103.99
46 82 76 00-0089	EA	8" Insulating Jackets For 2011B Relief Valve With Flame Arrester (Varec VB05.1185.152)	6,857.85	109.19
46 82 76 00-0090	EA	10" Insulating Jackets For 2011B Relief Valve With Flame Arrester (Varec VB05.1185.153)	7,820.03	114.65
46 82 76 00-0091	EA	12" Insulating Jackets For 2011B Relief Valve With Flame Arrester (Varec VB05.1185.154)	9,905.35	120.38
46 82 76 00-0092		**Flame Arresters** *(46 82 76 00-0057)*		
46 82 76 00-0093		**Flame Arresters** *(46 82 76 00-0092)* Note: Vertical installation, Aluminum housing, Aluminum extensible bank assembly frame and stainless steel sheets, stainless steel hardware. ANSI class 125 Lb. flat face flanged ends.		
46 82 76 00-0094	EA	2" Flame Arrester (Varec 5000-X-2-S)	6,330.80	173.31
46 82 76 00-0095	EA	3" Flame Arrester (Varec 5000-X-3-S)	6,689.11	221.25
46 82 76 00-0096	EA	4" Flame Arrester (Varec 5000-X-4-S)	9,258.56	371.39
46 82 76 00-0097	EA	6" Flame Arrester (Varec 5000-X-6-S)	15,359.40	469.63
46 82 76 00-0098	EA	8" Flame Arrester (Varec 5000-X-8-S)	27,562.84	594.22
46 82 76 00-0099	EA	10" Flame Arrester (Varec 5000-X-0-S)	34,302.15	727.93
46 82 76 00-0100	EA	12" Flame Arrester (Varec 5000-X-1-S)	50,455.83	882.34
46 82 76 00-0101		**Insulating Jackets For 5000 Flame Arrester** *(46 82 76 00-0092)* Note: Provides additional cold weather protection. Constructed of silicone impregnated woven glass cloth lining with a 1" thick, 6 Lb. density fiberglass insulating material.		
46 82 76 00-0102	EA	2" Insulating Jackets For 5000 Flame Arrester (Varec VB05.1185.158)	2,391.18	89.16
46 82 76 00-0103	EA	3" Insulating Jackets For 5000 Flame Arrester (Varec VB05.1185.159)	2,732.06	93.86
46 82 76 00-0104	EA	4" Insulating Jackets For 5000 Flame Arrester (Varec VB05.1185.160)	3,091.58	98.79
46 82 76 00-0105	EA	6" Insulating Jackets For 5000 Flame Arrester (Varec VB05.1185.161)	3,700.06	103.99
46 82 76 00-0106	EA	8" Insulating Jackets For 5000 Flame Arrester (Varec VB05.1185.162)	4,614.80	109.19
46 82 76 00-0107	EA	10" Insulating Jackets For 5000 Flame Arrester (Varec VB05.1185.163)	5,262.86	114.65
46 82 76 00-0108	EA	12" Insulating Jackets For 5000 Flame Arrester (Varec VB05.1185.164)	6,654.60	120.38
46 82 76 00-0109		**Flame Trap Assembly** *(46 82 76 00-0057)*		
46 82 76 00-0110		**Flame Trap Assembly** *(46 82 76 00-0109)* Note: Thermal shut-off valve mounted to a 5010 series flame arrester. 356HT low copper aluminum valve body and flame arrester housing. Aluminum frame with stainless steel sheets. Flame arrester element, 260F. Units to be mounted horizontally.		
46 82 76 00-0111	EA	2" Flame Trap Assembly (Varec 450-02-2-1-S)	11,256.07	346.64
46 82 76 00-0112	EA	3" Flame Trap Assembly (Varec 450-03-2-1-S)	12,276.28	442.52
46 82 76 00-0113	EA	4" Flame Trap Assembly (Varec 450-04-2-1-S)	15,931.19	742.79
46 82 76 00-0114	EA	6" Flame Trap Assembly (Varec 450-06-2-1-S)	25,198.81	939.26
46 82 76 00-0115	EA	8" Flame Trap Assembly (Varec 450-08-2-1-S)	39,630.95	1,188.47
46 82 76 00-0116	EA	10" Flame Trap Assembly (Varec 450-10-2-1-S)	58,590.31	1,455.86
46 82 76 00-0117	EA	12" Flame Trap Assembly (Varec 450-12-2-1-S)	81,467.27	1,764.69
46 82 76 00-0118		**Insulating Jacket For 450 Assembly** *(46 82 76 00-0109)*		
46 82 76 00-0119	EA	2" Insulating Jacket For 450 Assembly (Varec VB05.1185.230)	3,621.32	89.16
46 82 76 00-0120	EA	3" Insulating Jacket For 450 Assembly (Varec VB05.1185.231)	4,184.70	93.86
46 82 76 00-0121	EA	4" Insulating Jacket For 450 Assembly (Varec VB05.1185.232)	4,900.16	98.79
46 82 76 00-0122	EA	6" Insulating Jacket For 450 Assembly (Varec VB05.1185.233)	6,005.95	103.99
46 82 76 00-0123	EA	8" Insulating Jacket For 450 Assembly (Varec VB05.1185.234)	7,904.80	109.19
46 82 76 00-0124	EA	10" Insulating Jacket For 450 Assembly (Varec VB05.1185.235)	9,497.75	114.65
46 82 76 00-0125	EA	12" Insulating Jacket For 450 Assembly (Varec VB05.1185.236)	11,687.77	120.38
46 82 76 00-0126		**Pressure Relief Assembly** *(46 82 76 00-0057)*		
46 82 76 00-0127		**Pressure Relief Assembly** *(46 82 76 00-0126)*		
46 82 76 00-0128	EA	2" 2" WC To 12" WC, Pressure Relief Assembly (Varec 440 02 1 2 S 1)	21,809.24	346.64
46 82 76 00-0129	EA	3" 2" WC To 12" WC, Pressure Relief Assembly (Varec 440 03 1 2 S 1)	23,795.27	442.52
46 82 76 00-0130	EA	4" 2" WC To 12" WC, Pressure Relief Assembly (Varec 440 04 1 2 S 1)	26,861.26	742.79
46 82 76 00-0131	EA	6" 2" WC To 12" WC, Pressure Relief Assembly (Varec 440 06 1 2 S 1)	38,193.98	939.26
46 82 76 00-0132	EA	8" 2" WC To 12" WC, Pressure Relief Assembly (Varec 440 08 1 2 S 1)	54,691.21	1,188.47
46 82 76 00-0133	EA	10" 2" WC To 7" WC, Pressure Relief Assembly (Varec 440 10 1 2 S 1)	95,228.06	1,455.86
46 82 76 00-0134	EA	12" 2" WC To 7" WC, Pressure Relief Assembly (Varec 440 12 1 2 S 1)	129,074.39	1,764.69
46 82 76 00-0135		**Insulating Jackets For 440 Assembly** *(46 82 76 00-0126)*		
46 82 76 00-0136	EA	2" Insulating Jackets For 440 Assembly (Varec VB05.1185.220)	10,188.28	89.16
46 82 76 00-0137	EA	3" Insulating Jackets For 440 Assembly (Varec VB05.1185.221)	11,170.42	93.86
46 82 76 00-0138	EA	4" Insulating Jackets For 440 Assembly (Varec VB05.1185.222)	12,207.83	98.79
46 82 76 00-0139	EA	6" Insulating Jackets For 440 Assembly (Varec VB05.1185.223)	13,868.49	103.99
46 82 76 00-0140	EA	8" Insulating Jackets For 440 Assembly (Varec VB05.1185.224)	16,599.68	109.19

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 76 00-0141	EA	10" Insulating Jackets For 440 Assembly (Varec VB05.1185.225)	20,888.48	114.65
46 82 76 00-0142	EA	12" Insulating Jackets For 440 Assembly (Varec VB05.1185.226)	22,717.32	120.38
46 82 76 00-0143		Manhole And Inspection Covers *(46 82 76 00-0057)*		
46 82 76 00-0144		Manhole And Inspection Covers *(46 82 76 00-0143)* Note: Aluminum base and cover, flax gasket.		
46 82 76 00-0145	EA	18" Manhole And Inspection Cover (Varec 220 18 11)	8,489.68	291.17
46 82 76 00-0146	EA	20" Manhole And Inspection Cover (Varec 220 20 11)	9,870.32	363.97
46 82 76 00-0147	EA	24" Manhole And Inspection Cover (Varec 220 24 11)	11,744.26	441.96
46 82 76 00-0148	EA	30" Manhole And Inspection Cover (Varec 220 30 11)	18,637.77	514.75
46 82 76 00-0149	EA	36" Manhole And Inspection Cover (Varec 220 36 11)	21,728.19	566.75
46 82 76 00-0150		Replacement Flax Gaskets For 220 Manway *(46 82 76 00-0143)*		
46 82 76 00-0151	EA	18" Replacement Flax Gasket For 220 Manway (Varec R9000273-18)	1,545.82	
46 82 76 00-0152	EA	20" Replacement Flax Gasket For 220 Manway (Varec R9000273-20)	1,553.62	
46 82 76 00-0153	EA	24" Replacement Flax Gasket For 220 Manway (Varec R9000273-24)	1,669.11	
46 82 76 00-0154	EA	30" Replacement Flax Gasket For 220 Manway (Varec R9000273-30)	2,057.23	
46 82 76 00-0155	EA	36" Replacement Flax Gasket For 220 Manway (Varec R9000273-36)	2,427.45	
46 82 76 00-0156		Sampling And Gauging Hatch Cover *(46 82 76 00-0057)*		
46 82 76 00-0157		Sampling And Gauging Hatch Covers *(46 82 76 00-0156)* Note: 356 HT low copper aluminum, buna-n gasket, lockable handwheel and safetly lever. ANSI class 125 LB flat faced flange.		
46 82 76 00-0158	EA	4" Sampling And Gauging Hatch Cover (Varec 42 411BA)	2,063.23	67.60
46 82 76 00-0159	EA	6" Sampling And Gauging Hatch Cover (Varec 42 611BA)	2,244.86	99.83
46 82 76 00-0160	EA	8" Sampling And Gauging Hatch Cover (Varec 42 811BA)	2,566.62	118.54
46 82 76 00-0161	EA	10" Sampling And Gauging Hatch Cover (Varec 42 011BA)	3,722.03	138.30
46 82 76 00-0162		Replacement Buna-N Gasket For 42 Cover *(46 82 76 00-0156)*		
46 82 76 00-0163	EA	4" Replacement Buna-N Gasket For 42 Cover (Varec B6017-075)	473.22	
46 82 76 00-0164	EA	6" Replacement Buna-N Gasket For 42 Cover (Varec B6018-075)	563.48	
46 82 76 00-0165	EA	8" Replacement Buna-N Gasket For 42 Cover (Varec B6029-075)	601.60	
46 82 76 00-0166	EA	10" Replacement Buna-N Gasket For 42 Cover (Varec B6030-075)	639.95	
46 82 76 00-0167		Emergency Relief Manhole Covers *(46 82 76 00-0057)* Note: Aluminum base and cover, ANSI 150 Lb. flat faced flange connection. Please provide pressure and vacuum settings at time of order.		
46 82 76 00-0168	EA	1.6" WC To 6.4" WC, 24" Emergency Relief Manhole Cover (Varec 400W 24 11 0 1 1 F)	40,393.37	441.96
46 82 76 00-0169	EA	6.5" WC To 16.3" WC, 24" Emergency Relief Manhole Cover (Varec 400W 24 11 1 1 1 F)	42,025.65	441.96
46 82 76 00-0170	EA	16.4" WC To 22.7" WC, 24" Emergency Relief Manhole Cover (Varec 400W 24 11 2 1 1 F)	42,280.26	441.96
46 82 76 00-0171		Replacement Flame Arrester Kits *(46 82 76 00-0057)* Note: Replacement flame arrester bank assemblies with replacement cover gasket. Aluminum bank frame with stainless steel sheets.		
46 82 76 00-0172	EA	2" Replacement Flame Arrester Kit (Varec 5000.ALSS.KIT.2)	3,729.14	173.31
46 82 76 00-0173	EA	3" Replacement Flame Arrester Kit (Varec 5000.ALSS.KIT.3)	3,916.79	221.25
46 82 76 00-0174	EA	4" Replacement Flame Arrester Kit (Varec 5000.ALSS.KIT.4)	5,449.66	371.39
46 82 76 00-0175	EA	6" Replacement Flame Arrester Kit (Varec 5000.ALSS.KIT.6)	9,048.57	469.63
46 82 76 00-0176	EA	8" Replacement Flame Arrester Kit (Varec 5000.ALSS.KIT.8)	16,211.26	594.22
46 82 76 00-0177	EA	10" Replacement Flame Arrester Kit (Varec 5000.ALSS.KIT.10)	20,147.89	727.93
46 82 76 00-0178	EA	12" Replacement Flame Arrester Kit (Varec 5000.ALSS.KIT.12)	29,642.86	882.34
46 82 76 00-0179		Safety Selector Valve *(46 82 76 00-0057)*		
46 82 76 00-0180	EA	Safety Selector Valve, Stainless Steel Body (Varec SVR-2405B-ASTO)	62,638.95	1,021.85
46 82 76 00-0181	EA	Insulating Jacket For Safety Selector Valve (Varec VB05.1185.260)	8,829.60	64.99
46 82 76 00-0182		Condensate And Sediment Traps *(46 82 76 00-0057)*		
46 82 76 00-0183		Condensate And Sediment Traps *(46 82 76 00-0182)*		
46 82 76 00-0184	EA	6" Condensate And Sediment Trap, Stainless Steel Body (Varec 23306FS)	21,944.43	638.66
46 82 76 00-0185		Accessories For Condensate And Sediment Traps *(46 82 76 00-0182)*		
46 82 76 00-0186	EA	2-1/2 Quart Capacity, Manual Operation, Low Pressure Drip Trap (Varec 246 2)	2,395.38	64.99
46 82 76 00-0187	EA	6 Quart Capacity, Manual Operation, Low Pressure Drip Trap (Varec 246 6)	2,943.45	81.24
46 82 76 00-0188	EA	2-1/2 Quart Capacity, Electric Actuator, Low Pressure Drip Trap (Varec 246 AT 2)	18,221.65	129.99
46 82 76 00-0189	EA	6 Quart Capacity, Electric Actuator, Low Pressure Drip Trap (Varec 246 AT 6) Note: 356-T6 low copper cast aluminum body, cover plate, disc and handle. 1" NPT inlet and outlet connections. Explosion proof actuator with NEMA 7 timer.	20,354.52	146.23
46 82 76 00-0190	EA	1/2" Sight Glass Assembly With Bronze Valves (Varec 218)	715.87	64.99
46 82 76 00-0191	EA	1/2" Sight Glass Assembly With Stainless Steel Valves (Varec 218)	4,395.17	64.99

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 76 00-0192	EA	Insulating Jacket For Automatic Low Pressure Drip Trap (Varec VB05.1185.248)	2,925.32	103.99
46 82 76 00-0193	EA	Insulating Jacket For Timer Enclosure (Varec VB05.1185.256)	1,428.20	103.99
46 82 76 00-0194	EA	Spare Parts Kit For 6 Quart Automatic Low Pressure Drip Trap (Varec 246AT.PM.KIT)	3,279.56	

46 82 76 00-0195 Replacement Parts *(46 82 76 00-0057)*

46 82 76 00-0196 Replacement Seat Rings For Pressure/Vacuum Relief Valve *(46 82 76 00-0195)*

Note: Stainless steel construction. Same for both pressure side and vacuum side.

46 82 76 00-0197	EA	2" Replacement Seat Rings For Pressure/Vacuum Relief Valve (Varec 02-10438-006-1)	1,190.01	
46 82 76 00-0198	EA	3" Replacement Seat Rings For Pressure/Vacuum Relief Valve (Varec 02-10251-006-1)	1,353.56	
46 82 76 00-0199	EA	4" Replacement Seat Rings For Pressure/Vacuum Relief Valve (Varec 02-05464-006-1)	1,486.02	
46 82 76 00-0200	EA	6" Replacement Seat Rings For Pressure/Vacuum Relief Valve (Varec 02-05478-006-1)	2,197.24	
46 82 76 00-0201	EA	8" Replacement Seat Rings For Pressure/Vacuum Relief Valve (Varec 02-05482-006-1)	2,906.24	
46 82 76 00-0202	EA	10" Replacement Seat Rings For Pressure/Vacuum Relief Valve (Varec 02-05487-006-1)	3,839.72	
46 82 76 00-0203	EA	12" Replacement Seat Rings For Pressure/Vacuum Relief Valve (Varec 02-05499-006-1)	4,775.51	

46 82 76 00-0204 Replacement Pallet Assembly For Pressure Side Only *(46 82 76 00-0195)*

Note: Stainless steel construction.

46 82 76 00-0205	EA	2" Replacement Pallet Assembly For Pressure Side Only (Varec 06-11485-306-1)	2,181.99	
46 82 76 00-0206	EA	3" Replacement Pallet Assembly For Pressure Side Only (Varec 06-11485-406-1)	2,659.62	
46 82 76 00-0207	EA	4" Replacement Pallet Assembly For Pressure Side Only (Varec 06-11485-506-1)	2,941.26	
46 82 76 00-0208	EA	6" Replacement Pallet Assembly For Pressure Side Only (Varec 06-11485-606-1)	4,398.44	
46 82 76 00-0209	EA	8" Replacement Pallet Assembly For Pressure Side Only (Varec 06-11485-706-1)	5,855.99	
46 82 76 00-0210	EA	10" Replacement Pallet Assembly For Pressure Side Only (Varec 06-11485-806-1)	7,801.93	
46 82 76 00-0211	EA	12" Replacement Pallet Assembly For Pressure Side Only (Varec 06-11485-906-1)	9,748.48	

46 82 76 00-0212 Replacement Pallet Assembly For Vacuum Side Only *(46 82 76 00-0195)*

Note: Stainless steel construction.

46 82 76 00-0213	EA	2" Replacement Pallet Assembly For Vacuum Side Only (Varec 06-11485-106-1)	2,181.99	
46 82 76 00-0214	EA	3" Replacement Pallet Assembly For Vacuum Side Only (Varec 06-11485-206-1)	2,659.62	
46 82 76 00-0215	EA	4" Replacement Pallet Assembly For Vacuum Side Only (Varec 06-11485-006-1)	2,941.26	
46 82 76 00-0216	EA	6" Replacement Pallet Assembly For Vacuum Side Only (Varec 06-11485-606-1)	4,398.44	
46 82 76 00-0217	EA	8" Replacement Pallet Assembly For Vacuum Side Only (Varec 06-11485-706-1)	5,855.99	
46 82 76 00-0218	EA	10" Replacement Pallet Assembly For Vacuum Side Only (Varec 06-11485-806-1)	7,801.93	
46 82 76 00-0219	EA	12" Replacement Pallet Assembly For Vacuum Side Only (Varec 06-11485-906-1)	9,748.48	

46 82 76 00-0220 Replacement Fuses For Thermal Shut Off Valve *(46 82 76 00-0195)*

46 82 76 00-0221	EA	Up To 4", Replacement Fuses For Thermal Shut Off Valve (Varec B2844-061)	172.11	
46 82 76 00-0222	EA	>4", Replacement Fuses For Thermal Shut Off Valve (Varec 02-10330-061)	179.27	

46 82 76 00-0223 Replacement Fuse For 440 Assembly *(46 82 76 00-0195)*

46 82 76 00-0224	EA	Fuse For 440 Assembly (Varec A1068-061)	172.11	

46 82 76 00-0225 Replacement Diaphragm For Back Pressure Regulator *(46 82 76 00-0195)*

46 82 76 00-0226	EA	2" Replacement Diaphragm For Back Pressure Regulator (Varec B6586-074)	1,051.31	
46 82 76 00-0227	EA	3" To 4" Replacement Diaphragm For Back Pressure Regulator (Varec D4608-074)	1,546.22	
46 82 76 00-0228	EA	6" To 8" Replacement Diaphragm For Back Pressure Regulator (Varec D490-074)	1,673.45	
46 82 76 00-0229	EA	10" To 12" Replacement Diaphragm For Back Pressure Regulator (Varec 02-09523-074)	1,851.91	

46 82 83 Water Treatment Instrumentation Devices *(46 82)*

46 82 83 00-0001 Sewage And Aeration Instrumentation Devices *(46 82 83)*

46 82 83 00-0002 Temperature Equipment And Instrumentation *(46 82 83 00-0001)*

46 82 83 00-0003 Temperature Equipment And Instrumentation (Foxboro) *(46 82 83 00-0002)*

46 82 83 00-0004	EA	Temperature Sensor, Up To 3.5" Insertion, -330 To 1,200 Degree F Range, 316 Stainless Steel Sheath Material. Model: Foxboro Company #PR-13UBS-003	826.80	29.92
46 82 83 00-0005	EA	Temperature Sensor, Up To 6" Insertion, -330 To 1,200 Degree F Range, 316 Stainless Steel Sheath Material. Model: Foxboro Company #PR-13UBS-006	847.82	29.92
46 82 83 00-0006	EA	Temperature Sensor, Up To 12" Insertion, -330 To 1,200 Degree F Range, 316 Stainless Steel Sheath Material. Model: Foxboro Company #PR-13UBS-012	863.58	29.92
46 82 83 00-0007	EA	Temperature Sensor, Up To 18" Insertion, -330 To 1,200 Degree F Range, 316 Stainless Steel Sheath Material. Model: Foxboro Company #PR-13UBS-018	895.11	29.92
46 82 83 00-0008	EA	Temperature Sensor, Up To 24" Insertion, -330 To 1,200 Degree F Range, 316 Stainless Steel Sheath Material. Model: Foxboro Company #PR-13UBS-024	926.63	29.92
46 82 83 00-0009	EA	Temperature Transmitter, 4-20mA With HART Communication, Epoxy Coated Housing, LCD. Model: Foxboro Company #RTT20-T1SNQFA-L1	1,810.73	44.86

46 82 83 00-0010 Temperature Equipment And Instrumentation (Moore) *(46 82 83 00-0002)*

46 82 83 00-0011	EA	Temperature Transmitter, Moore Products Company #343D-A-5-N-5-1-3	1,980.62	44.86
46 82 83 00-0012	EA	Temperature Transmitter, Moore Products Company #343F-A-5-N-1-1-3	2,318.82	44.86

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0013	EA	2.5" Immersion Length Temperature Sensor, Stainless Steel Well Material, Moore Products Company #344T4-6-X-2-AD-J-A-12	533.31	29.92
		Note: Stainless steel fittings, explosion proof, duplex thermocouple, and 1/2" NPT threaded pipewell.		
46 82 83 00-0014	EA	10.5" Immersion Length Temperature Sensor, Stainless Steel Well Material, Moore Products Company #344T4-6-X-2-AD-J-A-12	631.70	29.92
		Note: Stainless steel fittings, explosion proof, duplex thermocouple, and 1/2" NPT threaded pipewell.		
46 82 83 00-0015	EA	16.5" Immersion Length Temperature Sensor, Stainless Steel Well Material, Moore Products Company #344T4-6-X-2-AD-J-A-12	751.60	29.92
		Note: Stainless steel fittings, explosion proof, duplex thermocouple, and 1/2" NPT threaded pipewell.		
46 82 83 00-0016	EA	22.5" Immersion Length Temperature Sensor, Stainless Steel Well Material, Moore Products Company #344T4-6-X-2-AD-J-A-12	834.62	29.92
		Note: Stainless steel fittings, explosion proof, duplex thermocouple, and 1/2" NPT threaded pipewell.		
46 82 83 00-0017	EA	2.5" Immersion Length Temperature Sensor, Hastelloy Well Material, Moore Products Company #344T4-6-X-2-AD-J-A-18	982.20	29.92
		Note: Stainless steel fittings, explosion proof, duplex thermocouple, and 1/2" NPT threaded pipewell.		
46 82 83 00-0018	EA	10.5" Immersion Length Temperature Sensor, Hastelloy Well Material, Moore Products Company #344T4-6-X-2-AD-J-A-18	1,701.66	29.92
		Note: Stainless steel fittings, explosion proof, duplex thermocouple, and 1/2" NPT threaded pipewell.		
46 82 83 00-0019	EA	16.5" Immersion Length Temperature Sensor, Hastelloy Well Material, Moore Products Company #344T4-6-X-2-AD-J-A-18	2,390.37	29.92
		Note: Stainless steel fittings, explosion proof, duplex thermocouple, and 1/2" NPT threaded pipewell.		
46 82 83 00-0020	EA	22.5" Immersion Length Temperature Sensor, Hastelloy Well Material, Moore Products Company #344T4-6-X-2-AD-J-A-18	3,072.93	29.92
		Note: Stainless steel fittings, explosion proof, duplex thermocouple, and 1/2" NPT threaded pipewell.		
46 82 83 00-0021	EA	Portable Trace Recorder, Moore Products Company #36P144NNNN1NNN1	9,886.38	113.00
46 82 83 00-0022	EA	Stationary Trace Recorder, Moore Products Company #36M134NNNN1NNN1	7,908.64	169.50
46 82 83 00-0023	EA	Video Graphic Recorder (Moore Products Company #36V124NNNN1NNN1)	10,792.61	169.50
46 82 83 00-0024	EA	Basic Controller, Moore Products Company #353A2FNNNNNNNA4	4,263.71	56.50
		For Expanded Controller, Add	*500.00*	

46 82 83 00-0025 Temperature Equipment And Instrumentation (Rosemount) *(46 82 83 00-0002)*

46 82 83 00-0026	EA	Rosemount Head Mounted Smart Temperature Transmitter; LCD Indicator; Explosion Proof Enclosure	1,949.00	
46 82 83 00-0027	EA	Rosemount Head Mounted Smart Temperature Transmitter; Single RTD Input; LCD Indicator; Explosion Proof Enclosure	2,725.77	
46 82 83 00-0028	EA	Rosemount Head Mounted Smart Temperature Transmitter; Dual RTD Input; LCD Indicator; Explosion Proof Enclosure	2,752.93	
46 82 83 00-0029	EA	Rosemount Eight Input Temperature Transmitter; Fieldbus Output; FM Intrinsically Safe	5,294.41	
46 82 83 00-0030	EA	Rosemount RTD - Thin Film; Spring Loaded; 3" Nipple Union; 6" Element; Explosion Proof Enclosure	553.59	
46 82 83 00-0031	EA	Rosemount RTD - Wire Wound; Spring Loaded; 3" Nipple Union; 6" Element; Explosion Proof Enclosure	602.92	
46 82 83 00-0032	EA	Rosemount RTD - Wire Wound; Spring Loaded; 3" Nipple Union; 6" Element; Explosion Proof Enclosure; 316 Stainless Steel Tapered Thermowell; 1" NPT Connection; 4 1/2" Insertion	812.57	

46 82 83 00-0033 Temperature Equipment And Instrumentation (Yokogawa) *(46 82 83 00-0002)*

46 82 83 00-0034	EA	Temperature Sensor, 2.5" Immersion Length, Threaded And Socket Thermowells, Thin Film RTD, 4-Wire. Model: Yokogawa #TSE300-L-10-B-N-N-X	415.65	44.86
46 82 83 00-0035	EA	Temperature Sensor, 4.5" Immersion Length, Threaded And Socket Thermowells, Thin Film RTD, 4-Wire. Model: Yokogawa #TSE300-L-10-B-N-N-X	449.47	44.86
46 82 83 00-0036	EA	Temperature Sensor, 7.5" Immersion Length, Threaded And Socket Thermowells, Thin Film RTD, 4-Wire. Model: Yokogawa #TSE300-L-10-B-N-N-X	510.96	44.86
46 82 83 00-0037	EA	Temperature Sensor, 10.5" Immersion Length, Threaded And Socket Thermowells, Thin Film RTD, 4-Wire. Model: Yokogawa #TSE300-L-10-B-N-N-X	621.65	44.86
46 82 83 00-0038	EA	Temperature Sensor, 13.5" Immersion Length, Threaded And Socket Thermowells, Thin Film RTD, 4-Wire. Model: Yokogawa #TSE300-L-10-B-N-N-X	713.88	44.86
46 82 83 00-0039	EA	Temperature Sensor, 16.5" Immersion Length, Threaded And Socket Thermowells, Thin Film RTD, 4-Wire. Model: Yokogawa #TSE300-L-10-B-N-N-X	799.97	44.86
46 82 83 00-0040	EA	For 4" Flanged Thermowells	769.23	44.86
46 82 83 00-0041	EA	For 7" Flanged Thermowells	860.79	56.83
46 82 83 00-0042	EA	For 10" Flanged Thermowells	967.74	68.80
46 82 83 00-0043	EA	For 16" Flanged Thermowells	1,160.92	77.77
46 82 83 00-0044	EA	Temperature Transmitter, 4-20mA With HART Communication, 1/2" NPT Connection, Digital Indicator, 304 Stainless Steel 2" Pipe Mounting, Explosion Proof. Model: Yokogawa #YTA110-EA2DB/FF1	2,117.64	56.50

46 82 83 00-0045 Pressure Equipment And Instrumentation *(46 82 83 00-0001)*

46 82 83 00-0046 Pressure And Level Transmitters (ABB) *(46 82 83 00-0045)*

46 82 83 00-0047	EA	Pressure Transmitter, Normal Range 5.8 - 116 PSI, 316 Stainless Steel Construction, 0.1% Accuracy, 1/2" NPT Process Connection. Model: ABB Instrumentation, Model #624GV210811141	2,327.97	29.92
		For Transmitter With LCD Indicator, Add	*175.00*	
46 82 83 00-0048	EA	Differential Pressure Transmitter, Normal Range 0-10.7" H2O, 316 Stainless Steel Construction, 0.1% Accuracy, 1/2" NPT Process Connection. Model: ABB Instrumentation, Model #621DD2J10811141	3,050.94	29.92
		For Transmitter With LCD Indicator, Add	*175.00*	
46 82 83 00-0049	EA	Differential Pressure Transmitter, Normal Range 0-640" H2O, 316 Stainless Steel Construction, 0.1% Accuracy, 1/2" NPT Process Connection. Model: ABB Instrumentation, Model #621DD2J61111141	2,902.97	29.92
		For Transmitter With LCD Indicator, Add	*175.00*	

46 82 83 00-0050 Pressure Transmitters (Rosemount) *(46 82 83 00-0045)*

46 82 83 00-0051	EA	Rosemount Gage Pressure Smart Transmitter; 316 Stainless Steel Wetted Parts; 150 psi Range; Mounting Bracket; LCD Indicator; Explosion Proof Enclosure	2,064.74	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0052	EA	Rosemount Differential Pressure Smart Transmitter; 316 Stainless Steel Wetted Parts; 750 in WC Range; Mounting Bracket; LCD Indicator; Explosion Proof Enclosure	3,081.92	
46 82 83 00-0053	EA	Rosemount Gage Pressure Smart Transmitter; 316 Stainless Steel Wetted Parts; 300 psi Range; Mounting Bracket; LCD Indicator; Explosion Proof Enclosure	2,875.39	
46 82 83 00-0054	EA	Rosemount Flange Mounted Liquid Level Smart Transmitter; 316 Stainless Steel Wetted Parts; 750 in WC Range; 3" 150 LB Flange; LCD Indicator; Explosion Proof Enclosure; Flush Diaphragm	5,103.90	
		For Diaphragm Extension Length 6", Add	*249.00*	
46 82 83 00-0055	EA	Rosemount Gage Pressure Smart Transmitter; 316 Stainless Steel Wetted Parts; 800 psi Range; Mounting Bracket; LCD Indicator; Explosion Proof Enclosure	2,064.74	
46 82 83 00-0056	EA	Rosemount Gage Pressure Smart Transmitter; 316 Stainless Steel Wetted Parts; 1000 in WC Range; Mounting Bracket; LCD Indicator; Explosion Proof Enclosure; .065% Accuracy	3,009.63	
46 82 83 00-0057	EA	Rosemount Differential Pressure Smart Transmitter; 316 Stainless Steel Wetted Parts; 1000 in WC Range; Mounting Bracket; LCD Indicator; Explosion Proof Enclosure; .065% Accuracy	3,009.63	
46 82 83 00-0058	EA	Rosemount Flange Mounted Liquid Level Smart Transmitter; 316 Stainless Steel Wetted Parts; 250 in WC Range; 3" 150 LB Flange; LCD Indicator; Explosion Proof Enclosure; Flush Diaphragm; Classic Performance	3,220.30	
		For EF-6" Lower Housing Extension, Add	*390.00*	
46 82 83 00-0059	EA	Rosemount Gage Pressure Smart Transmitter; 316 Stainless Steel Wetted Parts; 800 psi Range; Mounting Bracket; LCD Indicator; Explosion Proof Enclosure; Classic Performance	5,749.22	
		For Ultra, Add	*144.00*	
46 82 83 00-0060	EA	Rosemount Gage Pressure Smart Transmitter; 316 Stainless Steel Wetted Parts; 250 in WC Range; Mounting Bracket; LCD Indicator; Explosion Proof Enclosure; Classic Performance	3,887.78	
		For Ultra, Add	*144.00*	
46 82 83 00-0061	EA	Rosemount Differential Pressure Smart Transmitter; 316 Stainless Steel Wetted Parts; 250 in WC Range; Mounting Bracket; LCD Indicator; Explosion Proof Enclosure; Classic Performance	3,887.78	
		For Ultra, Add	*144.00*	
46 82 83 00-0062	EA	Rosemount Flange Mounted Liquid Level Smart Transmitter; 316 Stainless Steel Wetted Parts; 1000 in WC Range; 3" 150 LB Flange; LCD Indicator; Explosion Proof Enclosure; Flush Diaphragm; .075% Accuracy	4,450.60	
		For Diaphragm Extension Length 6", Add	*249.00*	

46 82 83 00-0063 Differential Pressure Transmitters (Yokogawa) *(46 82 83 00-0045)*

46 82 83 00-0064	EA	1-100 kPa Measurement Range Differential Pressure Transmitter, Yokogawa #EJ110A-EMS3B92NB/FF1 Note: 4-20mAdc output, HART protocol, 316 stainless steel wetted parts, 1/4" NPT process connector, and 304 stainless steel mounting bracket.	3,541.18	56.50
46 82 83 00-0065	EA	5-500 kPa Measurement Range Differential Pressure Transmitter, Yokogawa #EJ110A-EHS3B92NB/FF1 Note: 4-20mAdc output, HART protocol, 316 stainless steel wetted parts, 1/4" NPT process connector, and 304 stainless steel mounting bracket.	3,541.18	56.50
46 82 83 00-0066	EA	0.14-14 MPa Measurement Range Differential Pressure Transmitter, Yokogawa #EJ110A-EVS3B92NB/FF1 Note: 4-20mAdc output, HART protocol, 316 stainless steel wetted parts, 1/4" NPT process connector, and 304 stainless steel mounting bracket.	4,109.98	56.50

46 82 83 00-0067 Pressure Transmitters (E+H) *(46 82 83 00-0045)*

46 82 83 00-0068	EA	150 PSIG, 333' H2O Sensor Range, 600 PSI Overload, Push Button On Electronics Display, FM NI Class I, Division 2, Group A-D, Zone 2, Pressure Transmitter (E+H PMC51-4JD81/0) Note: Output: 4-20mA HART; Housing: F31 aluminum; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: sensor range, psi; Process Connection: 1/2" MNPT, 1/4" FNPT, 316L; Seal: FKM Viton.	1,824.40	64.99
46 82 83 00-0069	EA	150 PSIG, 333' H2O Sensor Range, 600 PSI Overload, LCD, Push Button On Display/Electronics Display, FM NI Class I, Division 2, Group A-D, Zone 22, Pressure Transmitter (E+H PMC51-1NR02/0) Note: Output: 4-20mA HART; Housing: F31 aluminum, glass window; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: sensor range, psi; Process Connection: 1/2" MNPT, 1/4" FNPT, 316L; Seal: FKM Viton.	1,998.65	64.99
46 82 83 00-0070	EA	14.5 PSI Nominal Pressure, 0.45 PSI Sensor Nominal Value, Push Button On Electronics Display, FM NI Class I, Division 2, Group A-D, Zone 2, Differential Pressure Transmitter (E+H PMD55-20010/0) Note: Output: 4-20mA HART; Housing: F30 aluminum; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: nominal value; in H2O.	2,022.22	64.99
46 82 83 00-0071	EA	14.5 PSI Nominal Pressure, 0.45 PSI Sensor Nominal Value, LCD, Push Button On Display/Electronics Display, FM NI Class I, Division 2, Group A-D, Zone 2, Differential Pressure Transmitter (E+H PMD55-20039/0) Note: Output: 4-20mA HART; Housing: F30 aluminum, glass window; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: nominal value; in H2O; Process Connection: NPT1/4-18, UNF7/16-20; installation impulse line vertical alignment 90 degree; Membrane Material: 316L; Fill Fluid: silicone oil; Seal: FKM Viton.	2,196.48	64.99
46 82 83 00-0072	EA	1,015 PSI Nominal Pressure, 45 PSI Sensor Nominal Value, Push Button On Electronics Display, FM NI Class I, Division 2, Group A-D, Zone 2, Differential Pressure Transmitter (E+H PMD55-20046/0) Note: Output: 4-20mA HART; Housing: F30 aluminum; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: nominal value, in H2O; Process Connection: NPT1/4-18, UNF7/16-20; installation impulse line vertical alignment 90 degree; Membrane Material: 316L; Fill Fluid: silicone oil; Seal: FKM Viton.	2,022.22	64.99
46 82 83 00-0073	EA	1,015 PSI Nominal Pressure, 45 PSI Sensor Nominal Value, LCD, Push Button On Display/Electronics Display, FM NI Class I, Division 2, Group A-D, Zone 22, Differential Pressure Transmitter (E+H PMD55-144U5/0) Note: Output: 4-20mA HART; Housing: F30 aluminum, glass window; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: nominal value, in H2O; Process Connection: NPT1/4-18, UNF7/16-20; installation impulse line vertical alignment 90 degree; Membrane Material: 316L; Fill Fluid: silicone oil; Seal: FKM Viton.	2,196.48	64.99
46 82 83 00-0074	EA	150 PSIG, 333' H2O Sensor Range, 600 PSI Overload, LCD, Push Button On Display/Electronics Display, FM XP Class I, II, Division 1, Group A-G, Zone 1, IIC T6 (Conduit Seal Not Required), Zone 1, 2, Pressure Transmitter (E+H PMP51-1EN37/0) Note: Output: 4-20mA HART; Housing: F31 aluminum, glass window; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: sensor range, psi; Process Connection: Thread ANSI MNPT1/2 FNPT1/4, 316L; Membrane Material: 316L; Fill Fluid: silicone oil; Accessory Enclosed: mounting bracket, wall/pipe, 316L.	2,047.90	64.99

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0075	EA	30 PSIG, 67' H2O Sensor Range, 300 PSI Overload, LCD, Push Button On Display/Electronics Display, FM XP Class I, II, Division 1, Group A-G, Zone 1, IIC T6 (Conduit Seal Not Required), Zone 1, 2, Pressure Transmitter (E+H PMP51-5LD41/0) Note: Output: 4-20mA HART; Housing: F31 aluminum, glass window; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: sensor range; in H2O; Process Connection: Thread ANSI MNPT1/2 FNPT1/4, 316L; Membrane Material: 316L; Fill Fluid: silicone oil; Accessory Enclosed: mounting bracket, wall/pipe, 316.	2,047.90	64.99
46 82 83 00-0076	EA	600 PSIG, 1,334' H2O Sensor Range, 2400 PSI Overload, LCD, Push Button On Display/Electronics Display, FM XP Class I, II, Division 1, Group A-G, Zone 1, IIC T6 (Conduit Seal Not Required), Zone 1, 2, Pressure Transmitter (E+H PMP51-1EN20/0) Note: Output: 4-20mA HART; Housing: F31 aluminum, glass window; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: sensor range; psi; Process Connection: Thread ANSI MNPT1/2 FNPT1/4, 316L; Membrane Material: 316L; Fill Fluid: silicone oil; Accessory Enclosed: mounting bracket, wall/pipe, 316L.	2,047.90	64.99
46 82 83 00-0077	EA	45 PSI Nominal Pressure, Output: 4-20mA HART; Inside + LCD, FM XP Class I, Division 1, Group A-D, AEx d, Zone 1, 2 NI Class I, Division 2, Group A-D, Zone 2, Differential Pressure Transmitter (E+H FMD77-XPN6/0) Note: Housing; Cover Sealing; Cable Entry: T14 aluminum NEMA 6P; EPDM; 1/2" NPT, T14 = side cover; Nominal Range; Cell Material; 316L; 2,400 psi; Calibration; Unit: nominal range; in H2O; Membrane Material: 316L, high-pressure side; Process Connection; LP Side; Seal: NPT1/4-18; FKM Viton, mounting UNF7/16-20; Process Connection, HP/HP+LP: NPS 3" Class, 150 RF, 316/316L flange ASME B16.5; Fill Fluid: silicone oil.	5,327.89	64.99
46 82 83 00-0078	EA	45 PSI Nominal Pressure, Output: 4-20mA HART; External + LCD, FM XP Class I, Division 1, Group A-D, AEx d, Zone 1, 2 NI Class I, Division 2, Group A-D, Zone 2, Differential Pressure Transmitter (E+H FMD77-XPP7/0) Note: Housing; Cover Sealing; Cable Entry: T14 aluminum NEMA 6P; EPDM; 1/2" NPT, T14 = side cover; Nominal Range; Cell Material; 316L; 2,400 psi; Calibration; Unit: nominal range; in H2O; Membrane Material: 316L, high-pressure side; Process Connection; LP Side; Seal: NPT1/4-18; FKM Viton, mounting UNF7/16-20; Process Connection; HP/HP+LP: NPS 3" Class, 150 RF, 316/316L, 2/4/6/8" barrel, flange ASME B16.5, Fill Fluid: silicone oil.	7,119.42	64.99
46 82 83 00-0079	EA	1500 PSIG, 3,330' H2O Sensor Range, 6000 PSI Overload, LCD, Push Button On Display/Electronics Display, FM XP Class I, II, Division 1, Group A-G, Zone 1, IIC T6 (Conduit Seal Not Required), Zone 1, 2, Pressure Transmitter (E+H PMP51-5LD59/0) Note: Output: 4-20mA HART; Housing: F31 aluminum, glass window: Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: sensor range; psi; Process Connection: Thread ANSI MNPT1/2 FNPT1/4, 316L; Membrane Material: 316L; Fill Fluid: silicone oil; Accessory Enclosed: mounting bracket, wall/pipe, 316L.	2,047.90	64.99
46 82 83 00-0080	EA	60 PSIG, 133' H2O Sensor Range, 420 PSI Overload, LCD, Push Button On Display/Electronics Display, FM XP Class I, II, Division 1, Group A-G, Zone 1, IIC T6 (Conduit Seal Not Required), Zone 1, 2, Pressure Transmitter (E+H PMP51-5LD66/0) Note: Output: 4-20mA HART; Housing: F31 aluminum, glass window; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: sensor range; in H2O; Process Connection: Thread ANSI MNPT1/2 FNPT1/4, 316L; Membrane Material: 316L; Fill Fluid: silicone oil; Mounting bracket, wall/pipe, 316L.	2,047.90	64.99
46 82 83 00-0081	EA	15 PSIG, 33' H2O Sensor Range, 150 PSI Overload, LCD, Push Button On Display/Electronics Display, FM XP Class I, II, Division 1, Group A-G, Zone 1, IIC T6 (Conduit Seal Not Required), Zone 1, 2, Pressure Transmitter (E+H PMP51-5LD80/0) Note: Output: 4-20mA HART; Housing: F31 aluminum, glass window; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: sensor range; in H2O; Process Connection: Thread ANSI MNPT1/2 FNPT1/4, 316L; Membrane Material: 316L; Fill Fluid: silicone oil; Mounting bracket, wall/pipe, 316L.	2,047.90	64.99
46 82 83 00-0082	EA	14.5 PSI Nominal Pressure, 0.45 PSI Sensor Nominal Value, Push Button On Electronics Display, FM XP Class I, II, Division 1, Group A-G, Zone 1, IIC T6 (Conduit Seal Not Required), Zone 1, 2, Differential Pressure Transmitter (E+H PMD55-20085/0) Note: Output: 4-20mA HART; Housing: F30 aluminum; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: nominal value; kPa/MPa; Process Connection: NPT1/4-18, UNF7/16-20; installation impulse line horizontal alignment 180 degree; Membrane Material: 316L; Fill Fluid: silicone oil; Seal: FKM Viton; mounting bracket, wall/pipe, 316L, heavy-duty design.	2,392.94	64.99
46 82 83 00-0083	EA	1,015 PSI Nominal Pressure, 240 PSI Sensor Nominal Value, Push Button On Electronics Display, FM XP Class I, II, Division 1, Group A-G, Zone 1, IIC T6 (Conduit Seal Not Required), Zone 1, 2, Differential Pressure Transmitter (E+H PMD55-20092/0) Note: Output: 4-20mA HART; Housing: F30 aluminum; Electrical Connection: 1/2" NPT, NEMA 4X/6P; Reference Accuracy: standard calibration; Unit: nominal value; kPa/MPa; Process Connection: NPT1/4-18, UNF7/16-20, installation impulse line horizontal alignment 180 degree; Membrane Material: 316L; Fill Fluid: silicone oil; Seal: FKM Viton; mounting bracket, wall/pipe, 316L, heavy-duty design.	2,392.94	64.99
46 82 83 00-0084	EA	2,400 PSI Nominal Pressure, 600 PSI Sensor Nominal Value, Push Button On Electronics Display, FM XP Class I, II, Division 1, Group A-G, Zone 1, IIC T6 (Conduit Seal Not Required), Zone 1, 2, Differential Pressure Transmitter (E+H PMD55-200C9/0) Note: Output: 4-20mA HART2; Housing: F30 aluminum; Electrical Connection: 1/2" NPT, NEMA 4X/6P; ; Reference Accuracy: standard calibration; Unit: nominal value; kPa/MPa; Process Connection: NPT1/4-18, UNF7/16-20, installation impulse line horizontal alignment 180 degree; Membrane Material: 316L; Fill Fluid: silicone oil; Seal: FKM Viton; mounting bracket, wall/pipe, 316L, heavy-duty design.	2,533.83	64.99
46 82 83 00-0085	DAY	E+H, Pressure Instrumentation, Start Up And Training	2,884.53	

46 82 83 00-0086 Pressure Isolators (Onyx Valve Company) *(46 82 83 00-0045)*

46 82 83 00-0087	EA	2", 316 Stainless Steel Center Section, Silicone Filled End Plates And Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-2-SS)	1,621.61	103.95
46 82 83 00-0088	EA	2-1/2", 316 Stainless Steel Center Section, Silicone Filled End Plates And Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-2.5-SS)	2,346.15	287.15
46 82 83 00-0089	EA	3", 316 Stainless Steel Center Section, Silicone Filled End Plates And Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-3-SS)	2,429.22	323.05
46 82 83 00-0090	EA	4", 316 Stainless Steel Center Section, Silicone Filled End Plates And Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-4-SS)	3,282.88	478.58
46 82 83 00-0091	EA	6", 316 Stainless Steel Center Section, Silicone Filled End Plates And Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-6-SS)	5,375.16	700.41
46 82 83 00-0092	EA	8", 316 Stainless Steel Center Section, Silicone Filled End Plates And Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-8-SS)	7,635.58	1,050.63
46 82 83 00-0093	EA	2", Epoxy Coated Carbon Center Section, Silicone Filled Acetal End Plates And Brass Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-2-C)	1,368.21	103.95

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0094	EA	2-1/2", Epoxy Coated Carbon Center Section, Silicone Filled Acetal End Plates And Brass Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-2.5-C)	1,581.85	287.15
46 82 83 00-0095	EA	3", Epoxy Coated Carbon Center Section, Silicone Filled Acetal End Plates And Brass Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-3-C)	1,664.92	323.05
46 82 83 00-0096	EA	4", Epoxy Coated Carbon Center Section, Silicone Filled Acetal End Plates And Brass Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-4-C)	1,997.38	478.58
46 82 83 00-0097	EA	6", Epoxy Coated Carbon Center Section, Silicone Filled Acetal End Plates And Brass Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-6-C)	2,894.80	700.41
46 82 83 00-0098	EA	8", Epoxy Coated Carbon Center Section, Silicone Filled Acetal End Plates And Brass Stinger Fitting, PSW Isolator Ring (Onyx Valve Company PSW-8-C)	4,178.73	1,050.63
46 82 83 00-0099		Flow Equipment And Instrumentation *(46 82 83 00-0001)*		
46 82 83 00-0100		Flow Equipment (ABB) *(46 82 83 00-0099)*		
46 82 83 00-0101		Magnetic Flowmeters, Flanged, Stainless Steel Electrodes *(46 82 83 00-0100)* Note: Raw sewage application, polyurethane liner, stainless steel grounding rings, with remote transmitter. Model ABB instrumentation primary model #MFF and transmitter model #MFE		
46 82 83 00-0102	EA	12" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	11,456.93	480.12
46 82 83 00-0103	EA	14" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	12,900.08	564.85
46 82 83 00-0104	EA	16" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	16,551.04	677.71
46 82 83 00-0105	EA	18" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	18,311.80	708.88
46 82 83 00-0106	EA	20" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	21,030.06	776.78
46 82 83 00-0107	EA	24" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	25,396.80	955.50
46 82 83 00-0108	EA	30" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	55,816.87	1,525.44
46 82 83 00-0109	EA	36" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	61,822.34	3,050.88
46 82 83 00-0110	EA	42" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	76,468.42	3,549.29
46 82 83 00-0111	EA	48" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	88,062.68	3,838.84
46 82 83 00-0112	EA	54" Magnetic Flowmeter, ABB Instrumentation Primary Model #MFF And Transmitter Model #MFE	161,181.89	4,513.61
46 82 83 00-0113		Magnetic Flowmeters, Hastelloy-C Electrodes SST Grounding Rings *(46 82 83 00-0100)* Note: Flanged, corrosive liquids application, Teflon liner, with remote transmitter. Model: ABB instrumentation primary model FEP325 and FET325 secondary		
46 82 83 00-0114	EA	1" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325025A1D4A1B0A1C2P2B0Y1AJA And Secondary Model #FET3251C0P1B3B1	6,638.02	43.67
46 82 83 00-0115	EA	1-1/2" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325040A1D4A1B0A1C2P2B0Y1AJA And Secondary Model #FET3251C0P1B3B1	6,879.73	56.83
46 82 83 00-0116	EA	2" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325050A1D4A1B0A1C2P2B0Y1AJA And Secondary Model #FET3251C0P1B3B1	6,998.08	86.75
46 82 83 00-0117	EA	3" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325080A1D4A1B0A1C2P2B0Y1AJA And Secondary Model #FET3251C0P1B3B1	7,281.10	134.60
46 82 83 00-0118	EA	4" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325100A1D4A1B0A1C2P2B0Y1AJA And Secondary Model #FET3251C0P1B3B1	8,159.20	219.55
46 82 83 00-0119	EA	6" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325150A1D4A1B0A1C2P2B0Y1AJA And Secondary Model #FET3251C0P1B3B1	9,328.32	239.29
46 82 83 00-0120	EA	8" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325200A1D4A1B0A1C2P2B0Y1AJA And Secondary Model #FET3251C0P1B3B1	11,264.92	358.94
46 82 83 00-0121	EA	10" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325250A1D4A1B0A1C2P2B0Y1AJA And Secondary Model #FET3251C0P1B3B1	14,755.81	418.64
46 82 83 00-0122	EA	12" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325300A1D4A1B0A1C2P2B0Y1AJA And Secondary Model #FET3251C0P1B3B1	20,278.92	508.38
46 82 83 00-0123		Magnetic Flowmeters, Flanged, Tezfel Liner *(46 82 83 00-0100)* Note: Sludge flows (primary, thickness digester), stainless steel grounding rings, with remote transmitter. Model: ABB instrumentation primary model #FEP325 and secondary model #FEP325		
46 82 83 00-0124	EA	4" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325100F1S3A1B0A1C2P2B0Y1AJAF6M5 And Secondary Model #FET3251C0P1B3B1	8,853.13	205.61
46 82 83 00-0125	EA	6" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325150F1S3A1B0A1C2P2B0Y1AJAF6M5 And Secondary Model #FET3251C0P1B3B1	10,008.19	225.94
46 82 83 00-0126	EA	8" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325200F1S3A1B0A1C2P2B0Y1AJAF6M5 And Secondary Model #FET3251C0P1B3B1	12,274.01	338.91
46 82 83 00-0127	EA	10" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325250F1S3A1B0A1C2P2B0Y1AJAF6M5 And Secondary Model #FET3251C0P1B3B1	16,948.72	395.39
46 82 83 00-0128	EA	12" Magnetic Flowmeter, ABB Instrumentation Primary Model #FEP325300F1S3A1B0A1C2P2B0Y1AJAF6M5 And Secondary Model #FET3251C0P1B3B1	24,024.03	480.12
46 82 83 00-0129		Flow Equipment (Ameritrol) *(46 82 83 00-0099)*		
46 82 83 00-0130		Flow Switches *(46 82 83 00-0129)*		
46 82 83 00-0131	EA	Electronic Flow Switch, 1" MNPT Process Connection, 1.8" Probe Length, 120 Volt AC Power Input, SPDT Relay Output, Process Temperatures To 350F, NEMA 4X Enclosure (Ameritrol FX-1000-AD)	1,752.35	29.92
46 82 83 00-0132		Flow Equipment (CiDRA) *(46 82 83 00-0099)*		
46 82 83 00-0133		Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus *(46 82 83 00-0132)*		
46 82 83 00-0134	EA	2" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E02-05-5-01-6A-01A-12-02-01-EN)	21,039.70	113.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0135	EA	3" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E03-05-5-01-6A-01A-12-02-01-EN)	21,067.95	120.07
46 82 83 00-0136	EA	4" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E04-05-5-01-6A-01A-12-02-01-EN)	21,098.01	127.58
46 82 83 00-0137	EA	6" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E06-05-5-01-6A-01A-12-02-01-EN)	23,302.74	135.54
46 82 83 00-0138	EA	8" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E08-05-5-01-6A-01A-12-02-01-EN)	24,119.38	144.01
46 82 83 00-0139	EA	10" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E10-05-5-01-6A-01A-12-02-01-EN)	25,763.38	153.03
46 82 83 00-0140	EA	12" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E12-05-5-01-6A-01A-12-02-01-EN)	27,271.18	162.60
46 82 83 00-0141	EA	14" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E14-05-5-01-6A-01A-12-02-01-EN)	30,655.15	172.77
46 82 83 00-0142	EA	16" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E16-05-5-01-6A-01A-12-02-01-EN)	34,041.60	183.57
46 82 83 00-0143	EA	18" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E18-05-5-01-6A-01A-12-02-01-EN)	39,177.17	195.03
46 82 83 00-0144	EA	20" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E20-05-5-01-6A-01A-12-02-01-EN)	43,167.42	207.23
46 82 83 00-0145	EA	22" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E22-05-5-01-6A-01A-12-02-01-EN)	45,567.52	220.21
46 82 83 00-0146	EA	24" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E24-05-5-01-6A-01A-12-02-01-EN)	47,703.10	233.96
46 82 83 00-0147	EA	26" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E26-05-5-01-6A-01A-12-02-01-EN)	49,945.57	248.60
46 82 83 00-0148	EA	28" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E28-05-5-01-6A-01A-12-02-01-EN)	52,154.74	264.13
46 82 83 00-0149	EA	30" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E30-05-5-01-6A-01A-12-02-01-EN)	54,088.99	280.63
46 82 83 00-0150	EA	32" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E32-05-5-01-14-01A-12-02-01-EN)	62,857.98	298.18
46 82 83 00-0151	EA	34" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E34-05-5-01-14-01A-12-02-01-EN)	64,630.97	316.83
46 82 83 00-0152	EA	36" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E36-05-5-01-14-01A-12-02-01-EN)	68,276.84	336.62
46 82 83 00-0153	EA	40" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E40-05-5-14-14-01A-12-02-01-EN)	79,666.54	357.68
46 82 83 00-0154	EA	42" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E42-05-5-14-14-01A-12-02-01-EN)	85,242.53	380.02
46 82 83 00-0155	EA	48" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E48-05-5-14-14-01A-12-02-01-EN)	93,805.62	403.78
46 82 83 00-0156	EA	54" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E54-05-5-14-14-01A-12-02-01-EN)	105,496.35	429.00
46 82 83 00-0157	EA	60" Steel Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E60-05-5-14-14-01A-12-02-01-EN)	119,604.41	455.81

46 82 83 00-0158 Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus *(46 82 83 00-0132)*

46 82 83 00-0159	EA	3" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-100-05-5-01-6A-01A-12-02-01-EN)	21,067.95	120.07
46 82 83 00-0160	EA	4" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-122-05-5-01-6A-01A-12-02-01-EN)	23,270.87	127.58
46 82 83 00-0161	EA	6" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-175-05-5-01-6A-01A-12-02-01-EN)	24,085.48	135.54
46 82 83 00-0162	EA	8" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-228-05-5-01-6A-01A-12-02-01-EN)	25,727.34	144.01
46 82 83 00-0163	EA	10" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-280-05-5-01-6A-01A-12-02-01-EN)	27,232.87	153.03
46 82 83 00-0164	EA	12" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-335-05-5-01-6A-01A-12-02-01-EN)	30,614.47	162.60
46 82 83 00-0165	EA	14" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-388-05-5-01-6A-01A-12-02-01-EN)	33,998.44	172.77
46 82 83 00-0166	EA	16" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-439-05-5-01-6A-01A-12-02-01-EN)	39,131.29	183.57
46 82 83 00-0167	EA	18" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-494-05-5-01-6A-01A-12-02-01-EN)	43,118.60	195.03
46 82 83 00-0168	EA	20" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-547-05-5-01-6A-01A-12-02-01-EN)	45,515.66	207.23
46 82 83 00-0169	EA	24" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-652-05-5-01-6A-01A-12-02-01-EN)	49,887.04	233.96
46 82 83 00-0170	EA	30" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-E32-05-5-01-14-01A-12-02-01-EN)	62,787.81	280.63
46 82 83 00-0171	EA	36" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-999-05-5-14-14-01A-12-02-01-EN)	79,582.35	336.62
46 82 83 00-0172	EA	42" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-J31-05-5-14-14-01A-12-02-01-EN)	93,710.59	380.02
46 82 83 00-0173	EA	48" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-K91-05-5-14-14-01A-12-02-01-EN)	105,395.44	403.78
46 82 83 00-0174	EA	54" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-N61-05-5-14-14-01A-12-02-01-EN)	119,497.17	429.00
46 82 83 00-0175	EA	60" Ductile Iron Pipe, Clamp-On Volumetric Flow Meter With AC Transmitter And Modbus (CiDRA FMS-P63-05-5-14-14-01A-12-02-01-EN)	124,145.82	455.81

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0176		**Transmitter Interconnect Cable** *(46 82 83 00-0132)*		
46 82 83 00-0177	EA	25' Transmitter Interconnect Cable (CiDRA CA-10-0025)	794.94	14.13
46 82 83 00-0178	EA	50' Transmitter Interconnect Cable (CiDRA CA-10-0050)	901.28	28.25
46 82 83 00-0179	EA	75' Transmitter Interconnect Cable (CiDRA CA-10-0075)	1,173.78	42.37
46 82 83 00-0180	EA	100' Transmitter Interconnect Cable (CiDRA CA-10-0100)	1,448.11	56.50
46 82 83 00-0181	EA	125' Transmitter Interconnect Cable (CiDRA CA-10-0125)	1,751.99	70.62
46 82 83 00-0182	EA	150' Transmitter Interconnect Cable (CiDRA CA-10-0150)	1,946.95	84.75
46 82 83 00-0183	EA	175' Transmitter Interconnect Cable (CiDRA CA-10-0175)	2,197.28	98.88
46 82 83 00-0184	EA	200' Transmitter Interconnect Cable (CiDRA CA-10-0200)	2,392.24	113.00
46 82 83 00-0185	EA	225' Transmitter Interconnect Cable (CiDRA CA-10-0225)	2,590.90	127.12
46 82 83 00-0186	EA	250' Transmitter Interconnect Cable (CiDRA CA-10-0250)	2,780.31	141.25
46 82 83 00-0187	EA	275' Transmitter Interconnect Cable (CiDRA CA-10-0275)	2,978.96	155.37
46 82 83 00-0188	EA	300' Transmitter Interconnect Cable (CiDRA CA-10-0300)	3,168.38	169.50
46 82 83 00-0189	EA	350' Transmitter Interconnect Cable (CiDRA CA-10-0350)	3,357.80	183.62
46 82 83 00-0190		**Flow Equipment (Controlotron)** *(46 82 83 00-0099)*		
46 82 83 00-0191		**Transducer** *(46 82 83 00-0190)*		
46 82 83 00-0192	EA	Spectra Transducer, Portable NEMA 4X. Model Controlotron #191-P-S	2,260.03	44.86
		For Mounting Track, Single Mount, Add	*100.00*	
		For Mounting Track, Double Mount, Add	*175.00*	
		For Carry Case Kit, Add	*150.00*	
46 82 83 00-0193	EA	Spectra Transducer, NEMA 4X, Mounting Gear Excluded. Model: Controlotron #191-N-S	1,414.02	44.86
		For Mounting Track, Single Mount, Add	*100.00*	
		For Mounting Track, Double Mount, Add	*175.00*	
		For Mounting Strap Kit For Mounting On Pipes 12" To 36", Add	*25.00*	
		For Mounting Strap Kit For Mounting On Pipes 36" To 72", Add	*30.00*	
46 82 83 00-0194	EA	Spectra Transducer, NEMA 4X. Mounting Gear Excluded, Corrosive Resistant. Model: Controlotron #191-N-SC	2,517.56	44.86
		For Corrosive Resistant Mounting Track, Single Mount, Add	*160.00*	
		For Corrosive Resistant Mounting Track, Double Mount, Add	*280.00*	
		For Mounting Strap Kit For Mounting On Pipes 12" To 36", Add	*25.00*	
		For Mounting Strap Kit For Mounting On Pipes 36" To 72", Add	*30.00*	
46 82 83 00-0195	EA	Spectra Transducer, NEMA 4X. Mounting Gear Included. Model: Controlotron #191-N1-S	1,414.02	44.86
46 82 83 00-0196	EA	Spectra Transducer, NEMA 4X. Mounting Gear Included, Corrosive Resistant. Model: #191-N1-SC	2,517.56	44.86
46 82 83 00-0197		**Transducer Cable** *(46 82 83 00-0190)*		
		Note: Same for transit time/doppler all explosion proof pricing is the same, they add a bead of silicone at the end, different model #, same price		
46 82 83 00-0198	EA	Spectra Transducer Cable, Portable Type. Model: Controlotron #192C-P-S	300.80	0.56
		For Each Additional LF Of Cable, Add	*1.50*	
46 82 83 00-0199	EA	Spectra Transducer Cable, NEMA 4. Model: Controlotron #192C-N-S	300.80	0.56
46 82 83 00-0200	EA	Spectra Transducer Cable, NEMA 4/Portable Type. Model: Controlotron #192C-NP-S	300.80	0.56
46 82 83 00-0201		**Flow Computer** *(46 82 83 00-0190)*		
46 82 83 00-0202	EA	Spectra D45 Doppler Flow Computer, NEMA 4X, Digital Graphics, RS232 Output. Model: Controlotron #194-N-D-S-2	8,636.83	113.00
		For Factory Site Set-up, Add	*100.00*	
		For Hand Held Terminal For Use With Flow Computer, Add	*850.00*	
		For Power Adapter/Battery Charger For Handheld Terminal, Add	*65.00*	
		For I/O Converter Module, Add	*490.00*	
46 82 83 00-0203	EA	Spectra Doppler Flow Computer, NEMA 7, Digital Graphics, RS232 Output. Model: Controlotron #194-X-D-S-2	14,940.08	113.00
		For Factory Site Set-up, Add	*100.00*	
		For Hand Held Terminal For Use With Flow Computer, Add	*850.00*	
		For Power Adapter/Battery Charger For Handheld Terminal, Add	*65.00*	
		For I/O Converter Module, Add	*490.00*	
46 82 83 00-0204		**Remote Digital Display** *(46 82 83 00-0190)*		
46 82 83 00-0205	EA	Spectra Remote Digital Display For Flow Computer, NEMA 4X. Model: Controlotron #996D-D-N-S	1,344.16	28.25
46 82 83 00-0206		**Transit Time Flowmeter Equipment** *(46 82 83 00-0190)*		
46 82 83 00-0207	EA	Single Channel Transit Time Flowmeter, NEMA 7X. Model: Controlotron #1010X1	10,305.96	225.99
		For Transducer And Mounting Set, Add	*1,445.00*	
		For Dedicated Transducer Cable Assembly, Add	*50.00*	
46 82 83 00-0208	EA	Double Channel Transit Time Flowmeter, NEMA 7X. Model: Controlotron #1010X1S2	13,484.66	225.99
		For Transducer And Mounting Set, Add	*1,445.00*	
		For Dedicated Transducer Cable Assembly, Add	*50.00*	
46 82 83 00-0209		**Flow Equipment (FCI)** *(46 82 83 00-0099)*		
46 82 83 00-0210		**Flow Meter** *(46 82 83 00-0209)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0211	EA	Digester And Air Gas-Calibrated Flow Meter, 316 Stainless Steel, Insertion Type, NEMA 4X, 25' Cable, 4-20mAdc, 1.25" MNPT Process Connection. Model: FCI #FCI M/N ST98-11PA02DABCF	10,197.21	56.83
		For One 1.25" FNPT Threaded Full Port Stainless Steel Ball Valve, Add	*450.00*	
		Note: Valve, Add		
		For Calibrator Kit, Add	*450.00*	
		For Each Day Of On-Site Factory Wiring Check And Flow Meter Training Class, Add	*800.00*	
		Note: Training Class, Add		
46 82 83 00-0212	EA	Natural Gas-Calibrated Flow Meter, 316 Stainless Steel, Insertion Type, NEMA 4X, 25' Cable, 4-20mAdc, 1.25" MNPT Process Connection. Model: FCI #FCI M/N ST98-11WT02DABFF	11,387.71	56.83
		For One 1.25" FNPT Threaded Full Port Stainless Steel Ball Valve, Add	*450.00*	
		Note: Valve, Add		
		For Calibrator Kit, Add	*450.00*	
		For Each Day Of On-Site Factory Wiring Check And Flow Meter Training Class, Add	*800.00*	
		Note: Training Class, Add		

46 82 83 00-0213 Flow Switches *(46 82 83 00-0209)*

46 82 83 00-0214	EA	Thermal Dispersion Flow Switch, 316 Stainless Steel, 3/4" MNPT Process Connection, NEMA 4X. Model: FCI #FCI M/N FLT93S-1B1A103C1A01000	2,217.33	29.92

46 82 83 00-0215 Flow Conditioners *(46 82 83 00-0209)*

46 82 83 00-0216	EA	2" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	1,228.86	86.75
46 82 83 00-0217	EA	3" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	1,378.70	134.60
46 82 83 00-0218	EA	4" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	1,788.55	217.75
46 82 83 00-0219	EA	6" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	2,778.74	239.29
46 82 83 00-0220	EA	8" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	6,207.20	358.94
46 82 83 00-0221	EA	10" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	8,143.75	418.64
46 82 83 00-0222	EA	12" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	8,593.67	508.38
46 82 83 00-0223	EA	14" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	11,614.32	597.99
46 82 83 00-0224	EA	16" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	12,665.43	717.63
46 82 83 00-0225	EA	18" Diameter Pipe Flow Conditioner, Insertion Sleeve Type 316 Stainless Steel. Model: FCI #FCI M/N VISXXXX2100	15,572.35	750.42

46 82 83 00-0226 Flow Equipment (Eldridge) *(46 82 83 00-0099)*

46 82 83 00-0227 Insertion MP Series Flowmeters *(46 82 83 00-0226)*

Note: • CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C • ENCLOSURE: (Select Remote enclosure type: REM, ACEX, DCEX) • Accuracy including linearity (Ref.: 21°C): ± (1% of Reading + 0.5% of Full Scale + GTC) • Repeatability ± 0.2% of Full Scale • Turn down ratio 100:1 at 15 SFPM (.076 NMS) Minimum Reading • Ambient electronics temperature range -40° to 158°F (-40° to 50°C) • Gas temperature range -40° to 392°F (-40° to 200°C) • EPICom Windows based communication software (RS232, RS485 or USB) • EPI-Val Field Calibration Validation • INTEGRAL Electronics; 2-line 16 character display and 4-button keypad; Output 4-20mA, 0-5 Volt DC (2nd 4-20mA available); RS232 and RS485 Modbus RTU; Probe 1/2" OD • REMOTE Flow Indicator Transmitter (FT/FIT) - Remote Enclosure (10" x 8"); with 2-line 16 character LCD display and 4-button keypad; Output 4-20mA, 0-5 Volt DC (2nd 4-20mA available), two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; Signal Interface - RS232 and RS485 Modbus RTU; 24 Volt DC (Standard)

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0228	EA	1/2" Outside Diameter Probe, 0-5 Volt DC, 4-20mA Outputs, RS485 Modbus RTU, Insertion Flowmeter With Integral Electronics (Eldridge 8840MP-SSS-133)	5,619.66	40.30
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type SSH, Add	*3,697.88*	
		Note: Available for insertion meters only Available for AIR, Stack/Exhaust gas only (Consult facory if other) 316 Stainless Steel High Temperature 400 to 800°F (Insertion probe limited to 3/4", 1" diameter) Non-certified product, No Approvals		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For 6" Probe, Add	*20.60*	
		For 12" 316L Stainless Steel Probe, Add	*41.20*	
		For 18" 316L Stainless Steel Probe, Add	*82.40*	
		For 24" 316L Stainless Steel Probe, Add	*123.61*	
		For 36" 316L Stainless Steel Probe, Add	*164.81*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1502, Add	*236.91*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1503, Add	*257.51*	
		For 1" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1504, Add	*278.11*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1505, Add	*309.02*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1506, Add	*339.92*	
		For 2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1508, Add	*401.72*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1510, Add	*473.82*	
		For 3" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1512, Add	*556.23*	
		For 4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1516, Add	*803.44*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3002, Add	*319.32*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3003, Add	*350.22*	
		For 1" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3004, Add	*381.12*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3005, Add	*412.02*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3006, Add	*463.52*	
		For 2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3008, Add	*535.63*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3010, Add	*648.93*	
		For 3" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3012, Add	*751.94*	
		For 4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3016, Add	*1,102.15*	
		For Additional Hardware Options, Add	*1,102.15*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0229	EA	3/4" Outside Diameter Probe, 0-5 Volt DC, 4-20mA Outputs, RS485 Modbus RTU, Insertion Flowmeter With Integral Electronics (Eldridge 8860MP-SSS-133)	6,123.38	54.59
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type SSH, Add	*3,697.88*	
		Note: Available for insertion meters only Available for AIR, Stack/Exhaust gas only (Consult facory if other) 316 Stainless Steel High Temperature 400 to 800°F (Insertion probe limited to 3/4", 1" diameter) Non-certified product, No Approvals		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For 6" Probe, Add	*20.60*	
		For 12" 316L Stainless Steel Probe, Add	*41.20*	
		For 18" 316L Stainless Steel Probe, Add	*82.40*	
		For 24" 316L Stainless Steel Probe, Add	*123.61*	
		For 36" 316L Stainless Steel Probe, Add	*164.81*	
		For 48" 316L Stainless Steel Probe, Add	*206.01*	
		For 60" 316L Stainless Steel Probe, Add	*247.21*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1502, Add	*236.91*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1503, Add	*257.51*	
		For 1" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1504, Add	*278.11*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1505, Add	*309.02*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1506, Add	*339.92*	
		For 2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1508, Add	*401.72*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1510, Add	*473.82*	
		For 3" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1512, Add	*556.23*	
		For 4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1516, Add	*803.44*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3002, Add	*319.32*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3003, Add	*350.22*	
		For 1" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3004, Add	*381.12*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3005, Add	*412.02*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3006, Add	*463.52*	
		For 2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3008, Add	*535.63*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3010, Add	*648.93*	
		For 3" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3012, Add	*751.94*	
		For 4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3016, Add	*1,102.15*	
		For Additional Hardware Options, Add	*1,102.15*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0230	EA	1" Outside Diameter Probe, 0-5 Volt DC, 4-20mA Outputs, RS485 Modbus RTU, Insertion Flowmeter With Integral Electronics (Eldridge 8880MP-SSS-133)	6,623.11	62.39
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type SSH, Add	*3,697.88*	
		Note: Available for insertion meters only Available for AIR, Stack/Exhaust gas only (Consult facory if other) 316 Stainless Steel High Temperature 400 to 800°F (Insertion probe limited to 3/4", 1" diameter) Non-certified product, No Approvals		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For 6" Probe, Add	*20.60*	
		For 12" 316L Stainless Steel Probe, Add	*41.20*	
		For 18" 316L Stainless Steel Probe, Add	*82.40*	
		For 24" 316L Stainless Steel Probe, Add	*123.61*	
		For 36" 316L Stainless Steel Probe, Add	*164.81*	
		For 48" 316L Stainless Steel Probe, Add	*206.01*	
		For 60" 316L Stainless Steel Probe, Add	*247.21*	
		For 72" 316L Stainless Steel Probe, Add	*288.41*	
		For 84" 316L Stainless Steel Probe, Add	*329.62*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1502, Add	*236.91*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1503, Add	*257.51*	
		For 1" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1504, Add	*278.11*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1505, Add	*309.02*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1506, Add	*339.92*	
		For 2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1508, Add	*401.72*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1510, Add	*473.82*	
		For 3" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1512, Add	*556.23*	
		For 4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1516, Add	*803.44*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3002, Add	*319.32*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3003, Add	*350.22*	
		For 1" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3004, Add	*381.12*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3005, Add	*412.02*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3006, Add	*463.52*	
		For 2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3008, Add	*535.63*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3010, Add	*648.93*	
		For 3" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3012, Add	*751.94*	
		For 4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3016, Add	*1,102.15*	
		For Additional Hardware Options, Add	*1,102.15*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0231	EA	1/2" Outside Diameter Probe, 0-5 Volt DC, 4-20mA Outputs, RS485 Modbus RTU, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT), Insertion Flowmeter With Remote Electronics (Eldridge 8240MP-SSS-133)	6,546.70	40.30
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type SSH, Add	*3,697.88*	
		Note: Available for insertion meters only Available for AIR, Stack/Exhaust gas only (Consult facory if other) 316 Stainless Steel High Temperature 400 to 800°F (Insertion probe limited to 3/4", 1" diameter) Non-certified product, No Approvals		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For 6" Probe, Add	*20.60*	
		For 12" 316L Stainless Steel Probe, Add	*41.20*	
		For 18" 316L Stainless Steel Probe, Add	*82.40*	
		For 24" 316L Stainless Steel Probe, Add	*123.61*	
		For 36" 316L Stainless Steel Probe, Add	*164.81*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1502, Add	*236.91*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1503, Add	*257.51*	
		For 1" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1504, Add	*278.11*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1505, Add	*309.02*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1506, Add	*339.92*	
		For 2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1508, Add	*401.72*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1510, Add	*473.82*	
		For 3" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1512, Add	*556.23*	
		For 4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1516, Add	*803.44*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3002, Add	*319.32*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3003, Add	*350.22*	
		For 1" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3004, Add	*381.12*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3005, Add	*412.02*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3006, Add	*463.52*	
		For 2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3008, Add	*535.63*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3010, Add	*648.93*	
		For 3" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3012, Add	*751.94*	
		For 4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3016, Add	*1,102.15*	
		For Additional Hardware Options, Add	*1,102.15*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0232	EA	3/4" Outside Diameter Probe, 0-5 Volt DC, 4-20mA Outputs, RS485 Modbus RTU, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT), Insertion Flowmeter With Remote Electronics (Eldridge 8260MP-SSS-133)	7,050.43	54.59
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type SSH, Add	*3,697.88*	
		Note: Available for insertion meters only Available for AIR, Stack/Exhaust gas only (Consult facory if other) 316 Stainless Steel High Temperature 400 to 800°F (Insertion probe limited to 3/4", 1" diameter) Non-certified product, No Approvals		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For 6" Probe, Add	*20.60*	
		For 12" 316L Stainless Steel Probe, Add	*41.20*	
		For 18" 316L Stainless Steel Probe, Add	*82.40*	
		For 24" 316L Stainless Steel Probe, Add	*123.61*	
		For 36" 316L Stainless Steel Probe, Add	*164.81*	
		For 48" 316L Stainless Steel Probe, Add	*206.01*	
		For 60" 316L Stainless Steel Probe, Add	*247.21*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1502, Add	*236.91*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1503, Add	*257.51*	
		For 1" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1504, Add	*278.11*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1505, Add	*309.02*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1506, Add	*339.92*	
		For 2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1508, Add	*401.72*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1510, Add	*473.82*	
		For 3" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1512, Add	*556.23*	
		For 4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1516, Add	*803.44*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3002, Add	*319.32*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3003, Add	*350.22*	
		For 1" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3004, Add	*381.12*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3005, Add	*412.02*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3006, Add	*463.52*	
		For 2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3008, Add	*535.63*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3010, Add	*648.93*	
		For 3" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3012, Add	*751.94*	
		For 4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3016, Add	*1,102.15*	
		For Additional Hardware Options, Add	*1,102.15*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0233	EA	1" Outside Diameter Probe, 0-5 Volt DC, 4-20mA Outputs, RS485 Modbus RTU, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT), Insertion Flowmeter With Remote Electronics (Eldridge 8280MP-SSS-133)	7,550.15	62.39
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type SSH, Add	*3,697.88*	
		Note: Available for insertion meters only Available for AIR, Stack/Exhaust gas only (Consult facory if other) 316 Stainless Steel High Temperature 400 to 800°F (Insertion probe limited to 3/4", 1" diameter) Non-certified product, No Approvals		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For 6" Probe, Add	*20.60*	
		For 12" 316L Stainless Steel Probe, Add	*41.20*	
		For 18" 316L Stainless Steel Probe, Add	*82.40*	
		For 24" 316L Stainless Steel Probe, Add	*123.61*	
		For 36" 316L Stainless Steel Probe, Add	*164.81*	
		For 48" 316L Stainless Steel Probe, Add	*206.01*	
		For 60" 316L Stainless Steel Probe, Add	*247.21*	
		For 72" 316L Stainless Steel Probe, Add	*288.41*	
		For 84" 316L Stainless Steel Probe, Add	*329.62*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1502, Add	*236.91*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1503, Add	*257.51*	
		For 1" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1504, Add	*278.11*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1505, Add	*309.02*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1506, Add	*339.92*	
		For 2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1508, Add	*401.72*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1510, Add	*473.82*	
		For 3" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1512, Add	*556.23*	
		For 4" Flange, 150 Lb. ANSI Flange welded to probe, Mounting Type FBL1516, Add	*803.44*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3002, Add	*319.32*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3003, Add	*350.22*	
		For 1" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3004, Add	*381.12*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3005, Add	*412.02*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3006, Add	*463.52*	
		For 2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3008, Add	*535.63*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3010, Add	*648.93*	
		For 3" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3012, Add	*751.94*	
		For 4" Flange, 300 Lb. ANSI Flange welded to probe, Mounting Type FBL3016, Add	*1,102.15*	
		For Additional Hardware Options, Add	*1,102.15*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	

46 82 83 00-0234 Inline MP Series Flowmeters *(46 82 83 00-0226)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0235	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 1/4" Outside Diameter x 6" Length Pipe (Eldridge 8036MP-SSS-133)	6,554.31	32.50
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0236	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 3/8" Outside Diameter x 6" Length Pipe (Eldridge 8049MP-SSS-133)	6,581.41	36.39
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0237	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 1/2" Outside Diameter x 7" Length Pipe (Eldridge 8059MP-SSS-133)	6,608.51	38.99
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0238	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 3/4" Outside Diameter x 7" Length Pipe (Eldridge 8069MP-SSS-133)	6,659.01	54.59
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0239	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 1" Outside Diameter x 8" Length Pipe (Eldridge 8089MP-SSS-133)	6,705.51	62.39
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0240	EA	0-5 Volt DC, 4-20mA Ouputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 1-1/4" Outside Diameter x 10" Length Pipe (Eldridge 8110MP-SSS-133)	6,767.61	77.99
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0241	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 1-1/2" Outside Diameter x 14" Length Pipe (Eldridge 8112MP-SSS-133)	6,829.70	93.59
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0242	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 2" Outside Diameter x 14" Length Pipe (Eldridge 8116MP-SSS-133)	6,912.40	109.19
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0243	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 2-1/2" Outside Diameter x 14" Length Pipe (Eldridge 8120MP-SSS-133)	7,014.40	123.49
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0244	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 3" Outside Diameter x 14" Length Pipe (Eldridge 8124MP-SSS-133)	9,186.81	139.09
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0245	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Mounted Master-Touch™ Flow Element/Flow Transmitter (FE/FT), Stainless Steel, Inline Flowmeter With Remote Electronics For 4" Outside Diameter x 14" Length Pipe (Eldridge 8132MP-SSS-133)	10,208.32	232.68
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0246	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 1/4" Ouitside Diameter x 6" Length Pipe (Eldridge 8636MP-SSS-133)	5,719.96	32.50
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0247	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 3/8" Ouitside Diameter x 6" Length Pipe (Eldridge 8649MP-SSS-133)	5,747.07	36.39
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0248	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 1/2" Ouitside Diameter x 7" Length Pipe (Eldridge 8659MP-SSS-133)	5,774.17	38.99
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0249	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 3/4" Ouitside Diameter x 7" Length Pipe (Eldridge 8669MP-SSS-133)	5,824.67	54.59
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0250	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 1" Ouitside Diameter x 8" Length Pipe (Eldridge 8689MP-SSS-133)	5,871.17	62.39
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0251	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 1-1/4" Ouitside Diameter x 10" Length Pipe (Eldridge 8710MP-SSS-133)	5,933.27	77.99
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0252	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 1-1/2" Ouitside Diameter x 14" Length Pipe (Eldridge 8712MP-SSS-133)	5,995.36	93.59
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0253	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 2" Ouitside Diameter x 14" Length Pipe (Eldridge 8716MP-SSS-133)	6,078.06	109.19
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0254	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 2-1/2" Ouitside Diameter x 14" Length Pipe (Eldridge 8720MP-SSS-133)	6,180.06	123.49
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0255	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 3" Ouitside Diameter x 14" Length Pipe (Eldridge 8724MP-SSS-133)	8,465.78	139.09
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

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CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0256	EA	0-5 Volt DC, 4-20mA Outputs, RS232/RS485 Modbus RTU, Inline, Mounted Master-Touch Flow Element/Flow Indicator Transmitter (FE/FIT) Inline Flowmeter With Integral Electronics For 4" Ouitside Diameter x 14" Length Pipe (Eldridge 8732MP-SSS-133)	9,487.29	232.68
		For Enclosure Type DCEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) DCEX double-sided, explosion-proof remote enclosure for DC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; two 1 amperes at 30 Volt DC Relays, user selectable alarm functions; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Enclosure Type ACEX, Add	*607.73*	
		Note: REMOTE - Flow Indicator Transmitter (FT/FIT) ACEX double-sided, explosion-proof remote enclosure for AC input power with 2" pipe mounting bracket assembly; 2-line 16 character display/4-button keypad; 0-5 Volt DC (2nd 4-20mA available), 4-20mA outputs; RS485 Modbus RTU; For use in Hazardous Area Locations; CSA/CUS T2 Approved Instrument — For use in hazardous area locations; Class I Division 1, Group B, C, D; Class II Group E, F, G; Class III; Enclosure Type 4X; Class I Zone I; AEx d IIB+H2 IP66; Ex d IIB+H2 IP66; T2; Ta = 0°C to 50°C		
		For Sensor Type HAS, Add	*4,079.00*	
		Note: C276 Hastelloy up to 400°F (Consult factory, other wetted parts may be needed) (Insertion probe 1/2", 3/4", 1" diameter)		
		For Display and Keypad - Flow Indicator Transmitter (FIT), Type 133, Add	*309.02*	
		For Power Option AC115 (115 VAC), Add	*381.12*	
		For Power Optin AC230 (230 VAC), Add	*381.12*	
		For Option MW075 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (167°F / 75°C), Add	*123.61*	
		For Option MW100 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (212°F / 100°C), Add	*447.04*	
		For Option MW125 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (257°F / 125°C), Add	*772.54*	
		For Option MW150 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (302°F / 150°C), Add	*1,095.97*	
		For Option MW175 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (347°F / 175°C), Add	*1,421.47*	
		For Option MW200 AIR, Stack/Exhaust gas only, Gas Temperature Maximum (392°F / 200°C), Add	*1,744.90*	
		For Air Gas Option (pressure above 125 PSI), AIR, Add	*334.89*	
		For Argon Gas Option (pressure above 125 PSI), AR, Add	*606.66*	
		For Carbon Dioxide Gas Option (pressure above 125 PSI), CO2, Add	*433.44*	
		For Ethane Gas Option (pressure above 125 PSI), C2H6, Add	*1,386.12*	
		For Ethylene Gas Option (pressure above 125 PSI), C2H4, Add	*1,386.12*	
		For Helium Gas Option (pressure above 125 PSI), He, Add	*1,334.62*	
		For Methane Gas Option (pressure above 125 PSI), CH4, Add	*957.95*	
		For Methane and Carbon Dioxide - Mix Gas Option (pressure above 125 PSI), CH4/CO2, Add	*1,086.83*	
		For Natural Gas (Methane Substitute) Gas Option (pressure above 125 PSI), Nat. Gas, Add	*957.95*	
		For Nitrogen Gas Option (pressure above 125 PSI), N2, Add	*304.57*	
		For O2 (Air Substitute) Gas Option (pressure above 125 PSI), O2, Add	*334.89*	
		For Propane Gas Option (pressure above 125 PSI), C2H8, Add	*675.38*	
		For 1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1502, Add	*473.82*	
		For 3/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1503, Add	*515.02*	
		For 1" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1504, Add	*566.53*	
		For 1-1/4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1505, Add	*607.73*	
		For 1-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1506, Add	*679.83*	
		For 2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1508, Add	*793.14*	
		For 2-1/2" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1510, Add	*947.65*	
		For 3" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1512, Add	*1,112.45*	
		For 4" Flange, 150 Lb. ANSI Flange welded to flow body, Mounting Type FSW1516, Add	*1,617.18*	
		For 1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3002, Add	*648.93*	
		For 3/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3003, Add	*710.73*	
		For 1" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3004, Add	*772.54*	
		For 1-1/4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3005, Add	*834.34*	
		For 1-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3006, Add	*916.74*	
		For 2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3008, Add	*1,081.55*	
		For 2-1/2" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3010, Add	*1,297.86*	
		For 3" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3012, Add	*1,514.17*	
		For 4" Flange, 300 Lb. ANSI Flange welded to flow body, Mounting Type FSW3016, Add	*2,194.01*	

46 82 83 00-0257 Options And Accessories For MP Series Flowmeters *(46 82 83 00-0226)*

46 82 83 00-0258	LF	10' To 99' Cable Length Between FE/FT And Remote FT/FIT (Eldridge CBL)	4.12
46 82 83 00-0259	EA	Stainless Steel Identification Tag (Eldridge TAG)	92.70
46 82 83 00-0260	EA	HART Communications Module (Eldridge HART)	607.73
46 82 83 00-0261	EA	Profibus DP Communications Module (Eldridge Profibus DP)	607.73
46 82 83 00-0262	EA	1/2" Tube x 1/2" MNPT, Compression Fitting (Eldridge TPM0808S)	133.91
46 82 83 00-0263	EA	1/2" Tube x 3/4" MNPT, Compression Fitting (Eldridge TPM0812S)	175.11
46 82 83 00-0264	EA	3/4" tube x 3/4" MNPT, Compression Fitting (Eldridge TPM1212S)	206.01
46 82 83 00-0265	EA	3/4" tube x 1" MNPT, Compression Fitting (Eldridge TPM1216S)	370.82
46 82 83 00-0266	EA	1" tube x 1" MNPT, Compression Fitting (Eldridge TPM1616S)	360.52
46 82 83 00-0267	EA	1/2" Probe Bore/Seal x 3/4" NPT x 10" Long, Ball Valve (Eldridge BVR0812T)	854.94
46 82 83 00-0268	EA	3/4" Probe Bore/Seal x 1" NPT x 11" Long, Ball Valve (Eldridge BVR1216T)	1,102.15
46 82 83 00-0269	EA	1" Probe Bore/Seal x 1-1/4" NPT x 12" Long, Ball Valve (Eldridge BVR1620T)	2,214.61
46 82 83 00-0270	EA	Ball Valve Retractor Assembly With Medium Pressure Extractor Assembly For 1/2" Outside Diameter Probe (Eldridge MPR0812)	9,270.45

46 82 83 00-0271 Flow Equipment (Flexim) *(46 82 83 00-0099)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0272	EA	Large Pipe Ultrasonic Flow Meter Solution (Flexim 7407MC.LARGE.DEP) Note: Includes one ADM 7407 Dual Channel Permanent Flowmeter (FLUXUS Type F704) With NEMA 4X with LCD display and keypad; 2 x 4 to 20mA active outputs, 3 x solid state relay; and 100 to 240 VAC, RS-232 and data logger standard. Includes pair of type G clamp-on flow transducers With pipe diameter range 12" to 255", with 16.4' cable; temperature -40 to +266 degree F, includes coupling pads; type: CDG1N52; and calibration is traceable to NIST and A2LA/ISO 17025 accredited. Includes permaLok type K, G, H mounting track with stainless steel SS304 track and SOLID BAND strap kit; DIRECT/REFLECT mount installation in two tracks; and pipe diameter range of 12" to 100".	27,220.58	335.01
46 82 83 00-0273	EA	Small Pipe Ultrasonic Flow Meter Solution (Flexim 7407SC.SMALL.DEP) Note: Includes one ADM 7407 Single Channel Permanent Flowmeter (FLUXUS Type F704) With NEMA 4X with LCD display and keypad; 1 x 4 to 20mA active outputs, 3 x solid state relay; and 100 to 240 VAC, RS-232 and data logger standard. Includes pair of type M clamp-on flow transducers With pipe diameter range 4" to 24", with 13.1' cable; temperature -40 to +266 degree F, includes coupling pads; type: CDM2N52; and calibration is traceable to NIST and A2LA/ISO 17025 accredited. Includes permaLok type M/P mounting track with stainless steel SS304 track and strapping; DIRECT/REFLECT mount installation in two tracks; and pipe diameter range of 3" to 12".	13,496.19	335.01
46 82 83 00-0274	LF	Extension Cable (Flexim DUAL TRIAX Xdcr) Note: Includes two inner conductor Triaxil shielded cable, 0.50" Max OD with halogen free FRNC, ONE cable required per transducer pair; full reel length 2000'.	9.03	0.45
46 82 83 00-0275	EA	J-Box For Cable Extension Of FLOW Sensor (Flexim) Note: Stainless Steel 316 construction; standard TS connection; IP 67 / NEMA 6 (submersible to 1 meter)	638.13	56.40
46 82 83 00-0276		Flow Equipment (Foxboro) *(46 82 83 00-0099)*		
46 82 83 00-0277		Magnetic Flow Meters For Chlorine Service *(46 82 83 00-0276)*		
46 82 83 00-0278	EA	1" Diameter Pipe Magnetic Flowtube (Meter), For Chlorine Service, 304 Stainless Steel, Polytetrafluoroethylene (PTFE) Lining Material, Titanium Electrodes, NEMA 4, Remote Transmitter. Model: Foxboro Company #93XA-SIBA-TTJ-GN	4,502.21	43.67
46 82 83 00-0279	EA	2" Diameter Pipe Magnetic Flowtube (Meter), For Chlorine Service, 304 Stainless Steel, Polytetrafluoroethylene (PTFE) Lining Material, Titanium Electrodes, NEMA 4, Remote Transmitter. Model: Foxboro Company #93XA-SIBA-TTJ-GN	5,046.03	86.75
46 82 83 00-0280	EA	3" Diameter Pipe Magnetic Flowtube (Meter), For Chlorine Service, 304 Stainless Steel, Polytetrafluoroethylene (PTFE) Lining Material, Titanium Electrodes, NEMA 4, Remote Transmitter. Model: Foxboro Company #93XA-SIBA-TTJ-GN	5,370.47	134.60
46 82 83 00-0281	EA	4" Diameter Pipe Magnetic Flowtube (Meter), For Chlorine Service, 304 Stainless Steel, Polytetrafluoroethylene (PTFE) Lining Material, Titanium Electrodes, NEMA 4, Remote Transmitter. Model: Foxboro Company #93XA-SIBA-TTJ-GN	6,203.11	217.75
46 82 83 00-0282	EA	6" Diameter Pipe Magnetic Flowtube (Meter), For Chlorine Service, 304 Stainless Steel, Polytetrafluoroethylene (PTFE) Lining Material, Titanium Electrodes, NEMA 4, Remote Transmitter. Model: Foxboro Company #93XA-SIBA-TTJ-GN	8,328.05	239.29
46 82 83 00-0283	EA	8" Diameter Pipe Magnetic Flowtube (Meter), For Chlorine Service, 304 Stainless Steel, Polytetrafluoroethylene (PTFE) Lining Material, Titanium Electrodes, NEMA 4, Remote Transmitter. Model: Foxboro Company #93XA-SIBA-TTJ-GN	12,913.35	358.94
46 82 83 00-0284	EA	10" Diameter Pipe Magnetic Flowtube (Meter), For Chlorine Service, 304 Stainless Steel, Polytetrafluoroethylene (PTFE) Lining Material, Titanium Electrodes, NEMA 4, Remote Transmitter. Model: Foxboro Company #93XA-SIBA-TTJ-GN	17,431.59	418.64
46 82 83 00-0285	EA	12" Diameter Pipe Magnetic Flowtube (Meter), For Chlorine Service, 304 Stainless Steel, Polytetrafluoroethylene (PTFE) Lining Material, Titanium Electrodes, NEMA 4, Remote Transmitter. Model: Foxboro Company #93XA-SIBA-TTJ-GN	21,090.15	508.38
46 82 83 00-0286		Magnetic Flow Meters For Raw Sewage Service *(46 82 83 00-0276)*		
46 82 83 00-0287	EA	12" Diameter Pipe Magnetic Flowtube (Meter), Foxboro Company #93XA-SIBA-ASJ-GM	18,161.31	508.38
46 82 83 00-0288	EA	14" Diameter Pipe Magnetic Flowtube (Meter), Foxboro Company #93XA-SIBA-ASJ-GM	23,872.84	597.99
46 82 83 00-0289	EA	16" Diameter Pipe Magnetic Flowtube (Meter), Foxboro Company #93XA-SIBA-ASJ-GM	27,588.83	717.63
46 82 83 00-0290	EA	18" Diameter Pipe Magnetic Flowtube (Meter), Foxboro Company #93XA-SIBA-ASJ-GM	31,337.07	750.42
46 82 83 00-0291	EA	24" Diameter Pipe Magnetic Flowtube (Meter), Foxboro Company #93XA-SIBA-ASJ-GM	42,360.30	1,011.84
46 82 83 00-0292	EA	30" Diameter Pipe Magnetic Flowtube (Meter), Foxboro Company #93XA-SIBA-ASJ-GM	78,764.31	1,615.10
46 82 83 00-0293	EA	36" Diameter Pipe Magnetic Flowtube (Meter), Foxboro Company #93XA-SIBA-ASJ-GM	91,464.63	3,230.19
46 82 83 00-0294		Magnetic Flow Transmitter *(46 82 83 00-0276)*		
46 82 83 00-0295	EA	Magnetic Flow Transmitter, Surface Mounting, HART Protocol, Model: Foxboro Company #IMT25-SEATA10M or N	3,500.17	44.86
46 82 83 00-0296		Flow Equipment (Kates) *(46 82 83 00-0099)*		
46 82 83 00-0297		316 Stainless Steel Automatic Flow Rate Controllers *(46 82 83 00-0296)*		
46 82 83 00-0298	EA	0.02 - 0.5 GPM 316 Stainless Steel Automatic Flow Rate Controller, Kates #AB11T-B Note: 10 - 150 PSI differential pressure range, 1/2" FNPT connections, teflon seals, and dial lock device.	4,020.48	29.92
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 1/2" Raised Flange, 316 Stainless Steel Connection, Add	*410.00*	
46 82 83 00-0299	EA	0.05 - 1 GPM 316 Stainless Steel Stainless Steel Automatic Flow Rate Controller, Kates #BB11T-B Note: 10 - 150 PSI differential pressure range, 1/2" FNPT connections, teflon seals, and dial lock device.	4,020.48	29.92
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 1/2" Raised Flange, 316 Stainless Steel Connection, Add	*410.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0300	EA	0.1 - 3 GPM 316 Stainless Steel Automatic Flow Rate Controller, Kates #CB11T-B	4,020.48	29.92
		Note: 10 - 150 PSI differential pressure range, 1/2" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 1/2" Raised Flange, 316 Stainless Steel Connection, Add	*410.00*	
46 82 83 00-0301	EA	1 - 5 GPM 316 Stainless Steel Automatic Flow Rate Controller, Kates #EB11T-B	4,438.16	40.08
		Note: 10 - 150 PSI differential pressure range, 3/4" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 3/4" Raised Flange, 316 Stainless Steel Connection, Add	*460.00*	
46 82 83 00-0302	EA	1 - 12 GPM 316 Stainless Steel Automatic Flow Rate Controller, Kates #FB11T-B	4,438.16	40.08
		Note: 10 - 150 PSI differential pressure range, 3/4" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 3/4" Raised Flange, 316 Stainless Steel Connection, Add	*460.00*	
46 82 83 00-0303	EA	1 - 25 GPM 316 Stainless Steel Automatic Flow Rate Controller, Kates #GB11T-B	4,438.16	40.08
		Note: 10 - 150 PSI differential pressure range, 3/4" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 3/4" Raised Flange, 316 Stainless Steel Connection, Add	*460.00*	
46 82 83 00-0304		**Polyvinyl Chloride (PVC) Automatic Flow Rate Controllers** *(46 82 83 00-0296)*		
46 82 83 00-0305	EA	0.02 - 0.5 GPM Polyvinyl Chloride (PVC) Automatic Flow Rate Controller, Kates #AC11T-B	3,953.73	29.92
		Note: 10 - 150 PSI differential pressure range, 1/2" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 1/2" Raised Flange, Polyvinyl Chloride (PVC) Connection, Add	*400.00*	
46 82 83 00-0306	EA	0.05 - 1 GPM Polyvinyl Chloride (PVC) Automatic Flow Rate Controller, Kates #BC11T-B	3,953.73	29.92
		Note: 10 - 150 PSI differential pressure range, 1/2" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 1/2" Raised Flange, Polyvinyl Chloride (PVC) Connection, Add	*400.00*	
46 82 83 00-0307	EA	0.1 - 3 GPM Polyvinyl Chloride (PVC) Automatic Flow Rate Controller, Kates #CC11T-B	3,953.73	29.92
		Note: 10 - 150 PSI differential pressure range, 1/2" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 1/2" Raised Flange, Polyvinyl Chloride (PVC) Connection, Add	*400.00*	
46 82 83 00-0308	EA	1 - 5 GPM Polyvinyl Chloride (PVC) Automatic Flow Rate Controller, Kates #EC11T-B	4,371.40	40.08
		Note: 10 - 150 PSI differential pressure range, 1/2" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 3/4" Raised Flange, Polyvinyl Chloride (PVC) Connection, Add	*430.00*	
46 82 83 00-0309	EA	1 - 12 GPM Polyvinyl Chloride (PVC) Automatic Flow Rate Controller, Kates #FC11T-B	4,371.40	40.08
		Note: 10 - 150 PSI differential pressure range, 1/2" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 3/4" Raised Flange, Polyvinyl Chloride (PVC) Connection, Add	*430.00*	
46 82 83 00-0310	EA	1 - 25 GPM Polyvinyl Chloride (PVC) Automatic Flow Rate Controller, Kates #GC11T-B	4,371.40	40.08
		Note: 10 - 150 PSI differential pressure range, 1/2" FNPT connections, teflon seals, and dial lock device.		
		For Actuator, Worcester #AW14 With Peaktronics Controls, 120 Volt AC, Add	*2,060.00*	
		Note: 120 VAC, Add		
		For 3/4" Raised Flange, Polyvinyl Chloride (PVC) Connection, Add	*430.00*	
46 82 83 00-0311		**Flow Equipment (Krohne)** *(46 82 83 00-0099)*		
		Note: Non-explosives areas, hardrubber lining, Hastelloy C22 exchangeable electrodes, IP 67 protection category, two stainless steel grounding rings, separate with aluminum connection box, 30' of connecting cable for remote connection to signal converter.		
46 82 83 00-0312	EA	1" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB1444A04123211010600)	2,090.93	89.74
46 82 83 00-0313	EA	1-1/2" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB1446A04123211010600)	2,135.48	125.63
46 82 83 00-0314	EA	2" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB1447A04123211010600)	2,130.82	159.49
46 82 83 00-0315	EA	3" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144AA04123211010600)	2,247.45	203.40
46 82 83 00-0316	EA	4" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144BA04123211010600)	2,780.62	340.99
46 82 83 00-0317	EA	5" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144CA04123211010600)	3,083.06	387.65
46 82 83 00-0318	EA	6" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144DA04123211010600)	3,417.31	430.72
46 82 83 00-0319	EA	8" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144EA04123211010600)	4,694.92	550.37
46 82 83 00-0320	EA	10" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144FA04123211010600)	5,934.24	670.01
46 82 83 00-0321	EA	12" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144GA04123211010600)	6,234.86	813.59
46 82 83 00-0322	EA	14" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144HA04123211010600)	7,894.94	903.76
46 82 83 00-0323	EA	16" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144KA04123211010600)	9,695.99	677.71
46 82 83 00-0324	EA	18" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144LA04123211010600)	11,692.52	1,102.59

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0325	EA	20" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144MA04123211010600)	13,228.73	1,242.67
46 82 83 00-0326	EA	24" 150 LB Carbon Steel RF Flanges, Electro Magnetic Flow Sensor ENVIROMAG 2000F (Krohne VB144NA04123211010600)	17,132.93	1,525.10
46 82 83 00-0327	EA	Signal Converter For Electromagnetic Flowmeters IFC100 (Krohne VN314NA0430010100003)	1,811.85	56.48
		For FM Class 1, Div 2, Add	*116.61*	
		For Stainless Steel Converter Box, Add	*42.40*	
46 82 83 00-0328	EA	Signal Converter For Electromagnetic Flowmeters IFC300 (Krohne VN304NA0430010100000)	2,623.85	56.48
		For FM Class 1, Div 2, Add	*116.61*	
		For Stainless Steel Converter Box, Add	*42.40*	

46 82 83 00-0329 Flow Equipment (Kurz) *(46 82 83 00-0099)*

46 82 83 00-0330 Flow Meters *(46 82 83 00-0329)*

Note: Drill hole and install

46 82 83 00-0331	EA	Various Gases, Calibrated Flow Meter (Kurz 454FTB)	7,230.69	74.78
		Note: 316 stainless steel sensor support, 115 VAC, enclosure attached to sensor. For 2" to 36" diameter pipe.		
		For Remote Electronics, Add	*807.76*	
		For 24 Volt DC Power, Deduct	*-483.38*	
46 82 83 00-0332	EA	Wet Digester Gas, Calibrated Flow Meter (Kurz 454FTB-WGF)	8,850.45	74.78
		Note: 316 stainless steel sensor support, 115 V AC, enclosure attached to sensor. For 2" to 36" diameter pipe.		
		For Remote Electronics, Add	*807.76*	
		For 24 Volt DC Power, Deduct	*-483.38*	

46 82 83 00-0333 Flow Equipment (Micronics) *(46 82 83 00-0099)*

46 82 83 00-0334 Ultrasonic Portable *(46 82 83 00-0333)*

46 82 83 00-0335	EA	1/2" To 4-1/2", 20 Hour, Type A, Clamp-On Portable Flowmeter (Micronics PORTAFLOW 220)	8,127.49	149.56
46 82 83 00-0336	EA	2" To 40", 20 Hour, Type B, Clamp-On Portable Flowmeter (Micronics PORTAFLOW 220)	9,244.94	167.50
46 82 83 00-0337	EA	1/2" To 4-1/2", 20 Hour, Type A-Only, Clamp-On Portable Flowmeter (Micronics PORTAFLOW 330)	13,457.21	239.29
46 82 83 00-0338	EA	2" To 79", 20 Hour, Type B-Only, Clamp-On Portable Flowmeter (Micronics PORTAFLOW 330)	13,481.14	251.26
46 82 83 00-0339	EA	1/2" To 78", 20 Hour, Type A+B, Clamp-On Portable Flowmeter (Micronics PORTAFLOW 330)	14,960.77	275.19
46 82 83 00-0340	EA	1/2" To 78", 20 Hour, Type A+B, Clamp-On Portable Flowmeter (Micronics PORTAFLOW 330HT)	16,437.07	287.15
46 82 83 00-0341	EA	1/2" To 78", 20 Hour, Type A+B, Clamp-On Portable Flowmeter (Micronics PORTAFLOW 330IP68)	16,472.96	305.10
46 82 83 00-0342	EA	2" To 78", 20 Hour, Clamp-On Portable Flowmeter (Micronics PORTAFLOW 440IP)	15,707.39	293.13

46 82 83 00-0343 Ultrasonic Portable Spares *(46 82 83 00-0333)*

46 82 83 00-0344	EA	Type A Sensor For PORTAFLOW 330HT	2,307.31
46 82 83 00-0345	EA	Type B Sensor For PORTAFLOW 330HT	2,307.31
46 82 83 00-0346	EA	Type A Sensor For PORTAFLOW 330IP68	2,307.31
46 82 83 00-0347	EA	Type B Sensor For PORTAFLOW 330IP68	2,307.31
46 82 83 00-0348	EA	Type B Spare Transducer For PORTAFLOW 220 And 330	1,596.58
46 82 83 00-0349	EA	Type A Spare Transducer For PORTAFLOW 220 And 330	1,596.58
46 82 83 00-0350	EA	Type B Spare Transducer For PORTAFLOW 440	2,307.31
46 82 83 00-0351	EA	Type D Sensor	4,449.82
46 82 83 00-0352	EA	Keypad For PORTAFLOW 330	115.37
46 82 83 00-0353	EA	Keypad For PORTAFLOW 220	115.37
46 82 83 00-0354	EA	Pulse Cable Assembly For PORTAFLOW 220 And 330	138.03
46 82 83 00-0355	EA	RS232 Cable Assembly For PORTAFLOW 330	181.29
46 82 83 00-0356	EA	USB Cable Assembly For PORTAFLOW 330	181.29
46 82 83 00-0357	EA	2 Meter, Red Transducer Cable For PORTAFLOW 220 And 330	181.29
46 82 83 00-0358	EA	2 Meter, Blue Transducer Cable For PORTAFLOW 220 And 330	181.29
46 82 83 00-0359	EA	5 Meter, Blue Transducer Cable For PORTAFLOW 220 And 330	168.93
46 82 83 00-0360	EA	5 Meter, Red Transducer Cable For PORTAFLOW 220 And 330	168.93
46 82 83 00-0361	EA	10 Meter, Red Transducer Cable For PORTAFLOW 220 And 330	197.77
46 82 83 00-0362	EA	10 Meter, Blue Transducer Cable For PORTAFLOW 220 And 330	197.77
46 82 83 00-0363	EA	Carry Case With Foam For PORTAFLOW 330	920.86
46 82 83 00-0364	EA	Carry Case With Foam For PORTAFLOW 220	525.33
46 82 83 00-0365	EA	Carry Case And Foam With Blank Grey Clips For PORTAFLOW 220	494.42
46 82 83 00-0366	EA	Engraved, Metric Gudie Rail Ruler For PORTAFLOW 220 And 330	181.29
46 82 83 00-0367	EA	1.6mm X 13mm, Zinc, Starihgt Link Chain	8.24
46 82 83 00-0368	EA	Battery For PORTAFLOW 220 And 330	395.54
46 82 83 00-0369	EA	Transducer Test Block For PORTAFLOW 220 And 330	273.99
46 82 83 00-0370	EA	Stainless Steel Guide Rail Assembly With Ruler And Chain For PORTAFLOW 220 And 330	1,524.47
46 82 83 00-0371	EA	Stainless Steel Guide Rail Assembly With Ruler And Chain For PORTAFLOW 440IP	1,524.47
46 82 83 00-0372	EA	Stainless Steel Guide Rail Assembly For PORTAFLOW 220 And 330	576.83
46 82 83 00-0373	EA	Stainless Steel Guide Rail Assembly For PORTAFLOW 440	576.83
46 82 83 00-0374	EA	85 GM, Superlube Grease	76.22
46 82 83 00-0375	EA	Portable Heat Meter	4,851.54
46 82 83 00-0376	EA	AC Adapter Kit For PORTAFLOW 440IP	168.93
46 82 83 00-0377	EA	AC Adapter Kit For PORTAFLOW 220 And 330	168.93
46 82 83 00-0378	EA	M3 x 12mm, Stainless Steel, Thumb Screw For Ruler	12.36
46 82 83 00-0379	EA	M5 x 25mm, Stainless Steel, Thumb Screw For Transducer	12.36

46 82 83 00-0380 Ultrasonic Permanent *(46 82 83 00-0333)*

46 82 83 00-0381	EA	Pulse And 4-20 mA Universal Transmitter (Micronics ULTRAFLO 1000)	3,843.78	67.80
46 82 83 00-0382	EA	Pulse And Modbus BTU Meter (Micronics ULTRAFLO 1000)	5,000.43	84.75
46 82 83 00-0383	EA	110/240 Volt AC, Type A, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	8,110.87	141.25

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0384	EA	24 Volt DC, Type A, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	8,110.87	141.25
46 82 83 00-0385	EA	110/240 Volt AC, Type A-IP68, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	8,860.16	155.93
46 82 83 00-0386	EA	24 Volt DC, Type A-IP68, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	8,860.16	155.93
46 82 83 00-0387	EA	110/240 Volt AC, Type A-HT, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	8,860.16	155.93
46 82 83 00-0388	EA	24 Volt DC, Type A-HT, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	8,860.16	155.93
46 82 83 00-0389	EA	110/240 Volt AC, Type B, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	8,921.96	155.93
46 82 83 00-0390	EA	24 Volt DC, Type B, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	8,921.96	155.93
46 82 83 00-0391	EA	110/240 Volt AC, Type B-IP68, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	9,671.25	169.50
46 82 83 00-0392	EA	24 Volt DC, Type B-IP68, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	9,671.25	169.50
46 82 83 00-0393	EA	110/240 Volt AC, Type B-HT, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	9,671.25	169.50
46 82 83 00-0394	EA	24 Volt DC, Type B-HT, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	9,671.25	169.50
46 82 83 00-0395	EA	110/240 Volt AC, Type D, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	10,120.82	178.54
46 82 83 00-0396	EA	24 Volt DC, Type D, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 3000)	10,120.82	178.54
46 82 83 00-0397	EA	110/240 Volt AC, Type A, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	9,609.45	169.50
46 82 83 00-0398	EA	24 Volt DC, Type A, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	9,609.45	169.50
46 82 83 00-0399	EA	110/240 Volt AC, Type A-IP68, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	10,301.57	180.80
46 82 83 00-0400	EA	24 Volt DC, Type A-IP68, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	10,301.57	180.80
46 82 83 00-0401	EA	110/240 Volt AC, Type A-HT, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	10,301.57	180.80
46 82 83 00-0402	EA	24 Volt DC, Type A-HT, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	10,301.57	180.80
46 82 83 00-0403	EA	110/240 Volt AC, Type B, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	10,410.23	184.19
46 82 83 00-0404	EA	24 Volt DC, Type B, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	10,410.23	184.19
46 82 83 00-0405	EA	110/240 Volt AC, Type B-IP68, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	11,159.51	197.75
46 82 83 00-0406	EA	24 Volt DC, Type B-IP68, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	11,159.51	197.75
46 82 83 00-0407	EA	110/240 Volt AC, Type B-HT, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	11,159.51	197.75
46 82 83 00-0408	EA	24 Volt DC, Type B-HT, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	11,428.34	203.40
46 82 83 00-0409	EA	110/240 Volt AC, Type D, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	11,428.34	203.40
46 82 83 00-0410	EA	24 Volt DC, Type D, Ultrasonic Flow Transmitter (Micronics ULTRAFLO 4000)	11,428.34	203.40
46 82 83 00-0411	EA	Diagonal Guide Rail For Type B Sensors	728.68	14.69

46 82 83 00-0412 Ultrasonic Permanent Spares *(46 82 83 00-0333)*

46 82 83 00-0413	EA	1/2" To 4-1/2", Type A, Spare Transducer	1,596.58	
46 82 83 00-0414	EA	2" To 79", Type B, Spare Transducer	1,771.69	
46 82 83 00-0415	EA	1/2" To 4-1/2", Type A-HT, Sensor	2,307.31	
46 82 83 00-0416	EA	1/2" To 4-1/2", Type A-IP68, Waterproof Sensor	2,307.31	
46 82 83 00-0417	EA	2" To 79", Type B-HT Sensor	2,492.72	
46 82 83 00-0418	EA	2" To 79", Type B-IP68, Waterproof Sensor	2,492.72	
46 82 83 00-0419	EA	59" To 196", Type D, Sensor	4,449.82	
46 82 83 00-0420	EA	IP68 Red Cable Meter	26.78	
46 82 83 00-0421	EA	IP68 Blue Cable Meter	26.78	
46 82 83 00-0422	EA	100 - 240 Volt Stepdown Transformer To 24V	92.70	
46 82 83 00-0423	LF	RG223/U Coax Cable	10.30	
46 82 83 00-0424	EA	5M Sensor Cable Assembly	168.93	
46 82 83 00-0425	EA	10M Sensor Cable Assembly	238.97	
46 82 83 00-0426	EA	15M Sensor Cable Assemb;y	387.30	
46 82 83 00-0427	EA	20M Sensor Cable Assembly	484.12	
46 82 83 00-0428	EA	5M Waterproof Sensor Cable Assembly	280.17	
46 82 83 00-0429	EA	10M Waterproof Sensor Cable Assembly	381.12	
46 82 83 00-0430	EA	Red, External HT Signal Cable Assembly	63.86	
46 82 83 00-0431	EA	Blue, External HT Signal Cable Assembly	63.86	
46 82 83 00-0432	EA	OMEGA 38 Grease In Syringe	20.60	
46 82 83 00-0433	EA	OMEGA 71 Grease In Syringe	20.60	
46 82 83 00-0434	EA	U1000 And U1000HM Gel Pad	4.12	
46 82 83 00-0435	EA	Calec With Modbus	3,975.99	
46 82 83 00-0436	EA	Claec With Bacnet And PT probes	5,315.06	
46 82 83 00-0437	EA	110 Volt AC, Calec With Pulse Output	2,863.54	
46 82 83 00-0438	EA	Battery Operated, Calec With Pulse Output	2,781.14	
46 82 83 00-0439	EA	Clamp-On Temperature Sensors	741.64	

46 82 83 00-0440 Doppler *(46 82 83 00-0333)*

46 82 83 00-0441	EA	Stingray, Portable, Level-Velocity Logger	10,740.84	189.83
46 82 83 00-0442	EA	Portable Doppler Flow Meter (Micronics PDFM-5.0)	11,405.07	212.97
46 82 83 00-0443	EA	Doppler Flow Monitor (Micronics DFM-5.0)	6,039.12	105.09
46 82 83 00-0444	EA	Open Channel Flow Monitor (Micronics OC5000)	7,000.07	122.03
46 82 83 00-0445	EA	Level And Flow Monitor (Micronics SLT-5.0)	5,409.80	99.44
46 82 83 00-0446	EA	Doppler Flow Switch (Micronics DFS-II)	2,289.06	42.94
46 82 83 00-0447	EA	Level Indicating Transmitter (Micronics LIT25)	3,264.95	56.50
46 82 83 00-0448	EA	Pump Station Level Controller (Micronics PSL)	6,406.29	113.00
46 82 83 00-0449	EA	Differential Level Transmitter (Micronics UF DL5000)	9,139.28	161.59
46 82 83 00-0450	EA	Area-Velocity Flow Meter (Micronics UF AV5000)	9,986.92	178.54
46 82 83 00-0451	EA	Portable, Ultrasonic Depth Meter And Thickness Gauge	1,067.68	19.21

46 82 83 00-0452 Flow Equipment (Panametrics) *(46 82 83 00-0099)*

46 82 83 00-0453 Transit-Time Clamp-On Ultrasonic Flow Meter *(46 82 83 00-0452)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0454	EA	Transit-Time Clamp On Ultrasonic Flowmeter, NEMA 4X, Data Logging Capability, Two 4-20 mA Outputs, One RS232 Output, 120 Volt AC Power With Clamp-On Transducers, Clamping Fixtures And Permanent Solid Couplant. Panametrics #DF868	11,535.53	141.25
		For NEMA 7 Explosion-Proof Meter, Add	*2,235.00*	
		For Transflexion Measurement Technique For High Solid Concentration Measurement, Add	*360.00*	
		For Clamping Fixtures For Installation On Pipe >24", Add	*60.00*	
		For Additional Four 4-20mA Outputs, Add	*360.00*	
		For Additional Eight 4-20mA Outputs, Add	*720.00*	
46 82 83 00-0455		Flow Equipment (Polysonics) *(46 82 83 00-0099)*		
46 82 83 00-0456		Transit Time Flowmeter *(46 82 83 00-0455)*		
46 82 83 00-0457	EA	Dedicated Transit Time Flowmeter, NEMA 4X, 0-50 Ft/Sec Range, 4-20mA And RS232 Outputs, Transducers With 30' Interconnect Cable. Model: PEEK Polysonics #DCT6088	11,253.87	74.78
46 82 83 00-0458	EA	Portable Transit Time Flowmeter, NEMA 4X, 0.055-50 Ft/Sec Range, 4-20mA And RS232 Outputs, Transducers With 30' Interconnect Cable. Model: PEEK Polysonics #DCT7088	14,405.13	74.78
46 82 83 00-0459		Ultrasonic Level System *(46 82 83 00-0455)*		
46 82 83 00-0460	EA	Dedicated Dual Frequency Doppler Flowmeter, NEMA 4X, 0.02-32 Ft/Sec Range, 4-20mA And RS232 Outputs, Transducers With 30' Interconnect Cable. Model: PEEK Polysonics #SX40-1-1-30A	10,149.35	59.82
46 82 83 00-0461	EA	Portable Dual Frequency Doppler Flowmeter, NEMA 4X, 0.02-32 Ft/Sec Range, 4-20mA And RS232 Outputs, Transducers With 30' Interconnect Cable. Model: PEEK Polysonics #SX30-1-16A	17,452.79	59.82
46 82 83 00-0462		Flow Equipment (Rosemount) *(46 82 83 00-0099)*		
46 82 83 00-0463		Magnetic Flowmeters, Polyurethane Lining Magnetic Flowmeter *(46 82 83 00-0462)* Note: Flowtube model 8707		
46 82 83 00-0464	EA	3" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	5,405.63	192.09
46 82 83 00-0465	EA	4" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	6,336.95	322.05
46 82 83 00-0466	EA	6" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	7,614.21	406.80
46 82 83 00-0467	EA	8" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	9,482.52	519.79
46 82 83 00-0468	EA	10" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	10,916.66	632.79
46 82 83 00-0469	EA	12" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	16,885.43	768.39
46 82 83 00-0470	EA	14" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	19,890.94	903.99
46 82 83 00-0471	EA	16" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	25,541.30	994.38
46 82 83 00-0472	EA	18" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	28,252.26	1,102.86
46 82 83 00-0473	EA	20" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	33,705.83	1,242.98
46 82 83 00-0474	EA	24" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	37,597.41	1,525.48
46 82 83 00-0475	EA	30" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	44,917.72	2,485.96
46 82 83 00-0476	EA	36" High Signal Magnetic Flowtube; Polyurethane Liner; 316 Stainless Steel Electrodes; Carbon Steel 150 Lb. Flanges; Division 2 Certification	58,187.07	3,314.62
46 82 83 00-0477		Magnetic Flowmeter/Transmitter Assembly; Teflon Liner *(46 82 83 00-0462)* Note: Flowtube Model 8711		
46 82 83 00-0478	EA	1/2" Line Size; Magnetic Flow Tube; Wafer Design; Teflon Liner; 316 Stainless Steel Electrodes; Integral Mounted 8732E; Division 2 FM Approval	3,232.38	54.24
46 82 83 00-0479	EA	1" Line Size; Magnetic Flow Tube; Wafer Design; Teflon Liner; 316 Stainless Steel Electrodes; Integral Mounted 8732E; Division 2 FM Approval	3,271.18	85.28
46 82 83 00-0480	EA	1-1/2" Line Size; Magnetic Flow Tube; Wafer Design; Teflon Liner 316SST Electrodes; Integral Mounted 8732E; Division 2 FM Approval	4,349.47	118.95
46 82 83 00-0481	EA	2" Line Size; Magnetic Flow Tube; Wafer Design; Teflon Liner; 316 Stainless Steel Electrodes; Integral Mounted 8732E; Division 2 FM Approval	3,352.92	150.67
46 82 83 00-0482	EA	3" Line Size; Magnetic Flow Tube; Wafer Design; Teflon Liner; 316 Stainless Steel Electrodes; Integral Mounted 8732E; Division 2 FM Approval	4,005.48	192.33
46 82 83 00-0483	EA	4" Line Size; Magnetic Flow Tube; Wafer Design; Teflon Liner; 316 Stainless Steel Electrodes; Integral Mounted 8732E; Division 2 FM Approval	4,528.56	322.85
46 82 83 00-0484	EA	6" Line Size; Magnetic Flow Tube; Wafer Design; Teflon Liner; 316 Stainless Steel Electrodes; Integral Mounted 8732E; Division 2 FM Approval	6,055.45	408.25
46 82 83 00-0485	EA	8" Line Size; Magnetic Flow Tube; Wafer Design; Teflon Liner; 316 Stainless Steel Electrodes; Integral Mounted 8732E; Division 2 FM Approval	7,338.35	519.79
46 82 83 00-0486		Multi Variable Mass Flowmeters *(46 82 83 00-0462)*		
46 82 83 00-0487	EA	Multivariable Mass Flow Transmitters	7,981.97	
46 82 83 00-0488	EA	Rosemount Manifold	847.25	
46 82 83 00-0489	EA	12" RTD With 316 Stainless Steel Thermowell	923.38	

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0490		**Vortex Flowmeters** *(46 82 83 00-0462)*		
		Note: Model 8800D		
46 82 83 00-0491	EA	1/2" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	6,149.84	54.24
46 82 83 00-0492	EA	1" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	6,188.64	84.75
46 82 83 00-0493	EA	1-1/2" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	6,255.15	118.65
46 82 83 00-0494	EA	2" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	6,347.43	150.63
46 82 83 00-0495	EA	3" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	7,376.85	192.09
46 82 83 00-0496	EA	4" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	8,752.29	322.05
46 82 83 00-0497	EA	6" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	10,031.82	406.80
46 82 83 00-0498	EA	8" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	14,655.44	519.79
46 82 83 00-0499	EA	8" x 6" Line Size Reducer; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	13,683.71	462.41
46 82 83 00-0500	EA	10" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	22,728.43	632.79
46 82 83 00-0501	EA	10" x 8" Line Size Reducer; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	22,223.50	574.68
46 82 83 00-0502	EA	12" Line Size; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	26,085.71	768.39
46 82 83 00-0503	EA	12" x 10" Line Size Reducer; Flanged Vortex Flowmeter; Explosion Proof Enclosure; LCD Indicator	29,287.18	699.91
46 82 83 00-0504		**Magnetic Flowmeter Transmitters** *(46 82 83 00-0462)*		
46 82 83 00-0505	EA	Rosemount High Signal Magnetic Flowmeter Transmitter; Remote Mounting; 115 Volt AC Power; Local Operator Interface; Division 2 FM Certification	6,164.73	
46 82 83 00-0506		**Magnetic Flowmeter/Transmitter Assembly, Polyurethane Lining** *(46 82 83 00-0462)*		
		Note: Model 8750		
46 82 83 00-0507	EA	Rosemount 2" Line Size; Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	3,514.41	150.63
46 82 83 00-0508	EA	Rosemount 3" Line Size; Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	3,753.78	192.09
46 82 83 00-0509	EA	Rosemount 4" Line Size; Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	4,289.83	322.05
46 82 83 00-0510	EA	Rosemount 6" Line Size; Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	4,947.80	406.80
46 82 83 00-0511	EA	Rosemount 8" Line Size; Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	5,493.56	519.79
46 82 83 00-0512	EA	Rosemount 10" Line Size Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	7,093.05	632.79
46 82 83 00-0513	EA	Rosemount 12" Line Size Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	8,080.74	768.39
46 82 83 00-0514	EA	Rosemount 14" Line Size Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	9,855.96	903.99
46 82 83 00-0515	EA	Rosemount 16" Line Size Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	12,623.32	994.38
46 82 83 00-0516	EA	Rosemount 18" Line Size Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	13,638.28	1,102.86
46 82 83 00-0517	EA	Rosemount 20" Line Size Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	16,686.80	1,242.98
46 82 83 00-0518	EA	Rosemount 24" Line Size Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	22,968.24	1,525.48
46 82 83 00-0519	EA	Rosemount 30" Line Size Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	32,490.18	2,485.96
46 82 83 00-0520	EA	Rosemount 36" Line Size Magnetic Flowmeter/Transmitter Assembly; Polyurethane Liner; 316 Stainless Steel Electrodes; CS 150 LB Flanges; FM Approval for Division 2 Areas; 110 Volt AC Power	39,560.99	3,314.62
46 82 83 00-0521	EA	8714i Diagnostic Tool	2,209.50	
46 82 83 00-0522		**Flow Equipment (Scott Safety)** *(46 82 83 00-0099)*		
46 82 83 00-0523		**Scott Safety Fixed Systems** *(46 82 83 00-0522)*		
46 82 83 00-0524	EA	MALE CONNECTOR (Scott Safety 0003-1822)	34.23	1.69
46 82 83 00-0525	EA	6' RIBBON CABLE (Scott Safety 0010-1120)	242.08	11.99
46 82 83 00-0526	EA	CTOR BODY ASSEMBLY (Scott Safety 0023-4019)	757.29	37.52
46 82 83 00-0527	EA	PCB ASSY, CD800/830 (Scott Safety 0023-4043)	3,289.89	162.98
46 82 83 00-0528	EA	GASKET (Scott Safety 0023-4067)	3.72	0.18
46 82 83 00-0529	EA	VALVE DIAPHRAM (Scott Safety 0023-4218)	21.73	1.08
46 82 83 00-0530	EA	10 IN ALUM PROBE TUBE ONLY (Scott Safety 0023-4672)	37.25	1.84
46 82 83 00-0531	EA	BATTERY-12V, 2.5AH (Scott Safety 004-0002)	282.44	14.00
46 82 83 00-0532	EA	BATTERY-12V, 1.2 AH, LEAD ACID (Scott Safety 004-0008)	248.29	12.31
46 82 83 00-0533	EA	3V LITHIUM BATTERY CR2450-FT (Scott Safety 004-0020)	37.25	1.84
46 82 83 00-0534	EA	CE130 SENSOR ELEMENT ONLY (Scott Safety 0051-1861)	1,446.31	71.65
46 82 83 00-0535	EA	MITEX (PTFE) MEMBRANE FILTER (Scott Safety 006-0050)	31.04	1.53
46 82 83 00-0536	EA	O-RING, 2-026, SILICONE, ORN (Scott Safety 009-0022)	6.32	0.31
46 82 83 00-0537	EA	O-RING, 2-127, V747-75 (Scott Safety 009-0024)	40.34	2.00
46 82 83 00-0538	EA	O-RING, #2-032, V709-90 (Scott Safety 009-0028)	24.21	1.20
46 82 83 00-0539	EA	O-RING,2-029,SILICONE S604-70 (Scott Safety 009-0039)	34.14	1.69
46 82 83 00-0540	EA	O-RING, EPDM, 3/16" x 7/16" (Scott Safety 009-0052)	3.72	0.18
46 82 83 00-0541	EA	JUMPER PLUG (Scott Safety 018-0066)	20.47	1.02
46 82 83 00-0542	EA	3 1/2 DIGIT LCD W/ BAR GRAPH (Scott Safety 019-0013)	68.29	3.38
46 82 83 00-0543	EA	4600-IR LCD DISPLAY (Scott Safety 019-0020)	108.63	5.38
46 82 83 00-0544	EA	FLOWMETER W/ SCREW ADJUSTMENT (Scott Safety 024-0007)	831.77	41.20
46 82 83 00-0545	EA	FLOWMETER-ACRYLIC, .6-5LPM (Scott Safety 024-0008)	673.50	33.37
46 82 83 00-0546	EA	4.25 PYROELECTRIC DETECTOR (Scott Safety 025-0478)	1,635.64	81.03
46 82 83 00-0547	EA	PWR SUP 24V 1A UNREG 120V (Scott Safety 028-0002)	648.66	32.14

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0548	EA	5 Volt DC WALL TRANSFORMER (Scott Safety 028-0027)	58.97	2.93
46 82 83 00-0549	EA	POWER SUPPLY, 24VC W/MTG BRKT. (Scott Safety 028-0033)	1,294.24	64.11
46 82 83 00-0550	EA	,24 Volt DC, 150 Watt, Power Supply (Scott Safety 028-0034)	1,784.61	88.41
46 82 83 00-0551	EA	24 Volt DC, 100-240 Volt AC, Power Supply (Scott Safety 028-0035)	375.56	18.60
46 82 83 00-0552	EA	AC DC POWER SUPPLY (Scott Safety 028-0057)	139.66	6.91
46 82 83 00-0553	EA	1 Ampere, SLO-BLOW FUSE, 5 X 20 MM (Scott Safety 032-0014)	20.47	1.02
46 82 83 00-0554	EA	CIRCUIT BREAKER-1 Ampere, W28-XTIA (Scott Safety 032-0015)	74.48	3.69
46 82 83 00-0555	EA	POINTER KNOB (Scott Safety 035-0014)	6.83	0.34
46 82 83 00-0556	EA	HEADER-6 POS, VERTICAL PLUG-ON (Scott Safety 037-0053)	10.55	0.52
46 82 83 00-0557	EA	TERMINAL BLOCK-9 POS. PLUG-ON (Scott Safety 037-0069)	34.14	1.69
46 82 83 00-0558	EA	RELAY, SPDT, PLUG,24V 10A (Scott Safety 038-0017)	114.85	5.69
46 82 83 00-0559	EA	SOLID STATE RLY, 24-330 Volt AC, 25 Amperes (Scott Safety 038-0023)	307.26	15.21
46 82 83 00-0560	EA	SPDT PCB 5A 24V RELAY (Scott Safety 038-0026)	58.97	2.93
46 82 83 00-0561	EA	200 CC/MIN NON-ADJ FLOW SWITCH (Scott Safety 041-0074)	450.03	22.30
46 82 83 00-0562	EA	1/8" NPT CLEAR PP BARBED FITT (Scott Safety 048-0031)	13.66	0.67
46 82 83 00-0563	EA	3/4" NPT .15-.25 CORD GRIP (Scott Safety 048-0039)	111.74	5.53
46 82 83 00-0564	EA	LIQUIDTIGHT FLEX CONDUIT, 3/4" (Scott Safety 048-0056)	20.47	1.02
46 82 83 00-0565	EA	3-WAY BALL VALVE, 1/4", S.S. (Scott Safety 048-0083)	1,427.68	70.73
46 82 83 00-0566	EA	096-390 DEG. M-F ELBOW 3/4 NPT (Scott Safety 048-0089)	108.63	5.38
46 82 83 00-0567	EA	3/4 NPT CABLE GLAND FITTING (Scott Safety 048-0091)	74.48	3.69
46 82 83 00-0568	EA	SS HOSE CLAMP,7/16-1,WORM DRIV (Scott Safety 053-0008)	13.66	0.67
46 82 83 00-0569	EA	6/32 F/F STANDOFF 1.65 LG ALUM (Scott Safety 054-0065)	10.55	0.52
46 82 83 00-0570	EA	8-32 M/ NO THD FM STD 1.25 LG (Scott Safety 054-0066)	13.66	0.67
46 82 83 00-0571	EA	0.25 OD. X 7/32 LG NYLON SPACER (Scott Safety 054-0067)	10.55	0.52
46 82 83 00-0572	EA	STANDOFF-1/4 HEX,8-32X1.34 M/F (Scott Safety 054-0069)	20.17	1.00
46 82 83 00-0573	EA	STANDOFF-1/4 HEX,8-32X1.19 M/F (Scott Safety 054-0070)	23.58	1.17
46 82 83 00-0574	EA	STANDOFF-1/4 HEX,8-32X1.25 M/F (Scott Safety 054-0071)	10.25	0.50
46 82 83 00-0575	EA	STANDOFF-1/4 HEX,8-32X1.00 M/F (Scott Safety 054-0072)	23.58	1.17
46 82 83 00-0576	EA	HEX SPACER,#6-32 X .75LG BRASS (Scott Safety 054-0073)	10.25	0.50
46 82 83 00-0577	EA	MODIFIED STANDOFF 1/4 HEX 2"LG (Scott Safety 054-0092)	37.25	1.84
46 82 83 00-0578	EA	1/4H STANDOFF,8-32X1-1/16L,M/F (Scott Safety 054-0094)	6.83	0.34
46 82 83 00-0579	EA	FRONT COVER, CLEAR LEXAN (Scott Safety 063-0075)	661.07	32.75
46 82 83 00-0580	EA	HINGE COVER (Scott Safety 063-0076)	37.25	1.84
46 82 83 00-0581	EA	TEFLON PFA TUBING, 1/4" OD (Scott Safety 068-0005)	24.82	1.24
46 82 83 00-0582	EA	TEFLON PFA TUBING, 1/4"OD, 10' (Scott Safety 068-0005-010)	248.29	12.31
46 82 83 00-0583	EA	TEFLON PFA TUBING, 1/4"OD, 25' (Scott Safety 068-0005-025)	620.73	30.76
46 82 83 00-0584	EA	1/8 ID X 1/4 OD TYGON TUBING (Scott Safety 068-0007)	17.38	0.86
46 82 83 00-0585	EA	1/8 ID, 1/4 OD, TYGON TUBING, 10' (Scott Safety 068-0007-010)	172.87	8.56
46 82 83 00-0586	EA	1/8 ID, 1/4 OD, TYGON TUBING, 25' (Scott Safety 068-0007-025)	432.21	21.41
46 82 83 00-0587	EA	1/8 ID, 1/4 OD, TYGON TUBING, 50' (Scott Safety 068-0007-050)	864.37	42.81
46 82 83 00-0588	EA	1/8 ID, 1/4 OD, TYGON TUBING, 75' (Scott Safety 068-0007-075)	1,296.57	64.23
46 82 83 00-0589	EA	TUBING,TYGON FEP-LINED, 1/8"ID (Scott Safety 068-0014)	13.66	0.67
46 82 83 00-0590	EA	TUBING,TYGON FEP-LINED,3/16"ID (Scott Safety 068-0015)	13.66	0.67
46 82 83 00-0591	EA	CABLE 22 AWG 2 COND SHIELDED (Scott Safety 069-0005)	3.72	0.18
46 82 83 00-0592	EA	9C/#24AWG SHIELDED CABLE (Scott Safety 069-0053)	10.55	0.52
46 82 83 00-0593	EA	SHIELDED CABLE,4 PR.,24 AWG (Scott Safety 069-0061)	6.53	0.32
46 82 83 00-0594	EA	18AWG/3COND BRAID SHIELD CABLE (Scott Safety 069-0080)	6.83	0.34
46 82 83 00-0595	EA	CABLE, HAZLOC, 7 CONDUCTOR (Scott Safety 069-0097-10)	108.63	5.38
46 82 83 00-0596	EA	CABLE, HAZLOC, 7 CONDUCTOR (Scott Safety 069-0097-100)	993.17	49.20
46 82 83 00-0597	EA	CABLE, HAZLOC, 7 CONDUCTOR (Scott Safety 069-0097-25)	248.29	12.31
46 82 83 00-0598	EA	CABLE, HAZLOC, 7 CONDUCTOR (Scott Safety 069-0097-50)	496.58	24.60
46 82 83 00-0599	EA	CABLE, HAZLOC, 7 CONDUCTOR (Scott Safety 069-0097-75)	744.89	36.90
46 82 83 00-0600	EA	MODEL 4600 GAS XMTR OVERLAY (Scott Safety 071-0150)	34.14	1.69
46 82 83 00-0601	EA	4688-IR LCD OVERLAY LABEL (Scott Safety 071-0155)	37.25	1.84
46 82 83 00-0602	EA	4600MB LCD OVERLAY LABEL (Scott Safety 071-0157)	37.25	1.84
46 82 83 00-0603	EA	TOUCH PANEL OVERLAY (Scott Safety 071-0159)	257.59	12.76
46 82 83 00-0604	EA	7200 TOUCH PANEL (Scott Safety 071-0164)	1,536.31	76.10
46 82 83 00-0605	EA	4600 SENSOR HOUSING END CAP (Scott Safety 073-0165)	310.37	15.37
46 82 83 00-0606	EA	4600-IR LCD SUPPORT PANEL (Scott Safety 073-0185)	34.14	1.69
46 82 83 00-0607	EA	4600RS S.S. SNSR. HSNG. ENDCAP (Scott Safety 073-0210)	602.10	29.83
46 82 83 00-0608	EA	ADAPTER PLT,QUAD II TO NIC II (Scott Safety 073-0214)	155.18	7.70
46 82 83 00-0609	EA	MOUNTING BRACKET, FLOWMETER (Scott Safety 073-0215)	142.78	7.07
46 82 83 00-0610	EA	XP ENCL. W/GLASS COVER (ATEX) (Scott Safety 073-0219)	589.70	29.21
46 82 83 00-0611	EA	XP ENCL W/GLASS COVER/NON-ATEX (Scott Safety 073-0219-1)	598.99	29.68
46 82 83 00-0612	EA	3/4" CONDUIT OUTLET BOX (Scott Safety 073-0226-1)	471.75	23.37
46 82 83 00-0613	EA	XP ENCL. W/BLIND COVER (ATEX) (Scott Safety 073-0227)	443.81	21.98
46 82 83 00-0614	EA	GUARD. FILAMENT DETECTOR (6V) (Scott Safety 073-0240)	369.33	18.29
46 82 83 00-0615	EA	XP ENCL W/DOME COVER,RELAY OPT (Scott Safety 073-0264-1)	900.06	44.59
46 82 83 00-0616	EA	4600 THREAD ADAPTER (Scott Safety 073-0328)	251.40	12.45
46 82 83 00-0617	EA	GUARD, FLAME ARRESTOR (ATEX) (Scott Safety 073-0332)	232.77	11.53
46 82 83 00-0618	EA	OUTER FLAME ARRESTOR ASSEMBLY (Scott Safety 073-0336)	664.17	32.90
46 82 83 00-0619	EA	PIPE PLUG 1/8 NPT (Scott Safety 073-0366)	16.43	0.81
46 82 83 00-0620	EA	JUNCTION BOX NEXT GEN (Scott Safety 073-0367)	186.22	9.23
46 82 83 00-0621	EA	SUN SHIELD, TRANSMITTER (Scott Safety 073-0373)	232.77	11.53
46 82 83 00-0622	EA	ADAPTER MOUNTING PLATE (Scott Safety 073-0374)	232.77	11.53
46 82 83 00-0623	EA	GAS SENSOR DUCT ADAPTER (Scott Safety 074-0138)	242.08	11.99
46 82 83 00-0624	EA	HOSE TEE 1/4 X 1/4 X 1/4 HDPE (Scott Safety 074-0208)	31.04	1.53
46 82 83 00-0625	EA	END CAP - NORYL - SERIES 4500 (Scott Safety 074-0225)	37.25	1.84
46 82 83 00-0626	EA	4600 ENCLOSURE MOUNTING PLATE (Scott Safety 074-0289)	58.97	2.93
46 82 83 00-0627	EA	1/4" OD WHT PP BULKHEAD UNION (Scott Safety 074-0295)	25.77	1.28
46 82 83 00-0628	EA	4600 1/4 TURN TFE RAIN SHIELD (Scott Safety 074-0305)	192.44	9.54

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0629	EA	4600-IR RAIN SHIELD (Scott Safety 074-0321)	139.66	6.91
46 82 83 00-0630	EA	4600 COND. HUM PFE SNSR SPACER (Scott Safety 074-0331)	52.76	2.62
46 82 83 00-0631	EA	GRAY PVC FILTER CAGE (12 SLOT) (Scott Safety 074-0340)	301.06	14.92
46 82 83 00-0632	EA	4600 SST SENSOR CAP (Scott Safety 074-0344)	145.88	7.22
46 82 83 00-0633	EA	4600RS SST SENSOR CAP (Scott Safety 074-0345)	133.46	6.61
46 82 83 00-0634	EA	3000/5000 SERIES SENSOR ENDCAP (Scott Safety 074-0357)	170.71	8.46
46 82 83 00-0635	EA	5000 ROCK SOLID ENDCAP (Scott Safety 074-0389)	155.18	7.70
46 82 83 00-0636	EA	5000 SST ENDCAP (Scott Safety 074-0390)	170.71	8.46
46 82 83 00-0637	EA	5000 ROCK SOLID SST ENDCAP (Scott Safety 074-0391)	170.71	8.46
46 82 83 00-0638	EA	5600 ENCLOSURE MOUNTING BLOCK (Scott Safety 074-0420)	37.25	1.84
46 82 83 00-0639	EA	CAL ADAPTER COMBUSTIBLE HEADS (Scott Safety 074-0508)	99.32	4.92
46 82 83 00-0640	EA	REMOTE TEST ADAPTER (Scott Safety 074-0511)	242.08	11.99
46 82 83 00-0641	EA	SPLASH GUARD DETECTOR HEAD (Scott Safety 074-0515)	37.25	1.84
46 82 83 00-0642	EA	F6K, RETENTION SLEEVE, IR SNSR (Scott Safety 074-0525)	31.04	1.53
46 82 83 00-0643	EA	IS TERMINAL COVER (Scott Safety 074-0528-01)	9.31	0.45
46 82 83 00-0644	EA	M/F STANDOFF, #8-32 X .625 LG. (Scott Safety 076-0059)	10.55	0.52
46 82 83 00-0645	EA	BANANA PLUGS (Scott Safety 076-0066)	13.34	0.66
46 82 83 00-0646	EA	SET SCREW 4-40 X 1/8,FLAT PT. (Scott Safety 076-0077)	13.66	0.67
46 82 83 00-0647	EA	HINGE SET FOR 5300 ENCLOSURE (Scott Safety 076-0080)	80.69	4.00
46 82 83 00-0648	EA	HEX STANDOFF,#4-40X1-5/8"(M-F) (Scott Safety 076-0101-02)	105.52	5.22
46 82 83 00-0649	EA	FREEDOM 6000 ADAPTER BD SCREW (Scott Safety 076-0204)	3.42	0.17
46 82 83 00-0650	EA	PIPE MTG.BKT.JBOX MERIDIAN (Scott Safety 076-0376)	124.16	6.15
46 82 83 00-0651	EA	PIPE MTG.BKT.ENCL.MERIDIAN (Scott Safety 076-0377)	155.18	7.70
46 82 83 00-0652	EA	REGULATOR FIX FLOW 0.5LPM (Scott Safety 077-0018)	465.55	23.06
46 82 83 00-0653	EA	GAS BOTTLE - ZERO AIR (Scott Safety 077-0019)	471.75	23.37
46 82 83 00-0654	EA	GAS BOTTLE - SO2 (Scott Safety 077-0020)	679.70	33.67
46 82 83 00-0655	EA	TYGON TUBING 3/16" I.D. (Scott Safety 077-0021)	9.31	0.45
46 82 83 00-0656	EA	GAS BOTTLE CARRYING CASE (Scott Safety 077-0023)	223.48	11.07
46 82 83 00-0657	EA	H2S/air 8AL (58 liters) 25 ppm (Scott Safety 077-0025)	651.77	32.29
46 82 83 00-0658	EA	H2 GAS BOTTLE (Scott Safety 077-0036)	471.75	23.37
46 82 83 00-0659	EA	METHANE GAS BOTTLE (Scott Safety 077-0037)	751.09	37.22
46 82 83 00-0660	EA	OXYGEN GAS BOTTLE 16% (Scott Safety 077-0039)	598.99	29.68
46 82 83 00-0661	EA	NITROGEN GAS BOTTLE (Scott Safety 077-0040)	471.75	23.37
46 82 83 00-0662	EA	BUTANE GAS BOTTLE (Scott Safety 077-0041)	598.99	29.68
46 82 83 00-0663	EA	SO2 CALIBRATION GAS (9PPM/AIR) (Scott Safety 077-0050)	679.70	33.67
46 82 83 00-0664	EA	H2S GAS BOTTLE,10 PPM, BAL AIR (Scott Safety 077-0056)	751.09	37.22
46 82 83 00-0665	EA	POCKET SCREWDRIVER W/ MAGNET (Scott Safety 077-0120)	27.32	1.35
46 82 83 00-0666	EA	HCL/N2 10 PPM GAS CYL. +/-10% (Scott Safety 077-0124)	1,424.58	70.57
46 82 83 00-0667	EA	NH3/O2 0-50 PPM GAS CYL. +/-5% (Scott Safety 077-0125)	1,424.58	70.57
46 82 83 00-0668	EA	THERMOCOUPLE TYPE K .062 OD (Scott Safety 077-0133)	301.06	14.92
46 82 83 00-0669	EA	120 Volt, 240 Watt, Cable heater Without Hose (Scott Safety 077-0135)	713.84	35.37
46 82 83 00-0670	EA	HEATER SHROUD CERAMIC ENDCAP (Scott Safety 077-0138)	74.48	3.69
46 82 83 00-0671	EA	FIXED SETPOINT TEMP CONTROLLER (Scott Safety 077-0139)	710.73	35.21
46 82 83 00-0672	EA	120 Volt AC STROBE LIGHT (RED) (Scott Safety 077-0143)	847.29	41.98
46 82 83 00-0673	EA	CL2/N2 0-2 PPM GAS CYLINDER (Scott Safety 077-0151)	1,424.58	70.57
46 82 83 00-0674	EA	CL2/N2 0-5 PPM GAS CYLINDER (Scott Safety 077-0152)	1,424.58	70.57
46 82 83 00-0675	EA	HCL/N2 20 PPM GAS CYLINDER (Scott Safety 077-0153)	1,424.58	70.57
46 82 83 00-0676	EA	4600-IR LAMP EXTRACTION TOOL (Scott Safety 077-0161)	43.44	2.15
46 82 83 00-0677	EA	4688-IR POREX FILTER MAIN SNSR (Scott Safety 077-0166)	31.04	1.53
46 82 83 00-0678	EA	4688-IR RAINSHLD POREX FILTER (Scott Safety 077-0167)	40.34	2.00
46 82 83 00-0679	EA	4688IR LAMP REPL ALLEN KEY (Scott Safety 077-0183)	6.83	0.34
46 82 83 00-0680	EA	0-100 PPM H2S/AIR GAS CYL 58L (Scott Safety 077-0186)	751.09	37.22
46 82 83 00-0681	EA	GAS CYL 10 PPM CO/AIR SIZE 6D (Scott Safety 077-0188)	751.09	37.22
46 82 83 00-0682	EA	CO2 CYLINDER-1% (Scott Safety 077-0191)	679.70	33.67
46 82 83 00-0683	EA	HCL/N2 5 PPM GAS CYLINDER(8AL) (Scott Safety 077-0202)	1,424.58	70.57
46 82 83 00-0684	EA	NO/N2, 0-20 PPM GAS CYLINDER (Scott Safety 077-0203)	1,424.58	70.57
46 82 83 00-0685	EA	NO2/N2, 0-5 PPM GAS CYLINDER (Scott Safety 077-0204)	1,424.58	70.57
46 82 83 00-0686	EA	HCN/N2, 0-10 PPM GAS CYLINDER (Scott Safety 077-0205)	1,297.31	64.27
46 82 83 00-0687	EA	H2S/AIR 0-50 PPM GAS CYLINDER (Scott Safety 077-0206)	679.70	33.67
46 82 83 00-0688	EA	NH3/N2 300 PPM GAS CYLINDER (Scott Safety 077-0207)	1,424.58	70.57
46 82 83 00-0689	EA	CL2/N2, 10 PPM GAS CYLINDER (Scott Safety 077-0208)	1,297.31	64.27
46 82 83 00-0690	EA	RAINSHIELD OUTER FILTER(POREX) (Scott Safety 077-0209)	31.04	1.53
46 82 83 00-0691	EA	RNSHLD. FILTER MEMBRANE(POREX) (Scott Safety 077-0210)	20.47	1.02
46 82 83 00-0692	EA	FILTER MEMBRANE W/HOLE (Scott Safety 077-0210-1)	27.32	1.35
46 82 83 00-0693	EA	NH3/N2 25 PPM GAS CYLINDER (Scott Safety 077-0215)	1,424.58	70.57
46 82 83 00-0694	EA	CL2/N2 50 PPM GAS CYLINDER (Scott Safety 077-0217)	1,424.58	70.57
46 82 83 00-0695	EA	HCL/N2 40 PPM GAS CYLINDER (Scott Safety 077-0218)	1,424.58	70.57
46 82 83 00-0696	EA	CL2/N2 20 PPM GAS CYLINDER (Scott Safety 077-0219)	1,424.58	70.57
46 82 83 00-0697	EA	SO2/N2 5 PPM GAS CYLINDER (Scott Safety 077-0220)	1,424.58	70.57
46 82 83 00-0698	EA	SAMPLE DRAW ASPIRATOR (Scott Safety 077-0222)	751.09	37.22
46 82 83 00-0699	EA	CO/AIR 500 PPM GAS CYLINDER-6D (Scott Safety 077-0230)	679.70	33.67
46 82 83 00-0700	EA	0.9% PROPANE/AIR GAS CYL., 6D (Scott Safety 077-0241)	598.99	29.68
46 82 83 00-0701	EA	0.3% HEXANE/AIR GAS CYL., 6D (Scott Safety 077-0242)	546.25	27.06
46 82 83 00-0702	EA	0.5% PROPYLENE/AIR GAS CYL.,6D (Scott Safety 077-0244)	598.99	29.68
46 82 83 00-0703	EA	ACETYLENE/AIR,1.25% GAS CYL,6D (Scott Safety 077-0245)	598.99	29.68
46 82 83 00-0704	EA	CO/AIR 100 PPM GAS CYLINDER,6D (Scott Safety 077-0246)	751.09	37.22
46 82 83 00-0705	EA	CO/AIR 250 PPM GAS CYLINDER,6D (Scott Safety 077-0247)	679.70	33.67
46 82 83 00-0706	EA	1% PROPANE GAS CYL.(227 LTRS.) (Scott Safety 077-0249)	623.85	30.90
46 82 83 00-0707	EA	1% HYDROGEN GAS CYL.(212 LTRS) (Scott Safety 077-0250)	623.85	30.90
46 82 83 00-0708	EA	0.5% PROPANE GAS CYL.(212 LTRS) (Scott Safety 077-0251)	623.85	30.90
46 82 83 00-0709	EA	1.5% METHANE GAS CYL(212 LTRS) (Scott Safety 077-0252)	623.85	30.90

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0710	EA	REGULATOR, FIX FLOW 1.0 LPM (Scott Safety 077-0254)	465.55	23.06
46 82 83 00-0711	EA	CO/AIR 25 PPM GAS CYLINDER, 6D (Scott Safety 077-0255)	751.09	37.22
46 82 83 00-0712	EA	0077-126PANE/BAL AIR CYL.,103L (Scott Safety 077-0264)	598.99	29.68
46 82 83 00-0713	EA	H2S Gas Cylinder - 2AL 25 PPM (Scott Safety 077-0272)	422.11	20.91
46 82 83 00-0714	EA	02 18.5% GAS CYLINDER, 7HP-34L (Scott Safety 077-0274)	263.81	13.07
46 82 83 00-0715	EA	SO2 GAS CYLINDER-10PPM,2AL-34L (Scott Safety 077-0276)	508.99	25.22
46 82 83 00-0716	EA	NH3 GAS CYLINDER-25PPM 2AL-34L (Scott Safety 077-0277)	769.70	38.14
46 82 83 00-0717	EA	HCN GAS CYLINDER-10PPM 2AL-34L (Scott Safety 077-0278)	1,191.81	59.05
46 82 83 00-0718	EA	CL2 GAS CYLINDER-5 PPM 2AL-34L (Scott Safety 077-0279)	847.29	41.98
46 82 83 00-0719	EA	NO2 GAS CYLINDER-5 PPM,2AL-34L (Scott Safety 077-0280)	769.70	38.14
46 82 83 00-0720	EA	FILTER CUP, SAMPLE PROBE (Scott Safety 077-0292)	34.14	1.69
46 82 83 00-0721	EA	HEX-NUT COMPRESSION FITTING (Scott Safety 077-0294)	24.21	1.20
46 82 83 00-0722	EA	INTERCHANGEABLE PROBE TUBE (Scott Safety 077-0295)	34.14	1.69
46 82 83 00-0723	EA	COMPRESSION SLEEVE, PROBE (Scott Safety 077-0296)	6.83	0.34
46 82 83 00-0724	EA	O-RING, SAMPLE PROBE (Scott Safety 077-0297)	6.83	0.34
46 82 83 00-0725	EA	FLOW SWITCH, SPDT (Scott Safety 077-0304)	1,952.20	96.72
46 82 83 00-0726	EA	THERMAL SWITCH,N.O. W/6" LEADS (Scott Safety 077-0324)	68.29	3.38
46 82 83 00-0727	EA	DEMAND FLOW REGULATOR,2AL TYPE (Scott Safety 077-0342)	1,275.61	63.20
46 82 83 00-0728	EA	DEMAND FLOW REGULATOR,7HP TYPE (Scott Safety 077-0343)	1,275.61	63.20
46 82 83 00-0729	EA	NO GAS CYL.-30 PPM, 2AL-34L (Scott Safety 077-0346)	769.70	38.14
46 82 83 00-0730	EA	METHANE/O2/H2S GAS CYL. 34L (Scott Safety 077-0355)	769.70	38.14
46 82 83 00-0731	EA	METHANE/BAL. AIR CYL. 34L 2AL (Scott Safety 077-0357)	173.80	8.61
46 82 83 00-0732	EA	METHANE/BAL. AIR GAS CYL. 103L (Scott Safety 077-0358)	434.51	21.53
46 82 83 00-0733	EA	ETO GAS CYLINDER-5 PPM,8AL/58L (Scott Safety 077-0377)	1,278.71	63.35
46 82 83 00-0734	EA	Ethylene Oxide/N2 bal - 8AL 10 PPM (Scott Safety 077-0378)	931.10	46.13
46 82 83 00-0735	EA	1/16" HEX KEY (Scott Safety 077-0461)	6.83	0.34
46 82 83 00-0736	EA	CYL,CARBON MONOXIDE,250PPM 17L (Scott Safety 077-1224)	189.33	9.38
46 82 83 00-0737	EA	CYL,HYDROGEN, 2% (50% LEL) 17L (Scott Safety 077-1228)	136.55	6.77
46 82 83 00-0738	EA	CYL, METHANE/AIR, 1.10% 17L (Scott Safety 077-1229)	148.97	7.38
46 82 83 00-0739	EA	CYL, METHANE/AIR, 2.20% 17L (Scott Safety 077-1230)	148.97	7.38
46 82 83 00-0740	EA	CYL, METHANE/AIR 2.50% 17L (Scott Safety 077-1231)	136.55	6.77
46 82 83 00-0741	EA	CYL,NITROGEN, 100% 7EOC/17L (Scott Safety 077-1232)	148.97	7.38
46 82 83 00-0742	EA	CYL,OXYGEN/BAL N2,5% 7EOC/17L (Scott Safety 077-1233)	173.80	8.61
46 82 83 00-0743	EA	CYL,OXYGEN/BAL N2,20.90% 17L (Scott Safety 077-1234)	148.97	7.38
46 82 83 00-0744	EA	CYL,PROPANE/AIR,0.30%,7EOC/17L (Scott Safety 077-1235)	136.55	6.77
46 82 83 00-0745	EA	CYL,PROPANE/AIR,0.44%,7EOC/17L (Scott Safety 077-1236)	136.55	6.77
46 82 83 00-0746	EA	CYL,PROPANE/AIR,1.00% 7EOC/17L (Scott Safety 077-1237)	148.97	7.38
46 82 83 00-0747	EA	REGULATOR, 0.5LPM (MODEL 713) (Scott Safety 077-1238)	465.55	23.06
46 82 83 00-0748	EA	PH3 GAS CYLINDER,1 PPM 2AL-34L (Scott Safety 077-1239)	769.70	38.14
46 82 83 00-0749	EA	PH3 GAS CYLINDER-500PPB 2AL-34 (Scott Safety 077-1240)	1,123.53	55.65
46 82 83 00-0750	EA	PH3 GAS CYLINDER-500PPB 8AL-58 (Scott Safety 077-1241)	1,688.39	83.64
46 82 83 00-0751	EA	0.55% C3H8/50PPM CO/AIR,103L/6D (Scott Safety 077-1262)	673.50	33.37
46 82 83 00-0752	EA	0.55% C3H8/25PPM H2S/AIR, 58L (Scott Safety 077-1263)	1,014.91	50.28
46 82 83 00-0753	EA	0.55% C3H8/50PPM CO/AIR CYL,34L (Scott Safety 077-1265)	301.06	14.92
46 82 83 00-0754	EA	0.55%C3H8/25PPM H2S/AIR CYL,34L (Scott Safety 077-1266)	769.70	38.14
46 82 83 00-0755	EA	0.55% PROPANE/BAL AIR CYL.,34L (Scott Safety 077-1267)	273.11	13.52
46 82 83 00-0756	EA	REGULATOR, .5 LPM (MODEL 702) (Scott Safety 077-1268)	257.59	12.76
46 82 83 00-0757	EA	REGULATOR, .5 LPM (MODEL 705) (Scott Safety 077-1271)	338.30	16.76
46 82 83 00-0758	EA	TOOL KIT (Scott Safety 077-1308)	86.89	4.30
46 82 83 00-0759	EA	LAMP CLEANING KIT (Scott Safety 077-1309)	130.37	6.46
46 82 83 00-0760	EA	CALIBRATION KIT (Scott Safety 077-1311)	108.63	5.38
46 82 83 00-0761	EA	PUMP, SINGLE HEAD, DIA-VAC (Scott Safety 077-1316)	1,250.77	61.97
46 82 83 00-0762	EA	10 PPM ISOBUTYLENE/BAL AIR,6D (Scott Safety 077-1338)	633.14	31.37
46 82 83 00-0763	EA	SIH4/N2, 0-10PPM, GAS CYLINDER (Scott Safety 077-1349)	4,810.68	238.32
46 82 83 00-0764	EA	PH3/N2, 0-10PPM, GAS CYLINDER (Scott Safety 077-1350)	4,810.68	238.32
46 82 83 00-0765	EA	2.5% CO2/AIR, 103L, GAS CYL (Scott Safety 077-1375)	512.10	25.36
46 82 83 00-0766	EA	FITTING,10-32QD,RT ANG,1/8TUBE (Scott Safety 077-1385)	31.04	1.53
46 82 83 00-0767	EA	FITTING,10-32QD,RT ANG,1/4TUBE (Scott Safety 077-1386)	356.93	17.69
46 82 83 00-0768	EA	REDUCER 3/4 NPT TO 20 mm (Scott Safety 077-1402)	127.26	6.30
46 82 83 00-0769	EA	STOPPING PLUG 20mm (Scott Safety 077-1404)	86.89	4.30
46 82 83 00-0770	EA	LOW FLOW REGULATOR (Scott Safety 077-1416)	465.55	23.06
46 82 83 00-0771	EA	PIEZO-A-LERT HORN (Scott Safety 086-0004)	68.29	3.38
46 82 83 00-0772	EA	Acetylene - 6D 1.25% (50% LEL) Tygon Non-Reactive (096-3500or 096-3502) (Scott Safety 077-0245)	544.55	26.97
46 82 83 00-0773	EA	Butane - 6D 0.5% (25% LEL) Tygon Non-Reactive (096-3500 or 096-3502) (Scott Safety 077-0041)	544.55	26.97
46 82 83 00-0774	EA	Carbon Dioxide [N2 Bal] - 6D 1% Tygon Non-Reactive (096-3500 or 096-3502) (Scott Safety 077-0191)	617.92	30.62
46 82 83 00-0775	EA	Carbon Monoxide - 6D 10 PPM Tygon Non-Reactive (096-3500) (Scott Safety 077-0188)	682.80	33.83
46 82 83 00-0776	EA	Carbon Monoxide - 6D 100 PPM Tygon Non-Reactive (096-3500) (Scott Safety 077-0246)	682.80	33.83
46 82 83 00-0777	EA	Carbon Monoxide - 6D 25 PPM Tygon Non-Reactive (096-3500) (Scott Safety 077-0255)	682.80	33.83
46 82 83 00-0778	EA	Carbon Monoxide - 6D 250 PPM Tygon Non-Reactive (096-3500) (Scott Safety 077-0247)	617.92	30.62
46 82 83 00-0779	EA	Carbon Monoxide - 6D 500 PPM Tygon Non-Reactive (096-3500) (Scott Safety 077-0230)	617.92	30.62
46 82 83 00-0780	EA	Hydrogen - 6D 2% (50% LEL) Tygon Non-Reactive (096-3500 or 096-3502) (Scott Safety 077-0036)	493.76	24.46
46 82 83 00-0781	EA	Methane - 6D 2.5% (50% LEL) Tygon Non-Reactive (096-3500 or 096-3502) (Scott Safety 077-0037)	691.27	34.24
46 82 83 00-0782	EA	Methane - 6D 1.62 % (32% LEL) Tygon Non-Reactive (096-3500 or 096-3502) (Scott Safety 077-0358)	437.33	21.66
46 82 83 00-0783	EA	O2/Propane Mixture - 6D 25% LEL Propane Tygon Non-Reactive (096-3500 or 096-3502) (Scott Safety 077-0264)	589.70	29.21
46 82 83 00-0784	EA	Nitrogen - 6D 100% Tygon Non-Reactive (096-3500) (Scott Safety 077-0040)	505.06	25.02
46 82 83 00-0785	EA	Oxygen [N2 Bal] - 6D 16% Tygon Non-Reactive (096-3500) (Scott Safety 077-0039)	617.92	30.62
46 82 83 00-0786	EA	Propane - 6D 0.9% (44% LEL) Tygon Non-Reactive (096-3500 or 096-3502) (Scott Safety 077-0241)	646.13	32.01
46 82 83 00-0787	EA	Propylene - 6D 0.5% (25% LEL) Tygon Non-Reactive (096-3500 or 096-3502) (Scott Safety 077-0244)	646.13	32.01
46 82 83 00-0788	EA	Zero air - 6D 20.9% 02 in N2 Tygon Non-Reactive (096-3500 or 096-3502) (Scott Safety 077-0019)	499.41	24.74
46 82 83 00-0789	EA	4600 GAS PLUS XMTR MANUAL (Scott Safety 087-0005)	89.48	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0790	EA	4688IR COMB. GAS XMTR MANUAL (Scott Safety 087-0007)	92.26	
46 82 83 00-0791	EA	4600 MODBUS GAS XMTR. MANUAL (Scott Safety 087-0014)	67.10	
46 82 83 00-0792	EA	INSTRUCTION MAN., SENTINEL VI (Scott Safety 087-0018)	89.48	
46 82 83 00-0793	EA	5000 Operation And Maintenance Manual (Scott Safety 087-0020)	92.26	
46 82 83 00-0794	EA	MANUAL,7800-16 CHAN CONTROLLER (Scott Safety 087-0021)	83.88	
46 82 83 00-0795	EA	7400 QUAD SCAN II Operation And Maintenance Manual (Scott Safety 087-0023)	33.56	
46 82 83 00-0796	EA	FREEDOM 5600 Operation And Maintenance Manual (Scott Safety 087-0024)	86.68	
46 82 83 00-0797	EA	MODEL 7200 Operation And Maintenance Manual (Scott Safety 087-0026)	50.32	
46 82 83 00-0798	EA	6000 TOXIC COMBUSTIBLE MANUAL (Scott Safety 087-0044)	30.76	
46 82 83 00-0799	EA	50W, 40 OHM, ALUM POWER RESIS (Scott Safety 090-0088)	57.87	2.37
46 82 83 00-0800	EA	4600 ELASTOMER CONNECTOR ASSEMBLY (Scott Safety 093-0097)	115.74	4.75
46 82 83 00-0801	EA	MICROGASS SYSTEM WITH HEAT SAMPLE LINE (Scott Safety 093-0102-1)	26,316.31	1,078.80
46 82 83 00-0802	EA	DISPLAY BOARD ASSEMBLY (Scott Safety 093-0213)	6,883.66	282.19
46 82 83 00-0803	EA	ANALOG INPUT BOARD (Scott Safety 093-0214)	1,142.21	46.82
46 82 83 00-0804	EA	ANALOG OUTPUT BOARD (Scott Safety 093-0215)	1,200.07	49.20
46 82 83 00-0805	EA	I/O CONTROLLER ASSEMBLY (Scott Safety 093-0216)	2,628.58	107.75
46 82 83 00-0806	EA	6 CHANNEL DISCRETE RELAY BOARD (Scott Safety 093-0217)	1,227.48	50.32
46 82 83 00-0807	EA	BOARD INTERCONNECT CABLE (Scott Safety 093-0220)	91.37	3.74
46 82 83 00-0808	EA	AUXILIARY BOARD ASSEMBLY (Scott Safety 093-0222)	441.65	18.10
46 82 83 00-0809	EA	MAIN I/O CONTROLLER P.C.B.A. (Scott Safety 093-0243)	2,628.58	107.75
46 82 83 00-0810	EA	SENTINEL 16 DISPLAY BOARD ASSY (Scott Safety 093-0267)	9,228.99	378.33
46 82 83 00-0811	EA	8 CHANNEL ANALOG INPUT BOARD (Scott Safety 093-0268)	1,577.76	64.68
46 82 83 00-0812	EA	8 CHANNEL DISCRETE RELAY BOARD (Scott Safety 093-0269)	1,577.76	64.68
46 82 83 00-0813	EA	8 CHANNEL 4-20MA OUTPUT BOARD (Scott Safety 093-0270)	1,577.76	64.68
46 82 83 00-0814	EA	DIR CATBEAD/4-20MA IN BASE BRD (Scott Safety 093-0271)	1,928.02	79.05
46 82 83 00-0815	EA	PC BASED GRAPHIC MMI SOFTWARE (Scott Safety 093-0275)	11,604.76	475.72
46 82 83 00-0816	EA	RS485 TO RS232 CONVERTER (Scott Safety 093-0276)	1,696.55	69.55
46 82 83 00-0817	EA	NEMA 4X EXPANSION ENCLOSURE (Scott Safety 093-0277)	1,656.95	67.92
46 82 83 00-0818	EA	SENSOR, H2S REPLACEMENT (NIC) (Scott Safety 093-0285)	1,105.63	45.33
46 82 83 00-0819	EA	SENSOR,O2 (REPLACES 0051-8072) (Scott Safety 093-0286)	697.50	28.59
46 82 83 00-0820	EA	I.S. ACTIVE BARRIER (Scott Safety 093-0291)	919.85	37.71
46 82 83 00-0821	EA	I.S. PASSIVE BARRIER (Scott Safety 093-0292)	1,443.74	59.18
46 82 83 00-0822	EA	DUAL CHANNEL CATBEAD MODULE (Scott Safety 093-0297)	615.27	25.22
46 82 83 00-0823	EA	PIEZO ELECTRIC BUZZER (90DB) (Scott Safety 093-0299)	831.51	34.09
46 82 83 00-0824	EA	4 POS EXPANSION PLT W/MTG S/O (Scott Safety 093-0306)	475.16	19.48
46 82 83 00-0825	EA	6 POS EXPANSION PLT W/MTG S/O (Scott Safety 093-0307)	670.09	27.47
46 82 83 00-0826	EA	SMART NIC LEL MODULE (Scott Safety 093-0309)	1,431.56	58.68
46 82 83 00-0827	EA	IC2 CABLE ASSY.,10 FT. LENGTH (Scott Safety 093-0312)	140.12	5.74
46 82 83 00-0828	EA	NIC 24 Volt LEL XMTR Without ENCLOSURE (Scott Safety 093-0313)	3,411.37	139.85
46 82 83 00-0829	EA	PRINTER INTERFACE OPT. BOARD (Scott Safety 093-0338)	1,544.26	63.30
46 82 83 00-0830	EA	10 Conductors, Ribbon Cable Assembly (Scott Safety 093-0339)	73.08	2.99
46 82 83 00-0831	EA	MEMBRANE FILTER,HI-FLOW,1/4NPT (Scott Safety 093-0359)	2,430.59	99.64
46 82 83 00-0832	EA	7200 PLUS Dual 4-20 input 4X (Scott Safety 093-0427)	4,446.96	182.30
46 82 83 00-0833	EA	7200PLUS W/DUAL CAT BEAD BD. (Scott Safety 093-0428)	4,782.01	196.03
46 82 83 00-0834	EA	7200PLUS DUAL 4-20 INPT NEMA 7 (Scott Safety 093-0429)	12,366.22	506.93
46 82 83 00-0835	EA	7200 PLUS DUAL CAT BEAD BOARD (Scott Safety 093-0430)	10,538.71	432.01
46 82 83 00-0836	EA	7200 PLUS IN NEMA 4X ENCLOSURE (Scott Safety 093-0431)	4,416.50	181.05
46 82 83 00-0837	EA	7200 PLUS N BOLT ON LID NEMA 7 (Scott Safety 093-0432)	6,579.07	269.70
46 82 83 00-0838	EA	DUAL CHANNEL 4-20mA INPUT (Scott Safety 093-0433)	316.77	12.98
46 82 83 00-0839	EA	DUAL COMB. CAT BD SEN. INPUT (Scott Safety 093-0434)	566.54	23.23
46 82 83 00-0840	EA	DISCRETE ALARM RELAY BOARD (Scott Safety 093-0435)	727.97	29.84
46 82 83 00-0841	EA	DUAL 4-20 mA OUTPUT (Scott Safety 093-0436)	612.23	25.09
46 82 83 00-0842	EA	MODBUS RTU ADDRESSABLE INTERFA (Scott Safety 093-0438)	791.93	32.46
46 82 83 00-0843	EA	100db PIEZO AUDIBLE ALARM (Scott Safety 093-0439)	456.87	18.73
46 82 83 00-0844	EA	DUAL LIGHT STACK (AMBER/RED) (Scott Safety 093-0440)	1,251.85	51.31
46 82 83 00-0845	EA	NEMA 4X ENCLOSURE (Scott Safety 093-0441)	569.59	23.35
46 82 83 00-0846	EA	NEMA 4X DOOR (Scott Safety 093-0442)	332.00	13.61
46 82 83 00-0847	EA	MAGNETIC WAND NEMA 7XP ENCLOSU (Scott Safety 093-0443)	39.58	1.63
46 82 83 00-0848	EA	MAGNETIC WAND NEMA 4 ENCLOSURE (Scott Safety 093-0444)	30.46	1.25
46 82 83 00-0849	EA	2 Amperes, Fuse (Scott Safety 093-0445)	33.50	1.38
46 82 83 00-0850	EA	MOTHER BOARD ASSEMBLY (Scott Safety 093-0446)	1,870.16	76.67
46 82 83 00-0851	EA	CD READOUT/MICROCONTROLLER (Scott Safety 093-0447)	1,894.54	77.66
46 82 83 00-0852	EA	FREEDOM PID EXTERNAL FILTERS (Scott Safety 093-0448)	304.58	12.48
46 82 83 00-0853	EA	NEMA 4X CATBEAD INPUT RELAYS (Scott Safety 093-0455)	9,533.57	390.81
46 82 83 00-0854	EA	NEMA 4X 4CHANNEL CATBEAD INPUT (Scott Safety 093-0456)	8,284.76	339.62
46 82 83 00-0855	EA	NEMA 4X 4-20ma INPUT RELAYS (Scott Safety 093-0457)	8,863.48	363.35
46 82 83 00-0856	EA	NEMA 4X 4 CHANNEL 4-20ma INPUT (Scott Safety 093-0458)	8,193.39	335.88
46 82 83 00-0857	EA	NEMA 7 4 CHANNEL CATBEAD INPUT (Scott Safety 093-0459)	18,457.97	756.66
46 82 83 00-0858	EA	NEMA 7 DIRECT CATBEAD INPUT (Scott Safety 093-0460)	17,666.04	724.20
46 82 83 00-0859	EA	NEMA 7 4-20ma INPUT RELAYS (Scott Safety 093-0461)	17,818.33	730.43
46 82 83 00-0860	EA	NEMA 7 4 CHANNEL 4-20ma INPUT (Scott Safety 093-0462)	17,178.70	704.21
46 82 83 00-0861	EA	NEMA 4X 4 CHANNEL BASE UNIT (Scott Safety 093-0463)	7,005.50	287.18
46 82 83 00-0862	EA	NEMA 7 4 CHANNEL BASE UNIT (Scott Safety 093-0464)	16,721.82	685.48
46 82 83 00-0863	EA	QUAD QUAD CHANNEL 4-20ma INPUT (Scott Safety 093-0465)	526.93	21.61
46 82 83 00-0864	EA	QUAD CATBEAD SENSOR INPUT (Scott Safety 093-0466)	1,029.50	42.20
46 82 83 00-0865	EA	QUAD CHANNEL 4-20ma OUTPUT (Scott Safety 093-0467)	837.61	34.34
46 82 83 00-0866	EA	50 WATT NEMA 4X DIV2 P/S (Scott Safety 093-0468)	1,784.88	73.16
46 82 83 00-0867	EA	50 WATT NEMA 7 DIV 1 P/S (Scott Safety 093-0469)	2,071.19	84.91
46 82 83 00-0868	EA	6000 XMTR Without SENSOR HEAD (Scott Safety 093-0479)	2,494.56	102.26
46 82 83 00-0869	EA	6000 POWER I/O PCBA (Scott Safety 093-0498)	584.82	23.98
46 82 83 00-0870	EA	6000 DISPLAY ASSEMBLY (Scott Safety 093-0499)	1,790.98	73.41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0871	EA	6000 RAW PLUG IN SENSOR (Scott Safety 093-0500)	1,120.87	45.95
46 82 83 00-0872	EA	6000 DUCT MOUNT ASSY. FLAT (Scott Safety 093-0502)	959.44	39.33
46 82 83 00-0873	EA	6000 DISPLAY PCB ONLY (Scott Safety 093-0503)	2,226.54	91.27
46 82 83 00-0874	EA	6000 ALARM RELAYS /RS-485 OPT. (Scott Safety 093-0504)	801.05	32.84
46 82 83 00-0875	EA	6000 ISOLATED 4-20MA OUTPUT (Scott Safety 093-0505)	801.05	32.84
46 82 83 00-0876	EA	6000 SENSOR HEAD SPLASH GUARD (Scott Safety 093-0507)	143.17	5.86
46 82 83 00-0877	EA	FREEDOM 6000 RIBBON CABLE (Scott Safety 093-0513)	97.47	4.00
46 82 83 00-0878	EA	FREEDOM 6000 SENSOR (PROPANE) (Scott Safety 093-0515)	1,337.13	54.82
46 82 83 00-0879	EA	STROBE LIGHT, RED (Scott Safety 093-0518)	1,672.19	68.54
46 82 83 00-0880	EA	BATTERY, D CELL 3.6 V LITHIUM (Scott Safety 093-0519)	402.07	16.49
46 82 83 00-0881	EA	SENSOR, COMBUSTIBLE (Scott Safety 093-0524)	472.10	19.36
46 82 83 00-0882	EA	6000 STAINLESS STEEL ENCLOSURE (Scott Safety 093-0535)	956.40	39.21
46 82 83 00-0883	EA	SENSOR IR CO2 0-5% (Scott Safety 093-0536)	1,209.23	49.57
46 82 83 00-0884	EA	7400 PLUS DISPLAY BOARD (Scott Safety 093-0538)	2,010.28	82.41
46 82 83 00-0885	EA	METAL FILTER GAS ADAPTER (Scott Safety 093-0540)	368.55	15.11
46 82 83 00-0886	EA	TITL MOUNT FV40 (Scott Safety 093-0543)	417.29	17.11
46 82 83 00-0887	EA	FV40 AIR SHIELD ASSEMBLY (Scott Safety 093-0548)	2,284.40	93.65
46 82 83 00-0888	EA	FV40 LASER (POINTER) AIMER (Scott Safety 093-0549)	1,742.24	71.41
46 82 83 00-0889	EA	FV40 WEATHER PROTECTION ASSY. (Scott Safety 093-0552)	487.33	19.98
46 82 83 00-0890	EA	FV40 I3 W2 FM 3/4" 75C SS (Scott Safety 093-0556-10)	9,131.51	374.33
46 82 83 00-0891	EA	FV40 PROGRAMMER AND INTERFACE (Scott Safety 093-0565)	959.44	39.33
46 82 83 00-0892	EA	FV40 BRACKET ASSEMBLY 2" DIA. (Scott Safety 093-0566)	493.44	20.22
46 82 83 00-0893	EA	FV40 BRACKET ASSEMBLY 3" DIA. (Scott Safety 093-0567)	493.44	20.22
46 82 83 00-0894	EA	I/O PC BOARD (Scott Safety 093-0568)	2,415.37	99.01
46 82 83 00-0895	EA	SENTINEL 6 7600-2-3-1-1-1-1 (Scott Safety 093-0569)	13,858.71	568.12
46 82 83 00-0896	EA	Cover, Alum Encl, Meridian (Scott Safety 093-0603)	197.98	8.11
46 82 83 00-0897	EA	Cover, Stainless Encl, Meridia (Scott Safety 093-0604)	472.10	19.36
46 82 83 00-0898	EA	7200+,4X,4-20 IN,CSA (Scott Safety 093-0616)	4,051.00	166.06
46 82 83 00-0899	EA	7200+,4X,CATBEAD IN,CSA (Scott Safety 093-0617)	4,386.04	179.80
46 82 83 00-0900	EA	7400+,4X,CATBEAD IN,CSA (Scott Safety 093-0618)	8,589.35	352.10
46 82 83 00-0901	EA	7400+,4X,4-20 IN,CSA (Scott Safety 093-0619)	8,071.55	330.88
46 82 83 00-0902	EA	7200+,4X,4-20 IN,RELAY,PIEZO (Scott Safety 093-0620)	4,842.93	198.53
46 82 83 00-0903	EA	BATTERY BACKUP SYSTEM (Scott Safety 096-0719)	3,380.91	138.59
46 82 83 00-0904	EA	6800 POWER SUPPLY MODULE ASSY (Scott Safety 096-1275)	2,391.01	98.01
46 82 83 00-0905	EA	6800 CPU PC BOARD ASSEMBLY (Scott Safety 096-1284)	2,391.01	98.01
46 82 83 00-0906	EA	6800 POWER SUPPLY PC BD ASSY (Scott Safety 096-1285)	2,025.50	83.03
46 82 83 00-0907	EA	6800 REC. MODULE-DISPLAY PC BD (Scott Safety 096-1288)	1,215.30	49.83
46 82 83 00-0908	EA	SCREW-ON RAIN SHIELD/CAL ADAPT (Scott Safety 096-1621)	252.80	10.36
46 82 83 00-0909	EA	RELAY ALARM SYSTEM FINAL ASSY (Scott Safety 096-2123)	11,330.64	464.48
46 82 83 00-0910	EA	RELAY ALARM SYSTEM W/FAILSAFE (Scott Safety 096-2123FS)	12,762.19	523.17
46 82 83 00-0911	EA	RELAY ALARM SYSTEM FINAL ASSY. (Scott Safety 096-2123SS)	12,762.19	523.17
46 82 83 00-0912	EA	SERIES 7400 POWER SUPPLY PCBA (Scott Safety 096-2383)	2,132.11	87.40
46 82 83 00-0913	EA	SERIES 7400 CPU PCB ASSY. (Scott Safety 096-2384)	1,227.48	50.32
46 82 83 00-0914	EA	HCN FILTER FOR COCL2 SENSORS (Scott Safety 096-2386)	529.98	21.73
46 82 83 00-0915	EA	GENERIC GAS CAL KIT W/1LPM REG (Scott Safety 096-2393)	1,337.13	54.82
46 82 83 00-0916	EA	4600 25 PPM CO/AIR CAL. KIT (Scott Safety 096-2394)	1,988.95	81.54
46 82 83 00-0917	EA	4600 SST H2S TEST GEN ASSY. (Scott Safety 096-2409)	1,754.41	71.93
46 82 83 00-0918	EA	SENSOR F/A 4635 MMH 0-50 PPM (Scott Safety 096-2423-0050)	1,343.22	55.07
46 82 83 00-0919	EA	4600IR GAS TEST ASSEMBLY (Scott Safety 096-2449)	268.03	10.99
46 82 83 00-0920	EA	RS SCRW-ON RAIN SHLD/CAL ADAPT (Scott Safety 096-2469)	258.89	10.61
46 82 83 00-0921	EA	CABLE ASSY,4600/4600MB REMOTE (Scott Safety 096-2494)	432.52	17.73
46 82 83 00-0922	EA	DISPLAY BOARD ASSY. MODIFIED (Scott Safety 096-2497-1PYR)	737.11	30.21
46 82 83 00-0923	EA	Comb. Gas Cal Kit for 7HP Cyl. 0.5 LPM Female Reg. (Scott Safety 096-2506-4)	700.55	28.71
46 82 83 00-0924	EA	Q-NET TO NICII STD. UPGRADE (Scott Safety 096-2610-5)	3,715.97	152.33
46 82 83 00-0925	EA	Q-NET TO NIC II,W/RELAYS (Scott Safety 096-2611-1)	4,782.01	196.03
46 82 83 00-0926	EA	CABLE ASSY,DISPLAY TO P/S (Scott Safety 096-2613)	94.42	3.88
46 82 83 00-0927	EA	ASSY,3000/5000 WALL MTG PLATE (Scott Safety 096-2618)	109.67	4.50
46 82 83 00-0928	EA	1/4T FLOWCELL ASSY. (NORYL) (Scott Safety 096-2669)	359.41	14.73
46 82 83 00-0929	EA	COND. HUMIDITY ENDCAP ASSY (Scott Safety 096-2673)	274.12	11.24
46 82 83 00-0930	EA	DIFFUSION DETECTOR ASSEMBLY (Scott Safety 096-2678)	1,458.97	59.81
46 82 83 00-0931	EA	POSITIVE FLOW DETECTOR ASSY. (Scott Safety 096-2679)	1,364.55	55.93
46 82 83 00-0932	EA	SERIES 7400 REMOTE RELAY PCBA (Scott Safety 096-2688)	1,315.81	53.94
46 82 83 00-0933	EA	SER 7400 REMOTE RELAY ASSEMBLY (Scott Safety 096-2691)	1,577.76	64.68
46 82 83 00-0934	EA	SNSR HOUSING ASSY(FOR CONDUIT) (Scott Safety 096-2706-1)	928.98	38.08
46 82 83 00-0935	EA	3/4" FLEX CONDUIT ASSY./3 FT. (Scott Safety 096-2707)	1,270.14	52.06
46 82 83 00-0936	EA	RAIN SHIELD BASE ASSEMBLY (Scott Safety 096-2709)	405.09	16.61
46 82 83 00-0937	EA	ENDCAP ASSY W/IPA FILTER (Scott Safety 096-2719)	785.84	32.21
46 82 83 00-0938	EA	HOSE DOWN ADAPTER BASE ASSY. (Scott Safety 096-2727)	399.01	16.36
46 82 83 00-0939	EA	7400/SAFESPACE ENCLOSURE DRILL (Scott Safety 096-2728)	405.09	16.61
46 82 83 00-0940	EA	SENSOR HOUSING ASSY. W/WINDOW (Scott Safety 096-2735-1)	688.37	28.22
46 82 83 00-0941	EA	SENSOR HOUSING ASSEMBLY Without WINDOW (Scott Safety 096-2735-2)	1,047.77	42.95
46 82 83 00-0942	EA	SST SNSR HOUSING ASSY W/WINDOW (Scott Safety 096-2736-1)	1,251.85	51.31
46 82 83 00-0943	EA	STAINLESS STEEL SENSOR HOUSING ASSEMBLY Without WINDOW (Scott Safety 096-2736-2)	2,518.93	103.26
46 82 83 00-0944	EA	DISPLAY/OVERLAY ASY W/MAGNETIC (Scott Safety 096-2739)	697.50	28.59
46 82 83 00-0945	EA	DISPLAY/OVERLAY ASY W/P-BUTTON (Scott Safety 096-2739-1)	721.87	29.59
46 82 83 00-0946	EA	4888 H2 2% (50% LEL) CAL KIT (Scott Safety 096-2745)	1,921.95	78.78
46 82 83 00-0947	EA	PROPANE 0.9% (40.9%LEL)CAL KIT (Scott Safety 096-2746)	1,921.95	78.78
46 82 83 00-0948	EA	METHANE 2.5% (50% LEL) CAL KIT (Scott Safety 096-2747)	1,921.95	78.78
46 82 83 00-0949	EA	GENERIC CALIBRATION KIT (Scott Safety 096-2748)	846.75	34.71
46 82 83 00-0950	EA	H2S - Model 21 Low Methanol Sensitivity [25 PPM] (Scott Safety 096-2751-0025)	1,955.45	80.16
46 82 83 00-0951	EA	SENSOR F/A H2S-LM 0-50 PPM (Scott Safety 096-2751-0050)	1,955.45	80.16

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-0952	EA	SENSOR F/A H2S-LM 0-100 PPM (Scott Safety 096-2751-0100)	1,955.45	80.16
46 82 83 00-0953	EA	H2S - Model 21 Low Methanol Sensitivity [200 PPM] (Scott Safety 096-2751-0200)	1,955.45	80.16
46 82 83 00-0954	EA	SENSOR SIMULATOR ASSEMBLY (Scott Safety 096-2773)	746.23	30.59
46 82 83 00-0955	EA	STAINLESS STEEL TAG W/WIRE (Scott Safety 096-2776)	97.47	4.00
46 82 83 00-0956	EA	EXPLOSION-PROOF J-BOX ASSEMBLY (Scott Safety 096-2794)	721.87	29.59
46 82 83 00-0957	EA	10 Conductors, SST Remote Sensor, Cable Assembly (Scott Safety 096-2798)	344.18	14.12
46 82 83 00-0958	EA	8 Conductors, Remote Sensor Cable Assembly (Scott Safety 096-2799)	161.42	6.62
46 82 83 00-0959	EA	I/O BOARD ASSY. MOD/NIC II LEL (Scott Safety 096-2805)	1,312.77	53.81
46 82 83 00-0960	EA	REM SENSOR HSNG ASSY W/WINDOW (Scott Safety 096-2806-1)	758.43	31.09
46 82 83 00-0961	EA	REMOTE SENSOR HOUSING ASSEMBLY Without WINDOW (Scott Safety 096-2806-2)	758.43	31.09
46 82 83 00-0962	EA	SENTINEL II ASSY 2 CH W/BATT (Scott Safety 096-2815-4)	4,629.72	189.79
46 82 83 00-0963	EA	7200 P/S PCB ASSY 1 CHANNEL (Scott Safety 096-2817-1)	1,233.58	50.57
46 82 83 00-0964	EA	7200 P/S PCB ASSY 2 CHANNEL (Scott Safety 096-2817-2)	1,839.70	75.41
46 82 83 00-0965	EA	7200 CPU PCB ASSEMBLY 2 CHANEL (Scott Safety 096-2818-2)	1,434.61	58.80
46 82 83 00-0966	EA	BATTERY BACK-UP CABLE ASSY (Scott Safety 096-2819)	173.63	7.12
46 82 83 00-0967	EA	7200 BATTERY BACK-UP ASSY (Scott Safety 096-2830)	462.98	18.99
46 82 83 00-0968	EA	CALIBRATION KIT, 5 PPM ETO (Scott Safety 096-2858)	2,275.27	93.26
46 82 83 00-0969	EA	CALIBRATION KIT, 10 PPM ETO (Scott Safety 096-2859)	2,275.27	93.26
46 82 83 00-0970	EA	4600 SENSOR HOUSING TEST UNIT (Scott Safety 096-2898)	307.63	12.61
46 82 83 00-0971	EA	4615 ETO SENSOR ASSY.,0-10 PPM (Scott Safety 096-2905-0010)	1,273.17	52.20
46 82 83 00-0972	EA	6V DETECTOR BODY ASSEMBLY (Scott Safety 096-2931)	1,014.26	41.58
46 82 83 00-0973	EA	6V DIFFUSION DETECTOR ASSEMBLY (Scott Safety 096-2932)	2,055.96	84.29
46 82 83 00-0974	EA	6V SAMPLE DRAW ASSEMBLY (Scott Safety 096-2932-2)	3,106.79	127.37
46 82 83 00-0975	EA	POREX FILTER MEMBRANE REPL KIT (Scott Safety 096-2947)	194.93	7.99
46 82 83 00-0976	EA	Q-NET TO NICII CONVERT,4-20MA (Scott Safety 096-3005-1)	4,690.64	192.29
46 82 83 00-0977	EA	Q-NET TO NICII CONVERT,4-20MA (Scott Safety 096-3005-2)	4,995.22	204.77
46 82 83 00-0978	EA	VITON O-RING KIT (Scott Safety 096-3021)	57.87	2.37
46 82 83 00-0979	EA	LOW COST CAL KIT, 50 PPM CO (Scott Safety 096-3040)	569.59	23.35
46 82 83 00-0980	EA	LOW COST CAL KIT, 18.5% O2 (Scott Safety 096-3041)	971.64	39.83
46 82 83 00-0981	EA	LOW COST CAL KIT, 25 PPM H2S (Scott Safety 096-3042)	1,005.14	41.20
46 82 83 00-0982	EA	LOW COST CAL KIT, 1 PPM PH3 (Scott Safety 096-3043)	1,672.19	68.54
46 82 83 00-0983	EA	LOW COST CAL KIT, 5 PPM CL2 (Scott Safety 096-3047)	1,672.19	68.54
46 82 83 00-0984	EA	LOW COST CAL KIT, 25 PPM NH3 (Scott Safety 096-3048)	1,672.19	68.54
46 82 83 00-0985	EA	4888 NIC II 6V POISON RESIS (Scott Safety 096-3153)	5,086.60	208.52
46 82 83 00-0986	EA	ALARM SYS FINAL ASSY (Scott Safety 096-3179)	3,898.71	159.83
46 82 83 00-0987	EA	DRAW PANEL ASPIRATOR SS TUBING (Scott Safety 096-3194-1)	25,950.80	1,063.81
46 82 83 00-0988	EA	DRAW PANEL ASPIRATOR CU TUBING (Scott Safety 096-3195-1)	24,732.46	1,013.86
46 82 83 00-0989	EA	4600IR/4679CO2 VERS. P/S BOARD (Scott Safety 096-3196)	1,766.61	72.42
46 82 83 00-0990	EA	4600MB COND. HUMID. SNSR ASSY (Scott Safety 096-3197)	904.64	37.08
46 82 83 00-0991	EA	STD SENSOR FLOW CELL KIT FLEX (Scott Safety 096-3198-2)	395.96	16.23
46 82 83 00-0992	EA	RS SENSOR FLOW CELL KIT FLEX (Scott Safety 096-3199-2)	395.96	16.23
46 82 83 00-0993	EA	STD SENSOR FLOW CELL KIT RIGID (Scott Safety 096-3200-2)	94.42	3.88
46 82 83 00-0994	EA	RS SENSOR FLOW CELL KIT RIGID (Scott Safety 096-3201-2)	124.89	5.12
46 82 83 00-0995	EA	SINGLE POINT DRAW PANEL W/PUMP (Scott Safety 096-3210)	10,142.75	415.78
46 82 83 00-0996	EA	7800 REMOTE RELAY PANEL ASSY. (Scott Safety 096-3214-1)	1,696.55	69.55
46 82 83 00-0997	EA	7800 REMOTE RELAY PANEL ASSY. (Scott Safety 096-3214-2)	3,167.70	129.86
46 82 83 00-0998	EA	7800 REMOTE RELAY PANEL ASSY. (Scott Safety 096-3214-3)	4,294.67	176.06
46 82 83 00-0999	EA	7800 REMOTE RELAY PANEL ASSY. (Scott Safety 096-3214-4)	5,726.24	234.74
46 82 83 00-1000	EA	7800 REMOTE RELAY PANEL ASSY. (Scott Safety 096-3214-5)	7,157.79	293.42
46 82 83 00-1001	EA	7800 REMOTE RELAY PANEL ASSY. (Scott Safety 096-3214-6)	8,589.35	352.10
46 82 83 00-1002	EA	NIC II REPLACEMENT KIT (Scott Safety 096-3215)	3,655.06	149.84
46 82 83 00-1003	EA	4600 MODBUS LCD And CPU KIT (Scott Safety 096-3216)	2,208.26	90.52
46 82 83 00-1004	EA	DUAL PT FLW PL-COPPER,LESS XMT (Scott Safety 096-3217)	20,041.82	821.59
46 82 83 00-1005	EA	SNGLE PT SAMPLE DRAW CAB. S.S. (Scott Safety 096-3219-2)	40,966.94	1,679.38
46 82 83 00-1006	EA	GREY PVC FILTER CAGE ASS'Y (Scott Safety 096-3221)	170.58	7.00
46 82 83 00-1007	EA	100 PPM ISOBUTYLENE CAL KIT (Scott Safety 096-3235)	1,891.49	77.54
46 82 83 00-1008	EA	20 PPM ISOBUTYLENE CAL KIT (Scott Safety 096-3236)	1,891.49	77.54
46 82 83 00-1009	EA	CALIBRATION ADAPTER ASSEMBLY (Scott Safety 096-3242)	85.28	3.49
46 82 83 00-1010	EA	PROTEGE 4 GAS FINAL ASSEMBLY (Scott Safety 096-3264)	1,672.19	68.54
46 82 83 00-1011	EA	6000 COMBUSTIBLE HEAD ASSEMBLY (Scott Safety 096-3349)	502.56	20.59
46 82 83 00-1012	EA	CALIBRATION KIT (METHANE) (Scott Safety 096-3350)	1,921.95	78.78
46 82 83 00-1013	EA	FREEDOM 6000 ADAPTER BD ASSY. (Scott Safety 096-3354)	137.07	5.61
46 82 83 00-1014	EA	REMOTE TEST ADAPTER ASSEMBLY (Scott Safety 096-3355)	487.33	19.98
46 82 83 00-1015	EA	DETECTOR GUARD ASSEMBLY (Scott Safety 096-3363)	252.80	10.36
46 82 83 00-1016	EA	REPROGRAMMED ETHANE SENSOR (Scott Safety 096-3368-01)	1,641.73	67.30
46 82 83 00-1017	EA	REPROGRAMMED PROPYLENE SENSOR (Scott Safety 096-3368-02)	1,641.73	67.30
46 82 83 00-1018	EA	REPROGRAMMED METHANOL SENSOR (Scott Safety 096-3368-03)	1,641.73	67.30
46 82 83 00-1019	EA	REPROGRAMMED CYCLOHEXANE SENSO (Scott Safety 096-3368-04)	1,641.73	67.30
46 82 83 00-1020	EA	REPROGRAMMED ACETONE SENSOR (Scott Safety 096-3368-05)	1,641.73	67.30
46 82 83 00-1021	EA	REPROGRAMMED ETHYLENE SENSOR (Scott Safety 096-3368-06)	1,641.73	67.30
46 82 83 00-1022	EA	SENSOR BREAKOUT CAT/IR PCBA (Scott Safety 096-3369)	149.25	6.12
46 82 83 00-1023	EA	4500 O2 SENSOR ASSEMBLY (Scott Safety 096-3374)	1,395.01	57.19
46 82 83 00-1024	EA	ASSEMBLY, DETECTOR BODY (ATEX) (Scott Safety 096-3376)	1,075.18	44.08
46 82 83 00-1025	EA	F6K REMOTE SENSOR HOUSING ASSY (Scott Safety 096-3391)	688.37	28.22
46 82 83 00-1026	EA	NEXT GEN POWER SUPPLY PCBA (Scott Safety 096-3401)	670.09	27.47
46 82 83 00-1027	EA	Terminal / Relay PCBA (Scott Safety 096-3404)	426.42	17.48
46 82 83 00-1028	EA	2 WIRE POWER SUPPLY BOARD ASSY (Scott Safety 096-3407)	350.27	14.36
46 82 83 00-1029	EA	HART Expansion Board Assembly (Scott Safety 096-3408)	609.18	24.97
46 82 83 00-1030	EA	ASSEMBLY,DETECTOR BODY,NEX-GEN (Scott Safety 096-3436-1)	913.76	37.45
46 82 83 00-1031	EA	ASSEMBLY,DETECTOR BODY,NEX-GEN (Scott Safety 096-3436-2)	913.76	37.45
46 82 83 00-1032	EA	ASSEMBLY, CAP, DETECTOR HEAD (Scott Safety 096-3437-1)	60.91	2.50

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46 82 83 00-1033	EA	ASSEMBLY, CAP, DETECTOR HEAD (Scott Safety 096-3437-2)	304.58	12.48
46 82 83 00-1034	EA	ASSY,ADAPTER,CALIBRATION,NEX-G (Scott Safety 096-3438)	152.29	6.24
46 82 83 00-1035	EA	ASSY,ADAPTER,FLOW CELL,NEX-GEN (Scott Safety 096-3439)	167.52	6.87
46 82 83 00-1036	EA	ASSY,KIT,DUCT MOUNT ADAPTER (Scott Safety 096-3440)	313.72	12.86
46 82 83 00-1037	EA	ASSEMBLY, DELUGE GUARD (Scott Safety 096-3441)	228.44	9.37
46 82 83 00-1038	EA	DISPLAY ASSEMBLY NEXT GEN (Scott Safety 096-3447-01)	837.61	34.34
46 82 83 00-1039	EA	DISPLAY ASSEMBLY NEXT GEN (Scott Safety 096-3447-02)	1,370.64	56.18
46 82 83 00-1040	EA	BLIND DISPLAY ASSY MERIDIAN (Scott Safety 096-3447-03)	837.61	34.34
46 82 83 00-1041	EA	IS BARRIER PUCK (Scott Safety 096-3448)	365.50	14.98
46 82 83 00-1042	EA	2 WIRE IS BARRIER ASSEMBLY (Scott Safety 096-3449)	304.58	12.48
46 82 83 00-1043	EA	DISPLAY CABLE ASSEMBLY (Scott Safety 096-3456)	45.68	1.88
46 82 83 00-1044	EA	DETECTOR GUARD SEAL KIT (Scott Safety 096-3457)	207.11	8.49
46 82 83 00-1045	EA	ASSEMBLY, FLOW CELL, DETECTOR (Scott Safety 096-3464)	651.81	26.72
46 82 83 00-1046	EA	SENSOR, ASSEMBLY, NG CO (Scott Safety 096-3473-01)	1,218.35	49.95
46 82 83 00-1047	EA	SENSOR, ASSEMBLY, H2S-LM (Scott Safety 096-3473-02)	913.76	37.45
46 82 83 00-1048	EA	SENSOR, ASSEMBLY, NH3 (Scott Safety 096-3473-03)	1,218.35	49.95
46 82 83 00-1049	EA	SENSOR, ASSEMBLY, SO2 HRH (Scott Safety 096-3473-05)	1,099.56	45.08
46 82 83 00-1050	EA	SENSOR, ASSEMBLY, SIH4 (Scott Safety 096-3473-09)	1,827.53	74.92
46 82 83 00-1051	EA	SENSOR, ASSEMBLY, HCN (Scott Safety 096-3473-11)	1,142.21	46.82
46 82 83 00-1052	EA	SENSOR, ASSEMBLY, NG O2 (Scott Safety 096-3473-19)	913.76	37.45
46 82 83 00-1053	EA	SENSOR, ASSEMBLY, CL2 RS HRH (Scott Safety 096-3473-20)	1,218.35	49.95
46 82 83 00-1054	EA	SENSOR, ASSEMBLY, CL2 RS LRH (Scott Safety 096-3473-21)	1,218.35	49.95
46 82 83 00-1055	EA	SENSOR, ASSEMBLY, F2 RS HRH (Scott Safety 096-3473-22)	1,218.35	49.95
46 82 83 00-1056	EA	SENSOR, ASSEMBLY, F2 RS LRH (Scott Safety 096-3473-23)	1,218.35	49.95
46 82 83 00-1057	EA	SENSOR, ASSEMBLY, BR2 RS HRH (Scott Safety 096-3473-24)	1,218.35	49.95
46 82 83 00-1058	EA	SENSOR, ASSEMBLY, HCL RS HRH (Scott Safety 096-3473-25)	1,218.35	49.95
46 82 83 00-1059	EA	SENSOR, ASSEMBLY, HCL RS LRH (Scott Safety 096-3473-26)	1,218.35	49.95
46 82 83 00-1060	EA	SENSOR, ASSEMBLY, HF RS HRH (Scott Safety 096-3473-27)	1,218.35	49.95
46 82 83 00-1061	EA	SENSOR, ASSEMBLY, HF RS LRH (Scott Safety 096-3473-28)	1,218.35	49.95
46 82 83 00-1062	EA	SENSOR, ASSEMBLY, SO2 RS HRH (Scott Safety 096-3473-31)	1,218.35	49.95
46 82 83 00-1063	EA	SENSOR, ASSEMBLY, SO2 RS LRH (Scott Safety 096-3473-32)	1,218.35	49.95
46 82 83 00-1064	EA	SENSOR, ASSEMBLY, CLO2 RS HRH (Scott Safety 096-3473-37)	1,599.08	65.55
46 82 83 00-1065	EA	SENSOR, ASSEMBLY, CLO2 RS LRH (Scott Safety 096-3473-38)	1,599.08	65.55
46 82 83 00-1066	EA	SENSOR, ASSEMBLY, O3 RS HRH (Scott Safety 096-3473-39)	1,294.49	53.07
46 82 83 00-1067	EA	SENSOR, ASSEMBLY, NO2 (Scott Safety 096-3473-54)	1,020.36	41.83
46 82 83 00-1068	EA	SENSOR,ASSY,NG COMB CAT BEAD (Scott Safety 096-3473-55)	816.86	33.48
46 82 83 00-1069	EA	SENSOR, ASSEMBLY, NG COMB IR (Scott Safety 096-3473-56)	1,536.77	63.00
46 82 83 00-1070	EA	SENSOR, ASSEMBLY, NG CO2 IR (Scott Safety 096-3473-58)	1,509.08	61.87
46 82 83 00-1071	EA	JUNCTION BOX ASSEMBLY NEXT GEN (Scott Safety 096-3475)	472.10	19.36
46 82 83 00-1072	EA	JCT BOX ASSY MERIDIAN INMETRO (Scott Safety 096-3475-01)	472.10	19.36
46 82 83 00-1073	EA	AL,3/4 WIRE,4-20/MOD,STD,1 SEN (Scott Safety 096-3480-01)	3,198.16	131.10
46 82 83 00-1074	EA	SS,3/4 WIRE,4-20/MOD,STD 1 SEN (Scott Safety 096-3480-02)	3,929.17	161.06
46 82 83 00-1075	EA	AL,3-4 Wire,Heated,Plastic Ca (Scott Safety 096-3480-03)	3,655.06	149.84
46 82 83 00-1076	EA	SS,3/4 WIRE,4-20/MOD,HEAT,1SEN (Scott Safety 096-3480-04)	4,264.21	174.81
46 82 83 00-1077	EA	AL,3-4 Wire,Standard,SS End Ca (Scott Safety 096-3480-05)	3,380.91	138.59
46 82 83 00-1078	EA	SS,3-4 Wire,Standard,SS End Ca (Scott Safety 096-3480-06)	4,020.54	164.82
46 82 83 00-1079	EA	AL,3-4 Wire,Heated,SS End Cap (Scott Safety 096-3480-07)	3,868.26	158.57
46 82 83 00-1080	EA	SS, 3/4 WIRE, 4-20/Mod, HART, (Scott Safety 096-3480-08)	4,477.42	183.55
46 82 83 00-1081	EA	ASSEMBLY, CHAIN (Scott Safety 096-3482)	60.91	2.50
46 82 83 00-1082	EA	NPT TO NPT WIRE GLAND ASSEMBLY (Scott Safety 096-3483)	609.18	24.97
46 82 83 00-1083	EA	DET HEAD END CAP ASSY 3/4 WIRE (Scott Safety 096-3484-01)	974.68	39.95
46 82 83 00-1084	EA	DET HEAD END CAP ASSY 2 WIRE (Scott Safety 096-3484-02)	1,066.05	43.70
46 82 83 00-1085	EA	DET HEAD PLAS END CAP 2 WIRE (Scott Safety 096-3484-03)	974.68	39.95
46 82 83 00-1086	EA	DET HEAD SS END CAP 2 WIRE (Scott Safety 096-3484-04)	1,099.56	45.08
46 82 83 00-1087	EA	DET HEAD PLAS END CAP 3/4 WIRE (Scott Safety 096-3484-05)	974.68	39.95
46 82 83 00-1088	EA	DET HEAD SS END CAP 3/4 WIRE (Scott Safety 096-3484-06)	968.59	39.70
46 82 83 00-1089	EA	AL, 3-4 Wire, Standard, Plasti (Scott Safety 096-3493-01)	5,482.55	224.76
46 82 83 00-1090	EA	SS, 3-4 Wire, Standard, Plasti (Scott Safety 096-3493-02)	6,274.48	257.22
46 82 83 00-1091	EA	AL, 3-4 Wire, Heated, Plastic (Scott Safety 096-3493-03)	5,939.45	243.47
46 82 83 00-1092	EA	SS, 3-4 Wire, Heated, Plastic (Scott Safety 096-3493-04)	6,731.38	275.94
46 82 83 00-1093	EA	AL, 3-4 Wire, Standard, SS End (Scott Safety 096-3493-05)	5,665.31	232.25
46 82 83 00-1094	EA	SS, 3-4 Wire, Standard, SS End (Scott Safety 096-3493-06)	6,457.23	264.71
46 82 83 00-1095	EA	AL, 3-4 Wire, Heated, SS End C (Scott Safety 096-3493-07)	6,122.20	250.97
46 82 83 00-1096	EA	SS, 3-4 Wire, Heated, SS End C (Scott Safety 096-3493-08)	6,944.59	284.68
46 82 83 00-1097	EA	AL, 3-4 Wire, Standard, Plasti (Scott Safety 096-3493-09)	7,614.67	312.16
46 82 83 00-1098	EA	SS, 3-4 Wire, Standard, Plasti (Scott Safety 096-3493-10)	8,223.85	337.12
46 82 83 00-1099	EA	AL, 3-4 Wire, Heated, Plastic (Scott Safety 096-3493-11)	8,071.55	330.88
46 82 83 00-1100	EA	SS, 3-4 Wire, Heated, Plastic (Scott Safety 096-3493-12)	8,680.73	355.86
46 82 83 00-1101	EA	AL, 3-4 Wire, Standard, SS End (Scott Safety 096-3493-13)	7,888.80	323.39
46 82 83 00-1102	EA	SS, 3-4 Wire, Standard, SS End (Scott Safety 096-3493-14)	8,497.97	348.37
46 82 83 00-1103	EA	AL, 3-4 Wire, Heated, SS End C (Scott Safety 096-3493-15)	8,345.68	342.11
46 82 83 00-1104	EA	SS, 3-4 Wire, Heated, SS End C (Scott Safety 096-3493-16)	8,954.86	367.08
46 82 83 00-1105	EA	MERIDIAN CONNECTOR/JUMPER KIT (Scott Safety 096-3495)	167.52	6.87
46 82 83 00-1106	EA	MERIDIAN SCREW REPLACEMENT KIT (Scott Safety 096-3496)	16.75	0.69
46 82 83 00-1107	EA	MERIDIAN STANDOFF REPLACE KIT (Scott Safety 096-3497)	76.14	3.12
46 82 83 00-1108	EA	MERIDIAN O-RING REPLACE KIT (Scott Safety 096-3498)	36.55	1.51
46 82 83 00-1109	EA	CALIBRATION KIT, STANDARD (Scott Safety 096-3500)	959.44	39.33
46 82 83 00-1110	EA	CALIBRATION KIT, REACTIVE GAS (Scott Safety 096-3501)	959.44	39.33
46 82 83 00-1111	EA	CALIBRATION KIT, HIGH FLOW (Scott Safety 096-3502)	959.44	39.33
46 82 83 00-1112	EA	SS JUNCTION BOX ASSEMBLY (Scott Safety 096-3520)	1,099.56	45.08
46 82 83 00-1113	EA	SS JUNCTION BOX ASSEMBLY INM (Scott Safety 096-3520-01)	1,099.56	45.08

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1114	EA	SALES DISPLAY KIT (USA) (Scott Safety 096-3523-01)	15,229.35	624.30
46 82 83 00-1115	EA	SALES DISPLAY KIT (CANADA) (Scott Safety 096-3523-02)	15,229.35	624.30
46 82 83 00-1116	EA	AL,2 Wire,Standard,Plastic Cap (Scott Safety 096-3533-01)	2,741.29	112.37
46 82 83 00-1117	EA	SS,2 Wire,Standard,Plastic Cap (Scott Safety 096-3533-02)	3,441.84	141.09
46 82 83 00-1118	EA	AL,2 Wire,Standard,SS End Cap (Scott Safety 096-3533-03)	3,070.78	125.88
46 82 83 00-1119	EA	SS,2 Wire,Standard,SS End Cap (Scott Safety 096-3533-04)	3,751.96	153.80
46 82 83 00-1120	EA	AL,2 Wire,Standard,Plastic Cap (Scott Safety 096-3533-05)	2,741.29	112.37
46 82 83 00-1121	EA	SS,2 Wire,Standard,Plastic Cap (Scott Safety 096-3533-06)	3,441.84	141.09
46 82 83 00-1122	EA	AL,2 Wire,Standard,SS End Cap (Scott Safety 096-3533-07)	2,917.93	119.62
46 82 83 00-1123	EA	SS,2 Wire,Standard,SS End Cap (Scott Safety 096-3533-08)	3,624.60	148.58
46 82 83 00-1124	EA	AL, 3-4 Wire, Standard, HART, (Scott Safety 096-3534-01)	3,807.34	156.07
46 82 83 00-1125	EA	AL, 3-4 Wire, Standard, HART, (Scott Safety 096-3534-02)	3,898.71	159.83
46 82 83 00-1126	EA	SS, 3-4 Wire, Standard, HART, (Scott Safety 096-3534-03)	4,416.50	181.05
46 82 83 00-1127	EA	SS, 3-4 Wire, Standard, HART, (Scott Safety 096-3534-04)	4,629.72	189.79
46 82 83 00-1128	EA	AL, 3-4 Wire, Blind, HART, Pla (Scott Safety 096-3534-05)	3,502.75	143.58
46 82 83 00-1129	EA	AL, 3-4 Wire, Blind, HART, SS (Scott Safety 096-3534-06)	3,715.97	152.33
46 82 83 00-1130	EA	SS, 3-4 Wire, Blind, HART, Pla (Scott Safety 096-3534-07)	4,111.92	168.56
46 82 83 00-1131	EA	SS, 3-4 Wire, Blind, HART, SS (Scott Safety 096-3534-08)	4,325.13	177.30
46 82 83 00-1132	EA	AL, 3-4 Wire, Heated, HART, PI (Scott Safety 096-3534-09)	4,264.21	174.81
46 82 83 00-1133	EA	AL, 3-4 Wire, Heated, HART, SS (Scott Safety 096-3534-10)	4,355.58	178.55
46 82 83 00-1134	EA	SS, 3-4 Wire, Heated, HART, PI (Scott Safety 096-3534-11)	4,873.39	199.78
46 82 83 00-1135	EA	SS, 3-4 Wire, Heated, HART, SS (Scott Safety 096-3534-12)	4,964.76	203.52
46 82 83 00-1136	EA	AL, 3-4 Wire, Blind, HART, Pla (Scott Safety 096-3534-13)	3,502.75	143.58
46 82 83 00-1137	EA	AL, 3-4 Wire, Blind, HART, SS (Scott Safety 096-3534-14)	3,594.13	147.34
46 82 83 00-1138	EA	SS, 3-4 Wire, Blind, HART, Pla (Scott Safety 096-3534-15)	4,111.92	168.56
46 82 83 00-1139	EA	SS, 3-4 Wire, Blind, HART, SS (Scott Safety 096-3534-16)	4,325.13	177.30
46 82 83 00-1140	EA	AL, 3-4 Wire, Standard, HART, (Scott Safety 096-3535-01)	6,091.73	249.73
46 82 83 00-1141	EA	SS, 3-4 Wire, Standard, HART, (Scott Safety 096-3535-02)	6,700.91	274.70
46 82 83 00-1142	EA	AL, 3-4 Wire, Heated, HART, PI (Scott Safety 096-3535-03)	6,548.62	268.45
46 82 83 00-1143	EA	SS, 3-4 Wire, Heated, HART, PI (Scott Safety 096-3535-04)	7,157.79	293.42
46 82 83 00-1144	EA	AL, 3-4 Wire, Standard, HART, (Scott Safety 096-3535-05)	6,274.48	257.22
46 82 83 00-1145	EA	SS, 3-4 Wire, Standard, HART, (Scott Safety 096-3535-06)	7,096.87	290.93
46 82 83 00-1146	EA	AL, 3-4 Wire, Heated, HART, SS (Scott Safety 096-3535-07)	6,731.38	275.94
46 82 83 00-1147	EA	SS, 3-4 Wire, Heated, HART, SS (Scott Safety 096-3535-08)	7,553.76	309.66
46 82 83 00-1148	EA	AL, 3-4 Wire, Standard, HART, (Scott Safety 096-3535-09)	8,223.85	337.12
46 82 83 00-1149	EA	SS, 3-4 Wire, Standard, HART, (Scott Safety 096-3535-10)	8,833.03	362.09
46 82 83 00-1150	EA	AL, 3-4 Wire, Heated, HART, PI (Scott Safety 096-3535-11)	8,680.73	355.86
46 82 83 00-1151	EA	SS, 3-4 Wire, Heated, HART, PI (Scott Safety 096-3535-12)	9,289.90	380.83
46 82 83 00-1152	EA	AL, 3-4 Wire, Standard, HART, (Scott Safety 096-3535-13)	8,497.97	348.37
46 82 83 00-1153	EA	SS, 3-4 Wire, Standard, HART, (Scott Safety 096-3535-14)	9,107.15	373.34
46 82 83 00-1154	EA	AL, 3-4 Wire, Heated, HART, SS (Scott Safety 096-3535-15)	8,954.86	367.08
46 82 83 00-1155	EA	SS, 3-4 Wire, Heated, HART, SS (Scott Safety 096-3535-16)	9,564.03	392.06
46 82 83 00-1156	EA	GUARD, DETECTOR, 5.5V, F6000 (Scott Safety 096-3536)	252.80	10.36
46 82 83 00-1157	EA	A-FRAME SALES DISPLAY ONLY (Scott Safety 096-3541-00)	761.47	31.21
46 82 83 00-1158	EA	A-FRAME SALES DISPLAY ASSY USA (Scott Safety 096-3541-01)	4,081.46	167.32
46 82 83 00-1159	EA	A-FRAME SALES DISPLAY ASSY CAN (Scott Safety 096-3541-02)	4,233.75	173.56
46 82 83 00-1160	EA	IS TERMINAL BLOCK KIT (Scott Safety 096-3550)	45.68	1.88
46 82 83 00-1161	EA	AL,2 Wire,Standard,Plastic Cap (Scott Safety 096-3557-01)	2,741.29	112.37
46 82 83 00-1162	EA	SS,2 Wire,Standard,Plastic Cap (Scott Safety 096-3557-02)	3,441.84	141.09
46 82 83 00-1163	EA	AL,2 Wire,Standard,SS End Cap (Scott Safety 096-3557-03)	2,917.93	119.62
46 82 83 00-1164	EA	SS,2 Wire,Standard,SS End Cap (Scott Safety 096-3557-04)	3,533.21	144.84
46 82 83 00-1165	EA	AL,2 Wire,Standard,Plastic Cap (Scott Safety 096-3557-05)	2,741.29	112.37
46 82 83 00-1166	EA	SS,2 Wire,Standard,Plastic Cap (Scott Safety 096-3557-06)	3,441.84	141.09
46 82 83 00-1167	EA	AL,2 Wire,Standard,SS End Cap (Scott Safety 096-3557-07)	2,917.93	119.62
46 82 83 00-1168	EA	SS,2 Wire,Standard,SS End Cap (Scott Safety 096-3557-08)	3,594.13	147.34
46 82 83 00-1169	EA	AL, 3-4 Wire, Standard,Plastic (Scott Safety 096-3558-01)	3,198.16	131.10
46 82 83 00-1170	EA	SS, 3-4 Wire, Standard,Plastic (Scott Safety 096-3558-02)	3,929.17	161.06
46 82 83 00-1171	EA	AL, 3-4 Wire, Heated, Plastic (Scott Safety 096-3558-03)	3,655.06	149.84
46 82 83 00-1172	EA	SS, 3-4 Wire, Heated, Plastic (Scott Safety 096-3558-04)	4,264.21	174.81
46 82 83 00-1173	EA	AL, 3-4 Wire, Standard, SS EC (Scott Safety 096-3558-05)	3,380.91	138.59
46 82 83 00-1174	EA	SS, 3-4 Wire, Standard, SS EC (Scott Safety 096-3558-06)	4,020.54	164.82
46 82 83 00-1175	EA	AL, 3-4 Wire, Heated, SS EC (Scott Safety 096-3558-07)	3,868.26	158.57
46 82 83 00-1176	EA	SS, 3-4 Wire, Heated, SS EC (Scott Safety 096-3558-08)	4,477.42	183.55
46 82 83 00-1177	EA	AL, 3-4 Wire, Standard, HART, (Scott Safety 096-3558-09)	3,807.34	156.07
46 82 83 00-1178	EA	SS, 3-4 Wire, Standard, HART, (Scott Safety 096-3558-10)	4,416.50	181.05
46 82 83 00-1179	EA	AL, 3-4 Wire, Heated, HART, PI (Scott Safety 096-3558-11)	4,264.21	174.81
46 82 83 00-1180	EA	SS, 3-4 Wire, Heated, HART, PI (Scott Safety 096-3558-12)	4,873.39	199.78
46 82 83 00-1181	EA	AL, 3-4 Wire, Standard, HART, (Scott Safety 096-3558-13)	3,898.71	159.83
46 82 83 00-1182	EA	SS, 3-4 Wire, Standard, HART, (Scott Safety 096-3558-14)	4,629.72	189.79
46 82 83 00-1183	EA	AL, 3-4 Wire, Heated, HART, SS (Scott Safety 096-3558-15)	4,355.58	178.55
46 82 83 00-1184	EA	SS, 3-4 Wire, Heated, HART, SS (Scott Safety 096-3558-16)	5,117.06	209.77
46 82 83 00-1185	EA	REMOTE JUNCTION BOX ASSY AL (Scott Safety 096-3559-01)	350.27	14.36
46 82 83 00-1186	EA	REMOTE JUNCTION BOX ASSY SS (Scott Safety 096-3559-02)	1,066.05	43.70
46 82 83 00-1187	EA	INMETRO 2 WIRE AL INTEGRAL (Scott Safety 096-3563-01)	2,823.52	115.75
46 82 83 00-1188	EA	INMETRO 2 WIRE SS INTEGRAL (Scott Safety 096-3563-02)	3,441.84	141.09
46 82 83 00-1189	EA	INMETRO 3/4 WIRE AL INTEGRUL (Scott Safety 096-3564-01)	3,289.54	134.86
46 82 83 00-1190	EA	INMETRO 3/4 WIRE SS INTEGRUL (Scott Safety 096-3564-02)	3,929.17	161.06
46 82 83 00-1191	EA	INM 3/4 WIRE BLIND AL INTEGRUL (Scott Safety 096-3564-03)	3,009.31	123.36
46 82 83 00-1192	EA	INM 3/4 WIRE BLIND SS INTEGRUL (Scott Safety 096-3564-04)	3,655.06	149.84
46 82 83 00-1193	EA	INMETRO 2 WIRE AL REMOTE HEAD (Scott Safety 096-3565-01)	2,823.52	115.75
46 82 83 00-1194	EA	INMETRO 2 WIRE SS REMOTE HEAD (Scott Safety 096-3565-02)	3,441.84	141.09

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1195	EA	INMETRO 3-4 WIRE AL REMOTE (Scott Safety 096-3566-01)	3,198.16	131.10
46 82 83 00-1196	EA	INMETRO 3-4 WIRE SS REMOTE (Scott Safety 096-3566-02)	3,929.17	161.06
46 82 83 00-1197	EA	INM 3-4 WIRE BLIND AL REMOTE (Scott Safety 096-3566-03)	3,502.75	143.58
46 82 83 00-1198	EA	INM 3-4 WIRE BLIND SS REMOTE (Scott Safety 096-3566-04)	4,111.92	168.56
46 82 83 00-1199	EA	2 HEAD,AL ENCLOSURE, STANDARD (Scott Safety 096-3568-01)	5,482.55	224.76
46 82 83 00-1200	EA	2 HEAD,SS ENCLOSURE, STANDARD (Scott Safety 096-3568-02)	6,274.48	257.22
46 82 83 00-1201	EA	3 HEAD,AL ENCLOSURE, STANDARD (Scott Safety 096-3569-01)	7,614.67	312.16
46 82 83 00-1202	EA	3 HEAD,SS ENCLOSURE, STANDARD (Scott Safety 096-3569-02)	8,223.85	337.12
46 82 83 00-1203	EA	MERIDIAN HART CEC KIT (Scott Safety 096-3579-01)	609.18	24.97
46 82 83 00-1204	EA	7400 SOFTWARE CODE (2 CHANNEL) (Scott Safety 099-0008-2)	877.21	35.96
46 82 83 00-1205	EA	7400 SOFTWARE CODE (3 CHANNEL) (Scott Safety 099-0008-3)	877.21	35.96
46 82 83 00-1206	EA	7400 SOFTWARE CODE (4 CHANNEL) (Scott Safety 099-0008-4)	877.21	35.96
46 82 83 00-1207	EA	3-POINT FLOW PANEL FINAL ASSY. (Scott Safety 099-2001)	16,599.98	680.49
46 82 83 00-1208	EA	SWIVEL BALL JOINT MTG-ENGLISH (Scott Safety 2020-003)	551.31	22.60
46 82 83 00-1209	EA	EXT. RANGE SIMULATOR LENS (Scott Safety 2020-190)	2,214.35	90.77
46 82 83 00-1210	EA	IR SIMULATOR (Scott Safety 2020-310)	15,278.09	626.30
46 82 83 00-1211	EA	UV And UV/IR SIMULATOR (Scott Safety 2020-311)	14,324.70	587.22
46 82 83 00-1212	EA	SINGLE IR FIRE SIMULATOR (Scott Safety 2020-312)	13,880.03	568.99
46 82 83 00-1213	EA	MULTI IR FIRE SIMULATOR (Scott Safety 2020-313)	15,412.09	631.80
46 82 83 00-1214	EA	IR3 AIR SHIELD/PURGE (Scott Safety 2020-920)	916.81	37.59
46 82 83 00-1215	EA	UV And UV/IR AIR SHIELD/PURGE (Scott Safety 2020-930)	916.81	37.59
46 82 83 00-1216	EA	SOC SET SCREW,CUP PT,6X3/16,SS (Scott Safety 33351-017)	20.10	0.82
46 82 83 00-1217	EA	ZINC ELECTRODE,K (Scott Safety 3480-6200)	88.32	3.61
46 82 83 00-1218	EA	2.5%NATURAL GAS CYLINDER(HM) (Scott Safety 40000035)	152.29	6.24
46 82 83 00-1219	EA	FLOW BLOCK FOR 40013029 (Scott Safety 40000922)	660.96	27.10
46 82 83 00-1220	EA	REGULATOR,AIR PRESSURE (Scott Safety 40001723)	1,285.36	52.69
46 82 83 00-1221	EA	AIR ASPIRATOR ASSEMBLY (S.S.) (Scott Safety 40002139)	1,014.26	41.58
46 82 83 00-1222	EA	NOZZLE, AIR ASPIRATOR, S.S. (Scott Safety 40002727)	161.42	6.62
46 82 83 00-1223	EA	BODY, AIR ASPIRATOR, S.S. (Scott Safety 40002728)	487.33	19.98
46 82 83 00-1224	EA	SPACER, STAINLESS STEEL (Scott Safety 40002729)	188.85	7.74
46 82 83 00-1225	EA	FLOW BLOCK, STAINLESS STEEL (Scott Safety 40006681)	968.59	39.70
46 82 83 00-1226	EA	MTG PLATE ASSM (Scott Safety 40007994)	335.05	13.73
46 82 83 00-1227	EA	MTG PLATE ASSM (Scott Safety 40007994-1)	344.18	14.12
46 82 83 00-1228	EA	TERMINAL STRIP, 4 POINT (Scott Safety 40008190)	67.01	2.74
46 82 83 00-1229	EA	GUARD, FILAMENT-DETECTOR (Scott Safety 40009041)	365.50	14.98
46 82 83 00-1230	EA	FLAME ARRESTOR (Scott Safety 40009042)	6.71	0.27
46 82 83 00-1231	EA	DETECTOR BODY ASSY (Scott Safety 40009065)	417.29	17.11
46 82 83 00-1232	EA	OUTER GUARD ASSY (Scott Safety 40009066)	332.00	13.61
46 82 83 00-1233	EA	L FLOW SWITCH (Scott Safety 40009259)	2,607.27	106.88
46 82 83 00-1234	EA	AIR ASPIRATOR (Scott Safety 40009261)	1,008.19	41.32
46 82 83 00-1235	EA	DETECTOR ASSY,POSITIVE FLOW (Scott Safety 40009263)	1,376.75	56.44
46 82 83 00-1236	EA	PACKING PREFORM (Scott Safety 40009264)	3.66	0.15
46 82 83 00-1237	EA	SET SCREW,HEX SCKT,S.S.,1/4-20 (Scott Safety 40009478)	33.50	1.38
46 82 83 00-1238	EA	FILTER ELEMENT (Scott Safety 40009560)	146.20	5.98
46 82 83 00-1239	EA	FILTER HOUSING ASSY (Scott Safety 40009566)	1,836.65	75.29
46 82 83 00-1240	EA	JUMPER, CLIP (Scott Safety 40009945)	6.71	0.27
46 82 83 00-1241	EA	SENSOR REPLACEMENT KIT (Scott Safety 40011528)	779.74	31.97
46 82 83 00-1242	EA	SENSOR, CONTINUOUS INSTRUMENT (Scott Safety 40011530)	743.19	30.47
46 82 83 00-1243	EA	DETECTOR ASSY (Scott Safety 40011600)	1,382.82	56.69
46 82 83 00-1244	EA	SENSOR REPLACEMENT KIT (Scott Safety 40011606)	773.64	31.72
46 82 83 00-1245	EA	DETECTOR ASSY (Scott Safety 40011630)	2,241.76	91.90
46 82 83 00-1246	EA	ASSEMBLY,DETECTOR-LESS SENSORS (Scott Safety 40011928)	849.80	34.83
46 82 83 00-1247	EA	SENSOR,REPLACEMENT-MATCHED SET (Scott Safety 40011929)	2,415.37	99.01
46 82 83 00-1248	EA	ASSEMBLY,ENCLOSURE/TERMINAL (Scott Safety 40012040)	667.05	27.34
46 82 83 00-1249	EA	ASSEMBLY,WEATHER SHIELD (Scott Safety 40012041)	277.17	11.37
46 82 83 00-1250	EA	SENSOR,REPLACEMENT (Scott Safety 40012111)	831.51	34.09
46 82 83 00-1251	EA	HOUSING,EXP.PRF.,MODIFIED (Scott Safety 40012473)	1,300.60	53.31
46 82 83 00-1252	EA	ASSY, DISTRIBUTION BOARD (Scott Safety 40012474)	368.55	15.11
46 82 83 00-1253	EA	FILAMENT-ACTIVE (Scott Safety 40012919)	456.87	18.73
46 82 83 00-1254	EA	ASSY,LOW FLOW SWITCH (Scott Safety 40013029)	1,562.53	64.05
46 82 83 00-1255	EA	FV282+ TRIPLE IR SS FM APPR. (Scott Safety 516.040.014)	7,611.62	312.03
46 82 83 00-1256	EA	FV311S FLAME DETECTOR (Scott Safety 516.300.006)	10,355.96	424.52
46 82 83 00-1257	EA	FV311SCN FLAME DETECTOR NTSC (Scott Safety 516.300.007)	11,878.88	486.96
46 82 83 00-1258	EA	FV311SC FLAME DETECTOR PAL (Scott Safety 516.300.008)	11,878.88	486.96
46 82 83 00-1259	EA	FV411F IR FLAME DETECTOR (Scott Safety 516.300.411)	7,133.42	292.43
46 82 83 00-1260	EA	FV411F IR FLAME DETECTOR PAL (Scott Safety 516.300.412)	7,766.97	318.39
46 82 83 00-1261	EA	FV411F IR FLAME DETECTOR NTSC (Scott Safety 516.300.413)	7,766.97	318.39
46 82 83 00-1262	EA	BRACKET ASSEMBLY (Scott Safety 517.001.184)	304.58	12.48
46 82 83 00-1263	EA	SOLO101 APT. TUBE (Scott Safety 517.001.224)	201.04	8.23
46 82 83 00-1264	EA	SOLO101 EXT. TUBE 1.3M LONG (Scott Safety 517.001.226)	268.03	10.99
46 82 83 00-1265	EA	SOLO100 TELESCOPIC EXT. POLE (Scott Safety 517.001.230)	1,005.14	41.20
46 82 83 00-1266	EA	WEATHER/SUN SHIELD (Scott Safety 517.001.263)	274.12	11.24
46 82 83 00-1267	EA	S200+ Spares Kit And Sealant (Scott Safety 517.001.266)	536.09	21.98
46 82 83 00-1268	EA	FLAME DETECTOR MTG. BRACKET (Scott Safety 517.300.001)	938.13	38.45
46 82 83 00-1269	EA	FLAME DETECTOR WEATHER HOOD (Scott Safety 517.300.002)	938.13	38.45
46 82 83 00-1270	EA	WT 300 Walk Test Controller (Scott Safety 517.300.021)	2,375.77	97.39
46 82 83 00-1271	EA	CTI300 CONFIG OFFLINE TOOL KIT (Scott Safety 517.300.022)	4,416.50	181.05
46 82 83 00-1272	EA	CTI400 CONFIG OFFLINE TOOL KIT (Scott Safety 517.300.024)	4,416.50	181.05
46 82 83 00-1273	EA	CTI400i IS TOOL KIT (Scott Safety 517.300.025)	3,045.88	124.86
46 82 83 00-1274	EA	CHARCOAL FILTERS 10/PK (Scott Safety 5500-7400)	185.80	7.61
46 82 83 00-1275	EA	T110 PP9 BATTERY AND CHARGER (Scott Safety 592.001.010)	368.55	15.11

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1276	EA	T210 ADAPTOR S200 (Scott Safety 592.001.014)	1,151.34	47.19
46 82 83 00-1277	EA	T210 PLUS TEST SOURCE FOR S200 (Scott Safety 592.001.016)	2,820.48	115.62
46 82 83 00-1278	EA	T210+ Adapter for FV400 Series Detector (Scott Safety 592.001.019)	1,151.34	47.19
46 82 83 00-1279	EA	WEATHERSHIELD SPECTREX FLAME (Scott Safety 780-981)	703.60	28.85
46 82 83 00-1280	EA	MODE SELECTOR (MAGNET) (Scott Safety 790285)	246.71	10.11
46 82 83 00-1281	EA	TELESCOPE ALIGNMENT KIT (Scott Safety 794110)	1,160.48	47.58
46 82 83 00-1282	EA	CALIBRATION TEST FILTER (IR) (Scott Safety 794260)	325.92	13.36
46 82 83 00-1283	EA	TILT MOUNTING ASSY(R/B 796640) (Scott Safety 794635)	1,102.61	45.20
46 82 83 00-1284	EA	DUCT MOUNT ADAPTOR (Scott Safety 794716)	1,583.86	64.93
46 82 83 00-1285	EA	CALIBRATION CELL (Scott Safety 796170)	4,538.34	186.04
46 82 83 00-1286	EA	COMMISSIONING KIT/DUCT MOUNTS (Scott Safety 796247)	1,355.41	55.56
46 82 83 00-1287	EA	TILT MOUNTING ASSEMBLY (Scott Safety 796640)	1,102.61	45.20
46 82 83 00-1288	EA	Tilt Mount (Scott Safety 8000447)	861.97	35.34
46 82 83 00-1289	EA	Pole Mount (U-Bolt 5 inch) (Scott Safety 8000448)	974.68	39.95
46 82 83 00-1290	EA	Commissioning Kit (Scott Safety 8000449)	3,383.96	138.71
46 82 83 00-1291	EA	RS485 Hand Held Diag Unit (Scott Safety 8000450)	30,732.82	1,259.86
46 82 83 00-1292	EA	HART Hand Held Diag Unit (Scott Safety 8000451)	46,144.91	1,891.65
46 82 83 00-1293	EA	HART Hand Held Harness (Scott Safety 8000452)	615.27	25.22
46 82 83 00-1294	EA	USB/RS485 Harness Kit (Scott Safety 8000453)	1,324.95	54.31
46 82 83 00-1295	EA	Mini Laptop Kit (Scott Safety 8000454)	6,122.20	250.97
46 82 83 00-1296	EA	SG Sunshade, Stainless (Scott Safety 8000455)	630.50	25.85
46 82 83 00-1297	EA	SG Telescope Kit (Scott Safety 8000456)	2,153.43	88.27
46 82 83 00-1298	EA	SG Chk Filter Warning Methane (Scott Safety 8000457)	356.38	14.61
46 82 83 00-1299	EA	SG Chk Filter Alarm Meth (Scott Safety 8000458)	356.38	14.61
46 82 83 00-1300	EA	SG Chk Filter Warn Prop (Scott Safety 8000459)	356.38	14.61
46 82 83 00-1301	EA	SG Chk Filter Alarm Prop (Scott Safety 8000460)	356.38	14.61
46 82 83 00-1302	EA	SG Detector ATEX M25 (Scott Safety 8000461)	14,065.82	576.61
46 82 83 00-1303	EA	SG Detector ATEX 3/4" (Scott Safety 8000462)	14,065.82	576.61
46 82 83 00-1304	EA	SG Detector FM M25 (Scott Safety 8000463)	14,065.82	576.61
46 82 83 00-1305	EA	SG Detector FM 3/4" (Scott Safety 8000464)	14,065.82	576.61
46 82 83 00-1306	EA	SG 20 Source ATEX M25 (Scott Safety 8000465)	11,519.49	472.22
46 82 83 00-1307	EA	SG 20 Source ATEX 3/4" (Scott Safety 8000466)	11,519.49	472.22
46 82 83 00-1308	EA	SG 20 Source FM M25 (Scott Safety 8000467)	11,519.49	472.22
46 82 83 00-1309	EA	SG 20 Source FM 3/4" (Scott Safety 8000468)	11,519.49	472.22
46 82 83 00-1310	EA	SG 40 Source ATEX M25 (Scott Safety 8000469)	11,519.49	472.22
46 82 83 00-1311	EA	SG 40 Source ATEX 3/4" (Scott Safety 8000470)	11,519.49	472.22
46 82 83 00-1312	EA	SG 40 Source FM M25 (Scott Safety 8000471)	11,519.49	472.22
46 82 83 00-1313	EA	SG 40 Source FM 3/4" (Scott Safety 8000472)	11,519.49	472.22
46 82 83 00-1314	EA	SG 100 Source ATEX M25 (Scott Safety 8000473)	11,519.49	472.22
46 82 83 00-1315	EA	SG 100 Source ATEX 3/4" (Scott Safety 8000474)	11,519.49	472.22
46 82 83 00-1316	EA	SG 100 Source FM M25 (Scott Safety 8000475)	11,519.49	472.22
46 82 83 00-1317	EA	SG 100 Source FM 3/4" (Scott Safety 8000476)	11,519.49	472.22
46 82 83 00-1318	EA	SG 200 Source ATEX M25 (Scott Safety 8000477)	14,233.33	583.48
46 82 83 00-1319	EA	SG 200 Source ATEX 3/4" (Scott Safety 8000478)	14,233.33	583.48
46 82 83 00-1320	EA	SG 200 Source FM M25 (Scott Safety 8000479)	14,233.33	583.48
46 82 83 00-1321	EA	SG 200 Source FM 3/4" (Scott Safety 8000480)	14,233.33	583.48
46 82 83 00-1322	EA	SG 20 System ATEX M25 (Scott Safety 8000481)	27,135.63	1,112.39
46 82 83 00-1323	EA	SG 20 System ATEX 3/4" (Scott Safety 8000482)	27,135.63	1,112.39
46 82 83 00-1324	EA	SG 20 System FM M25 (Scott Safety 8000483)	27,135.63	1,112.39
46 82 83 00-1325	EA	SG 20 System FM 3/4" (Scott Safety 8000484)	27,135.63	1,112.39
46 82 83 00-1326	EA	SG 40 System ATEX M25 (Scott Safety 8000485)	27,135.63	1,112.39
46 82 83 00-1327	EA	SG 40 System ATEX 3/4" (Scott Safety 8000486)	27,135.63	1,112.39
46 82 83 00-1328	EA	SG 40 System FM M25 (Scott Safety 8000487)	27,135.63	1,112.39
46 82 83 00-1329	EA	SG 40 System FM 3/4" (Scott Safety 8000488)	27,135.63	1,112.39
46 82 83 00-1330	EA	SG 100 System ATEX M25 (Scott Safety 8000489)	27,135.63	1,112.39
46 82 83 00-1331	EA	SG 100 System ATEX 3/4" (Scott Safety 8000490)	27,135.63	1,112.39
46 82 83 00-1332	EA	SG 100 System FM M25 (Scott Safety 8000491)	27,135.63	1,112.39
46 82 83 00-1333	EA	SG 100 System FM 3/4" (Scott Safety 8000492)	27,135.63	1,112.39
46 82 83 00-1334	EA	SG 200 System ATEX M25 (Scott Safety 8000493)	29,849.51	1,223.64
46 82 83 00-1335	EA	SG 200 System ATEX 3/4" (Scott Safety 8000494)	29,849.51	1,223.64
46 82 83 00-1336	EA	SG 200 System FM M25 (Scott Safety 8000495)	29,849.51	1,223.64
46 82 83 00-1337	EA	SG 200 System FM 3/4" (Scott Safety 8000496)	29,849.51	1,223.64
46 82 83 00-1338	EA	SG Magnetic Mode Selector (Scott Safety 8000497)	246.71	10.11
46 82 83 00-1339	EA	METHANE BEAD (Scott Safety 8000-7200)	587.85	24.10
46 82 83 00-1340	EA	NA SPYGLASS SALES DEMO KIT (Scott Safety 8000756)	35,578.80	1,458.50
46 82 83 00-1341	EA	SA SPYGLASS SALES DEMO KIT (Scott Safety 8000757)	35,578.80	1,458.50
46 82 83 00-1342	EA	EU SPYGLASS SALES DEMO KIT (Scott Safety 8000758)	35,578.80	1,458.50
46 82 83 00-1343	EA	DETECTOR ELEMENT (CH2)N (Scott Safety 8000-8020)	983.81	40.33
46 82 83 00-1344	EA	DETECTOR ELEMENT, H2 (Scott Safety 8000-8040)	983.81	40.33
46 82 83 00-1345	EA	DETECTOR ELEMENT, GEN. PURPOSE (Scott Safety 8000-8050)	1,081.28	44.33
46 82 83 00-1346	EA	NIC MAGNET TOOL (Scott Safety 9550-0068)	30.46	1.25
46 82 83 00-1347	EA	WEATHERPROOF STROBE, 115 Volt AC (Scott Safety 9550-0073)	1,297.54	53.19
46 82 83 00-1348	EA	MAGNET TOOL (130GDAXP) (Scott Safety 9550-0080)	45.68	1.88
46 82 83 00-1349	EA	ALARM (AHI) P.C.B.A. (Scott Safety 9550-2079)	1,824.48	74.80
46 82 83 00-1350	EA	LCD PANEL/CPU ASSY (0-100 ENG) (Scott Safety 9550-2083)	2,610.31	107.01
46 82 83 00-1351	EA	RS485 MODULE PORT P.C.B.A. (Scott Safety 9550-2084)	1,720.91	70.54
46 82 83 00-1352	EA	4-20MA ISOLATED OUTPUT P.C.B.A (Scott Safety 9550-2085)	1,720.91	70.54
46 82 83 00-1353	EA	24 Volt DC, INPUT/OUTPUT PCB Assembly (Scott Safety 9550-2086)	1,382.82	56.69
46 82 83 00-1354	EA	BASIC 24V LEL NIC XTR. (ONLY) (Scott Safety 9550-7194)	2,826.56	115.87
46 82 83 00-1355	EA	MANUAL, 4888-NIC II LEL (Scott Safety 9550-9142)	53.12	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1356		Scott 16 Channel Controller Model 7800, Dual Panel Mount Supports 32 Channels. *(46 82 83 00-0522)*		
		Note: MODEL 7800 A- B - C - DD - E - F - G - H		
46 82 83 00-1357	EA	Scott 16 Channel Controller Model 7800	12,428.86	569.51
		Note: Includes 0 analog inpus, 0 direct catalytic bead input, 0 analog output. For options use model code order: MODEL 7800 A- B - C - DD - E - F - G - H.		
		For Enclosure Option, A - 1; Fiberglass NEMA-4X Wall Mount Enclosure - Maximum 7 Option Boards, Add	*538.00*	
		For Enclosure Option A - 2; Panel Mount - Maximum 2 Option Boards, Add	*645.00*	
		For Enclosure Option A - 3; NEMA-7 Explosion Proof Wall Mount Enclosure (Cast Aluminum) - Maximum 11 Option Boards, Add	*4,730.00*	
		For Enclosure Option A - 4; 19" Rack Mount with Single Sixteen Channel Receiver And Cover Panel - Maximum 4 Option Boards, Add	*645.00*	
		For Enclosure Option A - 2; 19" Rack Mount with Dual Sixteen Channel Receivers - Supports 32 pts - Maximum 2 Option Boards, Add	*4,085.00*	
		For Enclosure Option A - 6; Stainless Steel Enclosure (NEMA4) - Maximum 11 Option Boards, Add	*1,398.00*	
		For Input - Analog (4-20mA) Option B - 2; 8 Points (1 board), Add	*430.00*	
		For Input - Analog (4-20mA) Option B - 3; 16 Points (2 boards), Add	*860.00*	
		For Input - Analog (4-20mA) Option B - 4; 24 Points (3 boards), Add	*1,290.00*	
		For Input - Analog (4-20mA) Option B - 5; 32 Points (4 boards), Add	*1,720.00*	
		For Input - Direect Catalytic Bead Option C - 2; 8 Points (1 board), Add	*1,054.00*	
		For Input - Direect Catalytic Bead Option C - 3; 16 Points (2 boards), Add	*2,107.00*	
		For Input - Direect Catalytic Bead Option C - 4; 24 Points (3 boards), Add	*3,161.00*	
		For Input - Direect Catalytic Bead Option C - 5; 32 Points (4 boards), Add	*4,214.00*	
		For Output - Relay Option DD - 08; 8 Relays (1 board), Add	*430.00*	
		For Output - Relay Option DD - 16; 16 Relays (2 boards), Add	*860.00*	
		For Output - Relay Option DD - 24; 24 Relays (3 boards), Add	*1,290.00*	
		For Output - Relay Option DD - 32; 32 Relays (4 boards), Add	*1,720.00*	
		For Output - Relay Option DD - 40; 40 Relays (5 boards), Add	*2,150.00*	
		For Output - Relay Option DD - 48; 48 Relays (6 boards), Add	*2,580.00*	
		For Output - Relay Option DD - 56; 56 Relays (7 boards), Add	*3,010.00*	
		For Output - Relay Option DD - 64; 64 Relays (8 boards), Add	*3,440.00*	
		For Output - Relay Option DD - 72; 72 Relays (9 boards), Add	*3,870.00*	
		For Output - Relay Option DD - 80; 80 Relays (10 boards), Add	*4,300.00*	
		For Output - Relay Option DD - 88; 88 Relays (11 boards), Add	*4,730.00*	
		For Output - Relay Option DD - 96; 96 Relays (12 boards), Add	*5,160.00*	
		For Output Analog Option E - 2; 8 Outputs (1 board), Add	*430.00*	
		For Output Analog Option E - 3; 16 Outputs (2 boards), Add	*860.00*	
		For Output Analog Option E - 4; 24 Outputs (3 boards), Add	*1,290.00*	
		For Output Analog Option E - 5; 32 Outputs (4 boards), Add	*1,720.00*	
		For Auxiliary Blind (Board) Enclosure Option F - 2; Fiberglass NEMA-4X Wall Mount Enclosure, Add	*538.00*	
		For Auxiliary Blind (Board) Enclosure Option F - 3; NEMA-7 Explosion Proof Wall Mount Enclosure, Add	*4,730.00*	
		For Local Annunciator Option G - 2; Piezo Electric Buzzer, Add	*215.00*	
		Note: Only available if option A1, A4, or A5 selected.		
		For Local Annunciator Option G - 3; 2 Light (amber/red) with Horn Stack, Add	*645.00*	
		For Special Option H - 2; Z-Purge, Add	*1,075.00*	
		For Special Option H - 3; Z-Purge with pressure switch. Groups C & D., Add	*1,720.00*	
		For Special Option H - 4; Z-Purge with pressure switch. Groups B, C & D., Add	*1,935.00*	
46 82 83 00-1358		Scott Safety Equipment *(46 82 83 00-0522)*		
46 82 83 00-1359	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP (Scott Safety 096-3533-01)	2,741.29	112.37
46 82 83 00-1360	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP (Scott Safety 096-3533-02)	3,668.89	150.40
46 82 83 00-1361	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, STAINLESS STEEL END CAP (Scott Safety 096-3533-03)	3,048.64	124.98
46 82 83 00-1362	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, STAINLESS STEEL END CAP (Scott Safety 096-3533-04)	3,738.11	153.24
46 82 83 00-1363	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, CSA (Scott Safety 096-3533-05)	2,741.29	112.37
46 82 83 00-1364	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, CSA (Scott Safety 096-3533-06)	3,655.06	149.84
46 82 83 00-1365	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, STAINLESS STEEL END CAP, CSA (Scott Safety 096-3533-07)	3,048.64	124.98
46 82 83 00-1366	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, STAINLESS STEEL END CAP, CSA (Scott Safety 096-3533-08)	3,738.11	153.24
46 82 83 00-1367	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, INMETRO (Scott Safety 096-3563-01)	2,738.52	112.26
46 82 83 00-1368	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, INMETRO (Scott Safety 096-3563-02)	3,641.20	149.27
46 82 83 00-1369	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP (Scott Safety 096-3480-01)	3,034.79	124.40
46 82 83 00-1370	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP (Scott Safety 096-3480-02)	3,635.66	149.03
46 82 83 00-1371	EA	ALUMINUM ENCLOSURE, HEATED DISPLAY, PLASTIC END CAP, CSA (Scott Safety 096-3480-03)	3,635.66	149.03
46 82 83 00-1372	EA	STAINLESS STEEL ENCLOSURE, HEATED DISPLAY, PLASTIC END CAP, CSA (Scott Safety 096-3480-04)	3,876.56	158.92
46 82 83 00-1373	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, STAINLESS STEEL END CAP (Scott Safety 096-3480-05)	3,447.38	141.32
46 82 83 00-1374	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, STAINLESS STEEL END CAP (Scott Safety 096-3480-06)	3,655.06	149.84
46 82 83 00-1375	EA	ALUMINUM ENCLOSURE, HEATED DISPLAY, STAINLESS STEEL END CAP, CSA (Scott Safety 096-3480-07)	3,516.60	144.15
46 82 83 00-1376	EA	STAINLESS STEEL ENCLOSURE, HEATED DISPLAY, STAINLESS STEEL END CAP, CSA (Scott Safety 096-3480-08)	4,070.39	166.86
46 82 83 00-1377	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, INMETRO (Scott Safety 096-3564-01)	2,990.49	122.60
46 82 83 00-1378	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, INMETRO (Scott Safety 096-3564-02)	3,571.98	146.42
46 82 83 00-1379	EA	ALUMINUM ENCLOSURE, BLIND DISPLAY, PLASTIC END CAP, INMETRO (Scott Safety 096-3564-03)	2,741.29	112.37
46 82 83 00-1380	EA	STAINLESS STEEL ENCLOSURE, BLIND DISPLAY, PLASTIC END CAP, INMETRO (Scott Safety 096-3564-04)	3,322.76	136.21
46 82 83 00-1381	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, REMOTE HEAD (Scott Safety 096-3558-01)	3,654.75	119.18
46 82 83 00-1382	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, REMOTE HEAD (Scott Safety 096-3558-02)	4,490.14	146.42

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1383	EA	ALUMINUM ENCLOSURE, HEATED DISPLAY, PLASTIC END CAP, REMOTE HEAD, CSA (Scott Safety 096-3558-03)	4,176.86	136.21
46 82 83 00-1384	EA	STAINLESS STEEL ENCLOSURE, HEATED DISPLAY, PLASTIC END CAP, REMOTE HEAD, CSA (Scott Safety 096-3558-04)	4,873.01	158.92
46 82 83 00-1385	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, STAINLESS STEEL END CAP, REMOTE HEAD (Scott Safety 096-3558-05)	3,863.60	126.00
46 82 83 00-1386	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, STAINLESS STEEL END CAP, REMOTE HEAD (Scott Safety 096-3558-06)	4,594.57	149.84
46 82 83 00-1387	EA	ALUMINUM ENCLOSURE, HEATED DISPLAY, STAINLESS STEEL END CAP, REMOTE HEAD, CSA (Scott Safety 096-3558-07)	4,420.52	144.15
46 82 83 00-1388	EA	STAINLESS STEEL ENCLOSURE, HEATED DISPLAY, STAINLESS STEEL END CAP, REMOTE HEAD, CSA (Scott Safety 096-3558-08)	5,116.66	166.86
46 82 83 00-1389	EA	ALUMINUM ENCLOSURE, HART COMMUNICATIONS, STANDARD DISPLAY, PLASTIC END CAP, remote head (Scott Safety 096-3558-09)	4,350.89	141.89
46 82 83 00-1390	EA	STAINLESS STEEL ENCLOSURE, HART COMMUNICATIONS, STANDARD DISPLAY, PLASTIC END cap, remote head (Scott Safety 096-3558-10)	5,047.04	164.59
46 82 83 00-1391	EA	ALUMINUM ENCLOSURE, HART COMMUNICATIONS, HEATED DISPLAY, PLASTIC END CAP, remote head, CSA (Scott Safety 096-3558-11)	4,873.01	158.92
46 82 83 00-1392	EA	STAINLESS STEEL ENCLOSURE, HART COMMUNICATIONS, HEATED DISPLAY, PLASTIC END CAP, remote head, CSA (Scott Safety 096-3558-12)	5,569.15	181.62
46 82 83 00-1393	EA	ALUMINUM ENCLOSURE, HART COMMUNICATIONS, STANDARD DISPLAY, STAINLESS STEEL END CAP, REMOTE HEAD (Scott Safety 096-3558-13)	4,455.32	145.29
46 82 83 00-1394	EA	STAINLESS STEEL ENCLOSURE, HART COMMUNICATIONS, STANDARD DISPLAY, STAINLESS STEEL End cap, Remote head (Scott Safety 096-3558-14)	5,290.70	172.53
46 82 83 00-1395	EA	ALUMINUM ENCLOSURE, HART COMMUNICATIONS, HEATED DISPLAY, STAINLESS STEEL END CAP, REMOTE HEAD, CSA (Scott Safety 096-3558-15)	4,977.41	162.32
46 82 83 00-1396	EA	STAINLESS STEEL ENCLOSURE, HART COMMUNICATIONS, HEATED DISPLAY, STAINLESS STEEL END CAP, REMOTE HEAD, CSA (Scott Safety 096-3558-16)	5,847.60	190.70
46 82 83 00-1397	EA	ALUMINUM ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, REMOTE HEAD, INMETRO (Scott Safety 096-3566-01)	3,654.75	119.18
46 82 83 00-1398	EA	STAINLESS STEEL ENCLOSURE, STANDARD DISPLAY, PLASTIC END CAP, REMOTE HEAD, INMETRO (Scott Safety 096-3566-02)	4,490.14	146.42
46 82 83 00-1399	EA	ALUMINUM ENCLOSURE, BLIND DISPLAY, PLASTIC END CAP, REMOTE HEAD, INMETRO (Scott Safety 096-3566-03)	3,306.68	107.83
46 82 83 00-1400	EA	STAINLESS STEEL ENCLOSURE, BLIND DISPLAY, PLASTIC END CAP, REMOTE HEAD, INMETRO (Scott Safety 096-3566-04)	4,002.82	130.54
46 82 83 00-1401	EA	MERIDIAN AMMONIA SENSOR- NH3 (Scott Safety 096-3473-03)	1,218.35	49.95
46 82 83 00-1402	EA	MERIDIAN BROMINE SENSOR- Br2 ROCK SOLID, HIGH RELATIVE HUMIDITY (Scott Safety 096-3473-24)	1,218.35	49.95
46 82 83 00-1403	EA	MERIDIAN CARBON DIOXIDE INFRARED SENSOR- CO2 IR (Sensor not supported by 2-Wire Unit) (Scott Safety 096-3473-58)	1,426.03	58.46
46 82 83 00-1404	EA	MERIDIAN CARBON MONOXIDE SENSOR- CO (Scott Safety 096-3473-01)	1,232.19	50.51
46 82 83 00-1405	EA	MERIDIAN CHLORINE DIOXIDE SENSOR -ClO2 ROCK SOLID, HIGH RELATIVE HUMIDITY (Scott Safety 096-3473-37)	1,453.71	59.60
46 82 83 00-1406	EA	MERIDIAN CHLORINE DIOXIDE SENSOR -ClO2 ROCK SOLID, LOW RELATIVE HUMIDITY (Scott Safety 096-3473-38)	1,453.71	59.60
46 82 83 00-1407	EA	MERIDIAN CHLORINE SENSOR- Cl2 ROCK SOLID, HIGH RELATIVE HUMIDITY (Scott Safety 096-3473-20)	1,218.35	49.95
46 82 83 00-1408	EA	MERIDIAN CHLORINE SENSOR- Cl2 ROCK SOLID, LOW RELATIVE HUMIDITY (Scott Safety 096-3473-21)	1,218.35	49.95
46 82 83 00-1409	EA	MERIDIAN FLUORINE SENSOR- F2 ROCK SOLID, HIGH RELATIVE HUMIDITY (Scott Safety 096-3473-22)	1,218.35	49.95
46 82 83 00-1410	EA	MERIDIAN FLUORINE SENSOR- F2 ROCK SOLID, LOW RELATIVE HUMIDITY (Scott Safety 096-3473-23)	1,218.35	49.95
46 82 83 00-1411	EA	MERIDIAN HYDROGEN CHLORIDE SENSOR- HCl ROCK SOLID, HIGH RELATIVE HUMIDITY (Scott Safety 096-3473-25)	1,218.35	49.95
46 82 83 00-1412	EA	MERIDIAN HYDROGEN CHLORIDE SENSOR- HCl ROCK SOLID, LOW RELATIVE HUMIDITY (Scott Safety 096-3473-26)	1,218.35	49.95
46 82 83 00-1413	EA	MERIDIAN HYDROGEN CYANIDE SENSOR - HCN (Scott Safety 096-3473-11)	1,038.36	42.57
46 82 83 00-1414	EA	MERIDIAN HYDROGEN SENSOR - H2 (Scott Safety 096-3473-12)	1,536.77	63.00
46 82 83 00-1415	EA	MERIDIAN HYDROGEN FLUORIDE SENSOR- HF ROCK SOLID, HIGH RELATIVE HUMIDITY (Scott Safety 096-3473-27)	1,218.35	49.95
46 82 83 00-1416	EA	MERIDIAN HYDROGEN FLUORIDE SENSOR- HF ROCK SOLID, LOW RELATIVE HUMIDITY (Scott Safety 096-3473-28)	1,218.35	49.95
46 82 83 00-1417	EA	MERIDIAN HYDROGEN SULFIDE SENSOR- H2S (LOW METHANOL) (Scott Safety 096-3473-02)	913.76	37.45
46 82 83 00-1418	EA	MERIDIAN NITROGEN DIOXIDE SENSOR - NO2 (Scott Safety 096-3473-54)	927.59	38.03
46 82 83 00-1419	EA	MERIDIAN NITRIC OXIDE SENSOR - NO (Scott Safety 096-3473-14)	1,246.04	51.08
46 82 83 00-1420	EA	MERIDIAN OXYGEN SENSOR - O2 (Scott Safety 096-3473-19)	650.71	26.67
46 82 83 00-1421	EA	MERIDIAN OZONE SENSOR - O3 ROCK SOLID, HIGH RELATIVE HUMIDITY (Scott Safety 096-3473-39)	1,176.81	48.24
46 82 83 00-1422	EA	MERIDIAN SILANE SENSOR - SiH4 (Scott Safety 096-3473-09)	1,661.38	68.10
46 82 83 00-1423	EA	MERIDIAN SULFUR DIOXIDE SENSOR- SO2 ROCK SOLID, HIGH RELATIVE HUMIDITY (Scott Safety 096-3473-31)	1,107.58	45.41
46 82 83 00-1424	EA	MERIDIAN SULFUR DIOXIDE SENSOR- SO2 ROCK SOLID, LOW RELATIVE HUMIDITY (Scott Safety 096-3473-32)	1,107.58	45.41
46 82 83 00-1425	EA	MERIDIAN SULFUR DIOXIDE SENSOR -SO2 HIGH RELATIVE HUMIDITY (Scott Safety 096-3473-05)	999.60	40.98
46 82 83 00-1426	EA	MERIDIAN COMBUSTIBLE CATALYTIC BEAD SENSOR (Scott Safety 096-3473-55)	816.86	33.49
46 82 83 00-1427	EA	MERIDIAN COMBUSTIBLE INFRARED SENSOR1 (Scott Safety 096-3473-56)	1,536.77	63.00
46 82 83 00-1428	EA	MERIDIAN INFRARED SENSOR BUTANE - C4H10 (Scott Safety 096-3554-04)	1,869.05	76.62
46 82 83 00-1429	EA	MERIDIAN INFRARED SENSOR HEXANE - C6H14 (Scott Safety 096-3554-08)	1,869.05	76.62
46 82 83 00-1430	EA	MERIDIAN INFRARED SENSOR ISOPROPANOL - C3H7OH (Scott Safety 096-3554-05)	1,869.05	76.62
46 82 83 00-1431	EA	MERIDIAN INFRARED SENSOR METHANOL - CH3OH (Scott Safety 096-3554-03)	1,869.05	76.62
46 82 83 00-1432	EA	MERIDIAN INFRARED SENSOR OCTAMETHYL TRISILOXANE - C8H24O2Si3 (Scott Safety 096-3554-02)	1,869.05	76.62
46 82 83 00-1433	EA	MERIDIAN INFRARED SENSOR PENTANE - C5H12 (Scott Safety 096-3554-07)	1,869.05	76.62
46 82 83 00-1434	EA	MERIDIAN INFRARED SENSOR PROPANE - C3H8 (Scott Safety 096-3554-01)	1,869.05	76.62
46 82 83 00-1435	EA	MERIDIAN INFRARED SENSOR TOLUENE - C7H8 (Scott Safety 096-3554-06)	1,869.05	76.62
46 82 83 00-1436	EA	CALIBRATION ADAPTER (Scott Safety 096-3438)	138.46	5.67
46 82 83 00-1437	EA	FLOW CELL (Scott Safety 096-3439)	152.29	6.25
46 82 83 00-1438	EA	DELUGE GUARD (Scott Safety 096-3441)	207.68	8.52

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1439	EA	WEATHER SHIELD (Scott Safety 073-0373)	207.68	8.52
46 82 83 00-1440	EA	UNIVERSAL MOUNTING ADAPTER PLATE (Scott Safety 073-0374)	207.68	8.52
46 82 83 00-1441	EA	STAINLESS STEEL END CAP (Scott Safety 096-3437-2)	276.90	11.35
46 82 83 00-1442	EA	SENSOR SIMULATOR (Scott Safety 096-3395)	318.42	13.05
46 82 83 00-1443	EA	FLAT/ROUND DUCT MOUNTING KIT (Scott Safety 096-3440)	285.20	11.69
46 82 83 00-1444	EA	A-FRAME SALES DISPLAY KIT (INCLUDES: A-FRAME, SPACER PLATE, THUMB SCREWS, DC JACK ASSY) (Scott Safety 096-3541-00)	692.24	28.38
46 82 83 00-1445	EA	PIPE MOUNT FOR JUNCTION BOX (Scott Safety 076-0376)	110.77	4.54
46 82 83 00-1446	EA	PIPE MOUNT FOR MERIDIAN (Scott Safety 076-0377)	138.46	5.67
46 82 83 00-1447	EA	RIGHT ANGLE FITTING, POLYMER FOR 1/8" TUBING (Scott Safety 077-1385)	27.69	1.13
46 82 83 00-1448	EA	RIGHT ANGLE FITTING, STAINLESS STEEL FOR 1/8" TUBING (Scott Safety 077-1386)	318.42	13.05
46 82 83 00-1449	EA	DUST FILTER (Scott Safety 096-3537)	166.14	6.81
46 82 83 00-1450	EA	NEMA 4X 4 Channel Base Unit (Scott Safety 093-0463)	6,368.63	261.08
46 82 83 00-1451	EA	4 Channel Direct Cat Bead Input and Discrete Relays(8) (Scott Safety 093-0455)	8,666.88	355.29
46 82 83 00-1452	EA	4 Channel Direct Cat Bead Input (Scott Safety 093-0456)	7,531.60	308.74
46 82 83 00-1453	EA	4 Channel 4-20ma Input and Discrete Relays(8) (Scott Safety 093-0457)	8,057.71	330.31
46 82 83 00-1454	EA	4 Channel 4-20ma Input (Scott Safety 093-0458)	7,448.54	305.34
46 82 83 00-1455	EA	7400 Plus - 4 Channel, NEMA 4X, Direct Catbead Input Board (Scott Safety 093-0618)	10,300.57	422.26
46 82 83 00-1456	EA	7400 Plus - 4 Channel, NEMA 4X, 4-20 mA Input Board (Scott Safety 093-0619)	9,552.94	391.61
46 82 83 00-1457		Multi-Channel Integrated Control Systems, Scott Model Series MCX-32 *(46 82 83 00-0522)*		
46 82 83 00-1458	EA	Model MCX-32-N1P, 64 Channel Integrated Control System In Ppanel Mount Hardware Assembly, 110/220 Volt AC, 24 Volt DC Power Supply. (Scott Safety 95P-MCX000-000) Note: Excludes I/O modules for analog input, digital input, relay output, analog output.	15,214.30	623.73
46 82 83 00-1459	EA	Model MCX-32-N1R, 64 Channel Integrated Control System In 19" Rack Mount Hardware Assembly With 110/220 Volt AC, 24 Volt DC, Power Supply. (Scott Safety 95R-MCX000-000) Note: Excludes I/O modules for analog input, digital input, relay output, analog output.	15,491.21	635.09
46 82 83 00-1460	EA	Model MCX-32-N4X, 64 Channel Integrated Control System In Fiberglass Wall Mount Weatherproof Enclosure With 110/220 Volt AC, 24 Volt DC Power Supply. (Scott Safety 954-MCX000-000) Note: Excludes I/O modules for analog input, digital input, relay output, analog output.	19,244.36	788.89
46 82 83 00-1461	EA	Model MCX-32-N4X, 64 Channel Integrated Control System In 316 Stainless Steel Wall Mount Weatherproof Enclosure With 110/220 Volt AC, 24 Volt DC Power Supply. (Scott Safety 954-MCX020-000) Note: Excludes I/O modules for analog input, digital input, relay output, analog output.	21,989.20	901.27
46 82 83 00-1462	EA	Detcon Model DA-4 four channel 4-20 maDC input module (Scott Safety 976-041400-000)	1,648.34	67.54
46 82 83 00-1463	EA	Detcon Model RL-4 four relay alarm module (Scott Safety 975-041400-000)	1,648.34	67.54
46 82 83 00-1464	EA	Detcon Model DI-4 four channel dry contact input module (Scott Safety 975-041402-000)	1,648.34	67.54
46 82 83 00-1465	EA	Detcon Model AO-4 four channel analog output module (Scott Safety 975-041401-000)	1,648.34	67.54
46 82 83 00-1466	EA	RS-485 Isolated Repeater, 9-30 Volt DC (Scott Safety 976-485485-000)	1,263.07	51.64
46 82 83 00-1467	EA	NEMA 4X Remote I/O Module Enclosure includes 120 watt power supply, for use with up to 8 I/O modules 32 sensors (Scott Safety 954-R21610-000)	3,820.39	156.65
46 82 83 00-1468	EA	NEMA 7X Remote I/O Module Enclosure includes 120 watt power supply, for use with up to 8 I/O modules 32 sensors (Scott Safety 957-R11670-000)	8,722.26	357.55
46 82 83 00-1469	EA	Eithernet connection to Lan line. N4X wall mounted enclosure. Connection to the RS-485 output from controller or remote display. (Scott Safety 976-00E485-000)	5,442.61	215.10
46 82 83 00-1470	EA	Eithernet connection to Lan line or Cell connection. N4X wall mounted enclosure. Connection to the RS-485 output from controller or remote display. (Scott Safety 976-00R485-000)	6,907.40	283.21
46 82 83 00-1471		NEMA 1 Panel Mount Mainframe Hardware Assemblies, Scott Model 12 *(46 82 83 00-0522)*		
46 82 83 00-1472	EA	Model 612 NEMA 1, 6 Channel Panel Mount Mainframe (Scott Safety 951-061240-000) Note: Requires external line power 24 Volt DC power supply	2,202.13	90.24
46 82 83 00-1473	EA	Model 1212 NEMA 1, 12 Channel Panel Mount Mainframe (Scott Safety 951-121240-000) Note: Requires external line power 24 Volt DC power supply	2,755.92	112.95
46 82 83 00-1474	EA	NEMA 1 Line Power 24 Volt DC Power Supply, 6.25 Amperes 150 Watt, Standard 19" Rack Mount (Scott Safety 975-124150-000)	3,391.99	139.05
46 82 83 00-1475	EA	NEMA 1 Line Power 24 Volt DC Power Supply,12.5 Amperes 300 Watt, Standard 19" Rack Mount (Scott Safety 975-124300-000)	3,861.52	158.34
46 82 83 00-1476	EA	Model 812-N4X NEMA 4X, 8 Channel Weatherproof Wall Mount Enclosure With Line Power 24 Volt DC Power Supply, 110/220 Volt AC (Scott Safety 954-081250-000)	6,243.24	255.97
46 82 83 00-1477	EA	Model 1212-N4X NEMA 4X, 12 channel Weatherproof Wall Mount Enclosure With Line Power 24 Volt DC Power Supply (Scott Safety 954-121250-000)	9,014.20	369.47
46 82 83 00-1478	EA	Z-Purge Kit with pressure switch (for Mod 10/12 N4X) (Scott Safety 975-3675R0-000)	3,861.52	158.34
46 82 83 00-1479	EA	Detcon Model Series 12 Blank Plate (Scott Safety 912-000008-005)	105.94	4.32
46 82 83 00-1480	EA	Auxiliary Alarm Relay Board (Scott Safety 500-502600-000)	787.58	32.35
46 82 83 00-1481	EA	Gold plated jumper tab (Scott Safety 224-000000-000)	11.91	0.40
46 82 83 00-1482	EA	Power supply (812-N4X) (Scott Safety 360-SWS150-024)	927.99	38.03
46 82 83 00-1483	EA	Power supply (1212-N4X) (Scott Safety 360-SWS300-024)	927.99	38.03
46 82 83 00-1484	EA	Model 140-N4X, Single Channel Gas Detection Control System In Wall Mount Weatherproof Enclosure 110/220 Volt AC, 24 Volt DC Power Supply (Scott Safety 954-010110-000)	3,861.52	158.34
46 82 83 00-1485	EA	Model 240-N4X, Dual Channel Gas Detection Control System In Wall Mount Weatherproof Enclosure With 110/220 Volt AC, 24 Volt DC Power Supply (Scott Safety 954-020210-000)	4,969.11	203.75
46 82 83 00-1486	EA	Model X40-08-N4X, Integrated Alarm And Control System In Wall Mount Weatherproof Enclosure With 110/220 Volt AC, 24 Volt DC Power Supply For 8 Sensors. (Scott Safety 954-X08000-000) Note: Excludes optional I/O modules	5,526.88	226.45
46 82 83 00-1487	EA	Model X40-32-N1P, integrated alarm and control system in panel mount enclosure Exclude optional I/O modules. Power supply for 32 sensors (Scott Safety 95P-X32000-000)	5,799.81	237.80
46 82 83 00-1488	EA	Model X40-32 Integrated Alarm And Control Module. (Scott Safety 95M-X32000-000) Note: Excludes enclosure or optional I/O modules. Requires 24Volt DC .	4,156.29	169.70
46 82 83 00-1489	EA	Model X40-32-N1P, Integrated Alarm And Control System In 19" Rack Mount Enclosure With 110/220 Volt AC, 24 Volt DC Power Supply For 32 Sensors (Scott Safety 95R-X32000-000) Note: Excludes optional I/O modules	6,911.37	283.21

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1490	EA	Model X40-32-N4X, Integrated Alarm And Control System In Wall Mount Weatherproof Enclosure With 110/220 Volt AC, 24 Volt DC Power Supply For 32 Sensors. (Scott Safety 954-X32000-000) Note: Excludee optional I/O modules	6,911.37	283.21
46 82 83 00-1491	EA	Model X40-00-N7, Integrated Alarm And Control System In Wall Mount Explosion Proof Enclosure (Class I; Div 1: Group C, D). (Scott Safety 957-X32000-000-0_0) Note: Requires external 10-30 Volt DC power supply.	6,157.27	237.80
46 82 83 00-1492	EA	Model X40-RD-N4, 64 Channel Remote Display panel in N4X enclosure; 120 Volt AC and wall mounting. (Scott Safety 954-XRD640-110)	4,969.11	203.75
46 82 83 00-1493	EA	Model X40-RD-N7, 32 Channel Remote Display Panel In Cast Aluminum Enclosure (Class 1; Div 1; Grps C, D.) (Scott Safety 957-XRD640-110-0_0) Note: Requires 24Volt DC input	5,799.81	237.80
46 82 83 00-1494	EA	Smart battery pack with extended lid aluminum enclosure with mounting plate for wall or 2" pipe and accessories (Scott Safety 5)	2,907.42	119.18
46 82 83 00-1495	EA	Smart battery pack with extended lid aluminum enclosure and alarm reset switch with mounting plate for wall or 2" pipe and accessories (Scott Safety 6)	2,797.06	114.64
46 82 83 00-1496	EA	115/220 Volt AC line power (Scott Safety 7)	2,089.78	85.70
46 82 83 00-1497	EA	Sentinel Controller With 4 Wired Inputs, Reset Switch, Alarm Output 12 Volt DC, AC power (Scott Safety 954-CXTO-4-300)	11,698.92	479.58
46 82 83 00-1498	EA	Detcon Model DA-4 four channel 4-20 maDC input module (Scott Safety 976-041400-000)	1,319.23	53.91
46 82 83 00-1499	EA	Detcon Model RL-4 four relay alarm module (Scott Safety 975-041400-000)	1,319.23	53.91
46 82 83 00-1500	EA	Detcon Model AO-4 four channel analog output module (Scott Safety 975-041401-000)	1,319.23	53.91
46 82 83 00-1501	EA	RS-485 Isolated Repeater, 9-30 Volt DC (Scott Safety 976-485485-000)	1,208.87	49.37
46 82 83 00-1502	EA	NEMA 4X Remote I/O Module Enclosure includes 120 watt power supply, for use with up to 8 I/O modules 32 sensors (Scott Safety 954-R21610-000)	3,820.39	156.65
46 82 83 00-1503	EA	NEMA 7X Remote I/O Module Enclosure includes 75 watt power supply, for use with up to 8 I/O modules 32 sensors (Scott Safety 957-R11662-000)	9,912.12	406.37
46 82 83 00-1504	EA	Ethernet connection to Lan line. N4X wall mounted enclosure. Connection to the RS-485 output from controller or remote display. (Scott Safety 976-00E485-000)	5,247.99	215.10
46 82 83 00-1505	EA	Ethernet connection to Lan line or Cell connection. N4X wall mounted enclosure. Connection to the RS-485 output from controller or remote display. (Scott Safety 976-00R485-000)	6,630.49	271.86
46 82 83 00-1506		**Start Up and Training** *(46 82 83 00-0522)*		
46 82 83 00-1507	EA	Scott Safety Start Up And Training	2,307.62	56.40
46 82 83 00-1508		**Flow Equipment (Sierra Instruments)** *(46 82 83 00-0099)*		
46 82 83 00-1509		**InnovaSonic® 203 Economical Ultrasonic Transit-Time Liquid Flow Meter** *(46 82 83 00-1508)*		
46 82 83 00-1510	EA	InnovaSonic® Economical Ultrasonic Transit-Time Liquid Flow Meter (Sierra 203) Note: Flow range 1.6 to 40 ft/s; accuracy +/- 1.0% of reading from 1.6 to 40 ft/s; repeatability +/- 0.3% of reading; pipe size range 1" to 48". 10 to 24 Volt AC or 10 to 36 Volt DC at 1A; transmitter NEMA 4X, IP 65, ABS/PC enclosure; output 4 to 20 mA current loop (maximum load 750 Ohm); OCT 0 to 9999 Hz. Push button data entry (4x4 keypad with 12 dual function keys) and integral display; relay, RS-485 (RS-232 optional), Modbus RTU; operating temperature 32 to 140 Degree F. Clamp on transducers included. Includes 30' cable. No cost options include: OCT, Relay, RS-485, 4 To 20 mA Current Loop (Maximum Load 750 Ohm), Modbus RTU - Code 2; OCT, Relay, RS-232, 4 To 20 mA Current Loop (Maximum Load 750 Ohm) - Code 3; Clamp on transducers. Operating Temperature 32 to 140 Degree F, Standard 30' - Code CP.	5,238.78	119.65
46 82 83 00-1511	EA	5-Point Calibration Certification Traceable To NIST (Sierra NIST)	985.01	
46 82 83 00-1512	EA	100 Gram Coupling Compound (Sierra 205-2011)	87.38	
46 82 83 00-1513	EA	50' InnovaSonic Cable Length Adder Option (Sierra 203 50)	439.05	23.93
46 82 83 00-1514	EA	100' InnovaSonic Cable Length Adder Option (Sierra 203 100)	1,027.06	47.86
46 82 83 00-1515	EA	150' InnovaSonic Cable Length Adder Option (Sierra 203 150)	1,734.21	71.79
46 82 83 00-1516	EA	200' InnovaSonic Cable Length Adder Option (Sierra 203 200)	2,272.55	95.71
46 82 83 00-1517	EA	300' InnovaSonic Cable Length Adder Option (Sierra 203 300)	3,559.77	143.58
46 82 83 00-1518	EA	InnovaSonic Hard Copy Instruction Manual (Sierra 203-IM)	87.38	
46 82 83 00-1519		**InnovaSonic® 205i General Purpose Ultrasonic Transit-Time Liquid Flow Meter** *(46 82 83 00-1508)*		
46 82 83 00-1520	EA	InnovaSonic® General Purpose Ultrasonic Transit-Time Liquid Flow Meter (Sierra 205i) Note: Flow range 0.16 to 40 ft/s; accuracy +/- 0.5% of reading from 0.16 to 40 ft/s; repeatability +/- 0.1% of full scale; output 4 to 20 mA (max load 750 Ohm), OCT, relay (SPST), frequency; power supply 90 to 250 Volt AC, 48 to 63 Hz and 10 to 36 Volt DC; pipe size 2" to 236"; display 20 x 2, alphanumeric, backlit LCD; keypad 22 tactile keys with 12 dual-function and 6 quick setup keys. 1 GB SD card high-memory data logging, maximum memory 512 days of data. Transducer hazard area classification Ex d II BT4. Modbus RTU, RS-232 and RS-485 standard. Installation kit includes 2" x 44" pipe straps suitable for up to 12" diameter pipe. Installation method: wall mount. Includes 30' cable. No cost options include: NEMA 4X (IP 65). Die-Cast Aluminum Machined Enclosure - Code 1.	7,627.13	119.65
46 82 83 00-1521	EA	-40 To 176 Degree F, IP 67, Clamp On Transducer (Sierra 205i S)	2,252.84	44.86
46 82 83 00-1522	EA	1-1/2" Diameter, -40 To 176 Degree F, Insertion Transducer (Sierra 205i W) Note: Suitable for pipes 2" to 236". IP 67. Includes 1-1/2" ball valves; carbon steel installation seat for ball valve (brass), mounting kit (includes 4 screws and four plastic bushings) and seal kits.	2,815.25	44.86
46 82 83 00-1523	EA	5-Point Calibration Certification Traceable To NIST (Sierra 205i NIST)	1,022.08	
46 82 83 00-1524	EA	100 Gram Coupling Compound (Sierra 205-2011)	45.43	
46 82 83 00-1525	EA	43" Pipe Straps (Sierra 205-2010)	86.70	14.96
46 82 83 00-1526	EA	50' InnovaSonic Cable Length Adder Option (Sierra 205i 50)	353.36	23.93
46 82 83 00-1527	EA	100' InnovaSonic Cable Length Adder Option (Sierra 205i 100)	862.48	47.86
46 82 83 00-1528	EA	150' InnovaSonic Cable Length Adder Option (Sierra 205i 150)	1,371.58	71.79
46 82 83 00-1529	EA	200' InnovaSonic Cable Length Adder Option (Sierra 205i 200)	1,880.68	95.71
46 82 83 00-1530	EA	300' InnovaSonic Cable Length Adder Option (Sierra 205i 300)	2,898.90	143.58

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1531		**InnovaSonic® 207i General Purpose Ultrasonic Transit-Time Liquid Flow Meter** *(46 82 83 00-1508)*		
46 82 83 00-1532	EA	InnovaSonic® Liquid And Thermal Energy/BTU Flow Meter (Sierra 207i)	8,412.25	119.65
46 82 83 00-1533	EA	InnovaSonic AC Powered Option, 100-240 Volt AC, 50-60 hertz, 0.5 Amperes (Sierra 207i P3)	677.17	119.65
46 82 83 00-1534	PR	14°F to 176°F, IP 68, Clamp On Transducer(Sierra 207i S)	2,472.82	45.47
46 82 83 00-1535	PR	14°F to 302°F, IP 68, High-Temperature Clamp On Transducer (Sierra 207i H)	2,889.86	45.47
46 82 83 00-1536	PR	-40°F to 176°F, IP 68, 1-1/2" Diameter Insertion Transducer (Sierra 207i W)	3,465.77	45.47
46 82 83 00-1537	EA	Up To three PT 100 Input Modules Option (Sierra 207i PT 100)	258.17	
46 82 83 00-1538	EA	Option To Accept Analog Current Inputs From Any 4-20 mA Transmitter (Sierra 207i AI)	258.17	
46 82 83 00-1539	EA	Modbus RS-485 Output (Sierra 207i Modbus)	258.17	
46 82 83 00-1540	EA	BACnet Protocol (Sierra 207i BACnet)	496.48	
46 82 83 00-1541	EA	1-1/2" NPT Strain Relief For Wiring/Cable (Sierra 207i STRAIN)	94.60	25.12
46 82 83 00-1542	EA	Clamp On PT 100 RTD, 4-Wire, NEMA 4X Enclosure (Sierra 207i RTDC ( )-X)	606.07	53.84
46 82 83 00-1543	EA	Insertion PT 100 RTD, 4-Wire, NEMA 4X Enclosure (Sierra 207i RTDI ( )-X)	707.35	53.84
46 82 83 00-1544	EA	Coupling Compound (Sierra 207i 205-2011)	87.38	
46 82 83 00-1545	EA	43" Pipe Straps (Sierra 207i 205-2010)	127.23	15.55
46 82 83 00-1546	EA	Hard Copy Instruction Manual (Sierra 207i IM)	87.38	
46 82 83 00-1547	EA	Matched RTD System (Sierra 207i MATCHED RTD)	1,191.54	
46 82 83 00-1548	Day	Commissioning (Sierra 207i Commissioning)	3,090.15	
46 82 83 00-1549	EA	50' InnovaSonic Cable Length Adder Option (Sierra 207i 50)	441.04	23.93
46 82 83 00-1550	EA	100' InnovaSonic Cable Length Adder Option (Sierra 207i 100)	1,009.19	47.86
46 82 83 00-1551	EA	150' InnovaSonic Cable Length Adder Option (Sierra 207i 150)	1,513.77	71.79
46 82 83 00-1552	EA	200' InnovaSonic Cable Length Adder Option (Sierra 207i 200)	2,127.58	95.71
46 82 83 00-1553	EA	300' InnovaSonic Cable Length Adder Option (Sierra 207i 300)	3,059.32	143.58
46 82 83 00-1554		**InnovaSonic® 210i Portable Ultrasonic Transit-Time Liquid Flow Meter** *(46 82 83 00-1508)*		
46 82 83 00-1555	EA	Hard Copy Instruction Manual (Sierra 2010i IM)	87.38	
46 82 83 00-1556	EA	InnovaSonic® Portable Ultrasonic Transit-Time Liquid Flow Meter (Sierra 210i) Note: Portable ultrasonic transit-time liquid flow meter; flow range 0.03 to 40 ft/s; accuracy +/- 0.5% of reading from 0.03 to 40 ft/s; repeatability +/- 0.1% of full scale; pipe size 0.6" to 236"; 4 to 20 mA DC output; push-button data entry with 24 tactile keys; 12 dual-function and 7 quick setup keys; integral color display; 11.1 Volt DC rechargeable battery (10 hours duration); wall-mounted charger included (includes international plug set); 2 GB SD memory card; carrying bag, pelican case. Includes 16' cable. No cost options include: Push-Button Data Entry With 24 Tactile Keys, 12 Dual Function And 7 Quick Setup Keys, Comes With Display - Code 1; Clamp-On Portable Transducers With Two Magnetic Mounting Racks, Operating Temperature -40 to 176 Degree F, 16' Standard Cable Length, Longer Lead Time Required For Longer Cable Lengths - Code 16.	12,709.76	
46 82 83 00-1557	EA	5-Point Calibration Certification Traceable To NIST (Sierra 210i NIST)	985.01	
46 82 83 00-1558	EA	100 Gram Coupling Compound (Sierra 205-2011)	87.38	
46 82 83 00-1559	EA	30' InnovaSonic Cable Length Adder Option (Sierra 210i 30)	228.51	14.96
46 82 83 00-1560	EA	50' InnovaSonic Cable Length Adder Option (Sierra 210i 50)	359.61	23.93
46 82 83 00-1561	EA	100' InnovaSonic Cable Length Adder Option (Sierra 210i 100)	878.12	47.86
46 82 83 00-1562	EA	150' InnovaSonic Cable Length Adder Option (Sierra 210i 150)	1,396.61	71.79
46 82 83 00-1563	EA	200' InnovaSonic Cable Length Adder Option (Sierra 210i 200)	1,915.09	95.71
46 82 83 00-1564	EA	300' InnovaSonic Cable Length Adder Option (Sierra 210i 300)	2,952.08	143.58
46 82 83 00-1565		**InnovaMass® 240 Series** *(46 82 83 00-1508)*		
46 82 83 00-1566	EA	Liquid, Gas And Steam InnovaMass® In-line Multiparameter Mass Vortex Flow Meter (Sierra 240V) Note: No cost options include: Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Cryogenic Process Temperature -330 to -40 Degree F - Code CT; Standard Process Temperature -40 To 500 Degree F - Code ST; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1,000 PSIG - Code MP4; Maximum 1,500 PSIG, Proof 2,500 PSIG - Code MP5.	3,372.04	119.65
46 82 83 00-1567	EA	Velocity And Temperature Sensors InnovaMass® In-line Multiparameter Mass Vortex Flow Meter (Sierra 240VT) Note: Mass measurement with temperature compensation. No cost options include: Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Cryogenic Process Temperature -330 to -40 Degree F - Code CT; Standard Process Temperature -40 To 500 Degree F - Code ST; No Pressure Sensor - Code MP0; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1,000 PSIG - Code MP4; Maximum 1,500 PSIG, Proof 2,500 PSIG - Code MP5.	5,355.95	119.65
46 82 83 00-1568	EA	Velocity, Temperature And Pressure Sensors InnovaMass® In-line Multiparameter Mass Vortex Flow Meter (Sierra 240VTP) Note: Mass measurement with pressure and temperature compensation. No cost options include: Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Cryogenic Process Temperature -330 to -40 Degree F - Code CT; Standard Process Temperature -40 To 500 Degree F - Code ST; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1,000 PSIG - Code MP4; Maximum 1,500 PSIG, Proof 2,500 PSIG - Code MP5.	6,763.95	119.65

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1569	EA	Velocity, Temperature And Pressure Sensors InnovaMass® In-line Multiparameter Mass Vortex Flow Meter (Sierra 240VTEP) Note: Mass measurement with pressure temperature compensation. Pressure sensor is not included. (select MP0), but unit has a 4-20 mA input for an external pressure sensor. No cost options include: Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Cryogenic Process Temperature -330 to -40 Degree F - Code CT; Standard Process Temperature -40 To 500 Degree F - Code ST; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1,000 PSIG - Code MP4; Maximum 1,500 PSIG, Proof 2,500 PSIG - Code MP5	9,514.86	119.65
46 82 83 00-1570	EA	VT Meter Plus Energy Meter Package InnovaMass® In-line Multiparameter Mass Vortex Flow Meter (Sierra 240VT EMS) Note: Calculates energy in BTU or kjoules. Based on flow and temperature measurement (Class A RTD) from meter and secondary RTD to provide delta temperature. Excludes remote RTD. No cost options include: Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Cryogenic Process Temperature -330 to -40 Degree F - Code CT; Standard Process Temperature -40 To 500 Degree F - Code ST.	7,965.52	119.65
46 82 83 00-1571	EA	VTP Meter Plus Energy Meter Package InnovaMass® In-line Multiparameter Mass Vortex Flow Meter (Sierra 240VTP EMS) Note: Calculates energy in BTU or kjoules. Based on flow and temperature measurement (Class A RTD) from meter and secondary RTD to provide delta temperature. Excludes remote RTD. No cost options include: Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Cryogenic Process Temperature -330 to -40 Degree F - Code CT; Standard Process Temperature -40 To 500 Degree F - Code ST; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1,000 PSIG - Code MP4; Maximum 1,500 PSIG, Proof 2,500 PSIG - Code MP5.	9,707.83	119.65
46 82 83 00-1572	EA	1/2" ANSI Class 150 Flange, 316L Stainless Steel Flow Body (Sierra F2)	2,036.88	57.43
46 82 83 00-1573	EA	3/4" ANSI Class 150 Flange, 316L Stainless Steel Flow Body (Sierra 240 F3)	2,048.85	67.00
46 82 83 00-1574	EA	1" ANSI Class 150 Flange, 316L Stainless Steel Flow Body (Sierra 240 F4)	2,076.09	100.76
46 82 83 00-1575	EA	1-1/2" ANSI Class 150 Flange, 316L Stainless Steel Flow Body (Sierra 240 F5)	2,179.08	125.63
46 82 83 00-1576	EA	2" ANSI Class 150 Flange, 316L Stainless Steel Flow Body (Sierra 240 F6)	2,366.03	159.53
46 82 83 00-1577	EA	3" ANSI Class 150 Flange, 316L Stainless Steel Flow Body (Sierra 240 F7)	3,430.02	203.65
46 82 83 00-1578	EA	4" ANSI Class 150 Flange, 316L Stainless Steel Flow Body (Sierra 240 F8)	4,963.10	341.84
46 82 83 00-1579	EA	6" ANSI Class 150 Flange, 316L Stainless Steel Flow Body (Sierra 240 F9)	7,796.81	432.27
46 82 83 00-1580	EA	8" ANSI Class 150 Flange, 316L Stainless Steel Flow Body (Sierra 240 F10)	13,393.45	546.95
46 82 83 00-1581	EA	1/2" ANSI Class 300 Flange, 316L Stainless Steel Flow Body (Sierra 240 G2)	2,972.64	57.43
46 82 83 00-1582	EA	3/4" ANSI Class 300 Flange, 316L Stainless Steel Flow Body (Sierra 240 G3)	2,984.61	67.00
46 82 83 00-1583	EA	1" ANSI Class 300 Flange, 316L Stainless Steel Flow Body (Sierra 240 G4)	3,013.44	100.76
46 82 83 00-1584	EA	1-1/2" ANSI Class 300 Flange, 316L Stainless Steel Flow Body (Sierra 240 G5)	3,332.88	125.63
46 82 83 00-1585	EA	2" ANSI Class 300 Flange, 316L Stainless Steel Flow Body (Sierra 240 G6)	3,664.81	159.53
46 82 83 00-1586	EA	3" ANSI Class 300 Flange, 316L Stainless Steel Flow Body (Sierra 240 G7)	5,594.66	203.65
46 82 83 00-1587	EA	4" ANSI Class 300 Flange, 316L Stainless Steel Flow Body (Sierra 240 G8)	6,474.37	341.84
46 82 83 00-1588	EA	6" ANSI Class 300 Flange, 316L Stainless Steel Flow Body (Sierra 240 G9)	12,944.26	432.27
46 82 83 00-1589	EA	8" ANSI Class 300 Flange, 316L Stainless Steel Flow Body (Sierra 240 G10)	17,206.38	546.95
46 82 83 00-1590	EA	1/2" ANSI Class 600 Flange, 316L Stainless Steel Flow Body (Sierra 240 H2)	3,557.50	57.43
46 82 83 00-1591	EA	3/4" ANSI Class 600 Flange, 316L Stainless Steel Flow Body (Sierra 240 H3)	3,569.47	67.00
46 82 83 00-1592	EA	1" ANSI Class 600 Flange, 316L Stainless Steel Flow Body (Sierra 240 H4)	3,591.34	100.76
46 82 83 00-1593	EA	1-1/2" ANSI Class 600 Flange, 316L Stainless Steel Flow Body (Sierra 240 H5)	4,198.74	125.63
46 82 83 00-1594	EA	2" ANSI Class 600 Flange, 316L Stainless Steel Flow Body (Sierra 240 H6)	4,528.67	159.53
46 82 83 00-1595	EA	3" ANSI Class 600 Flange, 316L Stainless Steel Flow Body (Sierra 240 H7)	6,603.49	203.65
46 82 83 00-1596	EA	4" ANSI Class 600 Flange, 316L Stainless Steel Flow Body (Sierra 240 H8)	13,645.45	341.84
46 82 83 00-1597	EA	6" ANSI Class 600 Flange, 316L Stainless Steel Flow Body (Sierra 240 H9)	19,604.97	432.27
46 82 83 00-1598	EA	8" ANSI Class 600 Flange, 316L Stainless Steel Flow Body (Sierra 240 H10)	28,009.67	546.95
46 82 83 00-1599	EA	1/2" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240 W2)	1,814.63	57.43
46 82 83 00-1600	EA	3/4" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240 W3)	1,826.60	67.00
46 82 83 00-1601	EA	1" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240 W4)	1,354.13	100.76
46 82 83 00-1602	EA	1-1/2" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240 W5)	1,678.03	125.63
46 82 83 00-1603	EA	2" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240 W6)	2,012.44	159.53
46 82 83 00-1604	EA	3" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240 W7)	2,482.57	203.65
46 82 83 00-1605	EA	4" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240 W8)	3,620.56	341.84
46 82 83 00-1606	EA	1" ANSI Class 150 Flange, Carbon Steel Flow Body (Sierra 240 FC4)	1,868.78	100.76
46 82 83 00-1607	EA	1-1/2" ANSI Class 150 Flange, Carbon Steel Flow Body (Sierra 240 FC5)	1,900.27	125.63
46 82 83 00-1608	EA	2" ANSI Class 150 Flange, Carbon Steel Flow Body (Sierra 240 FC6)	2,094.33	159.53
46 82 83 00-1609	EA	3" ANSI Class 150 Flange, Carbon Steel Flow Body (Sierra 240 FC7)	3,003.36	203.65
46 82 83 00-1610	EA	4" ANSI Class 150 Flange, Carbon Steel Flow Body (Sierra 240 FC8)	3,932.64	341.84
46 82 83 00-1611	EA	6" ANSI Class 150 Flange, Carbon Steel Flow Body (Sierra 240 FC9)	7,797.75	432.27
46 82 83 00-1612	EA	8" ANSI Class 150 Flange, Carbon Steel Flow Body (Sierra 240 FC10)	12,295.57	546.95
46 82 83 00-1613	EA	1" ANSI Class 300 Flange, Carbon Steel Flow Body (Sierra 240 GC4)	1,871.69	100.76
46 82 83 00-1614	EA	1-1/2" ANSI Class 300 Flange, Carbon Steel Flow Body (Sierra 240 GC5)	1,903.18	125.63
46 82 83 00-1615	EA	2" ANSI Class 300 Flange, Carbon Steel Flow Body (Sierra 240 GC6)	2,092.02	159.53
46 82 83 00-1616	EA	3" ANSI Class 300 Flange, Carbon Steel Flow Body (Sierra 240 GC7)	3,020.05	203.65
46 82 83 00-1617	EA	4" ANSI Class 300 Flange, Carbon Steel Flow Body (Sierra 240 GC8)	3,932.64	341.84
46 82 83 00-1618	EA	6" ANSI Class 300 Flange, Carbon Steel Flow Body (Sierra 240 GC9)	9,974.99	432.27
46 82 83 00-1619	EA	8" ANSI Class 300 Flange, Carbon Steel Flow Body (Sierra 240 GC10)	12,295.57	546.95
46 82 83 00-1620	EA	1" ANSI Class 600 Flange, Carbon Steel Flow Body (Sierra 240 HC4)	2,582.30	100.76
46 82 83 00-1621	EA	1-1/2" ANSI Class 600 Flange, Carbon Steel Flow Body (Sierra 240 HC5)	2,906.22	125.63
46 82 83 00-1622	EA	2" ANSI Class 600 Flange, Carbon Steel Flow Body (Sierra 240 HC6)	3,240.63	159.53
46 82 83 00-1623	EA	3" ANSI Class 600 Flange, Carbon Steel Flow Body (Sierra 240 HC7)	4,453.80	203.65

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1624	EA	4" ANSI Class 600 Flange, Carbon Steel Flow Body (Sierra 240 HC8)	6,523.53	341.84
46 82 83 00-1625	EA	6" ANSI Class 600 Flange, Carbon Steel Flow Body (Sierra 240 HC9)	11,426.48	432.27
46 82 83 00-1626	EA	8" ANSI Class 600 Flange, Carbon Steel Flow Body (Sierra 240 HC10)	14,763.09	546.95
46 82 83 00-1627	EA	Remote Electronics Explosion Proof Enclosure (Sierra 240 E4) Note: Specify cable length in parentheses, maximum 50'. Includes FMC, ATEX, IECEx and Cable glands. Class 1, Division 1.	1,990.37	59.82
46 82 83 00-1628	EA	Digital Display With Pushbuttons Option (Sierra 240 DD)	417.04	
46 82 83 00-1629	EA	No Readout Display Option (Sierra 240 NR) Note: Display highly recommended for setup/diagnostics.	443.44	
46 82 83 00-1630	EA	12-36 Volt C Input Power (Sierra 240 PV1)	1,029.33	
46 82 83 00-1631	EA	100-240 Volt AC, 50/60 Hertz Line Power, 25 Watt Input Power (Sierra 240 PS)	766.56	
46 82 83 00-1632	EA	One Analog Output (4-20 mA), One Alarm, One Pulse, And MODBUS (Sierra 240 V4M)	704.99	
46 82 83 00-1633	EA	One Analog Output (4-20 mA), One Alarm, One Pulse, And BACNet (Sierra 240 V4B)	618.03	
46 82 83 00-1634	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, HART (Sierra 240 V6H)	704.99	
46 82 83 00-1635	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, MODBUS (Sierra 240 V6M)	704.99	
46 82 83 00-1636	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, BACNet (Sierra 240 V6B)	982.54	
46 82 83 00-1637	EA	High Process Temperature, -40 To 750 Degree F (Sierra 240 HT)	2,093.76	
46 82 83 00-1638	EA	Material Certificates Option (Sierra 240 MC) Note: US Mill certifications on all wetted parts.	230.36	
46 82 83 00-1639	EA	Pressure Test Certificate Option (Sierra 240 PT)	115.18	
46 82 83 00-1640	EA	Certificate Of Conformance Option (Sierra 240 CC)	115.18	
46 82 83 00-1641	EA	NACE Certificate Option (Sierra 240 NC)	230.36	
46 82 83 00-1642	EA	Meter Cleaned For O2 Service (Includes Certification) Option (Sierra 240 O2C) Note: Required O2C (oxygen cleaning) if meter to be used for oxygen service.	1,286.86	
46 82 83 00-1643	EA	25' Armored Cable With Glands (ATEX, IECEX) V Meter Only Adder Option (Sierra 240 ARM25V)	663.71	14.96
46 82 83 00-1644	EA	50' Armored Cable With Glands (ATEX, IECEX) V Meter Only Adder Option (Sierra 240 ARM50V)	1,026.08	23.93
46 82 83 00-1645	EA	25' Armored Cable With Glands (ATEX, IECEX) V Meter Only Adder Option (Sierra 240 ARM25VTP)	1,338.36	47.86
46 82 83 00-1646	EA	50' Armored Cable With Glands (ATEX, IECEX) V Meter Only Adder Option (Sierra 240 ARM50VTP)	2,353.63	71.79
46 82 83 00-1647	EA	3/4" NPT To M20 Conversion Kit, Local Electronics (E2) Option (Sierra 240 M20L)	340.55	95.71
46 82 83 00-1648	EA	3/4" NPT To M20 Conversion Kit, Remote Electronics (E4) Option (Sierra 240 M20R)	683.88	143.58
46 82 83 00-1649	EA	Additional Instruction Manual (Sierra 240-IM)	87.38	

46 82 83 00-1650 InnovaMass® 240i Series *(46 82 83 00-1508)*

46 82 83 00-1651	EA	DN25/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240i FD4)	2,541.75	29.92
46 82 83 00-1652	EA	DN40/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240i FD5)	3,139.98	51.45
46 82 83 00-1653	EA	DN50/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240i FD6)	3,537.19	57.43
46 82 83 00-1654	EA	DN80/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240i FD7)	4,615.58	67.00
46 82 83 00-1655	EA	DN100/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240i FD8)	5,660.64	100.76
46 82 83 00-1656	EA	DN150/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240i FD9)	10,970.66	125.63
46 82 83 00-1657	EA	DN200/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240i FD10)	16,559.25	159.53
46 82 83 00-1658	EA	DN25/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240i GD4)	3,842.51	29.92
46 82 83 00-1659	EA	DN40/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240i GD5)	4,440.75	51.45
46 82 83 00-1660	EA	DN50/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240i GD6)	5,183.50	57.43
46 82 83 00-1661	EA	DN80/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240i GD7)	6,794.12	67.00
46 82 83 00-1662	EA	DN100/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240i GD8)	8,125.15	100.76
46 82 83 00-1663	EA	DN150/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240i GD9)	14,640.60	125.63
46 82 83 00-1664	EA	DN200/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240i GD10)	24,272.49	159.53
46 82 83 00-1665	EA	DN25/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240i HD4)	5,127.39	29.92
46 82 83 00-1666	EA	DN40/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240i HD5)	5,868.61	51.45
46 82 83 00-1667	EA	DN50/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240i HD6)	6,047.36	57.43
46 82 83 00-1668	EA	DN80/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240i HD7)	8,698.59	67.00
46 82 83 00-1669	EA	DN100/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240i HD8)	11,965.88	100.76
46 82 83 00-1670	EA	DN150/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240i HD9)	16,141.94	125.63
46 82 83 00-1671	EA	DN200/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240i HD10)	29,713.86	159.53
46 82 83 00-1672	EA	Three Analog Outputs (4-20 mA), One Alarm, One Pulse, Profibus DP With External M12 Connection (Sierra 240i V6DP1)	704.99	
46 82 83 00-1673	EA	Three Analog Outputs (4-20 mA), One Alarm, One Pulse, Profibus DP With Terminal Block Connection (Sierra 240i V6DP2)	704.99	
46 82 83 00-1674	EA	Three Analog Outputs (4-20 mA), One Alarm, One Pulse, Foundation Fieldbus With Terminal Block Connections (Sierra 240i V6FF)	704.99	
46 82 83 00-1675	Day	Commissioning (Sierra 240i Commissioning)	2,978.85	
46 82 83 00-1676	EA	Hard Copy Instruction Manual (Sierra 240i IM)	45.32	

46 82 83 00-1677 InnovaMass® 240S Series *(46 82 83 00-1508)*

46 82 83 00-1678	EA	Liquid, Gas And Steam InnovaMass Volumetric Flow Meter (Sierra 240S V)	3,894.23	119.65
46 82 83 00-1679	EA	Velocity And Temperature Sensors (Sierra 240S VT)	6,597.08	119.65
46 82 83 00-1680	EA	Velocity, Temperature And Pressure Sensors (Sierra 240S VTP)	8,278.12	119.65
46 82 83 00-1681	EA	Velocity, Temperature And 4-20 mA Input For External Pressure Sensor (Sierra 240S VTEP)	8,278.12	119.65
46 82 83 00-1682	EA	VT Meter Plus Energy Meter Package (Sierra 240S VT EMS)	7,346.95	119.65
46 82 83 00-1683	EA	VTP Meter Plus Energy Meter Package (Sierra 240S VTP EMS)	9,089.80	119.65
46 82 83 00-1684	EA	1/2" Class 150 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S F2)	2,037.13	57.43
46 82 83 00-1685	EA	3/4" Class 150 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S F3)	2,049.10	67.00
46 82 83 00-1686	EA	1" Class 150 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S F4)	2,091.28	100.76
46 82 83 00-1687	EA	1-1/2" Class 150 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S F5)	2,192.81	125.63
46 82 83 00-1688	EA	2" Class 150 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S F6)	2,387.24	159.53
46 82 83 00-1689	EA	3" Class 150 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S F7)	3,447.73	203.65
46 82 83 00-1690	EA	4" Class 150 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S F8)	4,998.66	341.84
46 82 83 00-1691	EA	6" Class 150 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S F9)	7,507.59	432.27
46 82 83 00-1692	EA	8" Class 150 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S F10)	12,885.66	546.95

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1693	EA	1/2" Class 300 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S G2)	2,972.41	57.43
46 82 83 00-1694	EA	3/4" Class 300 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S G3)	2,984.38	67.00
46 82 83 00-1695	EA	1" Class 300 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S G4)	3,026.56	100.76
46 82 83 00-1696	EA	1-1/2" Class 300 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S G5)	3,350.59	125.63
46 82 83 00-1697	EA	2" Class 300 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S G6)	3,685.10	159.53
46 82 83 00-1698	EA	3" Class 300 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S G7)	5,610.83	203.65
46 82 83 00-1699	EA	4" Class 300 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S G8)	6,523.14	341.84
46 82 83 00-1700	EA	6" Class 300 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S G9)	12,447.71	432.27
46 82 83 00-1701	EA	8" Class 300 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S G10)	16,544.40	546.95
46 82 83 00-1702	EA	1/2" Class 600 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S H2)	3,557.48	57.43
46 82 83 00-1703	EA	3/4" Class 600 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S H3)	3,569.45	67.00
46 82 83 00-1704	EA	1" Class 600 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S H4)	3,611.63	100.76
46 82 83 00-1705	EA	1-1/2" Class 600 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S H5)	4,215.83	125.63
46 82 83 00-1706	EA	2" Class 600 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S H6)	4,550.34	159.53
46 82 83 00-1707	EA	3" Class 600 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S H7)	6,618.22	203.65
46 82 83 00-1708	EA	4" Class 600 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S H8)	13,937.44	341.84
46 82 83 00-1709	EA	6" Class 600 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S H9)	18,720.71	432.27
46 82 83 00-1710	EA	8" Class 600 Flanged, ANSI 316L Stainless Steel Flow Body (Sierra 240S H10)	26,072.36	546.95
46 82 83 00-1711	EA	DN15/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240S FD2)	2,196.60	17.95
46 82 83 00-1712	EA	DN20/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240S FD3)	2,495.13	23.93
46 82 83 00-1713	EA	DN25PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240S FD4)	2,548.49	29.92
46 82 83 00-1714	EA	DN40/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240S FD5)	3,166.26	51.45
46 82 83 00-1715	EA	DN50/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240S FD6)	3,557.48	57.43
46 82 83 00-1716	EA	DN80/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240S FD7)	4,634.52	67.00
46 82 83 00-1717	EA	DN100/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240S FD8)	5,704.69	100.76
46 82 83 00-1718	EA	DN150/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240S FD9)	10,536.21	125.63
46 82 83 00-1719	EA	DN200/PN16 Flanged, 316L Stainless Steel Flow Body (Sierra 240S FD10)	15,903.55	159.53
46 82 83 00-1720	EA	DN15/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240S GD2)	3,356.44	17.95
46 82 83 00-1721	EA	DN20/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240S GD3)	3,652.91	23.93
46 82 83 00-1722	EA	DN25/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240S GD4)	3,858.72	29.92
46 82 83 00-1723	EA	DN40/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240S GD5)	4,464.12	51.45
46 82 83 00-1724	EA	DN50/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240S GD6)	5,207.62	57.43
46 82 83 00-1725	EA	DN80/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240S GD7)	6,809.99	67.00
46 82 83 00-1726	EA	DN100/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240S GD8)	8,189.17	100.76
46 82 83 00-1727	EA	DN150/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240S GD9)	14,063.11	125.63
46 82 83 00-1728	EA	DN200/PN40 Flanged, 316L Stainless Steel Flow Body (Sierra 240S GD10)	23,307.55	159.53
46 82 83 00-1729	EA	DN15/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240S HD2)	4,209.32	17.95
46 82 83 00-1730	EA	DN20/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240S HD3)	4,705.62	23.93
46 82 83 00-1731	EA	DN25/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240S HD4)	5,053.57	29.92
46 82 83 00-1732	EA	DN40/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240S HD5)	5,891.77	51.45
46 82 83 00-1733	EA	DN50/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240S HD6)	6,060.50	57.43
46 82 83 00-1734	EA	DN80/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240S HD7)	8,727.94	67.00
46 82 83 00-1735	EA	DN100/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240S HD8)	12,060.10	100.76
46 82 83 00-1736	EA	DN150/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240S HD9)	15,501.05	125.63
46 82 83 00-1737	EA	DN200/PN64 Flanged, 316L Stainless Steel Flow Body (Sierra 240S HD10)	28,338.32	159.53
46 82 83 00-1738	EA	1/2" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240S W2)	1,814.63	57.43
46 82 83 00-1739	EA	3/4" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240S W3)	1,826.60	67.00
46 82 83 00-1740	EA	1" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240S W4)	1,353.76	100.76
46 82 83 00-1741	EA	1-1/2" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240S W5)	1,677.78	125.63
46 82 83 00-1742	EA	2" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240S W6)	2,012.30	159.53
46 82 83 00-1743	EA	3" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240S W7)	2,483.60	203.65
46 82 83 00-1744	EA	4" Wafer Connection, 316L Stainless Steel Flow Body (Sierra 240S W8)	3,620.46	341.84
46 82 83 00-1745	EA	1" Class 150 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S FC4)	1,868.78	100.76
46 82 83 00-1746	EA	1-1/2" Class 150 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S FC5)	1,900.27	125.63
46 82 83 00-1747	EA	2" Class 150 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S FC6)	2,094.70	159.53
46 82 83 00-1748	EA	3" Class 150 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S FC7)	3,002.74	203.65
46 82 83 00-1749	EA	4" Class 150 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S FC8)	3,933.59	341.84
46 82 83 00-1750	EA	6" Class 150 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S FC9)	7,798.06	432.27
46 82 83 00-1751	EA	8" Class 150 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S FC10)	12,296.47	546.95
46 82 83 00-1752	EA	1" Class 300 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S GC4)	1,870.84	100.76
46 82 83 00-1753	EA	1-1/2" Class 300 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S GC5)	1,902.33	125.63
46 82 83 00-1754	EA	2" Class 300 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S GC6)	2,092.64	159.53
46 82 83 00-1755	EA	3" Class 300 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S GC7)	3,019.22	203.65
46 82 83 00-1756	EA	4" Class 300 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S GC8)	3,933.59	341.84
46 82 83 00-1757	EA	6" Class 300 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S GC9)	9,975.59	432.27
46 82 83 00-1758	EA	8" Class 300 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S GC10)	12,296.47	546.95
46 82 83 00-1759	EA	1" Class 600 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S HC4)	2,581.58	100.76
46 82 83 00-1760	EA	1-1/2" Class 600 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S HC5)	2,905.60	125.63
46 82 83 00-1761	EA	2" Class 600 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S HC6)	3,240.12	159.53
46 82 83 00-1762	EA	3" Class 600 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S HC7)	4,453.05	203.65
46 82 83 00-1763	EA	4" Class 600 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S HC8)	6,523.14	341.84
46 82 83 00-1764	EA	6" Class 600 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S HC9)	11,425.90	432.27
46 82 83 00-1765	EA	8" Class 600 Flanged, ANSI Carbon Steel Flow Body (Sierra 240S HC10)	14,762.41	546.95
46 82 83 00-1766	EA	Remote Electronics Explosion Proof Enclosure (Sierra 240S E4)	2,105.59	59.82
46 82 83 00-1767	EA	Digital Display With Push Buttons Option (Sierra 240S DD)	444.98	
46 82 83 00-1768	EA	No Readout Display Option (Sierra 240S NR)	442.92	
46 82 83 00-1769	EA	12-36 Volt DC Input Power (Sierra 240S PV1)	1,030.05	
46 82 83 00-1770	EA	25 Watt, 100-240 Volt AC, 50/60 Hertz Line Power (Sierra 240S PS)	1,252.54	
46 82 83 00-1771	EA	One Analog Output (4-20 mA), One Alarms, One Pulse, And MODBUS (Sierra 240S V4M)	278.11	
46 82 83 00-1772	EA	One Analog Output (4-20 mA), One alarms, One Pulse, And BACNet (Sierra 240S V4B)	618.03	
46 82 83 00-1773	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, HART (Sierra 240S V6H)	982.67	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1774	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, MODBUS (Sierra 240S V6M)	982.67	
46 82 83 00-1775	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, BACNet (Sierra 240S V6B)	982.67	
46 82 83 00-1776	EA	High Process Temperature -40°F To 750°F (Sierra 240S HT)	2,093.06	
46 82 83 00-1777	EA	Material Certificates (Sierra 240S MC)	241.03	
46 82 83 00-1778	EA	Pressure Test Certificate (Sierra 240S PT)	119.49	
46 82 83 00-1779	EA	Certificate Of Conformance (Sierra 240S CC)	119.49	
46 82 83 00-1780	EA	NACE Certification (Sierra 240S NC)	241.03	
46 82 83 00-1781	EA	Oxygen Cleaning Service (Sierra 240S 02C)	1,337.00	
46 82 83 00-1782	EA	25' Armored Cable With Glands, Meter Only (Sierra 240S ARM25V)	664.43	14.96
46 82 83 00-1783	EA	50' Armored Cable With Glands, Meter Only (Sierra 240S ARM50V)	1,026.60	23.93
46 82 83 00-1784	EA	25' Armored Cable With Glands, Meter Only (Sierra 240S ARM25VTP)	1,338.36	47.86
46 82 83 00-1785	EA	50' Armored Cable With Glands, Meter only (Sierra 240S ARM50VTP)	2,354.66	71.79
46 82 83 00-1786	EA	3/4" NPT To M20 Conversion Kit (Sierra 240S M20L)	340.55	95.71
46 82 83 00-1787	EA	3/4" NPT To M20 Conversion Kit (Sierra 240S M20R)	683.88	143.58
46 82 83 00-1788	Day	Commissioning (Sierra 240S Commissioning)	3,090.15	
46 82 83 00-1789	EA	Hard Copy Instruction Manual (Sierra 240S IM)	45.32	
46 82 83 00-1790		InnovaMass® 241 Series *(46 82 83 00-1508)*		
46 82 83 00-1791	EA	2" Male NPT With Welded On Retractor, ANSI Packing Gland (Sierra 241 PMR) Note: Must be used for process pressures 600 PSIG or greater but can be used for lower process pressures.	4,060.53	159.53
46 82 83 00-1792	EA	2" Male NPT With Retractor, Class 600 PSIG Pressure Rating (For LE), ANSI Packing Gland (Sierra 241 PMR-LE)	6,647.44	159.53
46 82 83 00-1793	EA	2" Class 150 Flange, 50 PSIG Maximum Process Pressure Without Removable Retractor, ANSI Packing Gland (Sierra 241i PF) Note: Packing gland itself rated to 600 PSIG process pressure. Packing gland live insertion/removal up to 600 PSIG must use a retractor (removable or welded on).	2,262.76	159.53
46 82 83 00-1794	EA	2" Class 150 Flange With Retractor, ANSI Packing Gland (Sierra 241 PFR)	4,503.91	159.53
46 82 83 00-1795	EA	2" Class 150 Flange With Retractor, ANSI Packing Gland (Sierra 241 PFR-LE) Note: For use with extended probe length (use LE option).	7,081.17	159.53
46 82 83 00-1796	EA	2" Class 300 Flange, 50 PSIG Maximum Process Pressure Without Removable Retractor, ANSI Packing Gland (Sierra 241i PG) Note: Packing gland itself rated to 600 PSIG process pressure. Packing gland live insertion/removal up to 600 PSIG must use a retractor (removable or welded on).	2,507.03	159.53
46 82 83 00-1797	EA	2" Class 300 Flange With Retractor, ANSI Packing Gland (Sierra 241 PGR)	4,715.56	159.53
46 82 83 00-1798	EA	2" Class 300 Flange With Retractor, ANSI Packing Gland (Sierra 241 PGR-LE) Note: For use with extended probe length (use LE option).	7,322.33	159.53
46 82 83 00-1799	EA	2" Class 600 Flange With Retractor, ANSI Packing Gland (Sierra 241 PHR)	5,018.56	159.53
46 82 83 00-1800	EA	2" Class 600 Flange With Retractor, ANSI Packing Gland (Sierra 241 PHR-LE) Note: For use with extended probe length (use LE option).	7,616.41	159.53
46 82 83 00-1801	EA	Meter Cleaned For O2 Service (Includes Certification) Option (Sierra 241 O2C) Note: Required O2C (oxygen cleaning) if meter to be used for oxygen service.	1,336.80	
46 82 83 00-1802	EA	25' Armored Cable With Glands (ATEX, IECEX) V Meter Only Adder Option (Sierra 241 ARM25V)	663.71	14.96
46 82 83 00-1803	EA	50' Armored Cable With Glands (ATEX, IECEX) V Meter Only Adder Option (Sierra 241 ARM50V)	1,026.08	23.93
46 82 83 00-1804	EA	25' Armored Cable With Glands (ATEX, IECEX) V Meter Only Adder Option (Sierra 241 ARM25VTP)	1,284.52	14.96
46 82 83 00-1805	EA	50' Armored Cable With Glands (ATEX, IECEX) V Meter Only Adder Option (Sierra 241 ARM50VTP)	2,269.87	23.93
46 82 83 00-1806	EA	3/4" NPT To M20 Conversion Kit, Local Electronics (E2) Option (Sierra 241 M20L)	192.35	12.92
46 82 83 00-1807	EA	3/4" NPT To M20 Conversion Kit, Remote Electronics (E4) Option (Sierra 241 M20R)	451.92	12.92
46 82 83 00-1808	EA	Additional Instruction Manual (Sierra 241-IM)	49.01	
46 82 83 00-1809	EA	Removable Retractor Transportable (Sierra 241i-RR) Note: Only available with packing gland connections PM, PF, and PG.	3,050.34	
46 82 83 00-1810	EA	Removable Retractor Transportable For Extended Length Probes (Sierra 241-LERR) Note: Only available with packing gland connections PM, PF, and PG. For use with LE only.	6,332.38	
46 82 83 00-1811	EA	2" Female NPT, Full Port Bronze Gate Valve (Sierra 241-RK1) Note: Mounting kit includes two 2" x 3" nipples, one 2" female NPT mounting adapter and one pipe coupler. Class 125 maximum pressure: 200 PSIG at 100 Degree F; maximum temperature: 400 Degree F at 125 PSIG.	1,021.25	59.82
46 82 83 00-1812	EA	2" Class 150 Flange, Full Port Carbon Steel Gate Valve (Sierra 241-RK2) Note: Use mounting accessories for pipe adapters. Class 150 maximum pressure: 285 PSIG at 100 Degree F. Maximum temperature: 800 Degree F at 80 PSIG.	2,516.96	159.53
46 82 83 00-1813	EA	2" Class 150 Flange, Full Port Stainless Steel Gate Valve (Sierra 241-RK20) Note: Use mounting accessories for pipe adapters. Class 150 maximum pressure: 285 PSIG at 100 Degree F. Maximum temperature: 800 Degree F at 80 PSIG.	3,021.37	159.53
46 82 83 00-1814	EA	2" Class 300 Flange, Full Port Carbon Steel Gate Valve (Sierra 241-RK3) Note: Use mounting accessories for pipe adapters. Class 300 maximum pressure: 740 PSIG at 100 Degree F. Maximum temperature: 800 Degree F at 410 PSIG.	3,067.05	159.53
46 82 83 00-1815	EA	2" Class 300 Flange, Full Port Stainless Steel Gate Valve (Sierra 241-RK30) Note: Use mounting accessories for pipe adapters. Class 300 maximum pressure: 740 PSIG at 100 Degree F. Maximum temperature: 800 Degree F at 410 PSIG.	5,174.09	159.53
46 82 83 00-1816	EA	2" Class 600 Flange, Full Port Carbon Steel Gate Valve (Sierra 241-RK4) Note: Use mounting accessories for pipe adapters. Maximum Pressure: 1480 PSIG at 100 Degree F. Maximum temperature: 800 Degree F at 825 PSIG.	5,892.99	159.53
46 82 83 00-1817	EA	2" Class 600 Flange, Full Port Stainless Steel Gate Valve (Sierra 241-RK40) Note: Use mounting accessories for pipe adapters. Class 600 Maximum Pressure: 1480 PSIG at 100 Degree F. Maximum temperature: 800 Degree F at 825 PSIG.	10,974.90	159.53
46 82 83 00-1818	EA	2" Female NPT, Full Port 316 Stainless Steel Gate Valve (Sierra 241-RK10) Note: Mounting kit includes: two 2" x 3" nipples, one 2" female NPT mounting adapter and one pipe coupler. Class 200 Maximum Pressure: 275 PSIG at 100 Degree F. Maximum temperature: 350 Degree F at 200 PSIG.	2,816.50	59.82
46 82 83 00-1819	EA	2" Female NPT, Full Port Carbon Steel Valve (Sierra 241-RK11) Note: Mounting kit includes: two 2" x 3" nipples, one 2" female NPT mounting adaptor and one pipe coupler. Class 800 Maximum Pressure: 1975 PSIG at 100 Degree F. Maximum temperature 800 Degree F at 1100 PSIG.	3,446.36	159.53
46 82 83 00-1820	EA	2" Female NPT, Full Port 316 Stainless Steel Gate Valve (Sierra 241-RK110) Note: Mounting kit includes: two 2" x 3" nipples, one 2" female NPT mounting adapter and one pipe coupler. Class 800 Maximum Pressure: 1975 PSIG at 100 Degree F. Maximum temperature: 800 Degree F at 1100 PSIG.	10,395.02	159.53

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1821	EA	2" Female NPT Carbon Steel Mounting Adapter (Sierra 241-MA) Note: Specify pipe O.D. in parenthesis. For use with CM or PM process connections.	332.47	159.53
46 82 83 00-1822	EA	2" Female NPT Stainless Steel Mounting Adapter (Sierra 241-MAS) Note: Specify pipe O.D. in parenthesis. For use with CM or PM process connections.	407.93	159.53
46 82 83 00-1823	EA	2" Class 150 Flange Carbon Steel Mounting Adapter (Sierra 241-FMA) Note: For use with 241-RK2 gate valve, CF or PF process connections. Weldneck flange welded to 2" pipe adapter.	540.98	159.53
46 82 83 00-1824	EA	2" Class 150 Flange Stainless Steel Mounting Adapter (Sierra 241-FMAS) Note: For use with 241-RK2 gate valve, CF or PF process connections. Weldneck flange welded to 2" pipe adapter.	632.34	159.53
46 82 83 00-1825	EA	2" Class 300 Flange Carbon Steel Mounting Adapter (Sierra 241-GMA) Note: For use with 241-RK3 gate valve, CG or PG process connections. Weldneck flange welded to 2" pipe adapter.	606.52	159.53
46 82 83 00-1826	EA	2" Class 300 Flange Stainless Steel Mounting Adapter (Sierra 241-GMAS) Note: For use with 241-RK3 gate valve, CG or PG process connections. Weldneck flange welded to 2" pipe adapter.	789.22	159.53
46 82 83 00-1827	EA	2" Class 600 Flange Carbon Steel Mounting Adapter (Sierra 241-HMA) Note: For use with 241-RK4 gate valve, PHR process connections. Weldneck flange welded to 2" pipe adapter.	644.25	159.53
46 82 83 00-1828	EA	2" Class 600 Flange Stainless Steel Mounting Adapter (Sierra 241-HMAS) Note: For use with 241-RK4 gate valve, PHR process connections. Weldneck flange welded to 2" pipe adapter.	868.66	159.53
46 82 83 00-1829		**InnovaMass® 241i Series** *(46 82 83 00-1508)*		
46 82 83 00-1830	EA	Three Analog Outputs (4-20 mA), One Alarm, One Pulse, Profibus DP With External M12 Connection (Sierra 241i V6DP1)	731.34	
46 82 83 00-1831	EA	Three Analog Outputs (4-20 mA), One Alarm, One Pulse, Profibus DP With Terminal Block Connection (Sierra 241i V6DP2)	901.60	
46 82 83 00-1832	EA	Three Analog Outputs (4-20 mA), One Alarm, One Pulse, Foundation Fieldbus With Terminal Block Connections (Sierra 241i V6FF)	901.60	
46 82 83 00-1833	EA	2" Class 600 lb Flange, Packing Gland (Sierra 241i PH)	2,804.91	159.13
46 82 83 00-1834	EA	DN50/PN16 Flange, Compression Fitting (Sierra 241i CFD)	1,997.10	
46 82 83 00-1835	EA	DN50/PN40 Flange, Compression Fitting (Sierra 241i CGD)	2,416.12	
46 82 83 00-1836	EA	DN50/PN64 Flange, Compression Fitting (Sierra 241i CHD)	2,777.56	
46 82 83 00-1837	EA	DN50/PN16 Flange, Packing Gland (Sierra 241i PFD)	2,177.37	159.13
46 82 83 00-1838	EA	DN50/PN40 Flange, Packing Gland (Sierra 241i PGD)	2,749.81	159.13
46 82 83 00-1839	EA	DN50/PN64 Flange, Packing Gland (Sierra 241i PHD)	3,758.14	159.13
46 82 83 00-1840	EA	Liquid, Gas And Steam InnovaMass® Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241i V) Note: No cost options include: Standard probe - Code LS; Compact Probe Available Only For Connections CM, CF, CG And CH - Code LC; Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1 - Code E2; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Cryogenic Process Temperature, -330 to -40 Degree F - Code CT; Standard Process Temperature -40 to 500 Degree F - Code ST; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1000 PSIG - Code MP4; Maximum 1500 PSIG, Proof 2500 PSIG - Code MP5.	4,498.04	119.65
46 82 83 00-1841	EA	Velocity And Temperature Sensors InnovaMass® Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241i VT) Note: Mass measurement with temperature compensation. No cost options include: Standard probe - Code LS; Compact Probe Available Only For Connections CM, CF, CG And CH - Code LC; Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1 - Code E2; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Cryogenic Process Temperature, -330 to -40 Degree F - Code CT; Standard Process Temperature -40 to 500 Degree F - Code ST; No Pressure Sensor- Code MP0; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1000 PSIG - Code MP4; Maximum 1500 PSIG, Proof 2500 PSIG - Code MP5.	8,197.77	119.65
46 82 83 00-1842	EA	Velocity, Temperature And Pressure Sensors InnovaMass® Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241i VTP) Note: Mass measurement with pressure and temperature compensation and automatic flow profile compensation by calculating the Reynolds number. No cost options include: Standard probe - Code LS; Compact Probe Available Only For Connections CM, CF, CG And CH - Code LC; Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1 - Code E2; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Standard Process Temperature -40 to 500 Degree F - Code ST; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1000 PSIG - Code MP4; Maximum 1500 PSIG, Proof 2500 PSIG - Code MP5.	9,049.72	119.65
46 82 83 00-1843	EA	Velocity, Temperature And Pressure Sensors InnovaMass® Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241i VTEP) Note: Mass measurement with pressure temperature compensation. Excludes pressure sensor. Unit has a 4-20 mA input for an external pressure sensor. No cost options include: Standard probe - Code LS; Compact Probe Available Only For Connections CM, CF, CG And CH - Code LC; Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1 - Code E2; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Standard Process Temperature -40 Degree F to 500 Degree F - Code ST; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1000 PSIG - Code MP4; Maximum 1500 PSIG, Proof 2500 PSIG - Code MP5	11,613.89	119.65

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1844	EA	VT Meter Plus Energy Meter Package InnovaMass® Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241i VT EMS) Note: Calculates energy in BTU or kjoules. Based on flow and temperature measurement (Class A RTD) from meter and secondary RTD to provide delta temperature. Excludes remote RTD. No cost options include: Standard probe - Code LS; Compact Probe Available Only For Connections CM, CF, CG And CH - Code LC; Explosion Proof Enclosure Mounted On Probe, Includes FMC, IECEx And ATEX, Class 1, Division 1 - Code E2; 12-36 Volt DC Loop Powered (Only Available With V4LH) - Code PV1L; One Analog Output (4-20 mA), One Pulse, HART, Loop Powered - Code V4LH; One Analog Output (4-20 mA), One Alarm, One Pulse And HART Communication, Not Loop Powered - Code V4H; Standard Process Temperature -40 to 500 Degree F - Code ST; Maximum 30 PSIG, Proof 60 PSIG - Code MP1; Maximum 100 PSIG, Proof 200 PSIG - Code MP2; Maximum 300 PSIG, Proof 600 PSIG - Code MP3; Maximum 500 PSIG, Proof 1000 PSIG - Code MP4; Maximum 1500 PSIG, Proof 2500 PSIG - Code MP5	11,613.89	119.65
46 82 83 00-1845	EA	VT Meter Plus Energy Meter Package InnovaMass® Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241i VTP EMS) Note: Calculates energy in BTU or kjoules. Based on flow and temperature measurement (Class A RTD) from meter and secondary RTD to provide delta temperature. Excludes remote RTD.	12,207.45	119.65
46 82 83 00-1846	EA	Extended Probe Length (Sierra 241i LE) Note: Consult factory if for PMR, PFR, PGR or PHR.	581.92	
46 82 83 00-1847	EA	Remote Electronics Explosion Proof Enclosure (Sierra 241i E4) Note: Specify cable length in parentheses, maximum 50'. Includes FMC, ATEX, IECEx and Cable glands. Class 1, Division 1.	1,581.27	59.82
46 82 83 00-1848	EA	Digital Display With Pushbuttons Option (Sierra 241i DD)	417.04	
46 82 83 00-1849	EA	No Readout Display Option (Sierra 241i NR) Note: Display highly recommended for setup/diagnostics.	443.44	
46 82 83 00-1850	EA	12-36 Volt DC Input Power (Sierra 241i PV1)	1,029.33	
46 82 83 00-1851	EA	100-240 Volt AC, 50/60 Hertz Line Power, 25 Watt Input Power (Sierra 241i PS)	981.03	
46 82 83 00-1852	EA	One Analog Output (4-20 mA), One Alarms, One Pulse, And MODBUS (Sierra 241i V4M)	901.60	
46 82 83 00-1853	EA	One Analog Output (4-20 mA), One Alarms, One Pulse, And BACNet (Sierra 241 V4B)	618.03	
46 82 83 00-1854	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, HART (Sierra 241i V6H)	901.60	
46 82 83 00-1855	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, MODBUS (Sierra 241i V6M)	901.60	
46 82 83 00-1856	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, BACNet (Sierra 241i V6B)	982.54	
46 82 83 00-1857	EA	High Process Temperature, -40 To 750 Degree F (Sierra 241i HT)	2,093.86	
46 82 83 00-1858	EA	2" Male NPT, Class 600, ANSI Compression Fitting (Sierra 241i CM)	862.70	159.53
46 82 83 00-1859	EA	2" Class 150 Flange, ANSI Compression Fitting (Sierra 241i CF)	1,412.79	159.53
46 82 83 00-1860	EA	2" Class 300 Flange, ANSI Compression Fitting (Sierra 241i CG)	1,714.65	159.53
46 82 83 00-1861	EA	2" Class 600 Flange, ANSI Compression Fitting (Sierra 241i CH)	2,076.09	159.53
46 82 83 00-1862	EA	2" Male NPT, 50 PSIG Maximum Process Pressure For Live Insertion/Removal Without A Retractor, ANSI Packing Gland (Sierra 241i PM) Note: Packing gland itself rated to 600 PSIG process pressure. Packing gland live insertion/removal up to 600 PSIG must use a retractor (removable or welded on).	1,744.44	159.53
46 82 83 00-1863	EA	Material Certificates Option (Sierra 241i MC) Note: US Mill certifications on all wetted parts.	293.91	
46 82 83 00-1864	EA	Pressure Test Certificate Option (Sierra 241i PT)	146.96	
46 82 83 00-1865	EA	Certificate Of Conformance Option (Sierra 241i CC)	146.96	
46 82 83 00-1866	EA	NACE Certificate Option (Sierra 241i NC)	293.91	
46 82 83 00-1867	Day	Commissioning (Sierra 241i Commissioning)	2,978.85	
46 82 83 00-1868	EA	Hard Copy Instruction Manual (Sierra 241i IM)	87.38	

46 82 83 00-1869 InnovaMass® 241S Series *(46 82 83 00-1508)*

46 82 83 00-1870	EA	Liquid, Gas And Steam InnovaMass Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241S V)	5,847.20	119.65
46 82 83 00-1871	EA	Velocity And Temperature Sensors InnovaMass Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241S VT)	9,520.36	119.65
46 82 83 00-1872	EA	Velocity, Temperature And Pressure Sensors InnovaMass Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241S VTP)	10,595.73	119.65
46 82 83 00-1873	EA	Velocity, Temperature And Pressure Sensors InnovaMass Insertion Multiparameter Mass Vortex Flow Meter (Sierra 241S VTEP)	10,377.36	119.65
46 82 83 00-1874	EA	VT Meter Plus Energy Meter Package (Sierra 241S VT MS)	10,377.36	119.65
46 82 83 00-1875	EA	VTP Meter Plus Energy Meter Package (Sierra 241S VTP EMS)	11,382.69	119.65
46 82 83 00-1876	EA	Extended Probe Length (Sierra 241S LE)	580.95	
46 82 83 00-1877	EA	Remote Electronics Explosion Proof Enclosure (Sierra 241S E4)	2,105.59	59.82
46 82 83 00-1878	EA	Digital Display With Pushbuttons Option (Sierra 241S DD)	444.98	
46 82 83 00-1879	EA	No Readout Display Option (Sierra 241S NR)	442.92	
46 82 83 00-1880	EA	12-36 Volt DC Input Power (Sierra 241S PV1)	1,030.05	
46 82 83 00-1881	EA	100-240 Volt AC, 50/60 Hertz Line Power, 25 Watt Input Power (Sierra 241S PS)	1,252.54	
46 82 83 00-1882	EA	One Analog Output (4-20 mA), One Alarms, One Pulse, And MODBUS (Sierra 241S V4M)	278.11	
46 82 83 00-1883	EA	One Analog Output (4-20 mA), One Alarms, One Pulse, And BACNet (Sierra 241S V4B)	618.03	
46 82 83 00-1884	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, HART (Sierra 241S V6H)	982.67	
46 82 83 00-1885	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, MODBUS (Sierra 241S V6M)	982.67	
46 82 83 00-1886	EA	Three Analog Outputs (4-20 mA), Three Alarms, One Pulse, BACNet (Sierra 241S V6B)	982.67	
46 82 83 00-1887	EA	High Process Temperature -40°F To 750°F (Sierra 241S HT)	2,093.06	
46 82 83 00-1888	EA	2" Male NPT, Class 600, ANSI Compression Fitting (Sierra 241S CM)	737.10	159.53
46 82 83 00-1889	EA	2" Class 150 Flange, ANSI Compression Fitting (Sierra 241S CF)	1,182.08	159.53
46 82 83 00-1890	EA	2" Class 300 Flange, ANSI Compression Fitting (Sierra 241S CG)	1,427.23	159.53
46 82 83 00-1891	EA	2" Class 600 Flange, ANSI Compression Fitting (Sierra 241S CH)	1,719.76	159.53
46 82 83 00-1892	EA	2" Male NPT, 50 PSIG Maximum Process Pressure For Live Insertion/Removal Without A Retractor, ANSI Packing Gland (Sierra 241S PM)	1,451.95	159.53
46 82 83 00-1893	EA	2" Male NPT, 600 PSIG With Welded On Retractor, Packing Gland (Sierra 241S PMR)	4,060.04	159.53
46 82 83 00-1894	EA	2" Male NPT, Class 600 PSIG With Retractor, Packing Gland For LE (Sierra 241S PMR-LE)	6,647.52	159.53
46 82 83 00-1895	EA	2" Class 150 Flange, 50 PSIG Maximum Process Pressure For Live Insertion/Removal Without A Retractor, ANSI Packing Gland (Sierra 241S PF)	1,872.21	159.53
46 82 83 00-1896	EA	2" Class 150 Flange, Packing Gland With Retractor (Sierra 241S PFR)	4,502.96	159.53
46 82 83 00-1897	EA	2" Class 150 Flange, Packing Gland With Retractor For Use With Extended Probe Length (Sierra 241S PFR LE)	7,080.14	159.53

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1898	EA	2" Class 300 Flange, 50 PSIG Maximum Process Pressure For Live Insertion/Removal Without A Retractor, ANSI Packing Gland (Sierra 241S PG)	2,069.98	159.53
46 82 83 00-1899	EA	2" Class 300 Flange With Retractor, ANSI Packing Gland (Sierra 241S PGR)	4,715.15	159.53
46 82 83 00-1900	EA	2" Class 300 Flange With Retractor, Packing Gland For Extended Probe Length (Sierra 241S PGR-LE)	7,323.24	159.53
46 82 83 00-1901	EA	2" Class 600 Flange With Retractor, ANSI Packing Gland (Sierra 241S PHR)	5,017.98	159.53
46 82 83 00-1902	EA	2" Class 600 Flange With Retractor, ANSI Packing Gland For Use With Extended Probe Length (Sierra 241S PHR-LE)	7,615.77	159.53
46 82 83 00-1903	EA	DN50/PN16 Flange, Compression Fitting (Sierra 241S CFD)	1,802.17	159.53
46 82 83 00-1904	EA	DN50/PN40 Flange, Compression Fitting (Sierra 241S CGD)	2,142.08	159.53
46 82 83 00-1905	EA	DN50/PN64 Flange, Compression Fitting (Sierra 241S CHD)	2,434.62	159.53
46 82 83 00-1906	EA	DN50/PN16 Flange, 50 PSIG Maximum Process Pressure Without Removable Retractor, Packing Gland (Sierra 241S PFD)	2,457.28	159.53
46 82 83 00-1907	EA	DN50/PN16 Flange With Retractor, Packing Gland (Sierra 241S PFDR)	4,960.30	159.53
46 82 83 00-1908	EA	DN50/PN16 Flange With Retractor, Packing Gland For Extended Probe Length (Sierra 241S PFDR-LE)	7,450.96	159.53
46 82 83 00-1909	EA	DN50/PN40 Flange, 50 PSIG Maximum Process Pressure Without Removable Retractor, Packing Gland (241S PGD)	2,749.81	159.53
46 82 83 00-1910	EA	DN50/PN40 Flange With Retractor, Packing Gland (Sierra 241S PGDR)	5,287.86	159.53
46 82 83 00-1911	EA	DN50/PN40 Flange With Retractor, Packing Gland For Extended Probe Length (Sierra 241S PGDR-LE)	7,768.22	159.53
46 82 83 00-1912	EA	DN50/PN64 Flange With Retractor, Packing Gland (Sierra 241S PHDR)	5,557.73	159.53
46 82 83 00-1913	EA	DN50/PN64 Flange With Retractor, Packing Gland For Extended Probe Length (Sierra 241S PHDR-LE)	8,038.09	159.53
46 82 83 00-1914	EA	Material Certificates (Sierra 241S MC)	241.03	
46 82 83 00-1915	EA	Pressure Test Certificate (Sierra 241S PT)	119.49	
46 82 83 00-1916	EA	Certificate Of Conformance (Sierra 241S CC)	119.49	
46 82 83 00-1917	EA	NACE Certification (Sierra 241S NC)	241.03	
46 82 83 00-1918	EA	Oxygen Cleaning Service (Sierra 241S 02C)	1,337.00	
46 82 83 00-1919	EA	25' Armored Cable With Glands, Meter Only (Sierra 241S ARM25V)	664.43	14.96
46 82 83 00-1920	EA	50' Armored Cable With Glands, Meter Only (Sierra 241S ARM50V)	1,026.60	23.93
46 82 83 00-1921	EA	25' Armored Cable With Glands, Meter Only (Sierra 241S ARM25VTP)	1,338.36	47.86
46 82 83 00-1922	EA	50' Armored Cable With Glands, Meter Only (Sierra 241S ARM50VTP)	2,354.66	71.79
46 82 83 00-1923	EA	3/4" NPT To M20 Conversion Kit (Sierra 241S M20L)	340.55	95.71
46 82 83 00-1924	EA	3/4" NPT To M20 Conversion Kit (Sierra 241S M20R)	683.88	143.58
46 82 83 00-1925	EA	Commissioning (Sierra 241S Commissioning)	3,090.15	
46 82 83 00-1926	EA	Removable Retractor Transportable (Sierra 241S RR)	4,324.15	
46 82 83 00-1927	EA	Removable Retractor TransportableFor Extended Length Probes (Sierra 241S LERR)	6,332.75	
46 82 83 00-1928	EA	2" Female NPT, Full Port Bronze Gate Valve With Mounting Kit (Sierra 241S RK1)	1,069.36	59.82
46 82 83 00-1929	EA	2" Class 150 Flange, Full Port Carbon Steel Gate Valve (Sierra 241S RK2)	2,657.11	159.53
46 82 83 00-1930	EA	2" Class 150 Flange, Full Port Stainless Steel Gate Valve (Sierra 241S RK20)	4,029.14	159.53
46 82 83 00-1931	EA	2" Class 300 Flange, Full Port Carbon Steel Gate Valve (Sierra 241S RK3)	3,217.46	159.53
46 82 83 00-1932	EA	2" Class 300 Flange, Full Port Stainless Steel Gate Valve (Sierra 241S RK30)	5,475.33	159.53
46 82 83 00-1933	EA	2" Class 600 Flange, Full Port Carbon Steel Gate Valve (Sierra 241S RK4)	6,188.12	159.53
46 82 83 00-1934	EA	2" Class 600 Flange, Full Port Stainless Steel Gate Valve (Sierra 241S RK40)	11,628.84	159.53
46 82 83 00-1935	EA	2" Female NPT, Full Port 316 Stainless Steel Gate Valve With Mounting Kit (Sierra 241S RK10)	2,972.89	59.82
46 82 83 00-1936	EA	2" Female NPT, Full Port Carbon steel valve With Mounting Kit (Sierra 241S RK11)	3,615.06	159.53
46 82 83 00-1937	EA	2" Female NPT, Full Port 316 Stainless Steel Gate Valve With Mounting Kit (Sierra 241S RK110)	11,012.87	159.53

46 82 83 00-1938 InnovaSwitch™ 615 Series *(46 82 83 00-1508)*

46 82 83 00-1939	EA	InnovaSwitch™ Level Switch (Sierra 615-LS32) Note: No cost option includes: Non-Explosion Proof Switch - Code NX; 3/4" MNPT - Code 75; 316 Stainless Steel - Code S6; 2" Insertion Length - Code 2; 110 VAC - Code 110; 220 VAC - Code 220; Local Electronics - Code LE.	2,512.14	119.65
46 82 83 00-1940	EA	InnovaSwitch™ Flow Switch (Sierra 615-FS42) Note: No cost option includes: Non-Explosion Proof Switch - Code NX; 3/4" MNPT - Code 75; 316 Stainless Steel - Code S6; 2" Insertion Length - Code 2; 110 VAC - Code 110; 220 VAC - Code 220; Local Electronics - Code LE.	2,760.38	119.65
46 82 83 00-1941	EA	CSA Approved (Sierra 615 CS)	137.03	
46 82 83 00-1942	EA	1-1/2" Sanitary With 3A Stamp Mount (Sierra 615 3A1)	802.25	43.67
46 82 83 00-1943	EA	1/2" MNPT Mount (Sierra 615 50)	271.34	25.49
46 82 83 00-1944	EA	1" MNPT Mount (Sierra 615 100)	297.62	38.64
46 82 83 00-1945	EA	1" Class 150 Stainless Steel Raised Face Flange Mount (Sierra 615 RA1)	703.84	100.76
46 82 83 00-1946	EA	2" Class 150 Stainless Steel Raised Face Flange Mount (Sierra 615 RA2)	914.33	159.53
46 82 83 00-1947	EA	1" Class 300 Stainless Steel Raised Face Flange Mount (Sierra 615 RB1)	868.67	100.76
46 82 83 00-1948	EA	2" Class 300 Stainless Steel Raised Face Flange Mount (Sierra 615 RB2)	1,051.36	159.53
46 82 83 00-1949	EA	Low Flow Sensor Mount (Sierra 615 LFS)	2,181.01	59.82
46 82 83 00-1950	EA	304 Stainless Steel Material Option (Sierra 615 S4)	687.12	
46 82 83 00-1951	EA	304L Stainless Steel Material Option (Sierra 615 SL)	687.12	
46 82 83 00-1952	EA	Hastalloy® C Material Option (Sierra 615 HC)	1,318.64	
46 82 83 00-1953	EA	Iconel 600 Material Option (Sierra 615 IO)	1,127.99	
46 82 83 00-1954	EA	Monel Material Option (Sierra 615 MN)	1,127.99	
46 82 83 00-1955	EA	Alloy 20 Material Option (Sierra 615 A2)	1,127.99	
46 82 83 00-1956	EA	Special Probe Insertion Base Cost (Sierra 615 xxx.xx) Note: 1/2" to 120" in 1/4" increments. Use task for Special Probe Insertion Length Cost in addition to this task.	329.66	
46 82 83 00-1957	IN	Special Probe Insertion Length Cost (Sierra 615 xxx.xx) Note: Use task for Special Probe Insertion Length Base Cost in addition to this task.	19.86	
46 82 83 00-1958	EA	24 Volt DC Power Input (Sierra 615 24D) Note: Not available with MT or HT switch (615-FS42).	248.24	
46 82 83 00-1959	EA	Remote Electronics (25' Of Cable) (Sierra 615 RE) Note: MT and HT option must be RE. RE adder is included in the MT and HT price.	963.16	
46 82 83 00-1960	EA	Potted Cable (Not Explosion Proof) (Sierra 615 PC)	220.43	
46 82 83 00-1961	EA	Calibration Option (Sierra 615 CB) Note: Air and water only, all others consult factory.	413.07	
46 82 83 00-1962	EA	Extended Neck Option (Sierra 615 EN)	254.20	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-1963	EA	Explosion Proof Window Option (Sierra 615 XW)	385.26	
46 82 83 00-1964	EA	3/4" NPT Variable Insertion, With Teflon Ferrules Option (Sierra 615 VI) Note: 15 PSIG max, >3" pipe ID required.	550.09	
46 82 83 00-1965	EA	Live (Hot) Tap Option (Sierra 615 LT)	1,237.22	
46 82 83 00-1966	EA	Double Sided Option (Sierra 615 DS)	550.09	
46 82 83 00-1967	EA	Medium Temperature Option (Sierra 615 MT) Note: Includes RE with 3" EN.	1,292.82	
46 82 83 00-1968	EA	High Temperature Option (Sierra 615 HT) Note: Includes RE with 6" EN.	2,198.39	
46 82 83 00-1969	EA	RTD Output Option (Sierra 615 RTD)	385.26	
46 82 83 00-1970	EA	Thermocouple Output Option (Sierra 615 TO)	385.26	
46 82 83 00-1971	EA	Additional Cable Option (Sierra 615 CA)	43.69	
46 82 83 00-1972	EA	Stainless Steel Tag Option (Sierra 615 TG)	87.38	
46 82 83 00-1973	EA	CE Approval Option (Sierra 615 CE)	220.43	
46 82 83 00-1974	EA	Oxygen Cleaning Option (Sierra 615 O2 Cleaning)	687.12	
46 82 83 00-1975	EA	Additional Instruction Manual (Sierra 615-IM)	87.38	
46 82 83 00-1976		**FastFlo™ 620S / BoilerTrak™ 620S-BT** *(46 82 83 00-1508)*		
46 82 83 00-1977	EA	FastFlo™ Insertion Mass Flow Meter (Sierra 620S) Note: 18-30 Volt DC input power with a 3/8" diameter probe. Includes "Smart Electronics" with PC configuration software, calibrated temperatures up to 176 Degree F and pressures up to 120 PSIG. 200 msec response. CE approved. 4-20 mA, 0-10 Volt DC or 0-5 Volt DC linear output. No cost options include: 3.7 Probe Length - Code L04; NEMA 4X (IP65) Enclosure, Mounted Directly On Probe - Code EN2; 0-5 Volt DC, Linear Output - Code V1; 4-20 mA, Linear Output - Code V4; Air - Code 0; Methane (Natural Gas) Correlation (3.0% Reading Plus 1% Full Scale - Code 9; Propane Correlation (3.0% Reading Plus 1.0% Full Scale - Code 13.	4,452.37	119.65
46 82 83 00-1978	EA	BoilerTrak™ Insertion Mass Flow Meter (Sierra 620S-BT) Note: Optimized for natural gas and propane. 15-18 Volt DC input power with a 3/8" diameter probe. Includes "Smart Electronics" with PC configuration software, calibrated temperatures up to 100F and pressures up to 30 PSIG real gas calibration and 120 PSIG correlation. 200 msec response. CE approved. 4-20 mA and 0-5 Volt DC linear output. No cost options include: 3.7 Probe Length - Code L04; NEMA 4X (IP65) Enclosure, Mounted Directly On Probe - Code EN2; 0-5 Volt DC, Linear Output - Code V1; 4-20 mA, Linear Output - Code V4; Air - Code 0; Methane (Natural Gas) Correlation (3.0% Reading Plus 1% Full Scale - Code 9; Propane Correlation (3.0% Reading Plus 1.0% Full Scale - Code 13.	4,452.37	119.65
46 82 83 00-1979	EA	6" Probe Length (Sierra 620 L06)	65.53	
46 82 83 00-1980	EA	9" Probe Length (Sierra 620 L09)	109.22	
46 82 83 00-1981	EA	13" Probe Length (Sierra 620 L13)	174.76	
46 82 83 00-1982	EA	Special Probe Insertion Base Cost (Sierra 620 L) Note: Specify length in parentheses, 24" maximum, 3.7" minimum. Use modifier for Special Probe Insertion Length Cost in addition to this task.	283.98	
46 82 83 00-1983	IN	For Special Probe Insertion Length Cost, Add Per Inch (Sierra 620)	10.30	
46 82 83 00-1984	EA	Compression Fitting For 3/8" Probe Feed Through By 1/2" Male NPT Mounting Accessory (Sierra 620 M1)	184.13	12.92
46 82 83 00-1985	EA	3/8" Probe Feed Through By 1/2" Male NPT Compression Fitting With Weld-O-Let Mounting Accessory (Sierra 620 M1-M2) Note: 1/2" Female NPT. Welds to pipe, specify pipe O.D. in parentheses.	458.18	12.92
46 82 83 00-1986	EA	Flat Duct Bracket, 3/8" Tube Compression Fitting Mounting Accessory (Sierra 620 M3)	676.63	12.92
46 82 83 00-1987	EA	Curved Duct Bracket, 3/8" Tube Compression Fitting Mounting Accessory (Sierra 620 M4) Note: Specify duct O.D. in parentheses.	720.32	12.92
46 82 83 00-1988	EA	Conex (Viton® Compression Fitting) Packing Gland Mounting Accessory (Sierra 620 M6) Note: Can be used with customer supplied ball valve for live insertion or removal up to product maximum pressures. Compression fitting for 3/8" probe feed through By 1/2" male NPT.	567.41	12.92
46 82 83 00-1989	EA	Remote NEMA 4X (IP65) Electronics Enclosure With Junction Box (Sierra 620 EN4) Note: Mounted up to 200' away from the probe with junction box mounted on probe. Includes remote electronics enclosure mounting bracket and 1/2" female NPT connection.	1,104.66	59.82
46 82 83 00-1990	LF	>10' Cable Length For Remote NEMA 4X (IP65) Electronics Enclosure (Sierra 620)	6.95	
46 82 83 00-1991	EA	0-10 Volt DC, Linear Output (Sierra 620 V3)	109.22	
46 82 83 00-1992	EA	2 x 12 Digit, Backlit, Digital Display (Sierra 620 DD) Note: LCD display indicates flow rate and totalized mass in engineering units. Simplifies configuration settings and provides system status information.	218.45	
46 82 83 00-1993	EA	Argon Calibration (Sierra 620 1)	1,008.84	
46 82 83 00-1994	EA	Carbon Dioxide Gas Calibration (Sierra 620 2)	1,008.84	
46 82 83 00-1995	EA	Helium Calibration (Sierra 620 6)	1,008.84	
46 82 83 00-1996	EA	Nitrogen Calibration (Sierra 620 10)	1,008.84	
46 82 83 00-1997	EA	Methane (Natural Gas) Calibration (1.0% Full Scale) (Sierra 620 8) Note: For BoilerTrak only.	1,177.64	
46 82 83 00-1998	EA	Propane Calibration (1.0% Full Scale) (Sierra 620 12) Note: For BoilerTrak only.	1,177.64	
46 82 83 00-1999	EA	Totalizer Pulse Output (1 Hertz Max) Digital Communication (Sierra 620 Pulse)	266.11	
46 82 83 00-2000	EA	Modbus Communications Protocol Digital Communication Option (Sierra 620 MB)	762.59	
46 82 83 00-2001	EA	Material Certificate Option (Sierra 620 MC) Note: US Mill certifications on all wetted parts.	266.11	
46 82 83 00-2002	EA	Certificate Of Conformance Option (Sierra 620 CC)	133.06	
46 82 83 00-2003	EA	NACE Certificate For Sour Gas Option (Sierra 620 NACE)	133.06	
46 82 83 00-2004	EA	Leak Test Certificate (Sierra 620 LT)	133.06	
46 82 83 00-2005	EA	Pressure Test Certificate Option (Sierra 620 PT)	266.11	
46 82 83 00-2006	EA	24 Volt DC Power Supply For 620S (Sierra 620 100-T10F US) Note: Supplied with fly leads, 1.5 Amps, 110-230 VAC, CE approved.	266.11	
46 82 83 00-2007	EA	15 Volt DC Power Supply (Sierra 620 900-T1) Note: For BoilerTrak only.	182.70	
46 82 83 00-2008	EA	Additional Instruction Manual (Sierra 620S-IM)	87.38	
46 82 83 00-2009	EA	1-Year Extended Warranty (Sierra 620 W1) Note: One extra year of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional year, two years of coverage total.	270.39	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2010	EA	2-Year Extended Warranty (Sierra 620 W2) Note: Two extra years of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional two years, three years of coverage total.	432.62	
46 82 83 00-2011		**AirTrak™ 628S Series** *(46 82 83 00-1508)*		
46 82 83 00-2012	EA	Inline Mass Flow Meter, 1" Flow Body Tube (Sierra 628S BW1)	8,645.82	159.53
46 82 83 00-2013	EA	Inline Mass Flow Meter, 1-1/2" Flow Body Tube (Sierra 628S BW1.5)	9,160.85	159.53
46 82 83 00-2014	EA	Inline Mass Flow Meter, 2" Flow Body Tube (Sierra 628S BW2)	9,469.86	159.53
46 82 83 00-2015	EA	Inline Mass Flow Meter, 3" Flow Body Tube (Sierra 628S BW3)	9,984.89	159.53
46 82 83 00-2016	EA	Inline Mass Flow Meter, 4" Flow Body Tube (Sierra 628S BW4)	11,684.47	159.53
46 82 83 00-2017	EA	Inline Mass Flow Meter, 6" Flow Body Tube (Sierra 628S BW6)	12,735.12	159.53
46 82 83 00-2018	EA	Inline Mass Flow Meter, 8" Flow Body Tube (Sierra 628S BW8)	14,177.19	159.53
46 82 83 00-2019	EA	Remote NEMA 4X (IP65) Enclosure With Junction Box (Sierra 628S EN4)	1,141.46	59.82
46 82 83 00-2020	EA	0-10 Volt DC, Linear Output Power (Sierra 628S V3)	113.31	
46 82 83 00-2021	EA	2 x 12 Digit, Backlit, LCD Digital Display (Sierra 628S DD)	226.61	
46 82 83 00-2022	EA	Argon Calibration (Sierra 628S-1)	817.86	
46 82 83 00-2023	EA	Carbon Dioxide Calibration (Sierra 628S-2)	817.86	
46 82 83 00-2024	EA	Helium Calibration (Sierra 628S-6)	817.86	
46 82 83 00-2025	EA	Nitrogen Option (Sierra 628S-10)	817.86	
46 82 83 00-2026	EA	Totalizer Pulse Output (Sierra 628S PULSE)	216.31	
46 82 83 00-2027	EA	Modbus Communications Protocol (Sierra 628S MB)	618.03	
46 82 83 00-2028	EA	Material Certificates (Sierra 628S MC)	216.31	
46 82 83 00-2029	EA	Certificate Of Conformance (Sierra 628S CC)	109.19	
46 82 83 00-2030	EA	Leak Test Certificate (Sierra 628S LT)	109.19	
46 82 83 00-2031	EA	Pressure Test Certificate (Sierra 628S PT)	216.31	
46 82 83 00-2032	EA	24 Volt DC Power Supply For 620S Only (Sierra 628S 100-T10F)	216.31	
46 82 83 00-2033	EA	1-Year Extended Warranty (Sierra 628S W1)	269.87	
46 82 83 00-2034	EA	2-Year Extended Warranty (Sierra 628S W2)	432.62	
46 82 83 00-2035		**QuadraTherm® 640i** *(46 82 83 00-1508)*		
46 82 83 00-2036	EA	High Pressure Hot-Tap With Removable Retractor Kit (Sierra 640i L( )M9)	5,205.04	
46 82 83 00-2037	EA	3/4" Conax Fitting, 1" Male NPT, Assembly With Sensor Shield (Sierra 640i S1)	1,260.49	12.92
46 82 83 00-2038	EA	1" Female NPT Weldolet, Assembly (Sierra 640i S2)	273.50	12.92
46 82 83 00-2039	EA	Sensor Shield, Captured Conax Fitting Plus Weldolet, Assembly (Sierra 640i S1 -S2)	1,532.56	12.92
46 82 83 00-2040	EA	Low Pressure Hot Tap Assembly With Sensor Shield , Ball Valve And Packing Gland With Conax Fitting Plus Weldolet (Sierra 640i S1 -S8)	2,589.61	
46 82 83 00-2041	EA	High Pressure Hot-Tap With Removable Retractor Kit Assembly (Sierra 640i S9)	7,705.29	
46 82 83 00-2042	EA	Ammonia Calibration (Sierra 640i-14)	391.22	
46 82 83 00-2043	EA	qMix License (Sierra 640i qMix)	695.06	
46 82 83 00-2044	Day	Commissioning (Sierra 640i Commissioning)	3,090.15	
46 82 83 00-2045	EA	QuadraTherm® Thermal Insertion Mass Flow Meter (Sierra 640i VT) Note: All 316L stainless steel construction; linear 4-20 mA output signals for mass flow velocity and temperature, temperatures -40 to 392 Degree F; pressure to 500 PSIG; standard accuracy (air) +/- 0.75% of reading above 50% of full scale flow and +/- 0.75% of reading plus 0.5% of full scale below 50% of full scale flow; includes qTherm™ Electronics with PC configuration software; 24 Volt DC +/- 10.0% or 100-240 Volt AC input power with a 3/4" diameter 316 Stainless Steel Insertion sensor probe; configurable alarm and pulse outputs; CE, cFMus, ATEX, IECEx approved. No cost options include: 24 Volt DC +/- 10.0% Input Power - Code P2; Two Linear 4-20mA Outputs For Mass Low Velocity And Temperature - Code V4; No Readout Display - Code NR; Air (+/- 0.75% Of Reading) Dial-A-Gas - Code 0.	6,438.27	119.65
46 82 83 00-2046	EA	Pressure Output Version QuadraTherm® Thermal Insertion Mass Flow Meter (Sierra 640i VTP) Note: All 316L stainless steel construction; linear 4-20 mA output signals for mass flow velocity and temperature, temperatures -40 Degree F to 392 Degree F; pressure to 500 PSIG; standard accuracy (air) +/- 0.75% of reading above 50% of full scale flow and +/- 0.75% of reading plus 0.5% of full scale below 50% of full scale flow; includes qTherm™ Electronics with PC configuration software; 24 Volt DC +/- 10.0% or 100-240 Volt AC input power with a 3/4" diameter 316 Stainless Steel Insertion sensor probe; configurable alarm and pulse outputs; CE, cFMus, ATEX, IECEx approved. No cost options include: 24 Volt DC +/- 10.0% Input Power - Code P2; Two Linear 4-20mA Outputs For Mass Low Velocity And Temperature - Code V4; Three Linear 4-20mA Outputs For Mass Flow Velocity, Temperature And Pressure - Code V6; No Readout Display - Code NR; 30 PSIA - Code MP1; 100 PSIA - Code MP2; 300 PSIA - Code MP3; 500 PSIA - Code MP4; Air (+/- 0.75% Of Reading) Dial-A-Gas - Code 0.	7,375.61	119.65
46 82 83 00-2047	EA	cFMus Approval (Sierra 640i 2) Note: Process Temperature Range: -40 to 392 Degree F. Class I, Division 1, Groups B, C, and D T3C Ta = -40 to 140 Degree F. Type 4x. Maximum probe length is 48". VTP E4 not cFMus approved.	135.04	
46 82 83 00-2048	EA	ATEX And IECEx Approval (Sierra 640i 3) Note: II 2 G Ex d IIC T3 Gb. II 2 D Ex tb IIIC T200 Degree C Db. Ta = -4 to 140 Degree F. Process Temperature Range: -40 to 392 Degree F. Maximum probe length is 48". VTP E4 not ATEX/IECEx approved.	135.04	
46 82 83 00-2049	EA	6" Probe Length (Sierra 640i L06)	208.52	
46 82 83 00-2050	EA	8-1/2" Probe Length (Sierra 640i L09)	299.87	
46 82 83 00-2051	EA	12" Probe Length (Sierra 640i L13)	432.93	
46 82 83 00-2052	EA	17-1/2" Probe Length (Sierra 640i L18)	478.60	
46 82 83 00-2053	EA	21-1/2" Probe Length (Sierra 640i L24)	575.91	
46 82 83 00-2054	EA	36" Probe Length (Sierra 640i L36)	768.54	
46 82 83 00-2055	EA	48" Probe Length (Sierra 640i L48)	923.44	
46 82 83 00-2056	EA	Special Probe Insertion Base Cost (Sierra 640i L x) Note: Specify length in parentheses; 72" maximum. 48" maximum for FM. Use modifier for Special Probe Insertion Length Cost in addition to this task.	919.47	
46 82 83 00-2057	IN	For Special Probe Insertion Length Cost, Add Per Inch (Sierra 640i)	19.86	
46 82 83 00-2058	EA	High Pressure Hot-Tap Retractor Kit Base Cost (Sierra 640i M9) Note: Includes L21" probe assembly, retractor assembly with hand crank, packing gland probe seal with a 2" ANSI Class 150 process connection. Not available with ATEX, cFMus or EN enclosure. Insertion depth up to 21". Use modifier for High-Pressure Hot-Tap Retractor Kit Probe Length Cost in addition to this task.	4,975.14	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2059	IN	For High Pressure Hot-Tap Retractor Kit Probe Length Cost, Add Per Inch (Sierra 640i)	20.60	
46 82 83 00-2060	EA	Probe With 1", ANSI Class 150 Flange (Sierra 640i L( )M5) Note: Includes M5 option diagram with ADS.	1,449.71	
46 82 83 00-2061	EA	3/4" Compression Fitting With 1" Male NPT Mounting Accessory (Sierra 640i M1)	736.21	12.92
46 82 83 00-2062	EA	1" Thread-O-Let With Female NPT Mounting Accessory (Sierra 640i M2)	599.18	12.92
46 82 83 00-2063	EA	3/4" Probe Feed Through By 1" Male NPT Compression Fitting With Thread-O-Let Mounting Accessory (Sierra 640i M1-M2) Note: Threads into 1" Female NPT, which is welded to the pipe.	1,318.08	12.92
46 82 83 00-2064	EA	Flat Duct Bracket, 3/4" Tube Compression Fitting Mounting Accessory (Sierra 640i M3)	1,318.08	12.92
46 82 83 00-2065	EA	Curved Duct Bracket, 3/4" Tube Compression Fitting Mounting Accessory (Sierra 640i M4) Note: Specify duct O.D. in parentheses.	1,760.93	12.92
46 82 83 00-2066	EA	Low Pressure Hot Tap Mounting Accessory (Sierra 640i M8) Note: Includes ball valve and packing gland, maximum 150 PSIG, specify duct O.D. in parenthesis.	2,569.75	
46 82 83 00-2067	EA	Quick Removal Hot Tap Mounting Accessory (Sierra 640i M15) Note: Includes ball valve and compression fitting rated for 40 PSIG.	2,287.76	
46 82 83 00-2068	EA	Hazardous Area Location Electronics Enclosure, NEMA 4X Mounted Directly On Probe (Sierra 640i E2)	1,334.52	
46 82 83 00-2069	EA	Remote Hazardous-Area Location Electronics Enclosure (IP66) With Junction Box (Sierra 640i E4) Note: Specify cable length in parenthesis. Maximum 200' from flow body; includes (IP66) junction box mounted on probe and mounting bracket (304SS). VTP E4 not cFMus, ATEX/IECEx, or CE approved.	2,482.87	59.82
46 82 83 00-2070	LF	>10' Cable Length For Remote Hazardous-Area Location Electronics Enclosure (Sierra 640i)	22.66	
46 82 83 00-2071	EA	100–240 Volt AC Input Power (Sierra 640i P3)	438.88	
46 82 83 00-2072	EA	Digital Display (Sierra 640i DD) Note: UltraBright LCD indicates mass flow velocity, T, P, alarms and totalized mass flow in engineering units; 6-push button user interface makes selection easy: Dial-A-Gas, Dial-A-Pipe, change units, change language, set alarms.	395.19	
46 82 83 00-2073	EA	Argon Calibration (Sierra 640i 1A)	1,008.84	
46 82 83 00-2074	EA	Carbon Dioxide Calibration (Sierra 640i 2A)	1,008.84	
46 82 83 00-2075	EA	Digester Gas Calibration (Sierra 640i 4A)	1,175.65	
46 82 83 00-2076	EA	Helium Calibration (Sierra 640i 6A)	1,008.84	
46 82 83 00-2077	EA	Hydrogen Calibration (Sierra 640i 7A)	3,167.51	
46 82 83 00-2078	EA	Methane Calibration (Sierra 640i 8A)	1,175.65	
46 82 83 00-2079	EA	Nitrogen Calibration (Sierra 640i 10A)	1,008.84	
46 82 83 00-2080	EA	Propane Calibration (Sierra 640i 12A)	1,175.65	
46 82 83 00-2081	EA	Profibus DP Using A M12 Connector With Full Device Description Digital Communication Option (Sierra 640i DP1) Note: Available in E2/E4-P2 NAA only.	762.59	
46 82 83 00-2082	EA	Profibus DP Using A 2-Wire Terminal Block Connection With Full Device Description Digital Communication Option (Sierra 640i DP2) Note: Available in E2/E4-P2 configuration only.	762.59	
46 82 83 00-2083	EA	Foundation Fieldbus Full Device Description Digital Communication Option (Sierra 640i FF) Note: Available E2/ E4–P2 configuration only. FM approval available.	762.59	
46 82 83 00-2084	EA	Modbus RTU Full Device Description Digital Communication Option (Sierra 640i MB)	762.59	
46 82 83 00-2085	EA	Universal Variables, Flow Totalizer, K-Factor, User Full Scale And Instantaneous Flow Digital Communication (Sierra 640i HART) Note: Available E2-P2 /E4-P2) configuration only. FM approval available.	762.59	
46 82 83 00-2086	EA	Material Certificate Option (Sierra 640i MC) Note: US Mill certifications on all wetted parts.	266.11	
46 82 83 00-2087	EA	Certificate Of Conformance Option (Sierra 640i CC)	133.06	
46 82 83 00-2088	EA	NACE Certificate For Sour Gas Option (Sierra 640i NACE)	133.06	
46 82 83 00-2089	EA	Leak Test Certificate Option (Sierra 640i LT)	133.06	
46 82 83 00-2090	EA	Pressure Test Certificate Option (Sierra 640i PT)	266.11	
46 82 83 00-2091	EA	Two Point Pressure Sensor Calibration Certificate Option (Sierra 640i PC)	266.11	
46 82 83 00-2092	EA	Two Point Temperature Sensor Calibration Certificate Option (Sierra 640i TC)	266.11	
46 82 83 00-2093	EA	Cleaned For O2 Service (Includes Certification) Option (Sierra 640i O2C) Note: Inspected with ultra-violet light, double-bagged prior to shipment.	1,040.61	
46 82 83 00-2094	EA	Additional Instruction Manual (Sierra 640i / 780i-IM)	43.69	
46 82 83 00-2095	EA	1-Year Extended Warranty (Sierra 640i W1) Note: One extra year of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional year, two years of coverage total.	260.15	
46 82 83 00-2096	EA	2-Year Extended Warranty (Sierra 640i W2) Note: Two extra years of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional two years, three years of coverage total.	417.04	

46 82 83 00-2097 SteelMass® 640S *(46 82 83 00-1508)*

46 82 83 00-2098	EA	Ammonia Calibration (Sierra 640S-14)	317.26	
46 82 83 00-2099	EA	Steel Mass Industrial Insertion Mass Flow Meter (Sierra 640S) Note: 18-30 Volt DC or 100-240 Volt AC input power with 3/4" diameter 316 Stainless Steel probe. Includes "Smart Electronics" with PC configuration software. Calibration temperatures up to 350 Degree F and pressure to 500 PSIG. HT option to 750 Degree F available (contact factory). CE, FM, CSA, ATEX approvals. Linear 0-5 Volt DC, 0-10 Volt DC or 4-20 mA output signals. Lifetime warranty on Fast Response (FR) sensor. No cost options include: Non-Agency Approved Meter - Code NAA; 640S With FM Approval. Requires E2 Or E4 Enclosure. Maximum Probe Length Is 72" - Code FM; 640S With CSA Approval. Requires E2 Or E4 Enclosure. Maximum Probe Length Is 72" - Code CSA; NEMA 4X (IP65) Enclosure. Mounted Directly On Probe - Code EN2; 18–30 Volt DC Input Power - Code P2; 0-5 Volt DC, Linear Output - Code V1; 4-20 mA, Linear Output - Code V4; No Readout Display - Code NR; Air Calibration - Code 0.	6,164.46	119.65
46 82 83 00-2100	EA	640S With II 2 GD Ex d IIC T2...T6 ATEX Approval (Sierra 640S ATEX) Note: Requires E2 or E3 enclosure. E3 required for probe lengths >13". Maximum probe length is 36". ATEX units have circuit energy limitations that limit maximum flows to approximately 50% of non-ATEX units. Consult gas tables for actual values.	648.93	
46 82 83 00-2101	EA	6" Probe Length (Sierra 640S L06)	151.42	
46 82 83 00-2102	EA	9" Probe Length (Sierra 640S L09)	216.31	
46 82 83 00-2103	EA	13" Probe Length (Sierra 640S L13)	313.65	
46 82 83 00-2104	EA	18" Probe Length (Sierra 640S L18)	346.10	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2105	EA	24 Probe Length (Sierra 640S L24)	389.36	
46 82 83 00-2106	EA	36" Probe Length (Sierra 640S L36)	519.15	
46 82 83 00-2107	EA	Special Probe Insertion Base Cost (Sierra 640S L) Note: Specify length in parentheses. Maximum probe length 72". Minimum length 6". Use modifier for Special Probe Insertion Length Cost in addition to this task.	410.99	
46 82 83 00-2108	IN	For Special Probe Insertion Length Cost, Add Per Inch (Sierra 640S)	20.60	
46 82 83 00-2109	EA	1", Class 150 Flange Special Probe Insertion Base Cost (Sierra 640S L( )M5) Note: Specify length in parentheses. Includes M5 option Diagram With ADS. Use modifier for Special Probe Insertion Length Cost in addition to this task.	1,297.86	
46 82 83 00-2110	IN	For Special Probe Insertion Length Cost, Add Per Inch (Sierra 640S)	20.60	
46 82 83 00-2111	EA	High Pressure Hot-Tap Retractor Kit (Sierra 640S L( )M9) Note: Includes L21" probe assembly, retractor assembly with hand crank, packing gland probe seal with a 2" ANSI Class 150 process connection. Not available with ATEX, cFMus or EN enclosure. Insertion depth up to 21".	3,296.16	
46 82 83 00-2112	EA	3/4" Compression Fitting With 1" Male NPT Mounting Accessory (Sierra 640S M1)	473.55	12.92
46 82 83 00-2113	EA	1" Thread-O-Let With Female NPT Mounting Accessory (Sierra 640S M2)	387.03	12.92
46 82 83 00-2114	EA	3/4" Probe Feed Through By 1" Male NPT Compression Fitting With Thread-O-Let Mounting Accessory (Sierra 640S M1-M2) Note: Threads into 1" Female NPT, which is welded to the pipe.	841.28	12.92
46 82 83 00-2115	EA	Flat Duct Bracket, 3/4" Tube Compression Fitting Mounting Accessory (Sierra 640S M3)	841.28	12.92
46 82 83 00-2116	EA	Curved Duct Bracket, 3/4" Tube Compression Fitting Mounting Accessory (Sierra 640S M4) Note: Specify duct O.D. in parentheses.	1,122.48	12.92
46 82 83 00-2117	EA	Low Pressure Hot Tap Mounting Accessory (Sierra 640S M8) Note: Includes ball valve and packing gland, maximum 150 PSIG, specify duct O.D. in parenthesis.	1,627.48	
46 82 83 00-2118	EA	Quick Removal Hot Tap Mounting Accessory (Sierra 640S M15) Note: Includes ball valve and compression fitting rated for 40 PSIG.	1,449.28	
46 82 83 00-2119	EA	Hazardous Area Location Electronics Enclosure, NEMA 4X Mounted Directly On Probe (Sierra 640S E2)	699.34	
46 82 83 00-2120	EA	Remote Hazardous-Area Location Electronics Enclosure (IP66) (Sierra 640S E3) Note: Specify cable length in parenthesis. Maximum 200' from flow body; includes strain relief on end of probe and mounting bracket.	1,417.51	59.82
46 82 83 00-2121	LF	>10' Cable Length For Remote Hazardous-Area Location Electronics Enclosure (Sierra 640S)	7.21	
46 82 83 00-2122	EA	Remote Hazardous-Area Location Enclosure (IP66) With Junction Box (Sierra 640S E4) Note: Specify cable length in parenthesis. Maximum 200' from flow body; includes (IP66) junction box mounted on probe and mounting bracket (304SS). VTP E4 not cFMus, ATEX/IECEx, or CE approved.	1,622.33	
46 82 83 00-2123	LF	>10' Cable Length For Remote Hazardous-Area Location Electronics Enclosure (Sierra 640S)	7.21	
46 82 83 00-2124	EA	Remote NEMA 4X (IP65) Enclosure With Junction Box (Sierra 640S EN4) Note: Mounted up to 200' away from the probe with junction box mounted on probe. Includes remote electronics enclosure mounting bracket and 1/2" female NPT connection.	1,023.15	
46 82 83 00-2125	LF	>10' Cable Length For Remote NEMA 4X (IP65) Electronics Enclosure (Sierra 640S)	7.21	
46 82 83 00-2126	EA	100–240 Volt AC Input Power (Sierra 640S P3) Note: Not available with EN enclosures.	324.47	
46 82 83 00-2127	EA	0-10 Vol tDC, Linear Output (Sierra 640S V3)	129.79	
46 82 83 00-2128	EA	2 x 12 Digit, Backlit, Digital Display (Sierra 640S DD) Note: LCD display indicates flow rate and totalized mass in engineering units. Simplifies configuration settings and provides system status information.	216.31	
46 82 83 00-2129	EA	Argon Calibration (Sierra 640S 1)	817.65	
46 82 83 00-2130	EA	Carbon Dioxide Calibration (Sierra 640S 2)	817.65	
46 82 83 00-2131	EA	Chlorine Correlation Calibration (Sierra 640S 3)	317.98	
46 82 83 00-2132	EA	Digester Gas Calibration (Sierra 640S 4)	953.93	
46 82 83 00-2133	EA	Digester Gas Correlation Calibration (Sierra 640S 5)	317.98	
46 82 83 00-2134	EA	Helium Calibration (Sierra 640S 6)	817.65	
46 82 83 00-2135	EA	Hydrogen Calibration (Sierra 640S 7)	2,566.53	
46 82 83 00-2136	EA	Methane Correlation Calibration (Sierra 640S 8)	953.93	
46 82 83 00-2137	EA	Methane Calibration (Sierra 640S 9)	317.98	
46 82 83 00-2138	EA	Nitrogen Calibration (Sierra 640S 10)	817.65	
46 82 83 00-2139	EA	Oxygen Correlation Calibration (Sierra 640S 11)	317.98	
46 82 83 00-2140	EA	Propane Calibration (Sierra 640S 12)	953.93	
46 82 83 00-2141	EA	Propane Correlation Calibration (Sierra 640S 13)	317.98	
46 82 83 00-2142	EA	Totalizer Pulse Output Digital Communication (Sierra 640S Pulse) Note: Only available with E2/E3/E4 enclosures with DD. Available on all EN2 enclosures.	216.31	
46 82 83 00-2143	EA	Profibus DP Using A M12 Connector With Full Device Description Digital Communication Option (Sierra 640S DP1) Note: Available in E2/E4-P2 NAA only.	618.03	
46 82 83 00-2144	EA	Profibus DP Using A 2-Wire Terminal Block Connection With Full Device Description Digital Communication Option (Sierra 640S DP2) Note: Available in E2/E4-P2 configuration only.	618.03	
46 82 83 00-2145	EA	Modbus RTU With Full Device Description (P2 only); ATEX And FM Approvals Available Digital Communication Option (Sierra 640S MB)	618.03	
46 82 83 00-2146	EA	Foundation Fieldbus Full Device Description Digital Communication Option (Sierra 640S FF) Note: Available E2/ E4–P2 configuration only. FM approval available.	618.03	
46 82 83 00-2147	EA	Universal Variables, Flow Totalizer, K-Factor, User Full Scale And Instantaneous Flow Digital Communication (Sierra 640S HART) Note: Available E2-P2 /E4-P2) configuration only. FM approval available.	618.03	
46 82 83 00-2148	EA	Non-Return Valve, Tube And Purge Nozzle Option For Cleaning Probe Tips (Sierra 640S PURGE) Note: 30-120 PSIG external compressed air source required. Uses 1/4" compression fitting on purge tube process connection. Available with E2 only. Not available with HT option (contact factory in this case for external purge solution). Excludes on/off valve. NAA only. Only a 24 Volt DC power input is available when ordering an internal purge option.	1,514.17	
46 82 83 00-2149	EA	High Temperature Option (Sierra 640S HT) Note: HT option to 750 Degree F. Requires remote (E4 or EN4). Contact factory for probe length (limited lengths available). Overall accuracy of HT may be de-rated due to temperature and velocity conditions.	2,595.73	
46 82 83 00-2150	EA	Material Certificate Option (Sierra 640S MC) Note: US Mill certifications on all wetted parts.	216.31	
46 82 83 00-2151	EA	Certificate Of Conformance Option (Sierra 640S CC)	108.16	
46 82 83 00-2152	EA	NACE Certificate For Sour Gas Option (Sierra 640S NACE)	108.16	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2153	EA	Leak Test Certificate Option (Sierra 640S LT)	108.16	
46 82 83 00-2154	EA	Pressure Test Certificate Option (Sierra 640S PT)	216.31	
46 82 83 00-2155	EA	Cleaned For O2 Service (Includes Certification) Option (Sierra 640S O2C) Note: Inspected with ultra-violet light, double-bagged prior to shipment.	843.61	
46 82 83 00-2156	EA	Additional Instruction Manual (Sierra 640S-IM)	45.32	
46 82 83 00-2157	EA	1-Year Extended Warranty (Sierra 640S W1) Note: One extra year of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional year, two years of coverage total.	270.39	
46 82 83 00-2158	EA	2-Year Extended Warranty (Sierra 640S W2) Note: Two extra years of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional two years, three years of coverage total.	432.62	
46 82 83 00-2159		QuadraTherm® 780i *(46 82 83 00-1508)*		
46 82 83 00-2160	EA	DN50, PN16, DIN Flange Flow Body (Sierra 780i FD6)	1,648.59	57.43
46 82 83 00-2161	EA	DN80, PN16, DIN Flange Flow Body (Sierra 780i FD7)	2,929.55	67.00
46 82 83 00-2162	EA	DN100, PN16, DIN Flange Flow Body (Sierra 780i FD8)	5,233.67	100.76
46 82 83 00-2163	EA	DN150, PN16, DIN Flange Flow Body (Sierra 780i FD9)	9,407.75	125.63
46 82 83 00-2164	EA	DN200, PN16, DIN Flange Flow Body (Sierra 780i FD10)	20,644.25	159.53
46 82 83 00-2165	EA	DN25, PN40, DIN Flange Flow Body (Sierra 780i GD4)	1,322.40	29.92
46 82 83 00-2166	EA	DN 40, PN40, DIN Flange Flow Body (Sierra 780i GD5)	1,678.36	51.45
46 82 83 00-2167	EA	DN50, PN40, DIN Flange Flow Body (Sierra 780i GD6)	2,121.24	57.43
46 82 83 00-2168	EA	DN80, PN40, DIN Flange Flow Body (Sierra 780i GD7)	3,632.56	67.00
46 82 83 00-2169	EA	DN100, PN40, DIN Flange Flow Body (Sierra 780i GD8)	5,779.80	100.76
46 82 83 00-2170	EA	DN150, PN40, DIN Flange Flow Body (Sierra 780i GD9)	10,442.41	125.63
46 82 83 00-2171	EA	DN200, PN40, DIN Flange Flow Body (Sierra 780i GD10)	21,323.43	159.53
46 82 83 00-2172	EA	Inline Thermal Mass Flow Meter With Flow Conditioning (Sierra 780i VT) Note: All 316L stainless steel construction; linear 4-20 mA output signals for Mass Flow Velocity and Temperature, calibration temperatures -40 to 392 Degree F and pressure to 500 PSIG; standard accuracy +/- 0.5% of reading above 50% of full scale flow and +/- 0.5% of reading plus 0.5% of full scale below 50% of full scale flow; includes qTherm™ Electronics with PC configuration software; 24 Volt DC +/-10% or 100-240 Volt AC input power, configurable alarm and pulse outputs; CE, cFMus, ATEX, IECEx approved. No cost options include: Non-Agency Approved - Code 1; 1" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning - Code N4; 1-1/2" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning - Code N5; 24 Volt DC, +/- 10.0% Input Power - Code P2; No Readout Display - Code NR; 30 PSIA, VTP Only - Code MP1; 100 PSIA, VTP Only - Code MP2; 300 PSIA, VTP Only - Code MP3; 500 PSIA, VTP Only - Code MP4; Air Calibration - Code 0.	11,186.55	119.65
46 82 83 00-2173	EA	Inline Thermal Mass Flow Meter With Flow Conditioning (Sierra 780i VTP) Note: All 316L stainless steel construction; linear 4-20 mA output signals for Mass Flow Velocity and Temperature, calibration temperatures -40 to 392 Degree F and pressure to 500 PSIG; standard accuracy +/- 0.5% of reading above 50% of full scale flow and +/- 0.5% of reading plus 0.5% of full scale below 50% of full scale flow; includes qTherm™ Electronics with PC configuration software; 24 Volt DC +/-10% or 100-240 Volt AC input power, configurable alarm and pulse outputs; CE, cFMus, ATEX, IECEx approved. No cost options include: Non-Agency Approved - Code 1; 1" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning - Code N4; 1-1/2" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning - Code N5; 24 Volt DC, +/- 10.0% Input Power - Code P2; No Readout Display - Code NR; 30 PSIA, VTP Only - Code MP1; 100 PSIA, VTP Only - Code MP2; 300 PSIA, VTP Only - Code MP3; 500 PSIA, VTP Only - Code MP4; Air Calibration - Code 0. Add a Pressure output To the 640i VT version; three 4-20 mA linear outputs for mass flow velocity, Temperature, And Pressure; includes Pressure Sensor To 500 psig (34.5 barg).	12,388.02	119.65
46 82 83 00-2174	EA	cFMus Approvals (Sierra 780i 2) Note: Process temperature range: -40 To 392 Degree F. Class I, Division 1, Groups B, C, and D. T3C Ta = -40 To 140 Degree F. Type 4x. Maximum probe length is 48". VTP E4 not cFMus approved.	135.04	
46 82 83 00-2175	EA	ATEX And IECEx Approvals (Sierra 780i 3) Note: II 2 G Ex d IIC T3 Gb. II 2 D Ex tb IIIC T200 Degree C Db. Ta = -4 To 140 Degree F. Process temperature range: -40 To 392 Degree F. Maximum probe length is 48". VTP E4 not ATEX/IECEx approved.	133.06	
46 82 83 00-2176	EA	1/2" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning (Sierra 780i N2)	643.73	57.43
46 82 83 00-2177	EA	3/4" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning (Sierra 780i N3)	655.70	67.00
46 82 83 00-2178	EA	2" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning (Sierra 780i N6)	533.04	159.53
46 82 83 00-2179	EA	3" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning (Sierra 780i N7)	826.51	203.65
46 82 83 00-2180	EA	4" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning (Sierra 780i N8)	1,714.16	341.84
46 82 83 00-2181	EA	6" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning (Sierra 780i N9)	3,294.77	432.27
46 82 83 00-2182	EA	8" NPT Male 316 Stainless Steel Inline Flow Body With Flow Conditioning (Sierra 780i N10)	8,132.80	546.95
46 82 83 00-2183	EA	1/2" ANSI Class 150 Flange 316 Stainless Steel, 1-1/2" NPT Male 316 Stainless Steel Flow Body With Flow Conditioning (Sierra 780i F2)	673.52	57.43
46 82 83 00-2184	EA	3/4" ANSI Class 150 Flange 316 Stainless Steel Flow Body With Flow Conditioning (Sierra 780i F3)	685.49	67.00
46 82 83 00-2185	EA	1" ANSI Class 150 Flange 316 Stainless Steel Flow Body With Flow Conditioning (Sierra 780i F4)	727.67	100.76
46 82 83 00-2186	EA	1-1/2" ANSI Class 150 Flange 316 Stainless Steel Flow Body With Flow Conditioning (Sierra 780i F5)	759.16	125.63
46 82 83 00-2187	EA	2" ANSI Class 150 Flange 316 Stainless Steel Flow Body With Flow Conditioning (Sierra 780i F6)	1,514.08	159.53
46 82 83 00-2188	EA	3" ANSI Class 150 Flange 316 Stainless Steel Flow Body With Flow Conditioning (Sierra 780i F7)	2,625.73	203.65
46 82 83 00-2189	EA	4" ANSI Class 150 Flange 316 Stainless Steel Flow Body With Flow Conditioning (Sierra 780i F8)	4,683.08	341.84
46 82 83 00-2190	EA	6" ANSI Class 150 Flange 316 Stainless Steel Flow Body With Flow Conditioning (Sierra 780i F9)	8,247.61	432.27
46 82 83 00-2191	EA	8" ANSI Class 150 Flange, 316 Stainless Steel Flow Body With Flow Conditioning (Sierra 780i F10)	17,720.73	546.95
46 82 83 00-2192	EA	Hazardous Area Location Electronics Enclosure, NEMA 4X Mounted Directly On Probe (Sierra 780i E2)	933.87	59.82
46 82 83 00-2193	EA	Remote Hazardous-Area Location Electronics Enclosure (IP66) With Junction Box (Sierra 780i E4) Note: Specify cable length in parenthesis. Maximum 200' from flow body; includes (IP66) junction box mounted on probe and mounting bracket (304SS). VTP E4 not cFMus, ATEX/IECEx, or CE approved.	1,902.99	59.82
46 82 83 00-2194	LF	>10' Cable Length For Remote Hazardous-Area Location Electronics Enclosure (Sierra 780i)	21.84	
46 82 83 00-2195	EA	100–240 Volt AC Input Power (Sierra 780i P3)	401.15	
46 82 83 00-2196	EA	Digital Display (Sierra 780i DD) Note: UltraBright LCD indicates mass flow velocity, T, P, alarms and totalized mass flow in engineering units; 6-push button user interface makes selection easy: Dial-A-Gas, Dial-A-Pipe, change units, change language, set alarms.	333.63	
46 82 83 00-2197	EA	Argon Calibration (Sierra 780i 1A)	1,008.84	
46 82 83 00-2198	EA	Carbon Dioxide Calibration (Sierra 780i 2A)	1,008.84	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2199	EA	Digester Gas Calibration (Sierra 780i 4A)	1,177.64	
46 82 83 00-2200	EA	Helium Calibration (Sierra 780i 6A)	1,008.84	
46 82 83 00-2201	EA	Hydrogen Calibration (Sierra 780i 7A)	3,167.51	
46 82 83 00-2202	EA	Methane Calibration (Sierra 780i 8A)	1,177.64	
46 82 83 00-2203	EA	Nitrogen Calibration (Sierra 780i 10A)	1,008.84	
46 82 83 00-2204	EA	Propane Calibration (Sierra 780i 12A)	1,177.64	
46 82 83 00-2205	EA	Ammonia Calibration (Sierra 780i-14)	391.22	
46 82 83 00-2206	EA	qMix License (Sierra 780i qMix)	893.66	
46 82 83 00-2207	Day	Commissioning (Sierra 780i Commissioning)	2,978.85	
46 82 83 00-2208	EA	Profibus DP Using A M12 Connector With Full Device Description Digital Communication Option (Sierra 780i DP1)	762.59	
		Note: Available in E2/E4-P2 NAA only.		
46 82 83 00-2209	EA	Profibus DP Using A 2-Wire Terminal Block Connection With Full Device Description Digital Communication Option (Sierra 780i DP2)	762.59	
		Note: Available in E2/E4-P2 configuration only.		
46 82 83 00-2210	EA	Foundation Fieldbus Full Device Description Digital Communication Option (Sierra 780i FF)	762.59	
		Note: Available E2/ E4–P2 configuration only; FM approval available.		
46 82 83 00-2211	EA	Modbus RTU Full Device Description Digital Communication Option (Sierra 780i MB)	762.59	
46 82 83 00-2212	EA	Universal Variables, Flow Totalizer, K-Factor, User Full Scale And Instantaneous Flow Digital Communication Option (Sierra 780i HART)	762.59	
		Note: Available E2-P2 /E4-P2) configuration only. FM approval available.		
46 82 83 00-2213	EA	Material Certificate Option (Sierra 780i MC)	266.11	
		Note: US Mill certifications on all wetted parts.		
46 82 83 00-2214	EA	Certificate Of Conformance Option (Sierra 780i CC)	133.06	
46 82 83 00-2215	EA	NACE Certificate For Sour Gas Option (Sierra 780i NACE)	133.06	
46 82 83 00-2216	EA	Leak Test Certificate Option (Sierra 780i LT)	133.06	
46 82 83 00-2217	EA	Pressure Test Certificate Option (Sierra 780i PT)	266.11	
46 82 83 00-2218	EA	Two Point Pressure Sensor Calibration Certificate Option (Sierra 780i PC)	266.11	
46 82 83 00-2219	EA	Two Point Temperature Sensor Calibration Certificate Option (Sierra 780i TC)	266.11	
46 82 83 00-2220	EA	Up To 4" Inline Meter, Cleaned For O2 Service (Includes Certification) Option (Sierra 780i O2C)	1,040.61	
		Note: Inspected with ultra-violet light, double-bagged prior to shipment.		
46 82 83 00-2221	EA	Additional Instruction Manual (Sierra 640i / 780i-IM)	87.38	
46 82 83 00-2222	EA	1-Year Extended Warranty (Sierra 780i W1)	260.15	
		Note: One extra year of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional year, two years of coverage total.		
46 82 83 00-2223	EA	2-Year Extended Warranty (Sierra 780i W2)	417.04	
		Note: Two extra years of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional two years, three years of coverage total.		

46 82 83 00-2224 FlatTrak™ 780S and 780S Ultra High Purity Series *(46 82 83 00-1508)*

Note: All 316 stainless steel construction. UHP 5-10 RA available. 18-30 Volt DC or 100-240 Volt AC input power with 3/4" diameter 316 Stainless Steel probe. Includes "Smart Electronics" with PC configuration software. Calibration temperatures up to 350 Degree F and pressure To 500 PSIG. CE, FM, CSA, ATEX approvals. Linear 0-5 Volt DC or 4-20 mA output signals. Lifetime warranty on non-UHP Fast Response (FR) Sensor. No cost options include: Non-Agency Approved Meter - Code NAA; FM Approval - Code FM; CSA Approval - Code CSA; NEMA 4X (IP65) Enclosure. Mounted Directly On Probe - Code EN2; 18–30 Volt DC Input Power - Code P2; 0-5 Volt DC, Linear Output - Code V1; 4-20 mA, Linear Output - Code V4; No Readout Display - Code NR; Air Calibration - Code 0.

46 82 83 00-2225	EA	1/4" Outside Diameter Tube, UHP, Butt Weld Prep (Sierra 780S UHP-BW1)	9,794.17	147.52
46 82 83 00-2226	EA	1/4" Outside Diameter Tube, UHP, Female VCR Fittings (Sierra 780S UHP-VCR1)	10,603.79	147.52
46 82 83 00-2227	EA	1/2" Outside Diameter Tube, UHP, Butt Weld Prep (Sierra 780S UHP-BW2)	10,846.52	150.52
46 82 83 00-2228	EA	1/2" Outside Diameter Tube, UHP, Female VCR Fittings (Sierra 780S UHP-VCR2)	11,225.58	150.52
46 82 83 00-2229	EA	1" Outside Diameter, Tube, UHP, Butt Weld Prep (Sierra 780S UHP-BW4)	14,105.25	161.26
46 82 83 00-2230	EA	1" Outside Diameter Tube, UHP, Male VCR Fittings (Sierra 780S UHP-VCR4)	15,057.01	161.26
46 82 83 00-2231	EA	1-1/2" Outside Diameter Tube, UHP, Butt Weld Prep (Sierra 780S UHP-BW5)	14,490.71	170.03
46 82 83 00-2232	EA	2" Outside Diameter Tube, UHP, Butt Weld Prep (Sierra 780S UHP-BW6)	16,647.89	193.27
46 82 83 00-2233	EA	3" Outside Diameter Tube, UHP, Butt Weld Prep (Sierra 780S UHP-BW7)	17,654.35	206.67
46 82 83 00-2234	EA	4" Outside Diameter Tube, UHP, Butt Weld Prep (Sierra 780S UHP-BW8)	18,771.52	266.90
46 82 83 00-2235	EA	DN50, PN16, DIN Flange Flow Body (Sierra 780S FD6)	9,474.09	57.43
46 82 83 00-2236	EA	DN80, PN16, DIN Flange Flow Body (Sierra 780S FD7)	9,710.61	67.00
46 82 83 00-2237	EA	DN100, PN16, DIN Flange Flow Body (Sierra 780S FD8)	10,902.32	100.76
46 82 83 00-2238	EA	DN150, PN16, DIN Flange Flow Body (Sierra 780S FD9)	13,727.31	125.63
46 82 83 00-2239	EA	DN200, PN16, DIN Flange Flow Body (Sierra 780S FD10)	18,721.77	159.53
46 82 83 00-2240	EA	DN25, PN40, DIN Flange Flow Body (Sierra 780S GD4)	9,017.21	29.92
46 82 83 00-2241	EA	DN40, PN40, DIN Flange Flow Body (Sierra 780S GD5)	9,115.83	51.45
46 82 83 00-2242	EA	DN50, PN40, DIN Flange Flow Body (Sierra 780S GD6)	9,939.67	57.43
46 82 83 00-2243	EA	DN80, PN40, DIN Flange Flow Body (Sierra 780S GD7)	10,429.58	67.00
46 82 83 00-2244	EA	DN100, PN40, DIN Flange Flow Body (Sierra 780S GD8)	11,573.92	100.76
46 82 83 00-2245	EA	DN150, PN40, DIN Flange Flow Body (Sierra 780S GD9)	14,977.79	125.63
46 82 83 00-2246	EA	DN200, PN40, DIN Flange Flow Body (Sierra 780S GD10)	20,118.52	159.53
46 82 83 00-2247	EA	Ammonia Calibration (Sierra 780S-14)	317.26	
46 82 83 00-2248	EA	Hard Copy Instruction Manual (Sierra 780S IM)	45.32	
46 82 83 00-2249	EA	780S With II 2 GD Ex d IIC T2...T6 ATEX Approval (Sierra ATEX)	648.93	
		Note: Requires E2 or E3 enclosure. ATEX units have circuit energy limitations that limit maximum flows to approximately 50% of non-ATEX units. Consult gas tables for details.		
46 82 83 00-2250	EA	1/4" NPT Female 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N1)	9,485.16	147.52
46 82 83 00-2251	EA	1/2" NPT Male 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N2)	9,488.92	150.52
46 82 83 00-2252	EA	3/4" NPT Male 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N3)	9,502.34	161.26
46 82 83 00-2253	EA	1" NPT Male 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N4)	9,058.00	170.03
46 82 83 00-2254	EA	1-1/2" NPT Male 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N5)	9,087.06	193.27
46 82 83 00-2255	EA	2" NPT Male 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N6)	9,365.44	206.67
46 82 83 00-2256	EA	3" NPT Male 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N7)	9,634.39	266.90

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2257	EA	4" NPT Male 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N8)	10,228.28	287.15
46 82 83 00-2258	EA	6" NPT Male 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N9)	12,356.31	310.17
46 82 83 00-2259	EA	8" NPT Male 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S N10)	16,194.05	336.37
46 82 83 00-2260	EA	1/2" ANSI Class 150 Flange 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S F2)	9,544.77	177.08
46 82 83 00-2261	EA	3/4" ANSI Class 150 Flange 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S F3)	9,556.74	186.65
46 82 83 00-2262	EA	1" ANSI Class 150 Flange 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S F4)	9,598.92	220.40
46 82 83 00-2263	EA	1-1/2" ANSI Class 150 Flange 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S F5)	9,630.41	245.27
46 82 83 00-2264	EA	2" ANSI Class 150 Flange 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S F6)	10,240.97	279.18
46 82 83 00-2265	EA	3" ANSI Class 150 Flange 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S F7)	11,134.59	323.30
46 82 83 00-2266	EA	4" ANSI Class 150 Flange 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S F8)	12,807.09	461.48
46 82 83 00-2267	EA	6" ANSI Class 150 Flange 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S F9)	16,599.46	551.91
46 82 83 00-2268	EA	8" ANSI Class 150 Flange, 316 Stainless Steel FlatTrak™ In-line Mass Flow Meter With Flow Conditioner (Sierra 780S F10)	23,228.00	666.59
46 82 83 00-2269	EA	Hazardous Area Location Electronics Enclosure, NEMA 4X Mounted Directly On Probe (Sierra 780S E2)	818.99	59.82
46 82 83 00-2270	EA	Remote Hazardous-Area Location Electronics Enclosure (IP66) (Sierra 780S E3) Note: Specify cable length in parenthesis. Maximum 200' from flow body; includes strain relief on end of probe and mounting bracket.	1,417.51	59.82
46 82 83 00-2271	LF	>10' Cable Length For Remote Hazardous-Area Location Electronics Enclosure (Sierra 780S)	7.21	
46 82 83 00-2272	EA	Remote Hazardous-Area Location Electronics Enclosure (IP66) With Junction Box (Sierra 780S E4) Note: Specify cable length in parenthesis. Maximum 200' from flow body; includes (IP66) junction box mounted on probe and mounting bracket (304SS). VTP E4 not cFMus, ATEX/IECEx, or CE approved.	1,741.98	59.82
46 82 83 00-2273	LF	>10' Cable Length For Remote Hazardous-Area Location Electronics Enclosure (Sierra 780S)	7.21	
46 82 83 00-2274	EA	Remote NEMA 4X (IP65) Electronics Enclosure With Junction Box (Sierra 780S EN4) Note: Mounted up to 200' away from the probe with junction box mounted on probe. Includes remote electronics enclosure mounting bracket and 1/2" female NPT connection.	1,142.80	59.82
46 82 83 00-2275	LF	>10' Cable Length For Remote NEMA 4X (IP65) Electronics Enclosure (Sierra 780S)	7.21	
46 82 83 00-2276	EA	100–240 Volt AC Input Power (Sierra 780S P3) Note: Not available with EN enclosures.	324.47	
46 82 83 00-2277	EA	0-10 Volt DC, Linear Output (Sierra 780S V3)	129.79	
46 82 83 00-2278	EA	2 x 12 Digit, Backlit, Digital Display (Sierra 780S DD) Note: LCD display indicates flow rate and totalized mass in engineering units. Simplifies configuration settings and provides system status information.	216.31	
46 82 83 00-2279	EA	Argon Calibration (Sierra 780S 1)	817.65	
46 82 83 00-2280	EA	Carbon Dioxide Calibration (Sierra 780S 2)	817.65	
46 82 83 00-2281	EA	Chlorine Correlation Calibration (Sierra 780S 3)	317.98	
46 82 83 00-2282	EA	Digester Gas Calibration (Sierra 780S 4)	953.93	
46 82 83 00-2283	EA	Digester Gas Correlation Calibration (Sierra 780S 5)	317.98	
46 82 83 00-2284	EA	Helium Calibration (Sierra 780S 6)	817.65	
46 82 83 00-2285	EA	Hydrogen Calibration (Sierra 780S 7)	2,566.53	
46 82 83 00-2286	EA	Methane Calibration (Sierra 780S 8)	953.93	
46 82 83 00-2287	EA	Methane Correlation Calibration (Sierra 780S 9)	317.98	
46 82 83 00-2288	EA	Nitrogen Calibration (Sierra 780S 10)	817.65	
46 82 83 00-2289	EA	Oxygen Correlation Calibration (Sierra 780S 11)	317.98	
46 82 83 00-2290	EA	Propane Calibration (Sierra 780S 12)	953.93	
46 82 83 00-2291	EA	Propane Correlation Calibration (Sierra 780S 13)	317.98	
46 82 83 00-2292	EA	Totalizer Pulse Output Digital Communication (Sierra 780S Pulse) Note: Only available with E2/E3/E4 enclosures with DD. Available on all EN2 enclosures.	216.31	
46 82 83 00-2293	EA	Profibus DP Using A M12 Connector With Full Device Description Digital Communication Option (Sierra 780S DP1) Note: Available in E2/E4-P2 NAA only.	618.03	
46 82 83 00-2294	EA	Profibus DP Using A 2-Wire Terminal Block Connection With Full Device Description Digital Communication Option (Sierra 780S DP2) Note: Available in E2/E4-P2 configuration only.	618.03	
46 82 83 00-2295	EA	Modbus RTU With Full Device Description (P2 only); ATEX And FM Approvals Available Digital Communication Option (Sierra 780S MB)	618.03	
46 82 83 00-2296	EA	Foundation Fieldbus Full Device Description Digital Communication Option (Sierra 780S FF) Note: Available E2/ E4–P2 configuration only. FM approval available.	618.03	
46 82 83 00-2297	EA	Universal Variables, Flow Totalizer, K-Factor, User Full Scale And Instantaneous Flow Digital Communication (Sierra 780S HART) Note: Available E2-P2 /E4-P2) configuration only. FM approval available.	618.03	
46 82 83 00-2298	EA	Non-Return Valve, Tube And Purge Nozzle Option For Cleaning Probe Tips (Sierra 780S PURGE) Note: 30-120 PSIG external compressed air source required. Uses 1/4" compression fitting on purge tube process connection. Available with E2 only. Not available with HT option (contact factory in this case for external purge solution). Excludes on/off valve. NAA only. For 780S only (not available for UHP models).	1,514.17	
46 82 83 00-2299	EA	Material Certificate Option (Sierra 780S MC) Note: US Mill certifications on all wetted parts.	216.31	
46 82 83 00-2300	EA	Certificate Of Conformance Certificate Option (Sierra 780S CC)	108.16	
46 82 83 00-2301	EA	NACE Certificate For Sour Gas Option (Sierra 780S NACE)	108.16	
46 82 83 00-2302	EA	Leak Test Certificate Option (Sierra 780S LT)	108.16	
46 82 83 00-2303	EA	Pressure Test Certificate Option (Sierra 780S PT)	216.31	
46 82 83 00-2304	EA	Up To 4" Inline Meter, Cleaned For O2 Service (Includes Certification) Option (Sierra 780S O2C) Note: Inspected with ultra-violet light, double-bagged prior to shipment.	843.61	
46 82 83 00-2305	EA	Additional Instruction Manual (Sierra 780S-IM)	87.38	
46 82 83 00-2306	EA	1-Year Extended Warranty (Sierra 780S W1) Note: One extra year of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional year, two years of coverage total.	270.39	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2307	EA	2-Year Extended Warranty (Sierra 780S W2) Note: Two extra years of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional two years, three years of coverage total.	432.62	
46 82 83 00-2308		**FlowTrak™ Flow Conditioners** *(46 82 83 00-1508)*		
46 82 83 00-2309	EA	1" FlowTrak™ Flow Conditioner (Sierra Flo-1)	1,994.67	100.76
46 82 83 00-2310	EA	1-1/2" FlowTrak™ Flow Conditioner (Sierra Flo-1.5)	2,051.98	125.63
46 82 83 00-2311	EA	2" FlowTrak™ Flow Conditioner (Sierra Flo-2)	2,147.58	159.53
46 82 83 00-2312	EA	2-1/2" FlowTrak™ Flow Conditioner (Sierra Flo-2.5)	2,214.88	181.58
46 82 83 00-2313	EA	3" FlowTrak™ Flow Conditioner (Sierra Flo-3)	2,270.26	203.65
46 82 83 00-2314	EA	4" FlowTrak™ Flow Conditioner (Sierra Flo-4)	2,643.56	341.84
46 82 83 00-2315	EA	5" FlowTrak™ Flow Conditioner (Sierra Flo-5)	3,019.82	387.05
46 82 83 00-2316	EA	6" FlowTrak™ Flow Conditioner (Sierra Flo-6)	3,423.86	432.27
46 82 83 00-2317	EA	8" FlowTrak™ Flow Conditioner (Sierra Flo-8)	3,912.76	546.95
46 82 83 00-2318	EA	10" FlowTrak™ Flow Conditioner (Sierra Flo-10)	4,388.31	670.01
46 82 83 00-2319	EA	12 " FlowTrak™ Flow Conditioner (Sierra Flo-12)	4,912.75	813.12
46 82 83 00-2320	EA	14" FlowTrak™ Flow Conditioner (Sierra Flo-14)	5,440.32	957.16
46 82 83 00-2321	EA	16" FlowTrak™ Flow Conditioner (Sierra Flo-16)	5,907.51	1,052.88
46 82 83 00-2322	EA	18" FlowTrak™ Flow Conditioner (Sierra Flo-18)	6,396.62	1,167.74
46 82 83 00-2323	EA	20" FlowTrak™ Flow Conditioner (Sierra Flo-20)	6,929.60	1,316.11
46 82 83 00-2324	EA	22" FlowTrak™ Flow Conditioner (Sierra Flo-22)	7,464.08	1,465.66
46 82 83 00-2325	EA	24" FlowTrak™ Flow Conditioner (Sierra Flo-24)	7,998.56	1,615.22
46 82 83 00-2326	EA	30" FlowTrak™ Flow Conditioner (Sierra Flo-30)	11,511.88	2,632.20
46 82 83 00-2327	EA	38" FlowTrak™ Flow Conditioner (Sierra Flo-38)	14,543.15	3,948.31
46 82 83 00-2328	EA	Material Certificate (Sierra Flo MC) Note: US Mill certifications on all wetted parts.	266.11	
46 82 83 00-2329	EA	Certificate Of Conformance Certificate Option (Sierra Flo CC)	133.06	
46 82 83 00-2330	EA	Up To 4" Inline Meter, Cleaned For O2 Service (Includes Certification) Option (Sierra Flo O2C) Note: Inspected with ultra-violet light, double-bagged prior to shipment.	1,040.61	
46 82 83 00-2331	EA	1-Year Extended Warranty (Sierra Flo W1) Note: One extra year of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional year, two years of coverage total.	260.15	
46 82 83 00-2332	EA	2-Year Extended Warranty (Sierra Flo W2) Note: Two extra years of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional two years, three years of coverage total.	417.04	
46 82 83 00-2333		**ChlorineTrak™ 760 Series** *(46 82 83 00-1508)* Note: Specially designed flow body manufactured from Kynar® polyvinylidene fluoride resin. 18-30 Volt DC or 100-240 Volt AC input power with 3/4" diameter 6" long Hastelloy® probe. Includes "Smart Electronics" with PC configuration software. Application limits: 15 to 90 Degree F and 120 PSIG. CE approvals. Linear 0-5 Volt DC or 4-20 mA output signals. Modbus optional. No cost options include: Non-Agency Approved Meter - Code NAA; NEMA 4X (IP65) Enclosure. Mounted Directly On Probe - Code EN2; 18–30 Volt DC Input Power - Code P2; 0-5 Vol tDC, Linear Output - Code V1; 4-20 mA, Linear Output - Code V4; No Readout Display - Code NR; Chlorine Correlation Calibration - Code 3.		
46 82 83 00-2334	EA	1" ANSI Class 150 Flange-Kynar Flow Body With 6" Hastelloy Probe Chlorine-Trak™ In-line Mass Flow Meter (Sierra 760S K4) Note: Maximum flow 20 SCFM.	15,091.66	220.40
46 82 83 00-2335	EA	1-1/2" ANSI Class 150 Flange-Kynar Flow Body With 6" Hastelloy Probe Chlorine-Trak™ In-line Mass Flow Meter (Sierra 760S K5) Note: Maximum flow 45 SCFM.	15,256.21	245.27
46 82 83 00-2336	EA	2" ANSI Class 150 Flange-Kynar Flow Body With 6" Hastelloy Probe Chlorine-Trak™ In-line Mass Flow Meter (Sierra 760S K6) Note: Maximum flow 75 SCFM.	15,415.35	279.18
46 82 83 00-2337	EA	3" ANSI Class 150 Flange-Kynar Flow Body With 6" Hastelloy Probe Chlorine-Trak™ In-line Mass Flow Meter (Sierra 760S K7) Note: Maximum flow 175 SCFM.	15,970.96	323.30
46 82 83 00-2338	EA	4" ANSI Class 150 Flange-Kynar Flow Body With 6" Hastelloy Probe Chlorine-Trak™ In-line Mass Flow Meter (Sierra 760S K8) Note: Maximum flow 300 SCFM.	16,810.96	461.48
46 82 83 00-2339	EA	Hazardous Area Location Electronics Enclosure, NEMA 4X Mounted Directly On Probe (Sierra 760S E2)	1,882.79	551.91
46 82 83 00-2340	EA	Remote Hazardous-Area Location Electronics Enclosure (IP66) With Junction Box (Sierra 760S E4) Note: Specify cable length in parenthesis. Maximum 200' from flow body; includes (IP66) junction box mounted on probe and mounting bracket (304SS). VTP E4 not cFMus, ATEX/IECEx, or CE approved.	2,121.44	59.82
46 82 83 00-2341	LF	>10' Cable Length For Remote Hazardous-Area Location Electronics Enclosure (Sierra 760S)	10.92	
46 82 83 00-2342	EA	Remote NEMA 4X (IP65) Electronics Enclosure With Junction Box (Sierra 760S EN4) Note: Mounted up to 200' away from the probe with junction box mounted on probe. Includes remote electronics enclosure mounting bracket and 1/2" female NPT connection.	1,382.68	59.82
46 82 83 00-2343	LF	>10' Cable Length For Remote NEMA 4X (IP65) Electronics Enclosure (Sierra 760S)	10.92	
46 82 83 00-2344	EA	100–240 Volt AC Input Power (Sierra 760S P3) Note: Not available with EN enclosures.	401.15	
46 82 83 00-2345	EA	0-10 Volt DC, Linear Output (Sierra 760S V3)	160.86	
46 82 83 00-2346	EA	2 x 12 Digit, Backlit, Digital Display (Sierra 760S DD) Note: LCD display indicates flow rate and totalized mass in engineering units. Simplifies configuration settings and provides system status information.	266.11	
46 82 83 00-2347	EA	Totalizer Pulse Output Digital Communication Option (Sierra 760S Pulse) Note: Only available with E2/E4 enclosures with DD. Available on all EN2 enclosures.	266.11	
46 82 83 00-2348	EA	Profibus DP Using A M12 Connector With Full Device Description Digital Communication Option (Sierra 760S DP1) Note: Available in E2/E4-P2 NAA only.	762.59	
46 82 83 00-2349	EA	Profibus DP Using A 2-Wire Terminal Block Connection With Full Device Description Digital Communication Option (Sierra 760S DP2) Note: Available in E2/E4-P2 configuration only.	762.59	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2350	EA	Modbus RTU With Full Device Description (P2 Only) Digital Communication Option (Sierra 760S MB)	762.59	
46 82 83 00-2351	EA	Foundation Fieldbus Full Device Description Digital Communication Option (Sierra 760S FF) Note: Available E2/ E4–P2 configuration only; FM approval available.	762.59	
46 82 83 00-2352	EA	Universal Variables, Flow Totalizer, K-Factor, User Full Scale And Instantaneous Flow Digital Communication Option (Sierra 760S HART) Note: Available E2-P2 /E4-P2) configuration only. FM approval available.	762.59	
46 82 83 00-2353	EA	1-Year Extended Warranty (Sierra 760S W1) Note: One extra year of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional year, two years of coverage total.	260.15	
46 82 83 00-2354	EA	2-Year Extended Warranty (Sierra 760S W2) Note: Two extra years of warranty protection. Sierra's factory warranty is one year. This package buys the customer an additional two years, three years of coverage total.	417.04	

46 82 83 00-2355 Start Up And Training *(46 82 83 00-1508)*

46 82 83 00-2356	DAY	Sierra Instruments Start Up And Training	2,307.62	

46 82 83 00-2357 Flow Equipment (Toshiba) *(46 82 83 00-0099)*

46 82 83 00-2358 Integral Type, PFA Teflon Liner, Electromagnetic Flow Meter (Toshiba LF654) *(46 82 83 00-2357)*

46 82 83 00-2359	EA	1/2" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654DL1FCCAAF2)	5,318.88	62.39
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2360	EA	1" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654EL1FCCAAF2)	5,616.92	98.10
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2361	EA	1-1/4" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654SL1FCCAAF2)	5,699.44	113.04
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2362	EA	1-1/2" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654FL1FCCAAF2)	5,743.29	143.18
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2363	EA	2" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654GL1FCCAAF2)	5,916.95	173.31
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2364	EA	2-1/2" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654WL1FCCAAF2)	6,519.64	189.07
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2365	EA	3" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654HL1FCCAAF2)	6,555.75	221.25
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2366	EA	4" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654JL1FCCAAF2)	7,106.00	371.39
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2367	EA	6" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654KL1FCCAAF2)	8,205.29	469.63
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2368	EA	8" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654LL1FCCAAF2)	9,656.84	594.22
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2369	EA	10" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654ML1FCCAAF2)	13,017.12	727.93
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2370	EA	12" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654NL1FCCAAF2)	14,920.03	882.34
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2371	EA	14" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654PL1FCCAAF2)	19,136.23	1,039.90
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2372	EA	16" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654QL1FCCAAF2)	23,260.75	1,143.89
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
46 82 83 00-2373	EA	18" Integral Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654RL1FCCAAF2)	28,507.24	1,268.68
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	

46 82 83 00-2374 Remote Type, PFA Teflon Liner, Electromagnetic Flow Meter (Toshiba LF654) *(46 82 83 00-2357)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2375	EA	1/2" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654DM1FCAAF)	3,211.40	62.39
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2376	EA	1" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654EM1FCAAF)	3,509.43	98.10
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2377	EA	1-1/4" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654SM1FCAAF)	3,591.96	113.04
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2378	EA	1-1/2" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654FM1FCAAF)	3,635.81	143.18
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2379	EA	2" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654GM1FCAAF)	3,809.46	173.31
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2380	EA	2-1/2" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654WM1FCAAF)	4,412.16	189.07
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2381	EA	3" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654HM1FCAAF)	4,448.27	221.25
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2382	EA	4" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654JM1FCAAF)	4,998.52	371.39
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2383	EA	6" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654KM1FCAAF)	6,097.81	469.63
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2384	EA	8" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654LM1FCAAF)	7,549.36	594.22
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2385	EA	10" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654MM1FCAAF)	10,909.64	727.93
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2386	EA	12" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654NM1FCAAF)	12,812.55	882.34
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2387	EA	14" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654PM1FCAAF)	17,028.74	1,039.90
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2388	EA	16" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654QM1FCAAF)	21,153.27	1,143.89
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2389	EA	18" Remote Type, Toshiba Lay Length, PFA Teflon Liner, Hastelloy C Electrodes, ANSI 150 Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654RM1FCAAF)	26,399.75	1,268.68
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

46 82 83 00-2390 Integral Type, Hard Rubber Liner, Electromagnetic Flow Meter (Toshiba LF654) *(46 82 83 00-2357)*

46 82 83 00-2391	EA	4" Integral Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring, 120 Volt AC HART Integral Converter Electromagnetic Flow Meter (Toshiba LF654JL1BECAAF2)	6,636.30	371.39
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
46 82 83 00-2392	EA	6" Integral Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring, 120 Volt AC HART Integral Converter Electromagnetic Flow Meter (Toshiba LF654KL1BECAAF2)	7,383.31	469.63
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
46 82 83 00-2393	EA	8" Integral Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring, 120 Volt AC HART Integral Converter Electromagnetic Flow Meter (Toshiba LF654LL1BECAAF2)	8,120.01	594.22
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
46 82 83 00-2394	EA	10" Integral Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring, 120 Volt AC HART Integral Converter Electromagnetic Flow Meter (Toshiba LF654ML1BECAAF2)	11,014.70	727.93
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
46 82 83 00-2395	EA	12" Integral Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring, 120 Volt AC HART Integral Converter Electromagnetic Flow Meter (Toshiba LF654NL1BECAAF2)	13,043.28	882.34
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
46 82 83 00-2396	EA	14" Integral Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring, 120 Volt AC HART Integral Converter Electromagnetic Flow Meter (Toshiba LF654PL1BECAAF2)	16,416.89	1,039.90
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2397	EA	16" Integral Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring, 120 Volt AC HART Integral Converter Electromagnetic Flow Meter (Toshiba LF654QL1BECAAF2)	18,685.27	1,143.89
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
46 82 83 00-2398	EA	18" Integral Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring, 120 Volt AC HART Integral Converter Electromagnetic Flow Meter (Toshiba LF654RL1BECAAF2)	22,734.84	1,268.68
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 120 VAC Profibus Integral Converter Code 2P, Add	*1,236.06*	
		For 24 Volt DC Hart Integral Converter Code D, Add	*721.04*	
		For 24 Volt DC Profibus Integral Converter Code DP, Add	*1,957.10*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	

46 82 83 00-2399 Remote Type, Hard Rubber Liner, Electromagnetic Flow Meter (Toshiba LF654) *(46 82 83 00-2357)*

46 82 83 00-2400	EA	4" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654JL1BECAAF)	4,528.82	371.39
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2401	EA	6" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654KL1BECAAF)	5,275.83	469.63
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2402	EA	8" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654LL1BECAAF)	6,012.53	594.22
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2403	EA	10" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654ML1BECAAF)	8,907.22	727.93
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2404	EA	12" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654NL1BECAAF)	10,935.80	882.34
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2405	EA	14" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654PL1BECAAF)	14,309.41	1,039.90
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2406	EA	16" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654QL1BECAAF)	16,577.79	1,143.89
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2407	EA	18" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, Stainless Steel Electrodes, ANSI 150 Carbon Steel Flange, Carbon Steel Case, cFMus (Class 1 Division 2), IP67 (NEMA 4X), 316 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF654RL1BECAAF)	20,627.35	1,268.68
		For Titanium (Ti) Electrode, Add	*791.08*	
		For Platinum (Pt-Ir) Electrode, Add	*3,349.72*	
		For Tantalum (Ta) Electrode, Add	*2,395.90*	
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

46 82 83 00-2408 Remote Type, Chloroprene Liner, Electromagnetic Flow Meter (Toshiba LF450) *(46 82 83 00-2357)*

46 82 83 00-2409	EA	20" Remote Type, Chloroprene Liner, 316L Stainless Steel Electrodes, ANSI 150 Flange, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF4505MCBEJAAB)	23,588.92	1,502.02
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
46 82 83 00-2410	EA	24" Remote Type, Chloroprene Liner, 316L Stainless Steel Electrodes, ANSI 150 Flange, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF4506MCBEJAAB)	28,751.80	1,843.39
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	

46 82 83 00-2411 Remote Type, Natural Rubber Liner, Electromagnetic Flow Meter (Toshiba LF664) *(46 82 83 00-2357)*

46 82 83 00-2412	EA	20" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF66450BCKNBAF)	19,097.91	1,502.02
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2413	EA	24" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF66460BCKNBAF)	23,780.78	1,843.39
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2414	EA	28" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF66470BCKNBAF)	30,645.29	2,423.72
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2415	EA	30" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF66475BCKNBAF)	34,800.77	3,004.05
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2416	EA	32" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF66480BCKNBAF)	38,852.57	3,504.73
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2417	EA	36" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF66490BCKNBAF)	46,344.72	4,005.40
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2418	EA	40" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF664A0BCKNBAF)	62,705.17	5,006.73
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2419	EA	42" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF664A1BCKNBAF)	70,920.00	6,008.10
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2420	EA	48" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF664A2BCKNBAF)	89,447.26	7,510.12
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2421	EA	54" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF664A3BCKNBAF)	110,094.35	9,012.14
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2422	EA	60" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF664A5BCKNBAF)	135,350.47	10,814.57
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2423	EA	66" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF664A7BCKNBAF)	155,469.80	11,896.02
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2424	EA	72" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF664A8BCKNBAF)	179,832.93	12,977.48
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2425	EA	78" Remote Type, Toshiba Lay Length, Natural Rubber Liner, 316L Stainless Steel Electrodes, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LF664A9BCKNBAF)	204,316.90	14,157.26
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

46 82 83 00-2426 Remote Type, Hard Rubber Liner, Electromagnetic Flow Meter (Toshiba LC664) *(46 82 83 00-2357)*

46 82 83 00-2427	EA	20" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC66450BCKEBAF)	20,987.02	1,502.02
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2428	EA	24" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC66460BCKEBAF)	27,023.38	1,843.39
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2429	EA	28" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC66470BCKEBAF)	37,460.10	2,423.72
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2430	EA	30" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC66475BCKEBAF)	42,888.72	3,004.05
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2431	EA	32" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC66480BCKEBAF)	47,581.22	3,504.73
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2432	EA	36" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC66490BCKEBAF)	57,469.26	4,005.40
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2433	EA	40" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC664A0BCKEBAF)	76,194.70	5,006.73
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2434	EA	42" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC664A1BCKEBAF)	84,409.53	6,008.10
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2435	EA	48" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC664A2BCKEBAF)	108,247.73	7,510.12
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2436	EA	54" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC664A3BCKEBAF)	133,280.77	9,012.14
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2437	EA	60" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC664A5BCKEBAF)	164,344.32	10,814.57
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2438	EA	66" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC664A7BCKEBAF)	188,128.57	11,896.02
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2439	EA	72" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC664A8BCKEBAF)	219,337.41	12,977.48
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	
46 82 83 00-2440	EA	78" Remote Type, Toshiba Lay Length, NSF Approved Hard Rubber Liner, 316L Stainless Steel Electrode, ANSI 150, AWWA Class D Flanges, Carbon Steel Case, IP67 (NEMA 4), 304 Stainless Steel Grounding Ring Electromagnetic Flow Meter (Toshiba LC664A9BCKEBAF)	254,700.76	14,157.26
		For 100-240 Volt AC, 50/60 Hz, 110 Volt DC Hart Code 11, Add	*2,725.51*	
		For 24 Volt DC Hart Code 12, Add	*3,835.91*	
		For 100-240 VAC Profibus Code 21, Add	*4,752.65*	
		For 100-240 VAC Modbus Code 31, Add	*4,752.65*	
		For 24 Volt DC Profibus Code 22, Add	*5,372.74*	
		For 24 Volt DC Modbus Code 32, Add	*5,372.74*	

46 82 83 00-2441 Microwave Density/Consistency Meter (Toshiba LQ500) *(46 82 83 00-2357)*

46 82 83 00-2442	EA	2" Spool Style, Separate Mounting Type, SCS14A Cast Pipe, UL/CUL Class I, Division II Certified, Microwave Density/Consistency Meter (Toshiba LQ500A05CCAA)	48,629.00	173.31
		For Teflon PFA Coating For Sticky Application (LQ500A05CCBA), Add	*3,708.18*	
		For 20 M Cable (LQ500CABLE20M), Add	*994.00*	
		For 30 M Cable (LQ500CABLE30M), Add	*1,169.11*	
		For 40 M Cable (LQ500CABLE40M), Add	*1,287.56*	
		For 50 M Cable (LQ500CABLE50M), Add	*1,412.20*	
46 82 83 00-2443	EA	3" Spool Style, Separate Mounting Type, SCS14A Cast Pipe, UL/CUL Class I, Division II Certified, Microwave Density/Consistency Meter (Toshiba LQ500A08CCAA)	48,688.92	221.25
		For Teflon PFA Coating For Sticky Application (LQ500A08CCBA), Add	*4,120.20*	
		For 20 M Cable (LQ500CABLE20M), Add	*994.00*	
		For 30 M Cable (LQ500CABLE30M), Add	*1,169.11*	
		For 40 M Cable (LQ500CABLE40M), Add	*1,287.56*	
		For 50 M Cable (LQ500CABLE50M), Add	*1,412.20*	
46 82 83 00-2444	EA	4" Spool Style, Separate Mounting Type, SCS14A Cast Pipe, UL/CUL Class I, Division II Certified, Microwave Density/Consistency Meter (Toshiba LQ500A10CCAA)	49,906.64	371.39
		For Teflon PFA Coating For Sticky Application (LQ500A10CCBA), Add	*4,532.22*	
		For 20 M Cable (LQ500CABLE20M), Add	*994.00*	
		For 30 M Cable (LQ500CABLE30M), Add	*1,169.11*	
		For 40 M Cable (LQ500CABLE40M), Add	*1,287.56*	
		For 50 M Cable (LQ500CABLE50M), Add	*1,412.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2445	EA	6" Spool Style, Separate Mounting Type, SCS14A Cast Pipe, UL/CUL Class I, Division II Certified, Microwave Density/Consistency Meter (Toshiba LQ500A15CCAA)	50,029.44	469.63
		For Teflon PFA Coating For Sticky Application (LQ500A15CCBA), Add	*5,768.28*	
		For 20 M Cable (LQ500CABLE20M), Add	*994.00*	
		For 30 M Cable (LQ500CABLE30M), Add	*1,169.11*	
		For 40 M Cable (LQ500CABLE40M), Add	*1,287.56*	
		For 50 M Cable (LQ500CABLE50M), Add	*1,412.20*	
46 82 83 00-2446	EA	8" Spool Style, Separate Mounting Type, SCS14A Cast Pipe, UL/CUL Class I, Division II Certified, Microwave Density/Consistency Meter (Toshiba LQ500A20CCAA)	51,215.23	594.22
		For Teflon PFA Coating For Sticky Application (LQ500A20CCBA), Add	*7,004.34*	
		For 20 M Cable (LQ500CABLE20M), Add	*994.00*	
		For 30 M Cable (LQ500CABLE30M), Add	*1,169.11*	
		For 40 M Cable (LQ500CABLE40M), Add	*1,287.56*	
		For 50 M Cable (LQ500CABLE50M), Add	*1,412.20*	
46 82 83 00-2447	EA	10" Spool Style, Separate Mounting Type, SCS14A Cast Pipe, UL/CUL Class I, Division II Certified, Microwave Density/Consistency Meter (Toshiba LQ500A25CCAA)	51,897.39	727.93
		For Teflon PFA Coating For Sticky Application (LQ500A25CCBA), Add	*7,828.38*	
		For 20 M Cable (LQ500CABLE20M), Add	*994.00*	
		For 30 M Cable (LQ500CABLE30M), Add	*1,169.11*	
		For 40 M Cable (LQ500CABLE40M), Add	*1,287.56*	
		For 50 M Cable (LQ500CABLE50M), Add	*1,412.20*	
46 82 83 00-2448	EA	12" Spool Style, Separate Mounting Type, SCS14A Cast Pipe, UL/CUL Class I, Division II Certified, Microwave Density/Consistency Meter (Toshiba LQ500A30CCAA)	52,605.43	882.34
		For Teflon PFA Coating For Sticky Application (LQ500A30CCBA), Add	*9,476.46*	
		For 20 M Cable (LQ500CABLE20M), Add	*994.00*	
		For 30 M Cable (LQ500CABLE30M), Add	*1,169.11*	
		For 40 M Cable (LQ500CABLE40M), Add	*1,287.56*	
		For 50 M Cable (LQ500CABLE50M), Add	*1,412.20*	
46 82 83 00-2449	EA	LQ500 Programming Software (Toshiba 3Y8A1606Z002)	1,236.06	
46 82 83 00-2450	EA	RS232 Hart Modem For Density Meter (Toshiba VIATORRS232HART)	1,648.08	

46 82 83 00-2451 Toshiba Cable *(46 82 83 00-2357)*

46 82 83 00-2452	LF	Toshiba Cable 2A	5.15	
46 82 83 00-2453	LF	Toshiba Cable 3A	5.15	

46 82 83 00-2454 Grounding Ring Material Options *(46 82 83 00-2357)*

46 82 83 00-2455	EA	For 316L Stainless Steel Grounding Ring, Add On 1/2" Meter	939.41	
46 82 83 00-2456	EA	For 316L Stainless Steel Grounding Ring, Add On 1" Meter	1,011.51	
46 82 83 00-2457	EA	For 316L Stainless Steel Grounding Ring, Add On 1-1/2" Meter	1,019.75	
46 82 83 00-2458	EA	For 316L Stainless Steel Grounding Ring, Add On 2" Meter	1,139.24	
46 82 83 00-2459	EA	For 316L Stainless Steel Grounding Ring, Add On 3" Meter	1,652.20	
46 82 83 00-2460	EA	For 316L Stainless Steel Grounding Ring, Add On 4" Meter	2,039.50	
46 82 83 00-2461	EA	For 316L Stainless Steel Grounding Ring, Add On 6" Meter	3,261.14	
46 82 83 00-2462	EA	For 316L Stainless Steel Grounding Ring, Add On 8" Meter	4,311.79	
46 82 83 00-2463	EA	For 316L Stainless Steel Grounding Ring, Add On 10" Meter	5,924.85	
46 82 83 00-2464	EA	For 316L Stainless Steel Grounding Ring, Add On 12" Meter	6,658.24	
46 82 83 00-2465	EA	For 316L Stainless Steel Grounding Ring, Add On 14" Meter	7,820.14	
46 82 83 00-2466	EA	For 316L Stainless Steel Grounding Ring, Add On 16" Meter	8,860.49	
46 82 83 00-2467	EA	For Titanium (Ti) Grounding Ring, Add On 1/2" Meter	1,198.98	
46 82 83 00-2468	EA	For Titanium (Ti) Grounding Ring, Add On 1" Meter	1,726.36	
46 82 83 00-2469	EA	For Titanium (Ti) Grounding Ring, Add On 1-1/2" Meter	2,179.59	
46 82 83 00-2470	EA	For Titanium (Ti) Grounding Ring, Add On 2" Meter	2,402.08	
46 82 83 00-2471	EA	For Titanium (Ti) Grounding Ring, Add On 3" Meter	3,234.36	
46 82 83 00-2472	EA	For Titanium (Ti) Grounding Ring, Add On 4" Meter	3,572.21	
46 82 83 00-2473	EA	For Titanium (Ti) Grounding Ring, Add On 6" Meter	5,069.91	
46 82 83 00-2474	EA	For Titanium (Ti) Grounding Ring, Add On 8" Meter	6,310.09	
46 82 83 00-2475	EA	For Titanium (Ti) Grounding Ring, Add On 10" Meter	8,940.83	
46 82 83 00-2476	EA	For Titanium (Ti) Grounding Ring, Add On 12" Meter	9,832.86	
46 82 83 00-2477	EA	For Titanium (Ti) Grounding Ring, Add On 14" Meter	11,724.03	
46 82 83 00-2478	EA	For Titanium (Ti) Grounding Ring, Add On 16" Meter	13,458.63	
46 82 83 00-2479	EA	For Hastelloy C Grounding Ring, Add On 1/2" Meter	1,893.23	
46 82 83 00-2480	EA	For Hastelloy C Grounding Ring, Add On 1" Meter	2,395.90	
46 82 83 00-2481	EA	For Hastelloy C Grounding Ring, Add On 1-1/2" Meter	2,867.66	
46 82 83 00-2482	EA	For Hastelloy C Grounding Ring, Add On 2" Meter	3,156.07	
46 82 83 00-2483	EA	For Hastelloy C Grounding Ring, Add On 3" Meter	7,387.52	
46 82 83 00-2484	EA	For Hastelloy C Grounding Ring, Add On 4" Meter	9,264.27	
46 82 83 00-2485	EA	For Hastelloy C Grounding Ring, Add On 6" Meter	11,040.08	
46 82 83 00-2486	EA	For Hastelloy C Grounding Ring, Add On 8" Meter	17,875.49	
46 82 83 00-2487	EA	For Hastelloy C Grounding Ring, Add On 10" Meter	24,710.90	
46 82 83 00-2488	EA	For Hastelloy C Grounding Ring, Add On 12" Meter	31,018.93	
46 82 83 00-2489	EA	For Hastelloy C Grounding Ring, Add On 14" Meter	38,909.11	
46 82 83 00-2490	EA	For Hastelloy C Grounding Ring, Add On 16" Meter	47,320.50	

46 82 83 00-2491 Coating Options *(46 82 83 00-2357)*

46 82 83 00-2492	EA	For 0.5mm Epoxy Coating Option, Add	2,101.30	
46 82 83 00-2493	EA	For Epoxy Coat and Potting of Glands Submersible Option, Add	3,337.36	
46 82 83 00-2494	EA	For Potting of Glands Submersible Option, Add	1,236.06	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2495		**Start Up And Training** *(46 82 83 00-2357)*		
46 82 83 00-2496	DAY	Toshiba Start Up And Training	2,307.62	
46 82 83 00-2497		**Flow Equipment (Yokogawa)** *(46 82 83 00-0099)*		
46 82 83 00-2498		**Magnetic Flow Meters For Raw Sewage** *(46 82 83 00-2497)*		
46 82 83 00-2499	EA	12" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	21,230.67	813.59
46 82 83 00-2500	EA	14" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	27,668.76	957.16
46 82 83 00-2501	EA	16" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	34,368.06	1,052.88
46 82 83 00-2502	EA	20" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	48,532.77	1,316.11
46 82 83 00-2503	EA	24" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	54,502.44	1,615.22
46 82 83 00-2504	EA	28" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	66,852.29	2,123.71
46 82 83 00-2505	EA	36" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	88,031.50	3,509.60
46 82 83 00-2506	EA	40" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	114,585.93	4,387.01
46 82 83 00-2507	EA	44" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	127,081.87	5,922.45
46 82 83 00-2508	EA	48" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	138,834.64	6,580.51
46 82 83 00-2509	EA	54" Diameter Magnetic Flowmeter For Raw Sewage, Fluorocarbon Lining, ANSI 150 Flange, Stainless Steel 316 Electrode Material, 1/2" NPT. Model: Yokogawa #AMXXXDG-AA1-LSA/00	135,729.51	7,896.60
46 82 83 00-2510		**Magnetic Flow Meters For Chlorine Service** *(46 82 83 00-2497)*		
46 82 83 00-2511	EA	1" Diameter Magnetic Flowmeter For Chlorine Service, Explosion Proof, PFA Lining, ANSO 150 Flange, Tantalum Electrode Material, 1/2" NPT. Model: Yokogawa #AEXXXDN-AA1-TTA/FF1	11,043.08	89.74
46 82 83 00-2512	EA	2" Diameter Magnetic Flowmeter For Chlorine Service, Explosion Proof, PFA Lining, ANSO 150 Flange, Tantalum Electrode Material, 1/2" NPT. Model: Yokogawa #AEXXXDN-AA1-TTA/FF1	11,959.75	159.53
46 82 83 00-2513	EA	3" Diameter Magnetic Flowmeter For Chlorine Service, Explosion Proof, PFA Lining, ANSO 150 Flange, Tantalum Electrode Material, 1/2" NPT. Model: Yokogawa #AEXXXDN-AA1-TTA/FF1	12,860.42	203.40
46 82 83 00-2514	EA	4" Diameter Magnetic Flowmeter For Chlorine Service, Explosion Proof, PFA Lining, ANSO 150 Flange, Tantalum Electrode Material, 1/2" NPT. Model: Yokogawa #AEXXXDN-AA1-TTA/FF1	14,309.13	341.84
46 82 83 00-2515	EA	6" Diameter Magnetic Flowmeter For Chlorine Service, Explosion Proof, PFA Lining, ANSO 150 Flange, Tantalum Electrode Material, 1/2" NPT. Model: Yokogawa #AEXXXDN-AA1-TTA/FF1	16,620.49	432.27
46 82 83 00-2516	EA	8" Diameter Magnetic Flowmeter For Chlorine Service, Explosion Proof, PFA Lining, ANSO 150 Flange, Tantalum Electrode Material, 1/2" NPT. Model: Yokogawa #AEXXXDN-AA1-TTA/FF1	20,484.11	550.37
46 82 83 00-2517	EA	10" Diameter Magnetic Flowmeter For Chlorine Service, Explosion Proof, PFA Lining, ANSO 150 Flange, Tantalum Electrode Material, 1/2" NPT. Model: Yokogawa #AEXXXDN-AA1-TTA/FF1	25,342.08	670.01
46 82 83 00-2518	EA	12" Diameter Magnetic Flowmeter For Chlorine Service, Explosion Proof, PFA Lining, ANSO 150 Flange, Tantalum Electrode Material, 1/2" NPT. Model: Yokogawa #AEXXXDN-AA1-TTA/FF1	27,979.41	813.59
46 82 83 00-2519		**Flow Equipment (E+H)** *(46 82 83 00-0099)*		
46 82 83 00-2520	EA	12", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C3H-AALHP2DUA12GA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	16,139.98	882.34
		For Grounding Disc/Protection Disc Pair, Add	*1,162.64*	
46 82 83 00-2521	EA	14", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C3F-AALHP2DUA1KGA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	16,182.31	1,039.90
		For Grounding Disc/Protection Disc Pair, Add	*2,043.85*	
46 82 83 00-2522	EA	16", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C4H-AALHP2DUA1KGA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	18,051.69	1,143.89
		For Grounding Disc/Protection Disc Pair, Add	*2,547.43*	
46 82 83 00-2523	EA	18", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C4F-AALHP2DUA1KGA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	19,185.70	1,268.68
		For Grounding Disc/Protection Disc Pair, Add	*2,839.67*	
46 82 83 00-2524	EA	20", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C5H-AALHP2DUA1KGA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	20,315.38	1,429.87
		For Grounding Disc/Protection Disc Pair, Add	*2,967.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2525	EA	24", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C6H-AALHP2DUA1KGA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	22,961.85	1,754.83
		For Grounding Disc/Protection Disc Pair, Add	*3,680.50*	
46 82 83 00-2526	EA	30", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C7F-AALHP2DUW1KGA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	27,575.19	2,859.73
		For Grounding Disc/Protection Disc Pair, Add	*5,359.04*	
46 82 83 00-2527	EA	36", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C9H-AALHP2DUW1KGA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	34,134.37	3,812.98
		For Grounding Disc/Protection Disc Pair, Add	*6,530.06*	
46 82 83 00-2528	EA	48", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4CT2-AALHP2DUW1KGA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	65,839.03	7,149.33
		For Grounding Disc/Protection Disc Pair, Add	*8,207.61*	
46 82 83 00-2529	EA	42", Non-Hazardous Area, Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4CV0-AALHP2DUW1KGA) Note: Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange ASME B16.5; Calibration Flow: 0.5%.	44,423.12	5,719.47
		For Grounding Disc/Protection Disc Pair, Add	*8,750.51*	
46 82 83 00-2530	EA	54", Hard Rubber Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4CV3-AALHP2DHW1KGA) Note: Non-hazardous area; Power Supply: 100-240VAC/24VAC/DC; Outputs: 4-20mA HART, pulse/frequency/switch; Remote Housing: aluminum, coated; Remote Version: 30' coil + signal cable; Electrical Connection: 1/2" NPT; Process Connection: Class D, carbon steel, flange AWWA C207; Calibration Flow: 0.5%.	80,047.65	8,579.19
		For Grounding Disc/Protection Disc Pair, Add	*5,469.29*	
46 82 83 00-2531	EA	1", PTFE Liner, Alloy C-22, Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P25-ELHB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	9,250.19	98.10
		For Grounding Disc/Protection Disc Pair, Add	*1,021.19*	
46 82 83 00-2532	EA	1-1/2", PTFE Liner, Alloy C-22, Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P40-ELHB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	9,317.75	143.16
		For Grounding Disc/Protection Disc Pair, Add	*1,164.04*	
46 82 83 00-2533	EA	2", PTFE Liner, Alloy C-22, Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P50-ELHB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	9,355.44	173.33
		For Grounding Disc/Protection Disc Pair, Add	*1,248.04*	
46 82 83 00-2534	EA	3", PTFE Liner, Alloy C-22, Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P80-ELHB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	10,330.58	221.27
		For Grounding Disc/Protection Disc Pair, Add	*1,458.16*	
46 82 83 00-2535	EA	4", PTFE Liner, Alloy C-22, Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P1H-ELHB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	11,114.13	371.39
		For Grounding Disc/Protection Disc Pair, Add	*1,752.24*	
46 82 83 00-2536	EA	6", PTFE Liner, Alloy C-22, Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P1F-ELHB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	13,080.91	469.63
		For Grounding Disc/Protection Disc Pair, Add	*2,592.70*	
46 82 83 00-2537	EA	8", PTFE Liner, Alloy C-22, Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P2H-ELHB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	15,311.73	594.22
		For Grounding Disc/Protection Disc Pair, Add	*3,474.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2538	EA	10", PTFE Liner, Alloy C-22, Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P2F-ELHB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	21,131.41	727.93
		For Grounding Disc/Protection Disc Pair, Add	*4,273.35*	
46 82 83 00-2539	EA	12", PTFE Liner, Alloy C-22, Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P3H-ELHB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	26,633.88	882.34
		For Grounding Disc/Protection Disc Pair, Add	*4,651.40*	
46 82 83 00-2540	EA	4", PTFE Liner, 316L SS Electrodes, Magnetic Flow Meter (E+H 53P1H-ELGB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	10,945.64	371.39
		For Grounding Disc/Protection Disc Pair, Add	*575.80*	
46 82 83 00-2541	EA	6", PTFE Liner, 316L SS Electrodes, Magnetic Flow Meter (E+H 53P1F-ELGB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	12,918.93	469.63
		For Grounding Disc/Protection Disc Pair, Add	*819.52*	
46 82 83 00-2542	EA	8", PTFE Liner, 316L SS Electrodes, Magnetic Flow Meter (E+H 53P2H-ELGB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	15,149.77	594.22
		For Grounding Disc/Protection Disc Pair, Add	*869.92*	
46 82 83 00-2543	EA	10", PTFE Liner, 316L SS Electrodes, Magnetic Flow Meter (E+H 53P2F-ELGB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	20,969.45	727.93
		For Grounding Disc/Protection Disc Pair, Add	*970.83*	
46 82 83 00-2544	EA	12", PTFE Liner, 316L SS Electrodes, Magnetic Flow Meter (E+H 53P3H-ELGB1RK2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, sensor IP68 NEMA 6P; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + Touch control WEA=EN adjustment; Software Feature: factory setup; basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2%, additional test	26,471.92	882.34
		For Grounding Disc/Protection Disc Pair, Add	*1,164.04*	
46 82 83 00-2545	EA	Flow And Energy Computer For Gases, Liquids And Steam (E+H RMC621-A31AAA1BA1) Note: Differential pressure calculation DIN 5167; Basic Ffunctions: Slot A + E:1x RS232 + 1x RS485.3x LPS = loop power supply; Input A: 2x 0/4-20mA/PFM/pulse; Output A: 1x relay; Input E: 2x Pt100/500/1000; Output E: 2x 0/4-20mA/pulse; Calculation formula IAPWS-IF97; Real gas formula, NX19, OIML R117; Approval: UL listed, CSA GP.:: max. 3x Application:: max. 4 Media / instrument:: intrinsically safe inputs. Approval: Non-hazardous area; Operation: Panel 144x72mm; RS485 Power Supply: 90-250VAC; Slot B: Not selected; Slot C: Not selected; Slot D: Not selected; Software: basic version operation; Language: english; Communication: 1x RS232 + 1x RS485 + 1x Modbus; Additional Option: basic version.	4,267.71	129.99
46 82 83 00-2546	EA	FM NI Class I, Division 2/CSA, Class I, Division 2, ABCD + Zone 2, 8" To 24" Pipe, Clamp On, 1 Channel/1 Set, Ultrasonic Flow Meter (E+H 93PA1-EB2B00RCBAAA) Note: Flow Sensor: 4 to 160", 32 to 338 degree F, NEMA 6P; Sensor Holder: 2 to 160"; Sensor Cable: 30', -4 to 158 degree F; Cable Entry Sensor: gland; additional test; Certificate: without; Housing: wall aluminum, IP67 NEMA 4X; Cable Entry: 1/2" NPT; Power Supply; Display: 85-260VAC; WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup, basic version; Outputs: 4-20mA HART + frequency.	15,064.92	129.99
46 82 83 00-2547	EA	FM NI Class I, Division 2/CSA Class I, Division 2, ABCD + Zone 2C, 8" To 24" Pipe, Clamp On, 2 Channel/2 Set, Ultrasonic Flow Meter (E+H 93PA2-EB2B00RCBAAA) Note: Flow Sensor: 4 to 160", 32 to 338 degree F, NEMA 6P; Sensor Holder: 2 to 160"; Sensor Cable: 30', --4 to 158 degree F; Cable Entry Sensor: gland; additional test; Certificate: without; Housing: wall aluminum, IP67 NEMA 4XB; Cable Entry: 1/2" NPT; Power Supply; Display: 85-260VAC; WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Outputs: 4-20mA HART + frequency.	21,161.89	129.99
46 82 83 00-2548	EA	ATEX II 1/2GD+ IECEx Z0/1,21 Ex deia IIC Z= Zone , t-mass Thermal Mass Flow Meter (E+H 65I-30AA0AD15GBABA) Note: Insertion Tube Length: 13" material insertion tube; Sensor: stainless steel; Process Connection: 1" MNPT, thread ANSI, compression fitting, stainless steel; Seal: PEEK, -40 to +266 degree F; Surface Cleaning: basic version; Calibration: factory calibration, additional test, Certificate: basic version; Housing: field aluminum, IP67 NEMA 4X; Cable Entry: 1/2" NPT; Display; Operation: 85-260VAC, 2-line + push buttons adjustment; Software Feature: default gas (Air 14.692psia); Outputs: 4-20mA HART + frequency.	10,102.99	129.99
46 82 83 00-2549	EA	ATEX II 1/2GD+ IECEx Z0/1,21 Ex deia IIC Z= Zone, t-mass Thermal Mass Flow Meter (E+H 65I-30AA0AD15GBACA) Note: Insertion Tube Length: 13" material insertion tube; Sensor: stainless steel; Process Connection: 1" MNPT, thread ANSI, compression fitting, stainless steel; Seal: PEEK, -40 to +266 degree F; Surface Cleaning: basic version; Calibration: factory calibration, additional test, Certificate: basic version; Housing: field aluminum, IP67 NEMA 4X; Cable Entry: 1/2" NPT; Display; Operation: 85-260VAC, 2-line + push buttons adjustment; Software Feature: gas (customer specific); Outputs: 4-20mA HART + frequency.	10,097.10	129.99

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2550	EA	2", PTFE Liner, Titanium Electrodes, Magnetic Flow Meter (E+H 53P50-EL8B1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, IP67 NEMA 4X; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + touch control WEA= EN adjustment; Software Feature: factory setup, basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2% additional test.	9,980.06	173.33
		For Grounding Disc/Protection Disc Pair, Add	*1,878.33*	
46 82 83 00-2551	EA	3", PTFE Liner, Titanium Electrodes, Magnetic Flow Meter (E+H 53P80-EL8B1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, IP67 NEMA 4X; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + touch control WEA= EN adjustment; Software Feature: factory setup, basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2% additional test.	10,954.62	221.27
		For Grounding Disc/Protection Disc Pair, Add	*2,508.63*	
46 82 83 00-2552	EA	4", PTFE Liner, Titanium Electrodes, Magnetic Flow Meter (E+H 53P1H-EL8B1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, IP67 NEMA 4X; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + touch control WEA= EN adjustment; Software Feature: factory setup, basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2% additional test.	11,737.84	371.39
		For Grounding Disc/Protection Disc Pair, Add	*2,319.44*	
46 82 83 00-2553	EA	6", PTFE Liner, Titanium Electrodes, Magnetic Flow Meter (E+H 53P1F-EL8B1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, IP67 NEMA 4X; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + touch control WEA= EN adjustment; Software Feature: factory setup, basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2% additional test.	13,711.15	469.63
		For Grounding Disc/Protection Disc Pair, Add	*4,735.39*	
46 82 83 00-2554	EA	8", PTFE Liner, Titanium Electrodes, Magnetic Flow Meter (E+H 53P2H-EL8B1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, IP67 NEMA 4X; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + touch control WEA= EN adjustment; Software Feature: factory setup, basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2% additional test.	15,941.97	594.22
		For Grounding Disc/Protection Disc Pair, Add	*5,449.72*	
46 82 83 00-2555	EA	10", PTFE Liner, Titanium Electrodes, Magnetic Flow Meter (E+H 53P2F-EL8B1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, IP67 NEMA 4X; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + touch control WEA= EN adjustment; Software Feature: factory setup, basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2% additional test.	21,761.65	727.93
		For Grounding Disc/Protection Disc Pair, Add	*8,170.73*	
46 82 83 00-2556	EA	12", PTFE Liner, Titanium Electrodes, Magnetic Flow Meter (E+H 53P3H-EL8B1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA SIL HART + frequency; Housing: wall aluminum, IP67 NEMA 4X; Remote Version: 30' coil and signal cable; Display: 85-260VAC, WEA, 4-line + touch control WEA= EN adjustment; Software Feature: factory setup, basic version; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange ANSI B16.5; Calibration: 0.2% additional test.	27,264.06	882.34
		For Grounding Disc/Protection Disc Pair, Add	*6,953.74*	
46 82 83 00-2557	EA	12", Hard Rubber Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5W4C3H-53K3/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Design: insertion length short ISO/DVGW until DN400, DN450-2000 1:1; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, flange, ASME B16.5; Calibration Flow: 0.5%.	15,835.80	882.34
		For Grounding Disc/Protection Disc Pair, Add	*1,162.64*	
46 82 83 00-2558	EA	14", Hard Rubber Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5W4C3F-2J75/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Design: insertion length short ISO/DVGW until DN400, DN450-2000 1:1; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, flange, ASME B16.5; Calibration Flow: 0.5%.	19,178.47	1,039.90
		For Grounding Disc/Protection Disc Pair, Add	*2,043.85*	
46 82 83 00-2559	EA	16", Hard Rubber Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5W4C4H-3JH0/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Design: insertion length short ISO/DVGW until DN400, DN450-2000 1:1; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, flange, ASME B16.5; Calibration Flow: 0.5%.	21,322.11	1,143.89
		For Grounding Disc/Protection Disc Pair, Add	*2,547.43*	
46 82 83 00-2560	EA	18", Hard Rubber Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5W4C4F-1XC3/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Design: insertion length short ISO/DVGW until DN400, DN450-2000 1:1; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, flange, ASME B16.5; Calibration Flow: 0.5%.	22,602.89	1,268.68
		For Grounding Disc/Protection Disc Pair, Add	*2,841.18*	
46 82 83 00-2561	EA	24", Hard Rubber Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5W4C6H-3453/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Design: insertion length short ISO/DVGW until DN400, DN450-2000 1:1; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, flange, ASME B16.5; Calibration Flow: 0.5%.	26,919.17	1,754.83
		For Grounding Disc/Protection Disc Pair, Add	*3,680.50*	
46 82 83 00-2562	EA	30", Hard Rubber Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5W4C7F-1DQ4/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Design: insertion length short ISO/DVGW until DN400, DN450-2000 1:1; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, flange, ASME B16.5; Calibration Flow: 0.5%.	32,932.68	2,859.73
		For Grounding Disc/Protection Disc Pair, Add	*5,359.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2563	EA	36", Hard Rubber Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5W4C9H-1PC4/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Design: insertion length short ISO/DVGW until DN400, DN450-2000 1:1; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, flange, ASME B16.5; Calibration Flow: 0.5%.	40,781.95	3,812.98
		For Grounding Disc/Protection Disc Pair, Add	*6,534.09*	
46 82 83 00-2564	EA	FM XP Class I, Division 1, ABCD / CSA Class I, Division 1, ABCD + Zone 1, 8" To 24" Pipe, Clamp On, 1 Channel/1 Set, Ultrasonic Flow Meter (E+H 93PA1-EB2B00NGBAAA) ..... Note: Flow Sensor: 4 to 160", 32 to 338 degree F, NEMA 6P; Sensor Holder: 2 to 160"; Sensor Cable: 30', --4 to 158 degree F; Cable Entry Sensor: gland; additional test; Certificate: without; Housing: field aluminum, IP67 NEMA 4X; Cable Entry: 1/2" NPT; Power Supply; Display: 85-260VAC; WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup, basic version; Outputs: 4-20mA HART + frequency.	16,558.40	129.99
46 82 83 00-2565	EA	Portable Ultrasonic Flow Meter (E+H 93TA1-2FQ2/0) ..... Note: P Sensor set 1/2" to 2-1/2"/6MHz: not selected; P Sensor set 2" to 12"/2MHz: -40 to 176 degree F + installation set; P Sensor set 4" to 160"/1MHz: not selected; Sensor Cable: 30', PTFE, -40 to 338 degree F; Approval: Non-hazardous area; Operation language: WEA = EN; Accessory: rechargable battery pack, 93T, 4000 mAh.	11,711.31	129.99
46 82 83 00-2566	EA	2", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C50-57J2/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	6,359.05	173.33
		For Grounding Disc/Protection Disc Pair, Add	*408.02*	
46 82 83 00-2567	EA	3", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C80-5550/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	6,655.55	221.27
		For Grounding Disc/Protection Disc Pair, Add	*508.90*	
46 82 83 00-2568	EA	4", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C1H-6XL4/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	7,115.33	371.39
		For Grounding Disc/Protection Disc Pair, Add	*576.17*	
46 82 83 00-2569	EA	6", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C1F-2LT0/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	8,169.29	469.63
		For Grounding Disc/Protection Disc Pair, Add	*819.00*	
46 82 83 00-2570	EA	8", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C2H-5X15/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	9,238.82	594.22
		For Grounding Disc/Protection Disc Pair, Add	*870.47*	
46 82 83 00-2571	EA	10", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C2F-45W4/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	11,929.96	727.93
		For Grounding Disc/Protection Disc Pair, Add	*970.83*	
46 82 83 00-2572	EA	12", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C3H-2K37/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	14,577.96	882.34
		For Grounding Disc/Protection Disc Pair, Add	*1,164.04*	
46 82 83 00-2573	EA	14", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C3F-2316/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	16,182.31	1,039.90
		For Grounding Disc/Protection Disc Pair, Add	*2,046.36*	
46 82 83 00-2574	EA	16", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C4H-38M9/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	18,051.69	1,143.89
		For Grounding Disc/Protection Disc Pair, Add	*2,550.57*	
46 82 83 00-2575	EA	18", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C4F-21N0/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	19,185.70	1,268.68
		For Grounding Disc/Protection Disc Pair, Add	*2,844.69*	
46 82 83 00-2576	EA	20", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C5H-2PD4/0) ..... Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	20,315.38	1,429.87
		For Grounding Disc/Protection Disc Pair, Add	*2,967.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2577	EA	24", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C6H-2U50/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	22,961.85	1,754.83
		For Grounding Disc/Protection Disc Pair, Add	*3,680.50*	
46 82 83 00-2578	EA	30", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C7F-1H05/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	27,575.19	2,859.73
		For Grounding Disc/Protection Disc Pair, Add	*5,359.04*	
46 82 83 00-2579	EA	36", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C9H-1NL0/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	34,152.46	3,812.98
		For Grounding Disc/Protection Disc Pair, Add	*6,534.09*	
46 82 83 00-2580	EA	1", Polyamide Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5D4C25-18U6/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: compact, aluminum, coated; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150 ASME B16.5; Calibration Flow: 0.5%.	4,563.42	98.10
		For Grounding Disc/Protection Disc Pair, Add	*313.06*	
46 82 83 00-2581	EA	1-1/2", Polyamide Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5D4C40-16P1/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: compact, aluminum, coated; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150 ASME B16.5; Calibration Flow: 0.5%.	4,619.75	143.16
		For Grounding Disc/Protection Disc Pair, Add	*344.56*	
46 82 83 00-2582	EA	2", Polyamide Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5D4C50-1955/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: compact, aluminum, coated; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150 ASME B16.5; Calibration Flow: 0.5%.	4,657.44	173.33
		For Grounding Disc/Protection Disc Pair, Add	*407.51*	
46 82 83 00-2583	EA	3", Polyamide Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5D4C80-16X5/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: compact, aluminum, coated; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150 ASME B16.5; Calibration Flow: 0.5%.	4,916.67	221.27
		For Grounding Disc/Protection Disc Pair, Add	*508.27*	
46 82 83 00-2584	EA	4", Polyamide Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5D4C1H-17T7/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: compact, aluminum, coated; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150 ASME B16.5; Calibration Flow: 0.5%.	5,320.28	371.39
		For Grounding Disc/Protection Disc Pair, Add	*575.47*	
46 82 83 00-2585	EA	3", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S80-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	10,251.88	221.27
		For Grounding Disc/Protection Disc Pair, Add	*508.27*	
46 82 83 00-2586	EA	4", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S1H-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	10,713.23	371.39
		For Grounding Disc/Protection Disc Pair, Add	*575.47*	
46 82 83 00-2587	EA	6", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S1F-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	11,762.46	469.63
		For Grounding Disc/Protection Disc Pair, Add	*819.00*	
46 82 83 00-2588	EA	8", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S2H-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	14,078.61	594.22
		For Grounding Disc/Protection Disc Pair, Add	*870.47*	
46 82 83 00-2589	EA	10", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S2F-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	16,809.91	727.93
		For Grounding Disc/Protection Disc Pair, Add	*970.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2590	EA	12", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S3H-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	19,468.55	882.34
		For Grounding Disc/Protection Disc Pair, Add	*1,164.04*	
46 82 83 00-2591	EA	14", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S3F-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	26,227.33	1,039.90
		For Grounding Disc/Protection Disc Pair, Add	*2,046.36*	
46 82 83 00-2592	EA	16", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S4H-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	32,091.74	1,143.89
		For Grounding Disc/Protection Disc Pair, Add	*2,550.57*	
46 82 83 00-2593	EA	18", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S4F-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	33,407.61	1,268.68
		For Grounding Disc/Protection Disc Pair, Add	*2,844.69*	
46 82 83 00-2594	EA	20", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S5H-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	34,734.01	1,429.87
		For Grounding Disc/Protection Disc Pair, Add	*2,967.09*	
46 82 83 00-2595	EA	24", Polyurethane Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 55S6H-ULGB1RC2BAAA) Note: Certificate: without; Approval: FM NI Class I, Division 2 / CSA Class I, Division 2; Outputs: 4-20mA HART + frequency; Power Supply: display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: wall aluminum, IP67 NEMA 4X2; Remote Version: 30' coil and signal cable; Cable Entry: 1/2" NPT; Process Connection: Class150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	37,863.61	1,754.83
		For Grounding Disc/Protection Disc Pair, Add	*3,680.50*	
46 82 83 00-2596	EA	12", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C3H-4A43/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	14,791.09	882.34
		For Grounding Disc/Protection Disc Pair, Add	*1,164.04*	
46 82 83 00-2597	EA	14", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C3F-2D14/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	16,521.21	1,039.90
		For Grounding Disc/Protection Disc Pair, Add	*2,046.36*	
46 82 83 00-2598	EA	16", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C4H-38N4/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	18,432.52	1,143.89
		For Grounding Disc/Protection Disc Pair, Add	*2,550.57*	
46 82 83 00-2599	EA	20", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C5H-2PE0/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	20,731.16	1,429.87
		For Grounding Disc/Protection Disc Pair, Add	*2,967.09*	
46 82 83 00-2600	EA	24", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C6H-2U66/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	23,416.03	1,754.83
		For Grounding Disc/Protection Disc Pair, Add	*3,680.50*	
46 82 83 00-2601	EA	28", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C7H-1JK0/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	25,538.85	2,307.28
		For Grounding Disc/Protection Disc Pair, Add	*4,735.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2602	EA	36", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4C9H-1NM5/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	34,921.12	3,812.98
		For Grounding Disc/Protection Disc Pair, Add	*6,542.10*	
46 82 83 00-2603	EA	40", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4CT0-1KL9/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	40,639.61	4,766.20
		For Grounding Disc/Protection Disc Pair, Add	*7,760.60*	
46 82 83 00-2604	EA	42", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4CV0-13N0/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	45,400.87	5,719.47
		For Grounding Disc/Protection Disc Pair, Add	*8,768.98*	
46 82 83 00-2605	EA	48", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4CT2-1P63/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	66,895.33	7,149.33
		For Grounding Disc/Protection Disc Pair, Add	*8,222.75*	
46 82 83 00-2606	EA	54", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 5L4CV3-12F2/0) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	80,047.65	8,579.19
46 82 83 00-2607	EA	1", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P25-ALDB1NA0BAAA) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	10,494.74	98.10
		For Grounding Disc/Protection Disc Pair, Add	*2,214.43*	
46 82 83 00-2608	EA	2", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P50-ALDB1NA0BAAA) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	10,588.76	173.33
		For Grounding Disc/Protection Disc Pair, Add	*6,248.01*	
46 82 83 00-2609	EA	3", PTFE Liner, 1.4435 (316L) Bullet Nose Electrodes, Magnetic Flow Meter (E+H 53P80-ALDB1NA0BAAA) Note: Approval: CSA C/US NI Class I, Division 2, Groups ABCD; Outputs: 4-20mA HART, pulse/frequency/switch; Power Supply: 100-240VAC/24VAC/DC; Housing: remote, aluminum, coated; Remote Version: 30' coil + signal cable; Cable Entry: 1/2" NPT; Process Connection: Class 150, carbon steel, lap joint flange, ASME B16.5; Calibration Flow: 0.5%.	11,641.53	221.27
		For Grounding Disc/Protection Disc Pair, Add	*7,545.90*	
46 82 83 00-2610	EA	4", PFA Liner, Tantalum Electrodes, Magnetic Flow Meter (E+H 53P1H-ALDB1NA0BAAA) Note: Certificate: without; Approval: FM XP Class I, Division 1 / CSA Class I, Division 1; Outputs: 4-20mA SIL HART + frequency; Electrodes: measure electrode only; Display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: compact aluminum, IP67 NEMA 4X; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	12,487.21	371.39
		For Grounding Disc/Protection Disc Pair, Add	*8,427.70*	
46 82 83 00-2611	EA	6", PFA Liner, Tantalum Electrodes, Magnetic Flow Meter (E+H 53P1F-ALDB1NA0BAAA) Note: Certificate: without; Approval: FM XP Class I, Division 1 / CSA Class I, Division 1; Outputs: 4-20mA SIL HART + frequency; Electrodes: measure electrode only; Display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: compact aluminum, IP67 NEMA 4X; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	14,621.78	469.63
		For Grounding Disc/Protection Disc Pair, Add	*13,508.50*	
46 82 83 00-2612	EA	8", PFA Liner, Tantalum Electrodes, Magnetic Flow Meter (E+H 53P2H-ALDB1NA0BAAA) Note: Certificate: without; Approval: FM XP Class I, Division 1 / CSA Class I, Division 1; Outputs: 4-20mA SIL HART + frequency; Electrodes: measure electrode only; Display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: compact aluminum, IP67 NEMA 4X; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	16,987.27	594.22
		For Grounding Disc/Protection Disc Pair, Add	*13,550.52*	
46 82 83 00-2613	EA	10", PFA Liner, Tantalum Electrodes, Magnetic Flow Meter (E+H 53P2F-ELDB1NA0BAAA) Note: Certificate: without; Approval: FM XP Class I, Division 1 / CSA Class I, Division 1; Outputs: 4-20mA SIL HART + frequency; Electrodes: measure electrode only; Display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: compact aluminum, IP67 NEMA 4X; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	21,917.33	727.93
		For Grounding Disc/Protection Disc Pair, Add	*21,990.67*	
46 82 83 00-2614	EA	12", PFA Liner, Tantalum Electrodes, Magnetic Flow Meter (E+H 53P3H-ELDB1NA0BAAA) Note: Certificate: without; Approval: FM XP Class I, Division 1 / CSA Class I, Division 1; Outputs: 4-20mA SIL HART + frequency; Electrodes: measure electrode only; Display: 85-260VAC, WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup; basic version; Housing: compact aluminum, IP67 NEMA 4X; Remote Version: not used; Cable Entry: 1/2" NPT; Process Connection: Class 150, A105, flange, ANSI B16.5; Calibration: 0.2%, additional test.	27,427.62	882.34
		For Grounding Disc/Protection Disc Pair, Add	*20,466.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2615	EA	Non-Hazardous Area, 24" To 80"Pipe, Clamp On, 1 Channel/1 Set, Ultrasonic Flow Meter (E+H 93PA1-EB3B00ACBAAA) Note: Flow Sensor: 4 to 160", 32 to 338 degree F, NEMA 6P; Sensor Holder: 2 to 160"; Sensor Cable: 30', -4 to 158 degree F; Cable Entry Sensor: gland; additional test; Certificate: without; Housing: wall aluminum, IP67 NEMA 4X; Cable Entry: 1/2" NPT; Power Supply; Display: 85-260VAC; WEA, 4-line + touch control WEA= language EN adjustment; Software Feature: factory setup, basic version; Outputs: 4-20mA HART + frequency.	15,213.18	129.99
46 82 83 00-2616	EA	1/2" Vortex Flow Meter (E+H 7F2B15-80D3/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	6,098.57	62.39
46 82 83 00-2617	EA	1" Vortex Flow Meter (E+H 7F2B25-9HJ4/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	6,257.94	98.10
46 82 83 00-2618	EA	1-1/2" Vortex Flow Meter (E+H 7F2B40-7E64/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	6,642.14	143.16
46 82 83 00-2619	EA	2" Vortex Flow Meter (E+H 7F2B50-5AR9/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	6,778.15	173.33
46 82 83 00-2620	EA	3" Vortex Flow Meter (E+H 7F2B80-JP51/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	7,264.22	221.27
46 82 83 00-2621	EA	4" Vortex Flow Meter (E+H 7F2B1H-8KW4/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	7,992.82	371.39
46 82 83 00-2622	EA	6" Vortex Flow Meter (E+H 7F2B1F-ETW0/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	10,863.00	469.63
46 82 83 00-2623	EA	8" Vortex Flow Meter (E+H 7F2B2H-8QL2/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	13,656.94	594.22
46 82 83 00-2624	EA	8" To 6" Vortex Flow Meter (E+H 7R2BRR-25V5/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	14,881.22	594.22
46 82 83 00-2625	EA	10" Vortex Flow Meter (E+H 7F2B2F-5186/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	15,597.81	727.93
46 82 83 00-2626	EA	10" To 6" Vortex Flow Meter (E+H 7R2BSR-1J39/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	18,844.61	727.93
46 82 83 00-2627	EA	12" Vortex Flow Meter (E+H 7F2B3H-3TT8/0) Note: Approval: CSA C/US XP Class I, II, III, Division 1, Groups A-G; Outputs: 4-20mA HART; Sensor Version: volume flow basic, 316L, -40...+260oC/-40...+500oF; Display; operation, SD03 4-line, illuminated, touch control + data backup function; Housing: GT20 dual compartment, aluminum; Cable Entry: 1/2" NPT; Process Connection: Class 150, RF, Schedule 40 flange, ASME B16.5; Calibration Flow: 0.75% volume 3-point.	20,712.07	882.34
46 82 83 00-2628	EA	FM NI Class I, Division 2/CSA Class I, Division 2, ABCD + Zone 2, 9" Insertion Tube Length, t-mass Thermal Mass Flow Meter (E+H 65I-20AA0AD1RCBABA) Note: Sensor: stainless steel; Process Connection: 1" MNPT, thread ANSI, compression fitting, stainless steel; Seal: PEEK, -40 to +266 degree F; Surface Cleaning: basic version; Calibration: factory calibration, additional test; Certificate: basic version; Housing: wall aluminum, IP67 NEMA 4X; Cable Entry: 1/2" NPT; Display; Operation: 85-260VAC, 2-line + push buttons adjustment; Software Feature: default gas (Air 14.692psia); Outputs: 4-20mA HART + frequency.	8,151.22	129.99
46 82 83 00-2629	EA	1" Process Connection, 35 Hole, Plate Conditioner (E+H DK7ST-25K0) Note: Range: -330 to +750 degree F; Process Connection: Class 150, ANSI B16.5; Material: 316L	641.99	98.10
46 82 83 00-2630	EA	1-1/2" Process Connection, 35 Hole, Plate Conditioner (E+H DK7ST-40K0) Note: Range: -330 to +750 degree F; Process Connection: Class 150, ANSI B16.5; Material: 316L	747.39	143.16
46 82 83 00-2631	EA	2" Process Connection, 35 Hole, Plate Conditioner (E+H DK7ST-50K0) Note: Range: -330 to +750 degree F; Process Connection: Class 150, ANSI B16.5; Material: 316L	813.70	173.33
46 82 83 00-2632	EA	3" Process Connection, 35 Hole, Plate Conditioner (E+H DK7ST-80K0) Note: Range: -330 to +750 degree F; Process Connection: Class 150, ANSI B16.5; Material: 316L	1,073.92	221.27
46 82 83 00-2633	EA	4" Process Connection, 35 Hole, Plate Conditioner (E+H DK7ST-1HK0) Note: Range: -330 to +750 degree F; Process Connection: Class 150, ANSI B16.5; Material: 316L	1,396.45	371.39
46 82 83 00-2634	EA	6" Process Connection, 35 Hole, Plate Conditioner (E+H DK7ST-1FK0) Note: Range: -330 to +750 degree F; Process Connection: Class 150, ANSI B16.5; Material: 316L	2,234.61	469.63

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2635	EA	8" Process Connection, 35 Hole, Plate Conditioner (E+H DK7ST-2HK0) Note: Range: -330 to +750 degree F; Process Connection: Class 150, ANSI B16.5; Material: 316L	3,105.71	594.22
46 82 83 00-2636	EA	10" Process Connection, 35 Hole, Plate Conditioner (E+H DK7ST-2FK0) Note: Range: -330 to +750 degree F; Process Connection: Class 150, ANSI B16.5; Material: 316L	4,928.39	727.93
46 82 83 00-2637	EA	12" Process Connection, 35 Hole, Plate Conditioner (E+H DK7ST-3HK0) Note: Range: -330 to +750 degree F; Process Connection: Class 150, ANSI B16.5; Material: 316L	8,800.33	882.34
46 82 83 00-2638	EA	FM NI Cl.I Div.2/CSA Cl.I Div.2, ABCD + Zone 2, 13" Insertion Tube Length, t-mass Thermal Mass Flow Meter (E+H 65I-30AA0AD1RABABA) Note: Sensor: stainless steel; Process Connection: 1" MNPT, thread ANSI, compression fitting, stainless steel; Seal: PEEK, -40 to +266 degree F; Surface Cleaning: basic version; Calibration: factory calibration, additional test; Certificate: basic version; Housing: compact aluminum, IP67 NEMA 4X; Cable Entry: 1/2" NPT; Display; Operation: 85-260VAC, 2-line + push buttons adjustment; Software Feature: default gas (Air 14.692psia); Outputs: 4-20mA HART + frequency.	7,324.43	129.99
46 82 83 00-2639	DAY	E+H, Up To 8" Flow Meter, Start Up And Training	4,038.34	
46 82 83 00-2640	DAY	E+H, >8" Flow Meter, Start Up And Training	4,615.25	

46 82 83 00-2641 Level Equipment And Instrumentation *(46 82 83 00-0001)*

46 82 83 00-2642 Level Equipment And Instrumentation (Hawk) *(46 82 83 00-2641)*

46 82 83 00-2643 Sultan Integral Transmitters *(46 82 83 00-2642)*

46 82 83 00-2644	EA	2", 2 Wire, No Relays, 12-30 Volt DC Only, Modbus, Sultan Integral Ultrasonic Transmitter (Hawk AWI2)	1,335.12	56.50
		For 4-20mA Analog, Add	*854.74*	
		For 4-20mA Analog With HART 2 Wire, Add *Note: For AWI2 Only*	*935.29*	
		For Profibus PA, Add	*1,471.34*	
		For Foundation Fieldbus, Add	*1,471.34*	
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For 50kHz For Liquid Applications Up To 5m, Add	*1,094.74*	
		For 40kHz For Liquid Applications Up To 7m, Add	*1,356.88*	
		For 30kHz For Liquid Applications Up To 11m, Add *Note: 4" Cone Required*	*1,487.96*	
		For 20kHz For Applications Up To 20m, Add *Note: (4" Cone Required), Available in 3" Only*	*1,845.85*	
		For 15kHz For Applications Up To 30m, Add *Note: (10" Cone Required), Available in 3" Only*	*2,173.41*	
		For 10kHz For Applications Up To 40m, Add *Note: (10" Cone Required), Available in 3-1/2" Only*	*2,803.80*	
		For 9kHz For High Power Extended Range Applications Up To 170m, Add *Note: (10" Cone Required)*	*4,324.15*	
		For 5kHz for applications up to 60m maximum, Add *Note: (10" cone required), Available in 3-1/2" Only*	*3,388.86*	
		For 4kHz For High Power Extended Range Applications Up To 170m, Add *Note: (10" Cone Required)*	*4,791.79*	
46 82 83 00-2645	EA	2", 2/3/4 Wire, 2 Relays, Modbus, Sultan Integral Ultrasonic Transmitter (Hawk AWI234)	1,576.96	56.50
		For Power Supply 'U', 12-30 Volt DC And 90-260 Volt AC, Add	*574.14*	
		For Switch Only With 5 Relays, Add *Note: For AWR234 Only*	*64.61*	
		For 4-20mA Analog, Add	*854.74*	
		For Profibus PA, Add	*1,471.34*	
		For Foundation Fieldbus, Add	*1,471.34*	
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For 50kHz For Liquid Applications Up To 5m, Add	*1,094.74*	
		For 40kHz For Liquid Applications Up To 7m, Add	*1,356.88*	
		For 30kHz For Liquid Applications Up To 11m, Add *Note: 4" Cone Required*	*1,487.96*	
		For 20kHz For Applications Up To 20m, Add *Note: (4" Cone Required), Available in 3" Only*	*1,845.85*	
		For 15kHz For Applications Up To 30m, Add *Note: (10" Cone Required), Available in 3" Only*	*2,173.41*	
		For 10kHz For Applications Up To 40m, Add *Note: (10" Cone Required), Available in 3-1/2" Only*	*2,803.80*	
		For 9kHz For High Power Extended Range Applications Up To 170m, Add *Note: (10" Cone Required)*	*4,324.15*	
		For 5kHz for applications up to 60m maximum, Add *Note: (10" cone required), Available in 3-1/2" Only*	*3,388.86*	
		For 4kHz For High Power Extended Range Applications Up To 170m, Add *Note: (10" Cone Required)*	*4,791.79*	
		For Switch With 2 Relays, Modbus, Add	*62.77*	
		For Position Slave System Software Option, Add	*1,637.78*	
		For Crane Master Software Option, Add	*819.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2646	EA	3", 2 Wire, No Relays, 12-30 Volt DC Only, Modbus Sultan Integral Transmitter (Hawk AWI2)	1,283.14	56.50
		For 4-20mA Analog, Add	*854.74*	
		For 4-20mA Analog With HART 2 Wire, Add	*935.29*	
		Note: For AWI2 Only		
		For Profibus PA, Add	*1,471.34*	
		For Foundation Fieldbus, Add	*1,471.34*	
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For 50kHz For Liquid Applications Up To 5m, Add	*1,094.74*	
		For 40kHz For Liquid Applications Up To 7m, Add	*1,356.88*	
		For 30kHz For Liquid Applications Up To 11m, Add	*1,487.96*	
		Note: 4" Cone Required		
		For 20kHz For Applications Up To 20m, Add	*1,845.85*	
		Note: (4" Cone Required), Available in 3" Only		
		For 15kHz For Applications Up To 30m, Add	*2,173.41*	
		Note: (10" Cone Required), Available in 3" Only		
		For 10kHz For Applications Up To 40m, Add	*2,803.80*	
		Note: (10" Cone Required), Available in 3-1/2" Only		
		For 9kHz For High Power Extended Range Applications Up To 170m, Add	*4,324.15*	
		Note: (10" Cone Required)		
		For 5kHz for applications up to 60m maximum, Add	*3,388.86*	
		Note: (10" cone required), Available in 3-1/2" Only		
		For 4kHz For High Power Extended Range Applications Up To 170m, Add	*4,791.79*	
		Note: (10" Cone Required)		
46 82 83 00-2647	EA	3", 2/3/4 Wire, 2 Relays, Modbus, Sultan Integral Transmitter (Hawk AWI234)	1,515.93	56.50
		For Power Supply 'U', 12-30 Volt DC And 90-260 Volt AC, Add	*574.14*	
		For Switch Only With 5 Relays, Add	*64.61*	
		Note: For AWR234 Only		
		For 4-20mA Analog, Add	*854.74*	
		For Profibus PA, Add	*1,471.34*	
		For Foundation Fieldbus, Add	*1,471.34*	
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For 50kHz For Liquid Applications Up To 5m, Add	*1,094.74*	
		For 40kHz For Liquid Applications Up To 7m, Add	*1,356.88*	
		For 30kHz For Liquid Applications Up To 11m, Add	*1,487.96*	
		Note: 4" Cone Required		
		For 20kHz For Applications Up To 20m, Add	*1,845.85*	
		Note: (4" Cone Required), Available in 3" Only		
		For 15kHz For Applications Up To 30m, Add	*2,173.41*	
		Note: (10" Cone Required), Available in 3" Only		
		For 10kHz For Applications Up To 40m, Add	*2,803.80*	
		Note: (10" Cone Required), Available in 3-1/2" Only		
		For 9kHz For High Power Extended Range Applications Up To 170m, Add	*4,324.15*	
		Note: (10" Cone Required)		
		For 5kHz for applications up to 60m maximum, Add	*3,388.86*	
		Note: (10" cone required), Available in 3-1/2" Only		
		For 4kHz For High Power Extended Range Applications Up To 170m, Add	*4,791.79*	
		Note: (10" Cone Required)		
		For Switch With 2 Relays, Modbus, Add	*62.77*	
		For Position Slave System Software Option, Add	*1,637.78*	
		For Crane Master Software Option, Add	*819.92*	

46 82 83 00-2648 Sultan Remote Transmitters *(46 82 83 00-2642)*

46 82 83 00-2649	EA	2 Wire, No Relays, 12-30 Volt DC Only, Modbus, Sultan Remote Transmitter (Hawk AWR2)	1,833.57	56.50
		For 4-20mA Analog, Add	*854.74*	
		For Profibus PA, Add	*1,471.34*	
		For Foundation Fieldbus, Add	*1,471.34*	
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*1,174.26*	
		Note: For AWR2 Only		
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*1,174.26*	
		Note: For AWR2 Only		
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*1,036.23*	
		Note: For AWR2 Only		
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*1,036.23*	
		Note: For AWR2 Only		
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*797.26*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*539.75*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*1,036.23*	
		Note: For AWR2 Only		
		For Position Slave System Software Option, Add	*2,060.25*	
		For Crane Master Software Option, Add	*974.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2650	EA	2/3/4 Wire, 5 Relays, Modbus, Sultan Remote Transmitter (Hawk AWR234)	2,073.56	56.50
		For Power Supply 'C', 30-48 Volt DC And 48-90 Volt AC, Add	*732.90*	
		Note: 234 Units Only		
		For Power Supply 'U', 12-30 Volt DC And 90-260 Volt AC, Add	*574.14*	
		For Switch Only With 5 Relays, Add	*64.61*	
		Note: For AWR234 Only		
		For 4-20mA Analog, Add	*854.74*	
		For 4-20mA Analog With HART Isolated 4 Wire, Add	*972.89*	
		Note: For AWR234 Only		
		For Profibus DP, Add	*3,893.42*	
		Note: For AWR234 Only		
		For Profibus PA, Add	*1,471.34*	
		For Foundation Fieldbus, Add	*1,471.34*	
		For Devicenet, Add	*3,893.42*	
		Note: For AWR234 Only		
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*797.26*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*539.75*	
		For Position Slave System Software Option, Add	*2,060.25*	
		For Crane Master Software Option, Add	*974.74*	
46 82 83 00-2651	EA	3/4 Wire, 2 Relays, Modbus, Sultan Dual Remote Transmitter (Hawk AWRD34)	3,053.84	56.50
		For Switch Only With 5 Relays, Add	*61.80*	
		For Analog 1: 4-20mA Analog Driving/Modulating Output Module, Add	*1,384.39*	
		For Analog 2: 4-20mA Analog Modulating Output Module, Add	*1,384.39*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*607.73*	

46 82 83 00-2652 Sultan Remote Open Flow Transmitters *(46 82 83 00-2642)*

46 82 83 00-2653	EA	2/3/4 Wire, 5 Relays, 12-30 Volt DC, Modbus, Polycarbonate, Remote Open Channel Flow Transmitter (Hawk AWFR234)	2,730.42	141.25
		For Power Supply 'C', 30-48 Volt DC And 48-90 Volt AC, Add	*732.90*	
		Note: 234 Units Only		
		For Power Supply 'U', 12-30 Volt DC And 90-260 Volt AC, Add	*574.14*	
		For Switch Only With 5 Relays, Add	*64.61*	
		Note: For AWR234 Only		
		For 4-20mA Analog, Add	*854.74*	
		For 4-20mA Analog With HART Isolated 4 Wire, Add	*972.89*	
		Note: For AWR234 Only		
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*797.26*	

46 82 83 00-2654 Sultan Remote Transducers *(46 82 83 00-2642)*

46 82 83 00-2655	EA	2", 50kHz For Liquid Applications Up To 5m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT50)	1,207.74	56.50
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb -20°C to 50°C, Add	*825.21*	
		For Cable Suspension For Remote 50/40/30/20kH, Add	*121.84*	
		For Flow - Transducer With Multifit Shading Flange And Fast Temperature Compensation, Add	*701.52*	
46 82 83 00-2656	EA	2", 40kHz For Liquid Applications Up To 7m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT40)	1,410.86	56.50
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb -20°C to 50°C, Add	*825.21*	
		For Cable Suspension For Remote 50/40/30/20kH, Add	*121.84*	
		For Flow - Transducer With Multifit Shading Flange And Fast Temperature Compensation, Add	*701.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2657	EA	2", 30kHz For Liquid Applications Up To 11m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT30)	1,598.33	56.50
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb - 20°C to 50°C, Add	*825.21*	
		For Cable Suspension For Remote 50/40/30/20kH, Add	*121.84*	
		For Flow - Transducer With Multifit Shading Flange And Fast Temperature Compensation, Add	*701.52*	
		For 3" End Cap Mounting Thread Sizes, Add	*222.49*	
46 82 83 00-2658	EA	3", 30kHz For Liquid Applications Up To 15m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT30) Note: 4" Cone Required	1,711.32	113.00
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb - 20°C to 50°C, Add	*825.21*	
		For Cable Suspension For Remote 50/40/30/20kH, Add	*121.84*	
		For Flow - Transducer With Multifit Shading Flange And Fast Temperature Compensation, Add	*701.52*	
		For 3" End Cap Mounting Thread Sizes, Add	*222.49*	
46 82 83 00-2659	EA	3", 20kHz For Liquid Applications Up To 20m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT20) Note: 4" Cone Required	2,071.84	113.00
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb - 20°C to 50°C, Add	*825.21*	
		For Cable Suspension For Remote 50/40/30/20kH, Add	*121.84*	
		For Flow - Transducer With Multifit Shading Flange And Fast Temperature Compensation, Add	*701.52*	
		For 3" End Cap Mounting Thread Sizes, Add	*222.49*	
46 82 83 00-2660	EA	3", 15kHz For Liquid Applications Up To 30m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT15) Note: 8" Or 10" Cone Required	2,455.90	141.25
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb - 20°C to 50°C, Add	*825.21*	
		For Cable Suspension For Remote 50/40/30/20kH, Add	*121.84*	
		For Titanium Facing Material, Add	*1,775.81*	
		For 3" End Cap Mounting Thread Sizes, Add	*222.49*	
46 82 83 00-2661	EA	3-1/2", 10kHz For Liquid Applications Up To 40m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT10) Note: 10" Cone Required	3,142.80	169.50
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb - 20°C to 50°C, Add	*825.21*	
		For 3-1/2" End Cap Mounting Thread Sizes, Add	*374.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2662	EA	3", 9kHz For High Power Extended Range Applications Up To 170m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT09)	4,663.15	169.50
		Note: 10" Cone Required		
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb -20°C to 50°C, Add	*825.21*	
		For 3-1/2" End Cap Mounting Thread Sizes, Add	*374.94*	
46 82 83 00-2663	EA	3-1/2", 5kHz For Applications Up To 60m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT05)	3,727.86	169.50
		Note: 10" Cone Required, Polyolefin Face Only		
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb -20°C to 50°C, Add	*825.21*	
		For 3-1/2" End Cap Mounting Thread Sizes, Add	*374.94*	
46 82 83 00-2664	EA	3", 4kHz For High Power Extended Range Applications Up To 170m, Acoustic Wave Sultan Remote Transducer (Hawk AWRT04)	5,130.79	169.50
		Note: 10" Cone Required, Polyolefin Face Only		
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard ATEX Grp II Cat 2 GD EEx m II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For Approval Standard CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations), Add	*825.21*	
		For Approval Standard CSA Class I; Div 1/2; Group D; Zone 0; AEx/Ex ia IIA; T4, Add	*825.21*	
		For Approval Standard CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C, Add	*825.21*	
		For Approval Standard CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb -20°C to 50°C, Add	*825.21*	
		For 3-1/2" End Cap Mounting Thread Sizes, Add	*374.94*	

46 82 83 00-2665 Sultan Smart Transducers *(46 82 83 00-2642)*

46 82 83 00-2666	EA	12-30 Volt DC, 2 Wire, 4-20mA, Sultan Acoustic Wave Smart Transducer (Hawk AWST-A)	1,456.19	56.50
		For Approval Standard IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C, Add	*904.59*	
		For Approval Standard ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4, Add	*904.59*	
		For Approval Standard IECEx Zone 1 Ex mb II IP68 T5 (Tamb -20°C to 65°C) T6 (Tamb -20°C to 50°C), Add	*867.67*	
		For Approval Standard IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C, Add	*854.74*	
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For 3" End Cap Mounting Thread Sizes, Add	*222.49*	
		For 50kHz For Liquid Applications Up To 5m, Add	*1,093.91*	
		Note: Available in 2" Only		
		For 40kHz For Applications Up To 7m, Add	*1,349.37*	
		Note: Available in 2" only		
		For 30kHz For Applications Up To 11m For 2" And 15m For 3", Add	*1,479.15*	
		Note: (4" cone Required For 3" units)		
		For 20kHz For Applications Up To 20m, Add	*1,920.01*	
		Note: 4" Cone Required, Available in 3" Only		
		For 15kHz For Applications Up To 30m, Add	*2,259.93*	
		Note: 8" or 10" Cone Required, Available in 3" Only		
		For 10kHz For Applications Up To 40m, Add	*2,910.92*	
		Note: 10" Cone Required, Available in 3-1/2" Only		
		For 9kHz For High Power Extended Range Applications Up To 170m, Add	*4,488.96*	
		Note: 10" Cone Required		
		For 5kHz For Applications Up To 60m, Add	*3,520.71*	
		Note: 10" Cone Required, Available in 3-1/2" Only, Polyolefin Face Only		
		For 4kHz For High Power Extended Range Applications Up To 170m, Add	*4,975.14*	
		Note: 10" Cone Required, Polyolefin Face Only		
		For Titanium Facing Material For 15kHz Only, Add	*1,345.25*	
		For Connection Above With Suspension Fitting, Add	*160.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2667	EA	12-30 Volt DC, 1 Relay, Sultan Acoustic Wave Smart Transducer With Modbus (Hawk AWST-C)	1,668.38	56.50
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For 3" End Cap Mounting Thread Sizes, Add	*222.49*	
		For 50kHz For Liquid Applications Up To 5m, Add	*1,093.91*	
		Note: Available in 2" Only		
		For 40kHz For Applications Up To 7m, Add	*1,349.37*	
		Note: Available in 2" only		
		For 30kHz For Applications Up To 11m For 2" And 15m For 3", Add	*1,479.15*	
		Note: (4" cone Required For 3" units)		
		For 20kHz For Applications Up To 20m, Add	*1,920.01*	
		Note: 4" Cone Required, Available in 3" Only		
		For 15kHz For Applications Up To 30m, Add	*2,259.93*	
		Note: 8" or 10" Cone Required, Available in 3" Only		
		For 10kHz For Applications Up To 40m, Add	*2,910.92*	
		Note: 10" Cone Required, Available in 3-1/2" Only		
		For 9kHz For High Power Extended Range Applications Up To 170m, Add	*4,488.96*	
		Note: 10" Cone Required		
		For 5kHz For Applications Up To 60m, Add	*3,520.71*	
		Note: 10" Cone Required, Available in 3-1/2" Only, Polyolefin Face Only		
		For 4kHz For High Power Extended Range Applications Up To 170m, Add	*4,975.14*	
		Note: 10" Cone Required, Polyolefin Face Only		
		For Titanium Facing Material For 15kHz Only, Add	*1,345.25*	
		For Connection Above With Suspension Fitting, Add	*160.69*	
46 82 83 00-2668	EA	12-30 Volt DC, 2/3/4 Wire, 1 Relay, 4-20mA, Sultan Acoustic Wave Smart Transducer With Modbus (Hawk AWST-D)	1,862.02	56.50
		For Approval Standard ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C, Add	*609.21*	
		For 3" End Cap Mounting Thread Sizes, Add	*222.49*	
		For 50kHz For Liquid Applications Up To 5m, Add	*1,093.91*	
		Note: Available in 2" Only		
		For 40kHz For Applications Up To 7m, Add	*1,349.37*	
		Note: Available in 2" only		
		For 30kHz For Applications Up To 11m For 2" And 15m For 3", Add	*1,479.15*	
		Note: (4" cone Required For 3" units)		
		For 20kHz For Applications Up To 20m, Add	*1,920.01*	
		Note: 4" Cone Required, Available in 3" Only		
		For 15kHz For Applications Up To 30m, Add	*2,259.93*	
		Note: 8" or 10" Cone Required, Available in 3" Only		
		For 10kHz For Applications Up To 40m, Add	*2,910.92*	
		Note: 10" Cone Required, Available in 3-1/2" Only		
		For 9kHz For High Power Extended Range Applications Up To 170m, Add	*4,488.96*	
		Note: 10" Cone Required		
		For 5kHz For Applications Up To 60m, Add	*3,520.71*	
		Note: 10" Cone Required, Available in 3-1/2" Only, Polyolefin Face Only		
		For 4kHz For High Power Extended Range Applications Up To 170m, Add	*4,975.14*	
		Note: 10" Cone Required, Polyolefin Face Only		
		For Titanium Facing Material For 15kHz Only, Add	*1,345.25*	
		For Connection Above With Suspension Fitting, Add	*160.69*	

46 82 83 00-2669 Flanges, Focalizer Cones, And Cables *(46 82 83 00-2642)*

46 82 83 00-2670	EA	2" ANSI Polypropylene Flange	446.81	87.06
		Note: Fits 2" NPT Transducer Thread		
46 82 83 00-2671	EA	3" ANSI Polypropylene Flange	448.80	101.70
		Note: Available Ss FA3A-4, Fits C03-4-Z Cone Only		
46 82 83 00-2672	EA	4" ANSI, Acoustically Isolated, Polypropylene Flange	534.35	171.10
		Note: Fits 3" Units And 2" Units With Cone		
46 82 83 00-2673	EA	6" ANSI, Acoustically Isolated, Polypropylene Flange	752.72	210.57
		Note: Fits 3" And 3.5" Units		
46 82 83 00-2674	EA	8" ANSI, Acoustically Isolated, Polypropylene Flange	997.68	259.83
		Note: Fits 3" And 3.5" Units		
46 82 83 00-2675	EA	10" ANSI, Acoustically Isolated, Polypropylene Flange	1,345.10	316.31
		Note: Fits 3" And 3.5" Units		
46 82 83 00-2676	EA	6" ANSI Flange (Hawk FA6D50-4)	956.67	210.57
		Note: Fits 3.5" Transducers With TB50 End Cap/Black Cap.		
46 82 83 00-2677	EA	8" Cone Mounted Flange (Hawk FA8A-4-C4)	1,275.80	259.83
		Note: Fits C04-4 / C02 Cones		
46 82 83 00-2678	EA	6" Multifit Polypropylene Flange (Hawk FS6N-4)	960.79	210.57
		Note: For 1" BSP Threaded Cable Entry Mount		
46 82 83 00-2679	EA	4" ANSI Type Angle Flange (Hawk FA4C-4)	458.12	171.10
46 82 83 00-2680	EA	6" ANSI Type Angle Flange (Hawk FA8C-4)	596.16	210.57
46 82 83 00-2681	EA	10" ANSI Type Angle Flange (Hawk FA10C-4)	799.17	316.31
46 82 83 00-2682	EA	C04, Polypropylene, Cone With Adapter For 2" NPT Transducer	374.45	23.39
		Note: 02N		
		For Carbon Fiber Material, Add	*2,692.55*	
		Note: Comes attached to Carbon Fibre ANSI Flange		
		For Carbon Fiber Material, Add	*2,692.55*	
		Note: Comes attached to Carbon Fibre DIN Flange		
		For Carbon Fiber Material, Add	*2,692.55*	
		Note: Comes attached to Carbon Fibre JIS Flange		
		For Polyurethane Material, Add	*1,030.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2683	EA	C04, Polypropylene, Cone With Adapter For 2" BSP Transducer Note: 02B	374.45	23.39
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre ANSI Flange*	*2,692.55*	
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre DIN Flange*	*2,692.55*	
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre JIS Flange*	*2,692.55*	
		For Polyurethane Material, Add	*1,030.05*	
46 82 83 00-2684	EA	4" Polypropylene Cone For 20kHz And 3" 30kHz Transducers	684.65	340.99
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre ANSI Flange*	*2,692.55*	
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre DIN Flange*	*2,692.55*	
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre JIS Flange*	*2,692.55*	
		For Polyurethane Material, Add	*1,030.05*	
46 82 83 00-2685	EA	8" Polypropylene Cone For 15kHz/10kHz	1,065.32	519.67
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre ANSI Flange*	*2,692.55*	
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre DIN Flange*	*2,692.55*	
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre JIS Flange*	*2,692.55*	
		For Polyurethane Material, Add	*1,030.05*	
46 82 83 00-2686	EA	10" Polypropylene Cone For 15kHz/10kHz/9kHz/5kHz/4kHz	1,283.15	632.64
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre ANSI Flange*	*2,692.55*	
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre DIN Flange*	*2,692.55*	
		For Carbon Fiber Material, Add *Note: Comes attached to Carbon Fibre JIS Flange*	*2,692.55*	
		For Polyurethane Material, Add	*1,030.05*	
46 82 83 00-2687	EA	3" Outside Diameter, Special Cone And Connection Adapter (Hawk C03-4-Z) Note: Fits 3" units only. Fits FA3A-4 flange only	868.75	203.40
46 82 83 00-2688	EA	90mm Outside Diameter Cone (Hawk C04-4-ZOD90) Note: Fits 3" units only	512.35	203.40
46 82 83 00-2689	EA	4" And 6" Flanges/Cones, Polypropylene Locking Ring	74.76	
46 82 83 00-2690	EA	8" Cones For 15kHz Units, Polypropylene Locking Ring	97.42	
46 82 83 00-2691	EA	10" Flanges/Cones, Polypropylene Locking Ring	120.09	
46 82 83 00-2692	EA	Standard Cables, 15 Meters (Hawk CA-TXCC-R-C15)	216.44	
46 82 83 00-2693	EA	Standard Cables, 30 Meters (Hawk CA-TXCC-R-C30)	406.59	
46 82 83 00-2694	EA	Standard Cables, 50 Meters (Hawk CA-TXCC-R-C50)	666.89	

46 82 83 00-2695 HawkLink 3G Modem *(46 82 83 00-2642)*

46 82 83 00-2696	EA	3G, 12 - 30 Volt DC, Remote Stand Alone System (Hawk HL) Note: Mounted In A Sultan Remote Enclosure With Antenna	4,822.73	225.60
		For Power Supply 'U', 12-30 Volt DC And 90-260 Volt AC, Add	*525.33*	
46 82 83 00-2697	EA	USB Cable And Converter For Goshawk II (Hawk HAWKLINK-USB)	696.21	11.28
46 82 83 00-2698	EA	Mini USB To USB Cable And Converter For MiniWave (Hawk Hawklink-MiniUSB)	496.38	11.28
46 82 83 00-2699	EA	ProCom Sol HART Modem (Hawk HART-USB-PROCOM)	1,234.00	
46 82 83 00-2700	MO	3G Wireless, Modbus, Remote Troubleshooting, HawkLink Modem Rental Note: In order to receive a HawkLink rental, the customer will be required to provide a purchase order to insure that the HawkLink is returned within the 30 day period. In the event that the HawkLink modem is not returned after 30 days, the customer will be billed $600.00 per month until the unit is returned.	1,236.06	

46 82 83 00-2701 Miscellaneous Part And Accessories *(46 82 83 00-2642)*

46 82 83 00-2702	EA	Stainless Steel Sunhood For Sultan, Orca, GSA And GSM (HAWK SUNHOOD) Note: Included With OSIRSC Package	830.22	
46 82 83 00-2703	EA	Junction Box With 1m Cable (HAWK AWRT-JB-01)	438.80	
46 82 83 00-2704	EA	Junction Box With 6m Cable (HAWK AWRT-JB-06)	531.51	
46 82 83 00-2705	EA	Standard Stainless Steel Tags (HAWK SS TAGS)	140.09	
46 82 83 00-2706	EA	Inspection Test Plan Note: 1 Per Product Type	216.31	
46 82 83 00-2707	EA	Declaration Of Conformity	107.13	
46 82 83 00-2708	EA	Test Certificate	107.13	
46 82 83 00-2709	EA	5 Point Measurement Calibration Certificate	216.31	
46 82 83 00-2710	EA	Wiring/Dimension Drawing Note: 1 Per Product Type	216.31	
46 82 83 00-2711	EA	Certified Wiring/Dimension Drawing Note: 1 Per Product Type	216.31	
46 82 83 00-2712	EA	Fabrication / Manufacturing Schedule	216.31	
46 82 83 00-2713	EA	Calibration Certificate	107.13	
46 82 83 00-2714	EA	Welder Qualifications Note: Supplied By Welder	107.13	
46 82 83 00-2715	EA	Welding Procedures Note: Supplied By Welder	107.13	
46 82 83 00-2716	EA	Certificate of Conformity	107.13	
46 82 83 00-2717	EA	Inspection Test Plan Note: 1 Per Product Type	216.31	
46 82 83 00-2718	EA	Customized Engineering Drawings Note: 1 Per Product Type	216.31	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2719	EA	Certified Drawings Note: 1 Per Product Type	216.31	
46 82 83 00-2720	EA	Hydrostatic Testing	216.31	
46 82 83 00-2721	EA	Material Certificates Note: 1 Per Product Type	107.13	
46 82 83 00-2722	EA	NACE Certificates	107.13	

46 82 83 00-2723 On-Site Technical Support *(46 82 83 00-2642)*

Note: Travel days are billed as additional days at the level of service supplied. If arrival or departure is concurrent with a workday, the daily charge will be no more than the next highest level of service for that day We will bill for portal to portal travel and incidentals at actual cost. This includes: coach class airfare, lodging, meals, car or equipment rental, field service parts and supplies. You will receive a listing of charges for travel with our invoice. You may cancel or reschedule a service call at any time prior to departure without penalty. Any cancellation charges incurred will be billed at cost. Cancellations received after departure will be invoiced for cancellation charges and expenses, plus a minimum of one day of labor.

46 82 83 00-2724	Day	Standard On-Site Technical Support Note: Schedule 2 Weeks In Advance	2,884.14	
46 82 83 00-2725	Day	Premium On-Site Technical Support Note: Longer Than 8 Hours, Less Than 12 Hours	3,965.69	
46 82 83 00-2726	Day	Priority On-Site Technical Support Note: On-Site Within 72 Hours	5,768.28	

46 82 83 00-2727 Level Equipment And Instrumentation (Siemens Miltronics) *(46 82 83 00-2641)*

46 82 83 00-2728	EA	2-Wire Ultrasonic Level Probe, 1-16.4" Range, NEMA 4 Enclosure, 4-20mA Loop Powered Output. Model Milltronics Two-Wire PROBE	2,791.64	44.86
46 82 83 00-2729	EA	Ultrasonic Transceiver, NEMA 4X, 2 Alarm Relays, 0-16' Range. Model: Milltronics MiniRanger	3,478.89	70.62
46 82 83 00-2730	EA	Ultrasonic Transceiver, NEMA 4X, 4 Alarm Relays, 0-200' Range. Model: Milltronics AirRanger DPL Plus	6,625.80	70.62
		For Hand Held Programmable Calibrator, Add	*75.00*	
		For LIS-1 Loop Isolator, Add	*185.00*	
46 82 83 00-2731	EA	Multiranger 100 Single Channel Ultrasonic Level Monitor Controller (Siemens Milltronics PN7ML5034-1AA001A)	3,243.34	70.62
46 82 83 00-2732	EA	Multiranger 200 Dual Channel Ultrasonic Level Monitor Controller (Siemens Milltronics PN7ML5034-1AB001A)	3,786.50	70.62
46 82 83 00-2733	EA	Hydroranger Single Channel Ultrasonic Level Monitor Controller (Siemens Milltronics PN5033-1AA001A)	2,309.20	70.62
		For Hand Held Programmable Calibrator, Add	*75.00*	
46 82 83 00-2734	EA	Hydroranger Dual Channel Ultrasonic Level Monitor Controller (Siemens Milltronics PN5033-1AB001A)	3,793.52	70.62
46 82 83 00-2735	EA	OCMIII Ultrasonic Flow Monitor For Open Channels (Siemens Milltronics PN 7ML5001-1A00B2)	5,125.51	56.50
		For Hand Held Programmable Calibrator, Add	*75.00*	
		For Transducer, Mounting, 1 To 10' Range, 100' Interconnect Cable, Add	*385.00*	
		For Temperature Compensator Probe, Add	*225.00*	
46 82 83 00-2736	EA	Liquid Level Sensor, 15' Cable (Siemens Milltronics ST-H)	1,702.52	42.37
46 82 83 00-2737	EA	Liquid And Solids Level Sensor, 15' Cable (Siemens Milltronics XPS-10)	1,452.09	41.24
46 82 83 00-2738	EA	Liquid And Solids Level Sensor, 15' Cable (Siemens Milltronics XPS-15)	1,824.26	42.37
46 82 83 00-2739	EA	Liquid And Solids Level Sensor, 15' Cable (Siemens Milltronics XPS-30)	2,674.12	42.37
46 82 83 00-2740	EA	Liquid And Solids Level Sensor, 15' Cable (Siemens Milltronics XPS-40)	3,399.89	42.37

46 82 83 00-2741 Process Measurement (Pulsar) *(46 82 83 00-2641)*

46 82 83 00-2742	EA	0.15 To 3m Liquid And Solid Level Measurement Transducer With 5m Cable (Pulsar dB3)	1,458.99	56.40
		For 10m Cable, Add	*81.94*	
		For 20m Cable, Add	*234.12*	
		For 30m Cable, Add	*421.42*	
		For Submersible Shield, Add	*175.59*	
		For 1-1/2" Or 2" Front Nose Thread, Add	*152.18*	
		For 2" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*327.77*	
		For 3" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*351.18*	
		For 4" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*398.00*	
		For 6" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*444.83*	
		For 8" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*702.36*	
		For Polyvinylidene Fluoride (PVDF) Housing, Add	*128.77*	
		For Intrinsically Safe ATEX Approved EEx ia IIC T6, Add	*257.53*	
46 82 83 00-2743	EA	0.3 To 6m Liquid And Solid Level Measurement Transducer With 5m Cable (Pulsar dB6)	1,775.05	56.40
		For 10m Cable, Add	*81.94*	
		For 20m Cable, Add	*234.12*	
		For 30m Cable, Add	*421.42*	
		For Submersible Shield, Add	*175.59*	
		For 1-1/2" Or 2" Front Nose Thread, Add	*152.18*	
		For 2" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*327.77*	
		For 3" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*351.18*	
		For 4" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*398.00*	
		For 6" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*444.83*	
		For 8" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*702.36*	
		For Polyvinylidene Fluoride (PVDF) Housing, Add	*128.77*	
		For Foam Facing, Add	*175.59*	
		For Intrinsically Safe ATEX Approved EEx ia IIC T6, Add	*257.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2744	EA	0.3 To 10m Liquid And Solid Level Measurement Transducer With 5m Cable (Pulsar dB10)	1,962.35	56.40
		For 10m Cable, Add	*81.94*	
		For 20m Cable, Add	*234.12*	
		For 30m Cable, Add	*421.42*	
		For Submersible Shield, Add	*175.59*	
		For 1-1/2" Or 2" Front Nose Thread, Add	*152.18*	
		For 2" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*327.77*	
		For 3" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*351.18*	
		For 4" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*398.00*	
		For 6" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*444.83*	
		For 8" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*702.36*	
		For Polyvinylidene Fluoride (PVDF) Housing, Add	*128.77*	
		For Foam Facing, Add	*175.59*	
		For Intrinsically Safe ATEX Approved EEx ia IIC T6, Add	*257.53*	
46 82 83 00-2745	EA	0.5 To 15m Liquid And Solid Level Measurement Narrow Beam Transducer With 5m Cable (Pulsar dB15)	2,512.53	56.40
		For 10m Cable, Add	*81.94*	
		For 20m Cable, Add	*234.12*	
		For 30m Cable, Add	*421.42*	
		For Submersible Shield, Add	*175.59*	
		For 3" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*351.18*	
		For 4" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*398.00*	
		For 6" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*444.83*	
		For 8" Flange With Polytetrafluoroethylene (PTFE) Facing, Add	*702.36*	
		For Polyvinylidene Fluoride (PVDF) Housing, Add	*128.77*	
		For Foam Facing, Add	*175.59*	
		For Intrinsically Safe ATEX Approved EEx ia IIC T6, Add	*257.53*	
46 82 83 00-2746	EA	0.6 To 25m Liquid And Solid Level Measurement Narrow Beam, Mid Range Transducer With 5m Cable (Pulsar dB25)	3,694.84	56.40
		For 10m Cable, Add	*81.94*	
		For 20m Cable, Add	*234.12*	
		For 30m Cable, Add	*421.42*	
		For Submersible Shield, Add	*175.59*	
		For Foam Facing, Add	*175.59*	
		For Intrinsically Safe ATEX Approved EEx ia IIC T6, Add	*257.53*	
46 82 83 00-2747	EA	1.2 To 40m Liquid And Solid Level Measurement Narrow Beam, Long Range Transducer With 5m Cable (Pulsar dB40)	5,181.50	56.40
		For 10m Cable, Add	*81.94*	
		For 20m Cable, Add	*234.12*	
		For 30m Cable, Add	*421.42*	
		For Submersible Shield, Add	*175.59*	
		For Foam Facing, Add	*175.59*	
46 82 83 00-2748	EA	Level, Volume, Pump Control And Open Channel Flow Control Microprocessor (Pulsar Ultra 3)	2,571.06	56.40
		For Intrinsically Safe, 4-20mA Output (Wall Mount), Add	*995.01*	
		For UL/CuL Approved (Wall Mount) 4-20mA Output, Add	*70.24*	
		For Panel Mount (NEMA 4X Face) Enclosure, Add	*995.01*	
		For Rack Mount (19" Version) Enclosure, Add	*526.77*	
		For Fascia Mount (NEMA 12) Enclosure, Add	*526.77*	
		For RS-485 Modbus RTU And Data Logging, Add	*877.95*	
		For Profibus dP Version 0 And Data Logging, Add	*995.01*	
		For Profibus dP Version 1 And Data Logging, Add	*1,393.01*	
		For PC Ultra Software Program - Serial Port Lead, Add	*690.65*	
		For PC Ultra Software Program - USB Converter Lead, Add	*995.01*	
		For PC Elephant Data Logging Software - Serial Port Lead, Add	*1,158.89*	
		For PC Elephant Data Logging Software - USB Converter Lead, Add	*1,486.66*	
		For Pulsar PC Software Suite - Serial Port Lead, Add	*1,135.48*	
		For Pulsar PC Software Suite - USB Converter Lead, Add	*1,393.01*	
		For Ultra Scan PC Vessel Profile And Contents Display, Add	*3,734.21*	
		For Communicator - Infra Red Remote, Add	*924.77*	
		For PC Serial Port Connection Lead, Add	*187.30*	
		For PC Connection Lead With USB Converter, Add	*339.47*	
		For Tagging - Stainless Steel, Add	*175.59*	
		For Hydro Ranger Adapter Plate, Add	*234.12*	
		For Additional Manuals, Add	*105.35*	
46 82 83 00-2749	EA	Level, Volume, Pump Control, Differential And Open Channel Flow Control Microprocessor (Pulsar Ultra 5)	3,004.18	56.40
		For UL/CuL Approved (Wall Mount) 4-20mA Output, Add	*70.24*	
		For Panel Mount (NEMA 4X Face) Enclosure, Add	*995.01*	
		For Rack Mount (19" Version) Enclosure, Add	*526.77*	
		For Fascia Mount (NEMA 12) Enclosure, Add	*526.77*	
		For RS-485 Modbus RTU And Data Logging, Add	*877.95*	
		For Profibus dP Version 0 And Data Logging, Add	*995.01*	
		For Profibus dP Version 1 And Data Logging, Add	*1,393.01*	
		For PC Ultra Software Program - Serial Port Lead, Add	*690.65*	
		For PC Ultra Software Program - USB Converter Lead, Add	*995.01*	
		For PC Elephant Data Logging Software - Serial Port Lead, Add	*1,158.89*	
		For PC Elephant Data Logging Software - USB Converter Lead, Add	*1,486.66*	
		For Pulsar PC Software Suite - Serial Port Lead, Add	*1,135.48*	
		For Pulsar PC Software Suite - USB Converter Lead, Add	*1,393.01*	
		For Ultra Scan PC Vessel Profile And Contents Display, Add	*3,734.21*	
		For Communicator - Infra Red Remote, Add	*924.77*	
		For PC Serial Port Connection Lead, Add	*187.30*	
		For PC Connection Lead With USB Converter, Add	*339.47*	
		For Tagging - Stainless Steel, Add	*175.59*	
		For Hydro Ranger Adapter Plate, Add	*234.12*	
		For Additional Manuals, Add	*105.35*	

46 82 83 00-2750 Level Equipment And Instrumentation (Omntec) *(46 82 83 00-2641)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2751	EA	Up To 8 Magnetostrictive Probes, Up To 44 BX Series Leak Dection Sensors, Four Line By 40 Character Display, Tank Gauging And Leak Detection Controller With Printer (Omntec OEL8000IIP)	6,675.40	70.62
46 82 83 00-2752	EA	Up To 4 MTG Series Inventory Probes And 16 BX Series Leak Sensors, 7" Touch Screen Display, Tank Gauging And Leak Detection Controller (Omntec OEL8000IIIB4)	3,993.47	70.62
46 82 83 00-2753	EA	Up To 4 MTG Series Inventory Probes And 16 BX Series Leak Sensors, 7" Touch Screen Display, Tank Gauging And Leak Detection Controller With Printer (Omntec OEL8000IIIK4P)	6,749.60	70.62
46 82 83 00-2754	EA	Up To 16 MTG Series Inventory Probes And 64 BX Series Leak Sensors, 7" Touch Screen Display, Tank Gauging And Leak Detection Controller (Omntec OEL8000IIIXP)	9,878.87	70.62
46 82 83 00-2755	EA	4 Probe And 16 Leak Sensor Module For Proteus X Controller (Omntec XB-416)	1,527.80	70.62
46 82 83 00-2756	EA	8 Channel Relay Board For Proteus X Controller (Omntec XB-RB8)	1,415.43	70.62
46 82 83 00-2757	EA	Magnetostrictive Tank Gauging Probe (Omntec MTG) Note: Up To 12' Tank Diameter, Includes Buna Float Set For Product And Water, 4" Cap And Install Kit	3,141.93	42.37
46 82 83 00-2758	EA	Magnetostrictive Tank Gauging Probe (Omntec MTG-V) Note: For Inventory Only, Up To 12' Tank Diameter, Includes 4" Cap And Install Kit	2,652.19	42.37
46 82 83 00-2759	EA	4' Diameter Double Wall Fiberglass Tank Annular Space, Product Distinguishing Bright Eye Sensor (Omntec BX-PDWF-4)	843.75	42.37
46 82 83 00-2760	EA	6' Diameter Double Wall Fiberglass Tank Annular Space, Product Distinguishing Bright Eye Sensor (Omntec BX-PDWF-6)	843.75	42.37
46 82 83 00-2761	EA	8' Diameter Double Wall Fiberglass Tank Annular Space, Product Distinguishing Bright Eye Sensor (Omntec BX-PDWF-8)	843.75	42.37
46 82 83 00-2762	EA	10' Diameter Double Wall Fiberglass Tank Annular Space, Product Distinguishing Bright Eye Sensor (Omntec BX-PDWF-10)	843.75	42.37
46 82 83 00-2763	EA	4' Diameter Double Wall Fiberglass Tank Annular Space, Nondistinguishing Bright Eye Sensor (Omntec BX-LWF-4)	599.93	42.37
46 82 83 00-2764	EA	6' Diameter Double Wall Fiberglass Tank Annular Space, Nondistinguishing Bright Eye Sensor (Omntec BX-LWF-6)	599.93	42.37
46 82 83 00-2765	EA	8' Diameter Double Wall Fiberglass Tank Annular Space, Nondistinguishing Bright Eye Sensor (Omntec BX-LWF-8)	599.93	42.37
46 82 83 00-2766	EA	10' Diameter Double Wall Fiberglass Tank Annular Space, Nondistinguishing Bright Eye Sensor (Omntec BX-LWF-10)	599.93	42.37
46 82 83 00-2767	EA	Double Wall Steel Tank Annular Space, Product Distinguishing Bright Eye Sensor (Omntec BX-PDWS)	733.50	42.37
46 82 83 00-2768	EA	Double Wall Steel Tank Annular Space, Nondistinguishing Bright Eye Sensor (Omntec BX-LWS)	648.70	42.37
46 82 83 00-2769	EA	Brine Filled Doublewall Fiberglass Tank, Nondistinguishing Bright Eye Sensor (Omntec BX-RES)	843.75	42.37
46 82 83 00-2770	EA	Nondistinguishing Bright Eye Sensor (Omntec BX-LS)	587.21	42.37
46 82 83 00-2771	EA	Product Distinguishing Bright Eye Sensor (Omntec BX-PDS)	697.46	42.37
46 82 83 00-2772	EA	Temperature Sensor (Omntec BX-TC1)	697.46	42.37
46 82 83 00-2773	EA	Monitoring Well, Product Distinguishing Bright Eye Sensor (Omntec BX-PDWL)	2,028.88	42.37
46 82 83 00-2774	EA	Single Float High Level Oil/Water Interface Bright Eye Sensor (Omntec BX-OWI-1)	831.03	42.37
46 82 83 00-2775	EA	Dual Float High And Caution Level Oil/Water Interface Bright Eye Sensor (Omntec BX-OWI-2)	1,089.68	42.37
46 82 83 00-2776	EA	Two Channel External RS-232 To 4-20MA Convertor With (4) SPST 1 Ampere Relay Outputs Housed In Steel Enclosure For Proteus Series Controllers (Omntec X232-420-2)	1,731.33	70.62
46 82 83 00-2777	EA	Proteus K Systems RS-485 Board (Omntec DB-485)	499.60	28.25
46 82 83 00-2778	EA	Single Tank, Audio Visual High Level Remote Annunciator With Acknowledgement Switch In NEMA 4X Enclosure (Omntec RAS-1)	589.33	42.37
46 82 83 00-2779	EA	Two Tank, Audio Visual High Level Remote Annunciator With Acknowledgement Switch In NEMA 4X Enclosure (Omntec RAS-2)	650.82	42.37
46 82 83 00-2780	EA	Three Tank, Audio Visual High Level Remote Annunciator With Acknowledgement Switch In NEMA 4X Enclosure (Omntec RAS-3)	714.42	42.37
46 82 83 00-2781	EA	Four Tank, Audio Visual High Level Remote Annunciator With Acknowledgement Switch In NEMA 4X Enclosure (Omntec RAS-4)	828.91	42.37
46 82 83 00-2782	EA	Single Tank, Audio Visual High Level Remote Annunciator (110 DB) With Acknowledgement Switch In NEMA 4X Enclosure (Omntec RAS-1-NYS)	818.30	42.37
46 82 83 00-2783	EA	Single Tank LED Remote Display For Level Indication Housed In NEMA 4X Enclosure (Omntec RD625-1)	2,408.38	42.37
46 82 83 00-2784	EA	Two Tank LED Remote Display For Level Indication Housed In NEMA 4X Enclosure (Omntec RD625-2)	4,360.99	42.37
46 82 83 00-2785	EA	Three Tank LED Remote Display For Level Indication Housed In NEMA 4X Enclosure (Omntec RD625-3)	7,049.28	42.37
46 82 83 00-2786	EA	Four Tank LED Remote Display For Level Indication Housed In NEMA 4X Enclosure (Omntec RD625-4)	9,368.67	42.37
46 82 83 00-2787	EA	7" Color Touch Screen Display, Universal Remote Automatic Tank Gauge Monitor, Proteus Mini-Me (Omntec RD7CTS)	2,194.25	42.37
46 82 83 00-2788	EA	Universal Translator (Omntec BX-UT)	425.40	28.25
46 82 83 00-2789	EA	2" Stainless Steel Float For MTG Probe (Omntec SSF-2)	589.33	42.37
46 82 83 00-2790	EA	Single Channel Liquid Sensing Audio Visual Controller In NEMA 4X Enclosure (Omntec LU1)	1,375.15	70.62
46 82 83 00-2791	EA	Two Channel Liquid Sensing Audio Visual Controller In NEMA 4X Enclosure (Omntec LU2)	1,638.04	70.62
46 82 83 00-2792	EA	Three Channel Liquid Sensing Audio Visual Controller In NEMA 4X Enclosure (Omntec LU3)	2,278.31	70.62
46 82 83 00-2793	EA	Four Channel Liquid Sensing Audio Visual Controller In NEMA 4X Enclosure (Omntec LU4)	2,530.60	70.62
46 82 83 00-2794	EA	Six Channel Liquid Sensing Audio Visual Controller In NEMA 4X Enclosure (Omntec LU6)	2,967.34	70.62
46 82 83 00-2795	EA	Nine Channel Liquid Sensing Audio Visual Controller In NEMA 4X Enclosure (Omntec LU9)	3,476.91	42.37
46 82 83 00-2796	EA	Double Wall Steel Tank, Sump, Containment Area, Nondistinguishing Leak Sensor (Omntec LS-ASC)	551.17	42.37
46 82 83 00-2797	EA	Double Wall Fiberglass Tank, Nondistinguishing Interstitial Sensor (Omntec LWF)	589.33	42.37
46 82 83 00-2798	EA	Doublewall Steel Tank, Nondistinguishing Interstitial Sensor (Omntec LWS)	663.54	42.37
46 82 83 00-2799	EA	Three Channel Liquid Product Distinguishing Audio Visual Controller In NEMA 4X Enclosure (Omntec L1PD2)	3,910.79	70.62
46 82 83 00-2800	EA	Six Channel Liquid Product Distinguishing Audio Visual Controller In NEMA 4X Enclosure (Omntec L2PD4)	4,290.29	70.62
46 82 83 00-2801	EA	Nine Channel Liquid Product Distinguishing Audio Visual Controller In NEMA 4X Enclosure (Omntec L3PD6)	4,727.03	70.62
46 82 83 00-2802	EA	Double Wall Fiberglass Tank, Product Distinguishing Interstitial Space Sensor (Omntec PDWF)	750.46	42.37
46 82 83 00-2803	EA	Double Wall Steel Tank, Product Distinguishing Interstitial Space Sensor (Omntec PDWS)	750.46	42.37
46 82 83 00-2804	EA	Sump Product Distinguishing Sensor (Omntec PDS)	862.83	42.37
46 82 83 00-2805	EA	Brine Filled Doublewall Fiberglass Tank, Two Point Reservoir Sensor (Omntec I-R-1)	900.99	42.37
46 82 83 00-2806	EA	12" Length, Single Point Liquid Level Detection Sensor (Omntec L-1-S)	527.85	42.37
46 82 83 00-2807	EA	20" Length, Single Point Liquid Level Detection Sensor (Omntec L-1-L)	650.82	42.37
46 82 83 00-2808	EA	Up To 72" Length, Single Point Liquid Level Detection Sensor (Omntec L-1-D)	964.59	42.37
46 82 83 00-2809	EA	Up To 36" Length, Two Point Liquid Level Detection Sensor (Omntec L-2-S)	1,030.31	42.37
46 82 83 00-2810	EA	>36" To 72" Length, High/Low Or High/Caution Level, Two Point Liquid Level Sensor (Omntec L-2-L)	1,091.80	42.37
46 82 83 00-2811	EA	Single Channel High Oil Level Audio Visual Oil Water Separator Controller In NEMA 4X Enclosure (Omntec LU1-OW)	1,387.87	70.62

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2812	EA	Two Channel High Oil Level Audio Visual Oil Water Separator Controller In NEMA 4X Enclosure (Omntec LU2-OW)	1,648.64	70.62
46 82 83 00-2813	EA	Two Channel High Oil Level (Pump Out Capablity) Audio Visual Oil Water Separator Controller In NEMA 4X Enclosure (Omntec LU2-OWP)	1,900.93	70.62
46 82 83 00-2814	EA	Two Channel Combination Leak Sensing/High Oil Level Audio Visual Oil Water Separator Controller In NEMA 4X Enclosure (Omntec LU2-OWIR)	2,341.91	70.62
46 82 83 00-2815	EA	Three Channel Combination Leak Sensing/High Oil Level Audio Visual Oil Water Separator Controller In NEMA 4X Enclosure (Omntec LU3-OWIR)	2,592.09	70.62
46 82 83 00-2816	EA	Three Channel Combination Leak Sensing/High Oil Level (Pump Out Capablity) Audio Visual Oil Water Separator Controller In NEMA 4X Enclosure (Omntec LU3-OWPR)	2,655.69	70.62
46 82 83 00-2817	EA	Single Point High Level Sensor In Oil Water Separator (Omntec OWI-1)	828.91	42.37
46 82 83 00-2818	EA	Two Point High And Caution Level Sensor In Oil Water Separator (Omntec OWI-2)	1,030.31	42.37
46 82 83 00-2819	EA	Two Point High Oil And Low Liquid Sensor For Pump Or Valve Control In Oil Water Separator (Omntec OWP-2)	1,030.31	42.37
46 82 83 00-2820	EA	Single Tank, Audio Visual High Level Remote Annunciator In NEMA 4X Enclosure (Omntec RA-1)	438.81	42.37
46 82 83 00-2821	EA	Two Tank, Audio Visual High Level Remote Annunciator In NEMA 4X Enclosure (Omntec RA-2)	474.85	42.37
46 82 83 00-2822	EA	Three Tank, Audio Visual High Level Remote Annunciator In NEMA 4X Enclosure (Omntec RA-3)	513.01	42.37
46 82 83 00-2823	EA	Four Tank, Audio Visual High Level Remote Annunciator In NEMA 4X Enclosure (Omntec RA-4)	551.17	42.37
46 82 83 00-2824	EA	Single Tank, Audio Visual High Level Remote Annunciator (110 DB) In NEMA 4X Enclosure (Omntec RA-1-NYS)	778.02	42.37
46 82 83 00-2825	EA	18" x 24" Yellow Aluminum Fill Alarm Sign With Black 2" Print That Reads "CAUTION - WHEN ALARM BELL SOUNDS OIL TANK FILLED TO CAPACITY DO NOT OVERFILL" (Omntec OFAS-AL)	609.85	28.25

46 82 83 00-2826 Liquid Level Equipment And Instrumentation (Vega Americas) *(46 82 83 00-2641)*

46 82 83 00-2827	EA	Polypropylene Horn Antenna, Radar Sensor, Continuous Liquid Level Measurement (Vega PS61.UDB**HKNAX) Note: Two-wire 4 to 20mA/HART. FM (XP) CL I, DIV1, GP ABCD, (DIP) CL II, III, DIV1, GP EFG approval. -40 to 176 Degree F.	8,229.17	113.00
		For 3" 150 Lb., ASME/PP-GF30 Adapter Flange, Add	*426.24*	
		For 4" 150 Lb., ASME/PP-GF30 Adapter Flange, Add	*539.93*	
		For 6" 150 Lb., ASME/PP-GF30 Adapter Flange, Add	*641.05*	
		For 8" 150 Lb., ASME/PP-GF30 Adapter Flange, Add	*1,336.54*	
46 82 83 00-2828	EA	316L Stainless Steel Horn Antenna, Radar Sensor, Continuous Liquid Level Measurement (Vega PS62.UDC**2HANAX) Note: Two-wire 4 to 20mA/HART. FM (XP) CL I, DIV1, GP ABCD, (DIP) CL II, III, DIV1, GP EFG approval. FFKM (Kalrez 6375) and PTFE. -20 to 130 Degree C. Aluminum single chamber/IP66/IP68 (0.2bar) housing.	10,969.71	113.00
		For 2" PN40, ASME B1.20.1/316L Threaded Fitting, Add	*308.89*	
		For 2" 150 Lb. Raised Face, ASME B16.5/316L Flange Fitting, Add	*725.94*	
		For 2-1/2" 150 Lb. Raised Face, ASME B16.5/316L Flange Fitting, Add	*1,094.42*	
		For 3" PN40, ASME B1.20.1/316L Threaded Fitting, Add	*1,109.12*	
		For 4" PN40, ASME B1.20.1/316L Threaded Fitting, Add	*1,202.77*	
		For 6" PN40, ASME B1.20.1/316L Threaded Fitting, Add	*1,704.91*	
		For 8" PN40, ASME B1.20.1/316L Threaded Fitting, Add	*2,948.35*	
		For 10" PN40, ASME B1.20.1/316L Threaded Fitting, Add	*3,753.42*	
46 82 83 00-2829	EA	Radar Sensor, Continuous Liquid Level Measurement (Vega PS64.FE***CHXANAXX) Note: Two-wire 4 to 20mA/HART. FM (XP) CL I, DIV1, GP ABCD, (DIP) CL II, III, DIV1, GP EFG approval. FFKM (Kalrez 6375) and PTFE. -20 to 130 Degree C. Aluminum single chamber/IP66/IP68 (0.2bar) housing.	8,481.38	113.00
		For Plastic Horn Antenna, Add	*395.19*	
		For 4" Flange Adapter Fitting, Add	*553.38*	
		For Flanged With Encapsulated Antenna, Add	*2,927.22*	
		For 1-1/2" PN40, ASME B1.20.1/316L Threaded Fitting, Add	*365.36*	
		For 2", 150 Lb., Raised Face, ASME B16.5/316L Flange Fitting, Add	*437.98*	
		For 3", 150 Lb., Raised Face, ASME B16.5/316L Flange Fitting, Add	*531.49*	
		For 3-1/2", 150 Lb., Raised Face, ASME B16.5/316L Flange Fitting, Add	*949.78*	
		For 4", 150 Lb., Raised Face, ASME B16.5/316L Flange Fitting, Add	*996.69*	
		For 6", 150 Lb., Raised Face, ASME B16.5/316L Flange Fitting, Add	*1,508.89*	
		For 8", 150 Lb., Raised Face, ASME B16.5/316L Flange Fitting, Add	*6,905.00*	
46 82 83 00-2830	EA	Polypropylene Horn Antenna, Radar Sensor, Continuous Liquid Level Measurement (Vega PS67.UXB**HKNAX) Note: Two-wire 4 to 20mA/HART. FM (XP) CL I, DIV1, GP ABCD, (DIP) CL II, III, DIV1, GP EFG approval. -40 to 176 Degree F.	8,239.10	113.00
		For 3" 150 Lb., ASME/PP-GF30 Adapter Flange, Add	*426.24*	
		For 4" 150 Lb., ASME/PP-GF30 Adapter Flange, Add	*539.93*	
		For 6" 150 Lb., ASME/PP-GF30 Adapter Flange, Add	*641.05*	
		For 8" 150 Lb., ASME/PP-GF30 Adapter Flange, Add	*1,336.54*	
		For 170 mm Mounting Strap, Add	*141.66*	
		For 300 mm Mounting Strap, Add	*250.89*	
		For 3" Flange, Add	*479.58*	
46 82 83 00-2831	EA	Polypropylene Horn Antenna, Continuous Liquid Level Measurement (Vega PSWL61.KXB**HK*X) Note: Two-wire 4 to 20mA/HART. CSA CL 1 DIV 2 GP ABCD CLII DIV 2 approval. -40 to 176 Degree F. Plastic single chamber/IP68. Includes 19' cable.	4,495.67	113.00
		For 170 mm Mounting Strap, Add	*141.66*	
		For 39' Cable Length, Add	*85.39*	
		For 59' Cable Length, Add	*176.75*	
46 82 83 00-2832	EA	Wall Bracket With Rotary T Adapter (Vega MONTZUB WT ****)	1,406.02	
		For 205-305 mm Length Range With T Adapter, Add	*278.69*	
		For 340-440 mm Length Range With T Adapter, Add	*362.10*	
		For 150 mm Slide Holder Length, Add	*175.42*	
		For Thread G 1.5 Mounting, Add	*175.42*	
46 82 83 00-2833	EA	Plastic Housing (Vega DIS82.IXHKINACX) Note: Two-wire 4 to 20mA/HART. IP66/IP67 NEMA 4X. For carrier rail and wall mounting with plastic housing.	1,826.63	113.00
46 82 83 00-2834	EA	External Indicating And Adjustment Unit For Plics® Sensors (Vega DIS61.UFKNC) Note: FM(IS) CL I, II, III, DIV1, GP ABCDEF approval. Plastic/IP66/IP68 (0.2bar) housing.	1,675.70	113.00
46 82 83 00-2835	EA	Signal Conditoning And Display Instrument (Vega MET381.XX) Note: Two-Wire 4 to 20mA/HART. 110 VAC Input Power. For Wall Mounting w 3.78" x h 3.78" x d 3.55"	1,981.53	113.00
		NEMA 4x Enclosure (Vega ISO-GEH.BXX)	*347.53*	
46 82 83 00-2836	EA	Signal Conditoning And Display Instrument (Vega MET391.XX) Note: Two-Wire 4 to 20mA/HART. 110 VAC Input Power. For Wall Mounting w 3.78" x h 3.78" x d 3.55"	3,183.00	113.00
		NEMA 4x Enclosure (Vega ISO-GEH.AXX)	*708.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2837	EA	Signal Conditoning And Display Instrument (Vega MET625.UFX) Note: Two-Wire 4 to 20mA/HART with transmitter power supply. 253 VAC. 20 mA current output. 3 x relay outputs, 1 x fail safe relay, 1 x Ethernet(optional), 1 x RS232(optional). Mounting Carrier Rail 35 x 7.5 acc. to EN 50022.	4,239.49	113.00
46 82 83 00-2838	DAY	Vega Start Up And Training	2,307.62	
46 82 83 00-2839		Liquid Level Equipment And Instrumentation (E+H) *(46 82 83 00-2641)*		
46 82 83 00-2840	EA	Non-Hazardous Area, Ultrasonic Level Measurement (E+H FMU40-ANB2A4) Note: Process Connection: 1-1/2" NPT, PVDF; Power Supply; Output: 2-wire; 4-20mA HART; Operation: 4-line display VU331, envelope curve display on site; Housing: F12 aluminum, coated, IP68, NEMA 6P; Cable Entry: 1/2" NPT.	2,459.02	103.99
46 82 83 00-2841	EA	Level Input: 1x Sensor FDU9x/8x, Switch Output: 3x Relay, SPDT; Output: 1x 0/4-20mA HART, Non-Hazardous Area, Ultrasonic Level Measurement (E+H FMU90-R11CA131AA3A) Note: Application: Level + pump control, alternating; Housing: field mounting PC, IP66 NEMA 4x; Operation: illuminated display + keypad; Power Supply: 90-253VAC; Additional Input: without; Datalog Function: basic version.	3,029.91	103.99
46 82 83 00-2842	EA	Level Input: 1x Sensor FDU9x/8x, Switch Output: 6x Relay, SPDT; Output: 1x 0/4-20mA HART, Non-Hazardous Area, Ultrasonic Level Measurement (E+H FMU90-R11CA161AA3A) Note: Application: Level + pump control, alternating; Housing: field mounting PC, IP66 NEMA 4x; Operation: illuminated display + keypad; Power Supply: 90-253VAC; Additional Input: without; Datalog Function: basic version.	3,133.32	103.99
46 82 83 00-2843	EA	Level Input: 1x Sensor FDU9x/8x, Switch Output: 1x Relay, SPDT; Output: 1x 0/4-20mA HART, Non-Hazardous Area, Ultrasonic Level Measurement (E+H FMU90-R11CA111AA3A) Note: Application: Level + pump control, alternating; Housing: field mounting PC, IP66 NEMA 4x; Operation: illuminated display + keypad; Power Supply: 90-253VAC; Additional Input: without; Datalog Function: basic version.	2,723.91	103.99
46 82 83 00-2844	EA	Level Input: 2x Sensor FDU9x/8x, Switch Output: 3x Relay, SPDT; Output: 2x 0/4-20mA HART, Non-Hazardous Area, Ultrasonic Level Measurement (E+H FMU90-R11CA232AA3A) Note: Application: Level + pump control, alternating; Housing: field mounting PC, IP66 NEMA 4x; Operation: illuminated display + keypad; Power Supply: 90-253VAC; Additional Input: without; Datalog Function: basic version.	3,797.03	103.99
46 82 83 00-2845	EA	Level Input: 1x Sensor FDU9x/8x, Switch Output: 1x Relay, SPDT; Output: 1x 0/4-20mA HART, Non-Hazardous Area, Ultrasonic Level Measurement (E+H FMU90-R21CA111AA3A) Note: Application: Flow + totalizer + level + sample control + preprogrammed OCM flow curves; Housing: field mounting PC, IP66 NEMA 4x; Operation: illuminated display + keypad; Power Supply: 90-253VAC; Additional Input: without; Datalog Function: basic version.	3,107.48	103.99
46 82 83 00-2846	EA	Non-Hazardous Area, Ultrasonic Sensor (E+H FDU90-2D09/0) Note: Process Connection: 1" NPT PVDF rear side, 1-1/2" NPT front side; Cable Length: 100'; Heater: without.	1,387.91	103.99
46 82 83 00-2847	EA	1,000 mm, Zinc Coated Steel, FDU9x Ultrasonic Sensor Support (E+H ZPFDU-A)	639.29	52.00
46 82 83 00-2848	EA	Zinc Coated Steel, Sensor Support Wall Bracket (E+H ZPF-A)	283.14	52.00
46 82 83 00-2849	EA	Without Cable, Non-Hazardous Area, Temperature Probe (E+H FMT131-R7) Note: IP66.	716.80	103.99
46 82 83 00-2850	EA	16' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU91-RNAAA) Note: Process Connection: 1" NPT, PVDF; Heater: without.	1,071.14	103.99
46 82 83 00-2851	EA	1" NPT, PVDF Process Connection, 16' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU92-RNAA)	1,614.33	103.99
46 82 83 00-2852	EA	1" NPT, UP Process Connection, 16' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU95-R1NAA) Note: Temperature; Blocking Distance; Material: -40 to 176 degree F; 2.3'; Membrane: 316L, PE coated.	2,839.53	103.99
46 82 83 00-2853	EA	1" NPT Rear Side, 1-1/2" NPT Front Side PVDF Process Connection, 16' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU90-10A1/0) Note: Heater: without.	999.23	103.99
46 82 83 00-2854	EA	1" NPT Rear Side, 1-1/2" NPT Front Side PVDF Process Connection, 32' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU90-12N6/0) Note: Heater: without.	1,076.82	103.99
46 82 83 00-2855	EA	1" NPT Rear Side, 1-1/2" NPT Front Side PVDF Process Connection, 65' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU90-13A9/0) Note: Heater: without.	1,231.95	103.99
46 82 83 00-2856	EA	1" NPT Rear Side, 1-1/2" NPT Front Side PVDF Process Connection, 98' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU90-11R8/0) Note: Heater: without.	1,408.64	103.99
46 82 83 00-2857	EA	Flood Protection Tube, 1" NPT Rear Side, 1-1/2" NPT Front Side PVDF Process Connection, 16' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU90-13V3/0) Note: Heater: without.	1,098.40	103.99
46 82 83 00-2858	EA	2" Screw In Flange (E+H FAX50-1265/0) Note: Material: Universal, PVDF, maximum 58 psia, suitable for 2" NPS Class 150, PN16/10K 50; Sensor Connection: 1-1/2" NPT.	539.39	64.99
46 82 83 00-2859	EA	3" Screw In Flange (E+H FAX50-10R4/0) Note: Material: Universal, PVDF, maximum 58 psia, suitable for 3" NPS Class150, PN16/10K 80; Sensor Connection: 1-1/2" NPT.	646.95	82.98
46 82 83 00-2860	EA	4" Screw In Flange (E+H FAX50-11F2/0) Note: Material: Universal, PVDF, maximum 58 psia, suitable for 4" NPS Class 150, PN16/10K 100; Sensor Connection: 1-1/2" NPT	835.57	139.27
46 82 83 00-2861	EA	6" Screw In Flange (E+H FAX50-13R1/0) Note: Material: Universal, PVDF, maximum 58 psia, suitable for 6" NPS Class 150, PN16/10K 150; Sensor Connection: 1-1/2" NPT	1,237.45	176.12
46 82 83 00-2862	EA	1" NPT, PVDF Process Connection, 16' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU91-RN1AA) Note: Heater: without.	1,071.14	103.99
46 82 83 00-2863	EA	1" NPT, PVDF Process Connection, 32' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU91-RN2AA) Note: Heater: without.	1,148.71	103.99

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2864	EA	1" NPT, PVDF Process Connection, 65' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU91-RN4AA) Note: Heater: without.	1,303.84	103.99
46 82 83 00-2865	EA	1" NPT, PVDF Process Connection, 98' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU91-RN6AA) Note: Heater: without.	1,480.53	103.99
46 82 83 00-2866	EA	Approval: ATEX II 1/2 D Ex ta/tb IIIC, ATEX II 2 G Ex ma IIC T6, 1" NPT, PVDF Process Connection, 16' Cable Length, Ultrasonic Sensor (E+H FDU91-EN1AA) Note: Heater: without.	1,497.83	103.99
46 82 83 00-2867	EA	1" NPT, PVDF Process Connection, 16' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU92-RN1A)	1,543.72	103.99
46 82 83 00-2868	EA	1" NPT, PVDF Process Connection, 32' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU92-RN2A)	1,621.29	103.99
46 82 83 00-2869	EA	1" NPT, PVDF Process Connection, 65' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU92-RN4A)	1,776.42	103.99
46 82 83 00-2870	EA	1" NPT, PVDF Process Connection, 98' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU92-RN6A)	1,953.13	103.99
46 82 83 00-2871	EA	Approval: ATEX II 1/2 D Ex ta/tb IIIC, ATEX II 2 G Ex ma IIC T6, 16' Cable Length, , Ultrasonic Sensor (E+H FDU92-EN1A)	1,970.43	103.99
46 82 83 00-2872	EA	1" NPT, PVDF Process Connection, 16' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU93-RN1A)	2,286.94	103.99
46 82 83 00-2873	EA	1" NPT, PVDF Process Connection, 32' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU93-RN2A)	2,364.52	103.99
46 82 83 00-2874	EA	1" NPT, PVDF Process Connection, 65' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU93-RN4A)	2,519.64	103.99
46 82 83 00-2875	EA	1" NPT, PVDF Process Connection, 98' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU93-RN6A)	2,696.33	103.99
46 82 83 00-2876	EA	Approval: ATEX II 1/2 D Ex ta/tb IIIC, 1" NPT, PVDF Process Connection, 16' Cable Length, Ultrasonic Sensor (E+H FDU93-EN1A)	2,713.63	103.99
46 82 83 00-2877	EA	1" NPT, UP Process Connection, 16' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU95-R1N1A) Note: Temperature; Blocking Distance; Material: -40 to 176 degree F; 2.3'; Membrane: 316L, PE coated.	2,801.52	103.99
46 82 83 00-2878	EA	1" NPT, UP Process Connection, 32' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU95-R1N2A) Note: Temperature; Blocking Distance; Material: -40 to 176 degree F; 2.3'; Membrane: 316L, PE coated.	2,879.12	103.99
46 82 83 00-2879	EA	1" NPT, UP Process Connection, 65' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU95-R1N4A) Note: Temperature; Blocking Distance; Material: -40 to 176 degree F; 2.3'; Membrane: 316L, PE coated.	3,034.24	103.99
46 82 83 00-2880	EA	1" NPT, UP Process Connection, 98' Cable Length, Non-Hazardous Area, Ultrasonic Sensor (E+H FDU95-R1N6A) Note: Temperature; Blocking Distance; Material: -40 to 176 degree F; 2.3'; Membrane: 316L, PE coated.	3,210.93	103.99
46 82 83 00-2881	EA	Level Input: 1x Sensor FDU9x/8x, Switch Output: 1x Relay, SPDT; Output: 1x 0/4-20mA HART, Non-Hazardous Area, Ultrasonic Transmitter (E+H FMU90-R11CA111AA1A) Note: Application: level + pump control, alternating; Housing: field mounting PC, IP66, NEMA 4x; Operation: illuminated display + keypad; Power Supply: 90-253VAC; Additional Input: without; Datalog Function: basic version.	2,723.91	103.99
46 82 83 00-2882	EA	Level Input: 1x Sensor FDU9x/8x, Switch Output: 1x Relay, SPDT; Output: PROFIBUS DP, Non-Hazardous Area, Ultrasonic Transmitter (E+H FMU90-R11CA113AA1A) Note: Application: level + pump control, alternating; Housing: field mounting PC, IP66 NEMA 4x; Operation: illuminated display + keypad; Power Supply: 90-253VAC; Additional Input: without; Datalog Function: basic version.	3,133.32	103.99
46 82 83 00-2883	EA	Level Input: 2x Sensor FDU9x/8x, Switch Output: 3x Relay, SPDT; Output: 2x 0/4-20mA HART, Non-Hazardous Area, Ultrasonic Transmitter (E+H FMU90-R11CA232AA1A) Note: Application: level + pump control, alternating; Housing: field mounting PC, IP66 NEMA 4x; Operation: illuminated display + keypad; Power Supply: 90-253VAC; Additional Input: without; Datalog Function: basic version.	3,796.90	103.99
46 82 83 00-2884	EA	Level Input: 1x Sensor FDU9x/8x, Switch Output: 3x Relay, SPDT Output: 1x 0/4-20mA HART, Non-Hazardous Area, Ultrasonic Transmitter (E+H FMU90-R21CA131AA1A) Note: Application: flow + totalizer + level + sample control + preprogrammed OCM flow curves; Housing: field mounting PC, IP66 NEMA 4x; Operation: illuminated display + keypad; Power Supply: 90-253VAC; Additional Input: without; Datalog Function: basic version.	3,413.45	103.99
46 82 83 00-2885	DAY	E+H, Level Instrumentation, Start Up And Training	3,461.44	

46 82 83 00-2886 Liquid Level Equipment And Instrumentation (Wastewater) *(46 82 83 00-2641)*

46 82 83 00-2887	EA	3' FOGRod With 50' of Cable, Cleaning Bracket And Level Indicator Transmitter (Wastewater Level Level-3-50)	2,390.95	103.99
46 82 83 00-2888	EA	3' FOGRod With 100' of Cable, Cleaning Bracket And Level Indicator Transmitter (Wastewater Level Level-3-100)	2,567.29	103.99
46 82 83 00-2889	EA	5' FOGRod With 50' Cable, Cleaning Bracket And Level Indicator Transmitter (Wastewater Level Level-5-50)	2,521.97	103.99
46 82 83 00-2890	EA	5' FOGRod With 100' Cable, Cleaning Bracket And Level Indicator Transmitter (Wastewater Level Level-5-100)	2,699.14	103.99
46 82 83 00-2891	EA	7' FOGRod With 50' Cable, Cleaning Bracket And Level Indicator Transmitter (Wastewater Level Level-7.5-50)	2,521.97	103.99
46 82 83 00-2892	EA	7' FOGRod With 100' Cable, Cleaning Bracket And Level Indicator Transmitter (Wastewater Level Level-7.5-100)	2,699.55	103.99
46 82 83 00-2893	EA	Mains To 12 Volt DC Power Supply (Wastewater Level PSU-12-NB) Note: Excludes battery backup.	214.21	41.60
46 82 83 00-2894	EA	Mains To 24V DC Power Supply (Wastewater Level PSU-24-NB) Note: Excludes battery backup.	214.21	41.60
46 82 83 00-2895	EA	Level Indicator Transmitter (Wastewater Level LIT-100)	1,356.05	
46 82 83 00-2896	EA	5' Replacement FOGRod Level Probe With 50' Cable (Wastewater Level FOG-5-50)	1,444.22	
46 82 83 00-2897	EA	7.5' Replacement FOGRod Level Probe With 50' Cable (Wastewater Level FOG-7.5-50)	1,444.22	
46 82 83 00-2898	EA	5' Replacement FOGRod Level Probe With 100' Cable (Wastewater Level FOG-5-100)	1,620.57	
46 82 83 00-2899	EA	7.5' Replacement FOGRod Level Probe With 100' Cable (Wastewater Level FOG-7.5-100)	1,620.57	
46 82 83 00-2900	EA	Extended Warranty On Level Indicator Transmitter From 2 Years To 5 Years (Wastewater Level LIT-EW5)	323.44	
46 82 83 00-2901	DAY	FOGRod Start Up And Training	1,957.10	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2902		**Analytical Equipment And Instrumentation** *(46 82 83 00-0001)*		
46 82 83 00-2903		**Analytical Equipment And Instrumentation (ABB)** *(46 82 83 00-2902)*		
46 82 83 00-2904	EA	Dissolved Oxygen Transmitter, Floating Ball Design. Model: ABB Instrumentation, Floating Ball Design Model #AX480/10001, One Loop Control	2,273.03	44.86
46 82 83 00-2905	EA	Dissolved Oxygen Floating Ball Kit. Model: ABB Instrumentation, Model #9408-760, One Loop Control	2,502.77	44.86
46 82 83 00-2906	EA	Dissolved Oxygen Indicator. Model: ABB Instrumentation, Commander 150 Model #C150/0000STD, One Loop Control	863.06	29.92
46 82 83 00-2907	EA	Dissolved Oxygen Sensor Capsule Replacement Kit. Model: ABB Instrumentation Model #SP9-408XXX, One Loop Control	460.59	29.92
46 82 83 00-2908	EA	Conductivity Transmitter. Model: ABB Instrumentation, Model #TB84EC.1000200	3,238.13	59.82
46 82 83 00-2909	EA	Conductivity Sensor, Epoxy Twist Lock Connection, In-line Mount. Model: ABB Instrumentation, Model #TB454.O.E.2.1.2	914.36	29.92
46 82 83 00-2910	EA	pH Transmitter. Model: ABB Instrumentation, Model #TB84PH.1000200	3,133.30	44.86
46 82 83 00-2911	EA	pH Sensor, Epoxy Twist Lock Connection, In-line Mount. Model: ABB Instrumentation, Model #TB551-21103F05	1,176.57	29.92
46 82 83 00-2912	EA	ORP Transmitter. Model: ABB Instrumentation, Model TB84PH.1000200	3,133.30	44.86
46 82 83 00-2913	EA	ORP Sensor, Epoxy Twist Lock Connection, In-line Mount. Model: ABB Instrumentation, Model #TB551-21103F05	1,176.57	29.92
46 82 83 00-2914		**Analytical Equipment And Instrumentation (Blue I Technologies)** *(46 82 83 00-2902)*		
46 82 83 00-2915	EA	4-20mA Output, 120 Volt AC/60 Hertz/1 Phase, Field Mount Total Residual Chlorine Analyzer (Blue I Technologies HG702)	7,225.34	84.75
46 82 83 00-2916	EA	Amperometric, Submersible, Total Residual Chlorine Probe With 30' Cable (Blue I Technologies TRC101)	4,531.91	56.50
46 82 83 00-2917	EA	Handrail Mounting Probe Pole Bracket (Blue I Technologies PRB123)	1,941.49	28.25
46 82 83 00-2918		**Analytical Equipment And Instrumentation (Entech Design)** *(46 82 83 00-2902)*		
46 82 83 00-2919	EA	One 4-20mA Output, Standard Interface, EchoSmart Sensor (Entech Design ESS-16001)	4,032.19	84.75
46 82 83 00-2920	EA	One 4-20mA Output, Wiper Interface, EchoSmart Sensor (Entech Design ESS-26001)	4,677.34	98.31
46 82 83 00-2921	EA	Two 4-20mA Outputs, Interface And Turbidity Wiper Service, EchoSmart Sensor (Entech Design ESS-36001)	5,427.74	113.00
46 82 83 00-2922	EA	One 4-20mA Isolated Output, 115/230 Volt AC, Standard Level EchoSmart Controller (Entech Design ESC-1100110)	4,848.93	101.70
46 82 83 00-2923	EA	115/230 Volt AC, Wired, Combined Level And Turbidity, EchoSmart Controller (Entech Design ESC-210020)	5,013.73	101.70
46 82 83 00-2924	EA	1 To 4 Sensors Network, 30 days, Factory Remote Startup And Service (Entech Design ESA1-0)	1,861.09	39.55
46 82 83 00-2925	EA	5 To 16 Sensors, 30 Days, Factory Remote Startup And Service (Entech Design ESA-20)	1,861.09	39.55
46 82 83 00-2926	EA	Round Handrail Controller Mount With Weathershield (Entech Design 9300-16RH)	1,173.60	25.42
46 82 83 00-2927	EA	Square Handrail Controller Mount With Weathershield (Entech Design 9300-16SH)	1,173.60	25.42
46 82 83 00-2928	EA	Controller Floor Mount With Weathershield (Entech Design 9300-16F)	1,173.60	25.42
46 82 83 00-2929	EA	Sensor Multi-Flex Assembly (Entech Design 9300-13-13)	646.28	14.13
46 82 83 00-2930	EA	Stainless Steel, Sensor Fixed Bracket Mounting Kit (Entech Design 9300-14-01)	646.28	14.13
46 82 83 00-2931	EA	Aluminum, Sensor Fixed Bracket Mounting Kit (Entech Design 9300-14-02)	428.97	8.48
46 82 83 00-2932	EA	Stainless Steel, Sensor Side Pivot Knuckle (Entech Design 9300-15-01)	1,126.75	22.60
46 82 83 00-2933	EA	Controller Mounting Bracket (Entech Design ESC9510)	96.66	1.98
46 82 83 00-2934	EA	Sensor Wiper Blade Assembly Replacement (Entech Design 9306-54-19)	58.44	1.42
46 82 83 00-2935	LF	400' Sensor Cable (Entech Design 9500-24)	6.35	0.34
46 82 83 00-2936	LF	800' Sensor Cable (Entech Design 9500-24b)	8.61	0.34
46 82 83 00-2937	HR	Portal To Portal, On-Site Training And Field Service	319.32	
46 82 83 00-2938	EA	EchoSmart Print Operation And Maintainence Manual	55.62	
46 82 83 00-2939	EA	One Set Of Standard Equipment Submittal Documents	55.62	
46 82 83 00-2940		**Analytical Equipment And Instrumentation (Foxboro)** *(46 82 83 00-2902)*		
46 82 83 00-2941	EA	Dissolved Oxygen Sensor, 4-20mA Output. Model: Foxboro Company #871DO-C-7	1,876.97	29.92
46 82 83 00-2942	EA	Dissolved Oxygen Transmitter, 4-20mA Output, Model: Foxboro Company #873DO-AIPFGZ	2,301.78	44.86
46 82 83 00-2943		**Analytical Equipment And Instrumentation (Great Lakes)** *(46 82 83 00-2902)*		
46 82 83 00-2944	EA	pH Analyzer, 0-14pH Range, 4-20mAdc, 2 SPDT And 1 SPST Relays, NEMA 4X, Mounting Hardware Included. Model Great Lakes Industries #P53A2A1N	2,640.07	56.50
46 82 83 00-2945	EA	pH Sensor, Encapsulated, 5-Wire, Liquid Polymer Crystal Body, Integral Preamplifier Included, 10' Cable. Model: Great Lakes Industries #6028P010	1,839.89	29.92
46 82 83 00-2946	EA	ORP Analyzer, 4-20mAdc, 2SPDT And 1 SPST Relays, NEMA 4X, Mounting Hardware Included. Model: Great Lakes Industries #P53A2A1N	2,640.07	56.50
46 82 83 00-2947	EA	ORP Sensor, Encapsulated, 5-Wire, Liquid Polymer Crystal Body, Integral Preamplifier Included, 10' Cable. Model: Great Lakes Industries #2028R010	1,998.83	29.92
46 82 83 00-2948	EA	Dissolved Oxygen Analyzer, NEMA 4X, With Mounting Hardware, 0-40ppm, 4-20mAdc, 2 SPDT Relays. Model: Great Lakes Industries #D53A4A3N	3,116.87	56.50
46 82 83 00-2949	EA	Dissolved Oxygen Sensor, Submersion, 15" Cable. Model: Great Lakes Industries #5540D0C	2,332.59	29.92
		For Washer Head Air Blast Cleaning Assembly, Add	*225.00*	
46 82 83 00-2950	EA	Residual Chlorine Monitoring System, 0-5ppm, Two 4-20mAdc Relays, NEMA 4X. Model: Great Lakes industries #AC1000P1 AccuChlor	9,490.16	56.50
46 82 83 00-2951		**Analytical Equipment And Instrumentation (Honeywell Analytics)** *(46 82 83 00-2902)*		
46 82 83 00-2952	EA	3 Relay Outputs, 4-20ma Output, Gas Detection Transmitter (Honeywell Analytics XNX-UTAV-RNNNN) Note: Configured for Remote Infrared LEL Detector	1,818.82	36.16
46 82 83 00-2953	EA	0-100%LEL Range, Gas Detection, Infrared Remote Sensor (Honeywell Analytics MPD-UTIV1)	1,919.71	56.50
46 82 83 00-2954	EA	Calibration Gas Flow Detector For MPD LEL Sensor (Honeywell Analytics 1226-A0411)	167.71	28.25
46 82 83 00-2955	EA	3 Relay Outputs, 4-20ma Output, Gas Detection Transmitter (Honeywell Analytics XNX-UTAV-RNNNN) Note: Configured For Remote Electrochemical Detector	2,517.20	36.16

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2956	EA	0-25% Oxygen, Electrochemical Type, Gas Detection Sensor (Honeywell Analytics XNXXSO1SS)	919.28	56.50
46 82 83 00-2957	EA	0-300ppm Carbon Monoxide, Electrochemical Type, Gas Detection Sensor (Honeywell Analytics XNXXDC1SS)	1,015.32	56.50
46 82 83 00-2958	EA	16 Inputs, Modbus Communications, (4) 5 Amperes Common Relays, (32) 5-Amp Discrete Relays, 150 Watt Power Supply, UL/CSA Approved, Gas Detection Control and Annunciation Panel With NEMA 4X Enclosure (Honeywell Analytics HA71N4-16)	17,317.66	125.43
46 82 83 00-2959	EA	Nitrogen, Calibration Gas Cannister (Honeywell Analytics 2992-0011)	485.59	14.69
46 82 83 00-2960	EA	50% LEL, Methane, Calibration Gas Cannister (Honeywell Analytics 998-022-001)	454.69	14.69
46 82 83 00-2961	EA	100 ppm, Carbon Monoxide, Calibration Gas Cannister (Honeywell Analytics 998-021-001)	454.69	14.69
46 82 83 00-2962	EA	Zero Air, Calibration Gas Cannister (Honeywell Analytics 998-023-001)	454.69	14.69
46 82 83 00-2963	EA	Calibration Kit For Toxic Gas Detection Sensor And Transmitters (Honeywell Analytics XNXTOXKIT)	769.29	28.25
46 82 83 00-2964	EA	Calibration Kit For Combustible Gas Detection Sensor And Transmitters (Honeywell Analytics XNXCOMBKIT)	769.29	28.25
46 82 83 00-2965	EA	0-1,000 ppm, Hydrogen, Electrochemical Type, Gas Detection Sensor (Honeywell Analytics XNXXSG1SS)	1,121.84	56.50
46 82 83 00-2966	EA	Portable Gas Detector (Honeywell Analytics MCXL-XWHM-Y-NA)	1,437.64	56.50

46 82 83 00-2967 Analytical Equipment And Instrumentation (MSA) *(46 82 83 00-2902)*

46 82 83 00-2968 Gas Detection System Controllers *(46 82 83 00-2967)*

46 82 83 00-2969	EA	8 Channel, NEMA 4X Controller For Analog 4-20mA Detectors (MSA GasGard XL-51) Note: Includes 5 channel cards, 10 discrete relays, 2 common relays, Modbus RTU Ethernet output and 100W power supply	11,105.28	113.00
		For Extra Channel Card, Add	*932.84*	
		For Relay Module With 8 Discrete Relays, Add	*734.61*	
		For Battery Backup, Add	*431.44*	
46 82 83 00-2970	EA	8 Channel, 16 Discrete Relays, 2 Common Relays, Modbus RTU And Ethernet Output, NEMA 4X Controller (MSA GasgardXL8200) Note: Price Includes Delivery ($50.00)	15,264.72	113.00
		For Battery Backup, Add	*414.08*	
46 82 83 00-2971	EA	4 Channel, NEMA 7 Explosion Proof Controller For Analog 4-20mA Detectors (MSA A-9000 XD0020100) Note: Includes 2 dual channel cards with independent AC/DC power supplies, 4 relays each and analog retransmission.	13,752.23	113.00
46 82 83 00-2972	EA	25 Channel, NEMA 4X Controller For Modbus Detectors (MSA Modcon75 DSK-3204-178) Note: Includes NEMA 4X wall mount enclosure and 100W power supply.	13,710.25	113.00
46 82 83 00-2973	EA	25 Channel, NEMA 7 Explosion Proof Controller For Modbus Detectors (MSA Modcon75 DSK-3204-230) Note: Class I, Div 1. Includes XP horn, horn silence button, custom NYCDEP relay logic and 240W power supply for sensors.	57,549.25	113.00
46 82 83 00-2974	EA	25 Channel, Panel Mount Controller For Modbus Detectors MSA Modcon75 10081284) Note: Requires power supply and wiring integration.	9,682.70	113.00

46 82 83 00-2975 Gas Detection System Accessories *(46 82 83 00-2967)*

46 82 83 00-2976	EA	Calibration Kit With 1.5 L/Min Regulator, Plastic Carrying Case, 20.8% O2 Zero Gas Cylinder And Tubing	1,455.24	
		For 100 PPM Carbon Monoxide (MSA 10028052), Add	*559.71*	
		For 40 PPM Hydrogen Sulfide (MSA 10028062), Add	*559.71*	
		For 50% LEL Methane (MSA 10028032), Add	*559.71*	
		For 0.6% Propane (MSA 10028034), Add	*559.71*	
46 82 83 00-2977	EA	3 Button IR Calibrator For Ultima And Trigard (MSA 809997)	746.28	
46 82 83 00-2978	EA	Handheld Controller For Ultima X And Trigard (MSA 809086)	2,346.12	

46 82 83 00-2979 Gas Detection System Spare Parts *(46 82 83 00-2967)*

46 82 83 00-2980	EA	Combination Gas, Infra-Red, Methane, Stainless Steel Sensor With XP, IR, NPT Enclosure (MSA A-ULTX-SENS-38-1-0) Note: Price Includes Delivery ($5.00)	2,667.52	56.50
46 82 83 00-2981	EA	0-25%, Stainless Steel, Oxygen Sensor With XP Or GP Enclosure (MSA A-ALTX-SENS-14-1-0) Note: Price Includes Delivery ($5.00)	1,035.92	56.50
46 82 83 00-2982	EA	0-100 PPM, Stainless Steel, Hydrogen Sulfide Sensor With XP Or GP Enclosure (MSA A-ULTX-SENS-17-1-0) Note: Price Includes Delivery ($5.00)	1,194.55	56.50
46 82 83 00-2983	EA	Combination Gas, Natural Gas And Hydrogen, Stainless Steel Sensor With XP Or GP Enclosure (MSA A-ULTX-SENS-31-1-0) Note: Price Includes Delivery ($5.00)	1,194.55	56.50
46 82 83 00-2984	EA	Three 3-Wire mA, 1 LED, Remote Housing, UL Enclosure, Explosion Proof Hydrogen Sulfide And Oxygen Transmitter (MSA A-ULTIMAX-XP-E01U3D10000100) Note: Price Includes Delivery ($10.00)	3,442.06	54.24
46 82 83 00-2985	EA	Three 3-Wire mA, 1 LED, Remote Housing, UL Enclosure, Explosion Proof Combination Infra-Red Transmitter (MSA A-ULTIMAX-XP-E02U3D10000100) Note: Price Includes Delivery ($10.00)	3,442.06	54.24
46 82 83 00-2986	EA	Three 3-Wire mA, 1 LED, Remote Housing, UL Enclosure, Explosion Proof Hydrogen Transmitter (MSA A-ULTIMAX-XP-E03U3D10000100) Note: Price Includes Delivery ($10.00)	3,442.06	54.24
46 82 83 00-2987	EA	m Network 2, 4-Wire Modbus, 1 LED, Stainless SteelNPT Threads Enclosure, Explosion Proof Transmitter (MSA A-ULTIMAX3-E1M100000001000000000) Note: Price Includes Delivery ($10.00)	4,680.18	54.24
46 82 83 00-2988	EA	H2S Sensor, 0-50 PPM For Ultima XE Stainless Steel (MSA A-ULTX-SENS1610)	1,209.09	56.50
46 82 83 00-2989	EA	Oxygen Sensor, 2-25% For Ultima XE Stainless Steel (MSA A-ULTX-SENS1410)	1,022.52	56.50
46 82 83 00-2990	EA	CO Sensor, 0-100 PPM For Ultima XE Stainless Steel (MSA A-ULTX-SENS1110)	1,209.09	56.50
46 82 83 00-2991	EA	Combustion Gas Sensor, 0-100% LEL For Ultima XE Stainless Steel (MSA A-ULTX-SENS3110)	1,022.52	56.50
46 82 83 00-2992	EA	Combustion Gas Sensor, IR 0-100% LEL For Ultima XE Stainless Steel (MSA A-ULTX-SENS3810)	2,713.30	56.50
46 82 83 00-2993	EA	Printed Circuit Board For Ultima XE Without Relays (MSA A-ULTX-PCBE41000)	2,278.74	
46 82 83 00-2994	EA	Printed Circuit Board For Ultima XE With Relays (MSA A-ULTX-PCBE43000)	2,756.82	
46 82 83 00-2995	EA	Printed Circuit Board For Ultima X3 Without Relays (MSA A-ULTX-PCBM1000)	2,278.74	
46 82 83 00-2996	EA	Printed Circuit Board For Ultima X3 With Relays (MSA A-ULTX-PCBM3000)	2,756.82	
46 82 83 00-2997	EA	Oxygen Sensor For B-Ultima (MSA 813723)	1,092.49	56.50

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-2998	EA	H2S Sensor For B-Ultima 0-50 PPM (MSA 813616)	1,535.59	56.50
46 82 83 00-2999	EA	CO Sensor For B-Ultima 0-100 PPM (MSA 813613)	1,535.59	56.50
46 82 83 00-3000	EA	Combustible Gas Sensor For B-Ultima (MSA 813624)	1,535.59	56.50
46 82 83 00-3001	EA	Pump And Drive For Ultima X Sampling Module (MSA 815395)	1,491.94	56.50
46 82 83 00-3002	EA	High Capacity End Of Line Dust/Moisture Filter (MSA 10015787)	669.36	28.25
46 82 83 00-3003	EA	End Of Line Dust/Moisture Filter (MSA 711561)	161.44	28.25

46 82 83 00-3004 General Purpose, Fixed Gas Detection Monitors *(46 82 83 00-2967)*

46 82 83 00-3005	EA	Three 3-Wire mA Output, 1 LED, No Relays, UL Approved, Remote Mounted, Explosion Proof Hydrogen Gas Detector With Display (MSA A-ULTIMAX-XP-E31UD10000100) Note: Price Includes Delivery ($10.00)	5,067.23	113.00
46 82 83 00-3006	EA	20 Analog Input Channels, 30 Relays, 240W, Control System (MSA A-GASGARD1002300111) Note: Price Includes Delivery ($50.00)	35,400.14	113.00
46 82 83 00-3007	EA	Stainless Steel, Tri Gas Wet Well Monitor Note: Price Includes Delivery ($50.00)	29,994.43	113.00
		For 100 Watt Heater For Low Temperature Applications, Add	*7,305.11*	
46 82 83 00-3008	EA	Trigard Multigas Detector (MSA A-TRIGARD-AM1) Note: Includes power supply, relays, mounting bracket and Modbus output. Choose up to 3 GP sensors.	3,502.60	113.00
		For 0-500 PPM Carbon Monoxide, Or 0-25% Oxygen Or 1-100% LEL Cat Bead, Add	*1,714.10*	
		For Battery Backup, Add	*349.82*	
		For Red Or Amber Strobe, Add	*466.42*	

46 82 83 00-3009 Explosion Proof, Fixed Gas Detection Monitors *(46 82 83 00-2967)*

46 82 83 00-3010	EA	Combustible Gas Detector (MSA Ultima X A-ULTIMAX-XPE38U4D10000100) Note: Includes 0-100% LEL IR Sensor, LCD, LEDa, 3 wire 4-20mA HART output, no relays, remote mounted sensor and mounting bracket.	6,751.66	113.00
		For OnBoard Relays, Add	*484.12*	
		For Built In 120 Volt AC / 24 Volt DC Power Supply, Add	*920.86*	
46 82 83 00-3011	EA	Oxygen Gas Detector (MSA Ultima X A-ULTIMAX-XPE14U4D10000100) Note: Includes 0-25% O2 Sensor, LCD, LEDs, 3 wire 4-20mA HART output, locally mounted sensor, no relays and mounting bracket.	5,355.64	113.00
		For OnBoard Relays, Add	*484.12*	
		For Built In 120 Volt AC / 24 Volt DC Power Supply, Add	*920.86*	
46 82 83 00-3012	EA	Hydrogen Sulfide Detector (MSA Ultima X A-ULTIMAX-XPE17U4D10000100) Note: Includes 0-100 PPM H2S Sensor, LCD, LEDa, 3 wire 4-20mA HART output, no relays, remote mounted sensor and mounting bracket.	5,355.64	113.00
		For OnBoard Relays, Add	*484.12*	
		For Built In 120 Volt AC / 24 Volt DC Power Supply, Add	*920.86*	
46 82 83 00-3013	EA	Ultima X3 Multigas Explosion Proof Multigas Detector (MSA A-UltimaX3-E1M10000381100000000) Note: Inludes local 0-25% O2 sensor, remote XP 0-100 PPM H2S sensor, remote XP 0-100% LEL IR sensor and Modbus output.	6,591.70	113.00
		For OnBoard Relays, Add	*484.12*	
		For Built In 120 Volt AC / 24 Volt DC Power Supply, Add	*920.86*	
46 82 83 00-3014	EA	Explosion Proof DC Sampling Pump For Ultima X Gas Detector (MSA 10043264) Note: Includes flow switch, filters and requires flow caps.	3,522.06	56.50
		For Standard Flow Cap, Add	*468.75*	
		For IR Sensor Flow Cap (MSA 10042600), Add	*673.65*	
		For Wall Mounting Bracket (MSA 10047651), Add	*105.07*	
		For End Of Line Filter, Add	*568.59*	
		For 1/4" Sample Tubing, Add	*14.42*	
46 82 83 00-3015	EA	Oxygen Gas Detector (MSA Ultima X A-ULTIMAX-PLA1404S10000100) Note: Includes 0-25% O2 Sensor, LCD, LEDs, 3 wire 4-20mA HART output, no relays and mounting bracket.	4,178.92	113.00
		For OnBoard Relays, Add	*484.12*	
		For Built In 120 Volt AC / 24 Volt DC Power Supply, Add	*920.86*	
46 82 83 00-3016	EA	Carbon Monoxide Gas Detector (MSA Ultima X A-ULTIMAX-PLA1204S10000100) Note: Includes 0-500 PPM CO Sensor, LCD, LEDs, 3 wire 4-20mA HART output, no relays and mounting bracket.	4,178.92	113.00
		For OnBoard Relays, Add	*484.12*	
		For Built In 120 Volt AC / 24 Volt DC Power Supply, Add	*920.86*	
46 82 83 00-3017	EA	Analog/HART Ouput, Combustible, Infra-Red 5% Methane Sensor, Stainless Steel "New Technology" Gas Monitor (MSA UltimaX5000F000AA000) Note: Price Includes Delivery ($10.00)	6,929.56	113.00
46 82 83 00-3018	EA	Catalytic 5% Methane, Stainless Steel, Gas Monitor With Remote Junction Box (MSA UltimaX5000F00060000)	5,926.29	113.00
46 82 83 00-3019	EA	0-50 PPM, Hydrogen Sulfide, Stainless Steel, Gas Monitor With Remote Junction Box (MSA UltimaX5000F00021000)	6,035.47	113.00
46 82 83 00-3020	EA	Stainless Steel, Oxygen. Gas Monitor With Remote Junction Box (MSA UltimaX5000F00016000)	5,817.10	113.00
46 82 83 00-3021	EA	0-100 PPM, Stainless Steel, Carbon Monoxide, Gas Monitor With Remote Junction Box (MSA UltimaX5000F00010000)	6,035.47	113.00
		For Relays, Add	*436.74*	

46 82 83 00-3022 Analytical Equipment And Instrumentation (Powers) *(46 82 83 00-2902)*

46 82 83 00-3023	EA	Chlorination PID Controller, Analog Output, Five Digital Inputs. Model: Powers Process Control #555-20000BD000	3,904.56	70.62

46 82 83 00-3024 Analytical Equipment And Instrumentation (Pulsar, Inc.) *(46 82 83 00-2902)*

46 82 83 00-3025	EA	Level Monitoring System, Continuous Measurement Sensor For Liquids Or Slurries, Pulsar Model: Merit-80	2,211.96	56.50
46 82 83 00-3026	EA	Level Monitoring (Non-Isolation Output) Pulsar Model: Blackbox 130	1,687.22	56.50
46 82 83 00-3027	EA	Level Monitoring, Digital Communication - Modbus RTU Pulsar Model: Blackbox 134	1,818.40	56.50
46 82 83 00-3028	EA	Level Monitoring, Digital Communication - Profibus DP Pulsar Model: Blackbox 135	2,343.14	56.50
46 82 83 00-3029	EA	Level Controller System, For Liquid, Slurry Or Solids Pulsar Model: Vanguard 90	2,395.62	56.50

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3030	EA	Level Controller System, For Liquid Or Solids Pulsar Model: Vanguard 100	2,710.46	56.50
46 82 83 00-3031	EA	Flow, RTU And Pump Controller Pulsar Model: Zenith 140	3,838.65	56.50
46 82 83 00-3032	EA	Open Channel Flowmeter, Pulsar Model: Oracle 160	3,130.26	56.50
46 82 83 00-3033	EA	Open Channel Flowmeter With Velocity Input Pulsar Model: Oracle 160 Plus	3,655.00	56.50
46 82 83 00-3034	EA	Sewer Flow Monitor And Sensor Pulsar Model: N-Speedy Flow	5,609.65	56.50
46 82 83 00-3035	EA	dB3 With 5M Transducer, Pulsar Model: DB03-05	1,110.01	56.50
46 82 83 00-3036	EA	dB6 With 5M Transducer, Pulsar Model: DB06-05	1,267.43	56.50
46 82 83 00-3037	EA	dB10 With 5M Transducer, Pulsar Model: DB10-05	1,424.85	56.50
46 82 83 00-3038	EA	dB15 With 5M Transducer, Pulsar Model: DB15-05	2,028.30	56.50
46 82 83 00-3039	EA	dB25 With 5M Transducer, Pulsar Model: DB25-05	3,130.26	56.50
46 82 83 00-3040	EA	dB40 With 5M Transducer, Pulsar Model: DB40-05	4,835.66	56.50
46 82 83 00-3041	EA	Ultra PC Software Program And RS232-RJ11 Connection Lead Pulsar Model: PCULTRA SW	1,031.30	56.50
46 82 83 00-3042		Analytical Equipment And Instrumentation (Rosemount) *(46 82 83 00-2902)*		
46 82 83 00-3043	EA	4-Wire pH Analyzer, LCD, 0-14pH Range, Model: Rosemount Analytical #1054BPH-01	2,541.93	56.50
		For Panel Mounting Kit, Add	*20.00*	
		For Mounting Bracket For Pipe, Add	*66.00*	
46 82 83 00-3044	EA	4-Wire pH Analyzer, HART Protocol, NEMA 4X, 0-14pH Range, Model: Rosemount Analytical #54PH-09	4,094.61	56.50
		For Panel Mounting Kit, Add	*35.00*	
		For Mounting Bracket For Pipe, Add	*35.00*	
46 82 83 00-3045	EA	pH Sensor, 10' Cable, Wetted Materials: TEZFEL, Glass, Ceramic And VITON. Model: Rosemount Analytical #399-07	981.95	28.25
		For Flow Cell, Chlorinated Polyvinyl Chloride (CPVC), 1" FNPT, Add	*140.00*	
46 82 83 00-3046	EA	pH Sensor, Insertion/Submersion With Integral Amplifier And Cable, 0-14pH Range. Model: Rosemount Analytical #385+-03-11	1,240.22	28.25
46 82 83 00-3047	EA	4-Wire ORP Analyzer, LCD, +/-1500mV Output Span. Model: Rosemount Analytical #1054BORP-01	2,541.93	56.50
46 82 83 00-3048	EA	4-Wire ORP Analyzer, HART Protocol, NEMA 4X, 0-14ph Range, +/-1400mV. Model: Rosemount Analytical #54ORP-09	4,094.61	56.50
		For Panel Mounting Kit, Add	*35.00*	
		For Mounting Bracket For Pipe, Add	*35.00*	
46 82 83 00-3049	EA	ORP Sensor, 10' Cable, wetting Materials: TEZFEL, Glass, Ceramic And VITON. Model: Rosemount Analytical #399-07	981.95	28.25
		For Flow Cell, Chlorinated Polyvinyl Chloride (CPVC), 1" FNPT, Add	*140.00*	
46 82 83 00-3050	EA	ORP Sensor, Insertion/Submersion With Integral Amplifier And Cable, +/- 1400mV. Model: Rosemount Analytical #385+-03-01	1,240.22	28.25
46 82 83 00-3051	EA	4-Wire Conductivity Analyzer, 2 Outlets, 4 Relays. Model: Rosemount Analytical #54C-08	3,218.35	56.50
		For Panel Mounting Kit, Add	*35.00*	
		For Mounting Bracket For Pipe, Add	*35.00*	
46 82 83 00-3052	EA	4-Wire Conductivity Analyzer, LCD. Model: Rosemount Analytical #1054BC-01	2,541.93	56.50
		For Mounting Bracket For Pipe, Add	*66.00*	
		For Mounting Bracket, Wall, With Junction Box, Add	*224.00*	
46 82 83 00-3053	EA	Conductivity Analyzer/Controller, HART Protocol. Model: Rosemount Analytical #54eC	4,094.61	56.50
46 82 83 00-3054	EA	Retractable Conductivity Sensor, 0.2 And 1.0 Cell Constant, 316 Stainless Steel Wetted Parts. Model: Rosemount Analytical #140-06	2,288.90	29.92
		For 316 Stainless Steel Ball Valve Kit, Add	*400.00*	
46 82 83 00-3055	EA	Insertion Conductivity Sensor, 0.2 And 1.0 Cell Constant, 316 Stainless Steel Wetted Materials. Model: Rosemount Analytical #141-06-13-54	1,105.18	29.92
46 82 83 00-3056	EA	Insertion Conductivity Sensor, 0.2 And 1.0 Cell Constant, 316 Stainless Steel Wetted Materials. Model: Rosemount Analytical #142-03-13-54	1,289.66	29.92
46 82 83 00-3057	EA	4-Wire Total Free Residual Chlorine Analyzer, LCD, Isolated Output. Model: Rosemount Analytical #1054BCL-01	3,418.20	56.50
46 82 83 00-3058	EA	Chlorine Sensor, 25' Cable, 1" MNPT Process Connections. Model: Rosemount Analytical #1054BCL-01	2,147.47	29.92
46 82 83 00-3059		Analytical Equipment And Instrumentation (Sierra) *(46 82 83 00-2902)*		
46 82 83 00-3060		Gas Detection System Sensors *(46 82 83 00-3059)*		
46 82 83 00-3061	EA	Catalytic Bead, Combustible Gas Sensor Module (Sierra 5100-02-IT) Note: Includes A1/A2 Aluminum Enclosure)	2,255.50	56.50
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Conformal Transmitter (02), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3062	EA	Oxygen Gas Sensor Module (Sierra 5100-03-IT) Note: Includes A1/A2 Aluminum Enclosure)	2,667.52	56.50
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3063	EA	Carbon Monoxide Gas Sensor Module (Sierra 5100-04-IT) Note: Includes A1/A2 Aluminum Enclosure)	2,770.53	56.50
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3064	EA	Hydrogen Sulfide Gas Sensor Module (Sierra 5100-05-IT)	2,770.53	56.50
		Note: Includes A1/A2 Aluminum Enclosure)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3065	EA	Chlorine Gas Sensor Module (Sierra 5100-06-IT)	2,770.53	56.50
		Note: Includes A1/A2 Aluminum Enclosure)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3066	EA	Chlroine Dioxide Gas Sensor Module (Sierra 5100-08-IT)	2,770.53	56.50
		Note: Includes A1/A2 Aluminum Enclosure)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3067	EA	Sulfur Dioxide Gas Sensor Module (Sierra 5100-10-IT)	2,770.53	56.50
		Note: Includes A1/A2 Aluminum Enclosure)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3068	EA	Nitrogen Dioxide Gas Sensor Module (Sierra 5100-12-IT)	2,770.53	56.50
		Note: Includes A1/A2 Aluminum Enclosure)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3069	EA	Hydrogen Chloride Gas Sensor Module (Sierra 5100-21-IT)	3,326.76	56.50
		Note: Includes A1/A2 Aluminum Enclosure)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3070	EA	Ammonia Gas Sensor Module (Sierra 5100-25-IT)	3,326.76	56.50
		Note: Includes A1/A2 Aluminum Enclosure)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3071	EA	Hydrogen Fluoride Gas Sensor Module (Sierra 5100-26-IT)	3,821.18	56.50
		Note: Includes A1/A2 Aluminum Enclosure)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3072	EA	0-20 PPM, Ethylene Oxide Gas Sensor Module (Sierra 5100-27-IT)	2,770.53	56.50
		Note: Includes A1/A2 Aluminum Enclosure)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3073	EA	Infra-Red, Combustible Gas Sensor Module (Sierra 5100-28-IT)	3,491.56	56.50
		Note: Includes Type 01 Standard (Methane)		
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Conformal Transmitter (02), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3074	EA	Carbon Dioxide Gas Sensor Module (Sierra 5100-88-IT)	3,491.56	56.50
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3075	EA	Analog/Digital Transmitter (Sierra 5100-99-IT)	2,140.20	36.16
		For 3/4" NPT Stainless Steel Enclosure (S1), Add	*319.32*	
		For 3/4" NPT Stainless Steel Enclosure (S2), Add	*319.32*	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	

46 82 83 00-3076 Gas Detection System Control Panels *(46 82 83 00-3059)*

Note: Includes DC 24V Power and Sentry InSite Proto-Air WiFi

46 82 83 00-3077	EA	8-Channel Controller (Sierra 5000-08-IT)	6,369.49	113.00
		For Enclosure Model 1; NEMA 1 Enclosure (3 stacks max), Add	*852.57*	
		For Enclosure Model 2; NEMA 4 SS Enclosure (3 stacks max), Add	*1,663.34*	
		For Enclosure Model 3; NEMA 4X GRP Enclosure (4 stacks max), Add	*1,838.87*	
		For Enclosure Model 4; RACK Chassis (6 stacks max), Add	*852.57*	
		For Enclosure Model 5; 5383-00 Retrofit Kit (2 stacks max), Add	*852.57*	
		For Enclosure Model 6; 5383-01 Retrofit Kit (6 stacks max), Add	*1,637.78*	
		For Stacks Model 11; Analog Input (16 inputs), Add	*2,546.28*	
		For Stacks Model 22; PSG (16 inputs), Add	*2,066.22*	
		For Stacks Model 3; Modbus RTU (32 inputs), Add	*2,066.22*	
		For Stacks Model 444; Relay (8A) (8 relays), Add	*1,377.48*	
		For Stacks Model 555; Analog Output (16 outputs), Add	*1,377.48*	
		For Stacks Model 666; Digital Input (8 inputs), Add	*1,377.48*	
		For Stacks Model 777; Carrier Only (8 relays), Add	*1,377.48*	
		For Power Model A32; AC 110/220 32ch, Add	*999.68*	
		For Power Model D08; DC 24 Volt with 8 Hour BBU, Add	*5,215.70*	
		For HMI Model 0; Sentry InSite, Add	*173.86*	
		For HMI Model 6; Sentry InSite Proto-Air Cellular (excl cellular data plan), Add	*702.11*	
46 82 83 00-3078	EA	16-Channel Controller (Sierra 5000-16-IT)	9,901.12	169.50
		For Enclosure Model 1; NEMA 1 Enclosure (3 stacks max), Add	*852.57*	
		For Enclosure Model 2; NEMA 4 SS Enclosure (3 stacks max), Add	*1,663.34*	
		For Enclosure Model 3; NEMA 4X GRP Enclosure (4 stacks max), Add	*1,838.87*	
		For Enclosure Model 4; RACK Chassis (6 stacks max), Add	*852.57*	
		For Enclosure Model 5; 5383-00 Retrofit Kit (2 stacks max), Add	*852.57*	
		For Enclosure Model 6; 5383-01 Retrofit Kit (6 stacks max), Add	*1,637.78*	
		For Stacks Model 11; Analog Input (16 inputs), Add	*2,546.28*	
		For Stacks Model 22; PSG (16 inputs), Add	*2,066.22*	
		For Stacks Model 3; Modbus RTU (32 inputs), Add	*2,066.22*	
		For Stacks Model 444; Relay (8A) (8 relays), Add	*1,377.48*	
		For Stacks Model 555; Analog Output (16 outputs), Add	*1,377.48*	
		For Stacks Model 666; Digital Input (8 inputs), Add	*1,377.48*	
		For Stacks Model 777; Carrier Only (8 relays), Add	*1,377.48*	
		For Power Model A32; AC 110/220 32ch, Add	*999.68*	
		For Power Model D08; DC 24 Volt with 8 Hour BBU, Add	*5,215.70*	
		For HMI Model 0; Sentry InSite, Add	*173.86*	
		For HMI Model 6; Sentry InSite Proto-Air Cellular (excl cellular data plan), Add	*702.11*	
46 82 83 00-3079	EA	32-Channel Controller (Sierra 5000-32-IT)	15,121.16	225.99
		For Enclosure Model 1; NEMA 1 Enclosure (3 stacks max), Add	*852.57*	
		For Enclosure Model 2; NEMA 4 SS Enclosure (3 stacks max), Add	*1,663.34*	
		For Enclosure Model 3; NEMA 4X GRP Enclosure (4 stacks max), Add	*1,838.87*	
		For Enclosure Model 4; RACK Chassis (6 stacks max), Add	*852.57*	
		For Enclosure Model 5; 5383-00 Retrofit Kit (2 stacks max), Add	*852.57*	
		For Enclosure Model 6; 5383-01 Retrofit Kit (6 stacks max), Add	*1,637.78*	
		For Stacks Model 11; Analog Input (16 inputs), Add	*2,546.28*	
		For Stacks Model 22; PSG (16 inputs), Add	*2,066.22*	
		For Stacks Model 3; Modbus RTU (32 inputs), Add	*2,066.22*	
		For Stacks Model 444; Relay (8A) (8 relays), Add	*1,377.48*	
		For Stacks Model 555; Analog Output (16 outputs), Add	*1,377.48*	
		For Stacks Model 666; Digital Input (8 inputs), Add	*1,377.48*	
		For Stacks Model 777; Carrier Only (8 relays), Add	*1,377.48*	
		For Power Model A32; AC 110/220 32ch, Add	*999.68*	
		For Power Model D08; DC 24 Volt with 8 Hour BBU, Add	*5,215.70*	
		For HMI Model 0; Sentry InSite, Add	*173.86*	
		For HMI Model 6; Sentry InSite Proto-Air Cellular (excl cellular data plan), Add	*702.11*	

46 82 83 00-3080 Gas Detection System Spare Parts *(46 82 83 00-3059)*

46 82 83 00-3081	EA	24 Volt DC, Red, Panel Mounted, LED Dome Lens For Sentry IT Fire And Gas Controller (Sierra SPL44067) Note: Spare Part	271.93
46 82 83 00-3082	EA	24 Volt DC, Green, Panel Mounted, LED Dome Lens For Sentry IT Fire And Gas Controller (Sierra SPL 44068) Note: Spare Part	271.93
46 82 83 00-3083	EA	24 Volt DC, Yellow, Panel Mounted, LED Dome Lens For Sentry IT Fire And Gas Controller (Sierra SPL 44063) Note: Spare Part	271.93
46 82 83 00-3084	EA	24 Volt DC, Blue, Panel Mounted, LED Dome Lens For Sentry IT Fire And Gas Controller (Sierra SPL 44070) Note: Spare Part	271.93
46 82 83 00-3085	EA	22mm, Red, Panel Sealed, Pushbutton SPDT Switch For Sentry IT Fire And Gas Controller (Sierra SPL 48086) Note: Spare Part	226.61

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3086	EA	10A SLO-BLO Fuse For Sentry IT Fire And Gas Controller (Sierra SPL 49140) Note: Spare Part	20.60	
46 82 83 00-3087	EA	3A, Class CC, Time Delay Fuse For Sentry IT Fire And Gas Controller (Sierra SPL 49185) Note: Spare Part	51.50	
46 82 83 00-3088	EA	DIN Rail, Terminal Block Fuse Holder For Sentry IT Fire And Gas Controller (Sierra SPL 59135) Note: Spare Part	103.00	
46 82 83 00-3089	EA	Class CC, UL List, Holder Fuse For Sentry IT Fire And Gas Controller (Sierra SPL 69072) Note: Spare Part	154.51	
46 82 83 00-3090	EA	Quarter-Turn With Screw Driver, Latch For Sentry IT Fire And Gas Controller (Sierra SPL 69218) Note: Spare Part	309.02	
46 82 83 00-3091	EA	24 Volt AC/24 Volt DC, 10 Amperes, Power Supply For Sentry IT Fire And Gas Controller (Sierra SPL 69231) Note: Spare Part	1,225.76	
46 82 83 00-3092	EA	Sentry InSite Appliance (Sierra FPC-N38-0027) Note: Spare Part	3,090.15	
46 82 83 00-3093	EA	5.7" TFT, LCD, PXA270 Touch Panel For Sentry IT Fire And Gas Controller (Sierra SPL 25077) Note: Spare Part	3,905.95	
46 82 83 00-3094	EA	ARM Sentry IT, CPU Assembly Stack For Sentry IT Fire And Gas Controller (Sierra SPL 21918) Note: Spare Part	3,090.15	
46 82 83 00-3095	EA	Modbuc RTU RS485, Assembly Stack For Sentry IT Fire And Gas Controller (Sierra SPL 21901) Note: Spare Part	3,399.16	
46 82 83 00-3096	EA	Sentry PSG Bus, Assembly Stack For Sentry IT Fire And Gas Controller (Sierra SPL 21900) Note: Spare Part	3,090.15	
46 82 83 00-3097	EA	Relay 8A Or DO, Assembly Stack For Sentry IT Fire And Gas Controller (Sierra SPL 21899) Note: Spare Part	3,090.15	
46 82 83 00-3098	EA	Digital Input, Assembly Stack For Sentry IT Fire And Gas Controller (Sierra SPL 21898) Note: Spare Part	3,090.15	
46 82 83 00-3099	EA	Analog Input, Assembly Stack For Sentry IT Fire And Gas Controller (Sierra SPL 21896) Note: Spare Part	3,090.15	
46 82 83 00-3100	EA	Analog Output, Assembly Stack For Sentry IT Fire And Gas Controller (Sierra SPL 21897) Note: Spare Part	3,090.15	
46 82 83 00-3101	EA	Rainshield For Sentry IT Fire And Gas Controller (Sierra 5311-00) Note: Spare Part	57.68	
46 82 83 00-3102	EA	Rainshield With Calibration Port For Sentry IT Fire And Gas Controller (Sierra 5311-02) Note: Spare Part	115.37	
46 82 83 00-3103	EA	NEMA 12, IT Power Supply For Sentry IT Fire And Gas Controller (Sierra 5333-00) Note: Spare Part	1,611.00	
46 82 83 00-3104	EA	Duct Mount Fitting For Sentry IT Fire And Gas Controller (Sierra 5394-00) Note: Spare Part	222.49	
46 82 83 00-3105	EA	Remote Sensor Kit For Sentry 5100-28-IT-A1 Controller (Sierra 5394-50-A1) Note: Spare Part	1,091.85	
		For Sentry RS-485, 4-20mA, DI And Relays (02), Add	*226.61*	
		For HAR/RS-485/4-20mA/2A Relay Assembly (05), Add	*226.61*	
		For Conformal Sensor (01), Add	*82.40*	
		For Severe Service Environment (03), Add	*247.21*	
46 82 83 00-3106	EA	Remote Sensor Kit For Sentry 5100-28-IT-S1 Controller (Sierra 5394-50-S1) Note: Spare Part	1,856.15	
46 82 83 00-3107	EA	Remote Sensor Kit For Sentry 5100-02-IT-A1 Controller (Sierra 5394-51-A1) Note: Spare Part	741.64	
46 82 83 00-3108	EA	Remote Sensor Kit For Sentry 5100-02-IT-S1 Controller (Sierra 5394-51-S1) Note: Spare Part	1,027.99	
46 82 83 00-3109	EA	Remote Sensor Kit For Sentry 5100-02-IT-S2 Controller (Sierra 5394-51-S2) Note: Spare Part	974.43	
46 82 83 00-3110	EA	Remote Sensor Kit For Sentry5100-XX-IT-A1 Controller (Sierra 5394-52-A1) Note: Spare Part	562.41	
46 82 83 00-3111	EA	Remote Sensor Kit For Sentry 5100-XX-IT-S1 Controller (Sierra 5394-52-S1) Note: Spare Part	677.77	
46 82 83 00-3112	EA	Sample Draw Assembly For Sentry IT Fire And Gas Controller (Sierra 5398-01) Note: Spare Part	1,347.31	
46 82 83 00-3113	EA	Sample Draw/Dilution Assembly For Sentry IT Fire And Gas Controller (Sierra 5398-02) Note: Spare Part	1,897.35	
46 82 83 00-3114	EA	1-Channel, Sample Draw System For Sentry IT Fire And Gas Controller (Sierra 5398-21) Note: Spare Part	5,154.37	
46 82 83 00-3115	EA	Sample Draw Fitting For Sentry IT Fire And Gas Controller (Sierra 5399-01) Note: Spare Part	764.30	
46 82 83 00-3116	EA	2" Pipe Mounted Sensor Bracket For Sentry 5100-XX-IT Series, IME (Sierra SPL21877) Note: Spare Part	179.23	
46 82 83 00-3117	EA	2" Pipe Mounted Sensor Bracket For Sentry 5100-XX-IT Series, Limatherm (Sierra SPL21920) Note: Spare Part	179.23	
46 82 83 00-3118	EA	Ceiling Mount Assembly For Sentry IT Fire And Gas Controller (Sierra SPL68002) Note: Spare Part	84.46	
46 82 83 00-3119	EA	1" x 3", Stainless Steel Tag For Sentry IT Fire And Gas Controller (Sierra SPX39128-1) Note: Spare Part	94.76	
46 82 83 00-3120	EA	1" x 3" Red, Phenolic, Engraved Tag For Sentry IT Fire And Gas Controller (Sierra SPX39177) Note: Spare Part	65.92	
46 82 83 00-3121	EA	Type A Gas Sensor Calibrator Kit (Sierra 1250-01) Note: Spare Part	793.14	
46 82 83 00-3122	EA	Type B Gas Sensor Calibrator Kit (Sierra 1250-02) Note: Spare Part	2,970.66	
46 82 83 00-3123	EA	Type C Gas Sensor Calibrator Kit (Sierra 1250-03) Note: Spare Part	1,804.65	
46 82 83 00-3124	EA	Type X Gas Sensor Calibrator Kit (Sierra 1250-99) Note: Spare Part	1,759.33	
46 82 83 00-3125	EA	Air, (A), 105L Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-00) Note: Spare Part	412.02	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3126	EA	50% LEL, (A), 105L, Methane Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-02) Note: Spare Part	412.02	
46 82 83 00-3127	EA	100 PPM, (A), 105L, CO Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-04) Note: Spare Part	412.02	
46 82 83 00-3128	EA	25PPM, (A), 57L, H2S-N2Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-05) Note: Spare Part	484.12	
46 82 83 00-3129	EA	5 PPM, (C), 104L, Cl2 Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-06) Note: Spare Part	1,277.26	
46 82 83 00-3130	EA	50 PPM, (B), 74L, SO2 Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-10) Note: Spare Part	999.15	
46 82 83 00-3131	EA	10 PPM, (B), 74L, NO2 Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-12) Note: Spare Part	999.15	
46 82 83 00-3132	EA	1,000 PPM, (A), 105L, CO Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-13) Note: Spare Part	484.12	
46 82 83 00-3133	EA	50% LEL, (A), 105L, Propane Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-28) Note: Spare Part	484.12	
46 82 83 00-3134	EA	50% Vol, (A), 105L, Methane Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-29) Note: Spare Part	484.12	
46 82 83 00-3135	EA	4 Channel, 25% LEL, (A), 105L, Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-30) Note: Spare Part	504.72	
46 82 83 00-3136	EA	35% LEL, (A), 105L , Propane Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-31) Note: Spare Part	999.15	
46 82 83 00-3137	EA	50% LEL, (A), 105L, H2 Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-42) Note: Spare Part	412.02	
46 82 83 00-3138	EA	2,000 PPM, (A), 105L, CO2 Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-80) Note: Spare Part	412.02	
46 82 83 00-3139	EA	Non-Standard Gas Type Gas Cylinder For Sentry IT Fire And Gas Controller (Sierra 1260-99) Note: Spare Part	1,266.96	
46 82 83 00-3140	EA	Permeation Type Calibrator For Sentry IT Fire And Gas Controller (Sierra 9210-00) Note: Spare Part	3,337.36	
46 82 83 00-3141	EA	H2S Permeation Tube For Sentry IT Fire And Gas Controller (Sierra 9211-01) Note: Spare Part	1,874.69	
46 82 83 00-3142	EA	NH3 Permeation Tube For Sentry IT Fire And Gas Controller (Sierra 9211-09) Note: Spare Part	1,874.69	
46 82 83 00-3143	EA	Standard Calibration Adapter For Sentry IT Fire And Gas Controller (Sierra 5358-01) Note: Spare Part	76.22	
46 82 83 00-3144	EA	IT Calibration And Configuration Magnetic Tool For Sentry IT Fire And Gas Controller (Sierra 5358-50) Note: Spare Part	37.08	
46 82 83 00-3145	EA	Fixed Calibration Gas Delivery Fitting (Sierra 5360-00) Note: Spare Part	88.58	
46 82 83 00-3146	EA	1250 Calibrator Series Case (Sierra 1255-01) Note: Spare Part	463.52	
46 82 83 00-3147	EA	36" PTFE Calibration Tubing (Sierra 1255-02) Note: Spare Part	41.20	
46 82 83 00-3148	EA	Type A Regulator For 1250 Calibrator Series (Sierra 1256-01) Note: Spare Part	360.52	
46 82 83 00-3149	EA	Type B Regulator For 1250 Calibrator Series (Sierra 1256-02) Note: Spare Part	2,678.13	
46 82 83 00-3150	EA	Type C Regulator For Calibrator 1250 Series (Sierra 1256-03) Note: Spare Part	1,545.08	
46 82 83 00-3151	EA	Type A, Custom Flow Regulator (Sierra 1256-98) Note: Spare Part	927.04	
46 82 83 00-3152	EA	Delivery Tube And Fitting For Model 1200-26 (Sierra SPB22048) Note: Spare Part	57.68	
46 82 83 00-3153	EA	SPB24001 1290-XX Cylinders Calibrator (Sierra SPB24001) Note: Spare Part	1,071.25	
46 82 83 00-3154	EA	Plastic Carrying Case For Model 1200-26 (Sierra SPB32064) Note: Spare Part	109.19	
46 82 83 00-3155	EA	0-2 SCFH Flow Meter (Sierra SPB64001) Note: Spare Part	226.61	
46 82 83 00-3156	EA	3' Delivery Tube For Model 9210-00 (Sierra SPB64011) Note: Spare Part	14.42	
46 82 83 00-3157	EA	3/4" NPT To M20 x 1.5, Stainless Steel, Adapter Fitting (Sierra 39128) Note: Spare Part	51.69	
46 82 83 00-3158	EA	% LEL, Aluminum, Combustibles Sensor Assembly (Sierra 5200-02-IT-AL) Note: Spare Part	731.34	
46 82 83 00-3159	EA	% LEL, Stainless Steel, Combustibles Sensor Assembly (Sierra 5200-02-IT-SS) Note: Spare Part	854.94	
46 82 83 00-3160	EA	Sensor For Model 5100-03-IT (Sierra 5200-03-IT) Note: Spare Part	679.83	
46 82 83 00-3161	EA	Sensor For Model 5100-04-IT (Sierra 5200-04-IT) Note: Spare Part	844.64	
46 82 83 00-3162	EA	Sensor For Model 5100-05-IT(Sierra 5200-05-IT) Note: Spare Part	906.44	
46 82 83 00-3163	EA	Sensor For Model 5100-06-IT (Sierra 5200-06-IT) Note: Spare Part	1,060.95	
46 82 83 00-3164	EA	Sensor For Model 5100-08-IT (Sierra 5200-08-IT) Note: Spare Part	1,060.95	
46 82 83 00-3165	EA	Sensor For Model 5200-10-IT (Sierra 5200-10-IT) Note: Spare Part	1,122.75	
46 82 83 00-3166	EA	Sensor For Model 5200-12-IT (Sierra 5200-12-IT) Note: Spare Part	1,060.95	
46 82 83 00-3167	EA	Sensor For Model 5100-25-IT (Sierra 5200-25-IT) Note: Spare Part	2,781.14	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3168	EA	Sensor For Model 5100-26-IT (Sierra 5200-26-IT) Note: Spare Part	3,131.35	
46 82 83 00-3169	EA	%LEL, IR Combustibles, Aluminum Sensor Assembly (Sierra 5200-28-IT-AL) Note: Spare Part	1,555.38	
46 82 83 00-3170	EA	%LEL, IR Combustibles, Stainless Steel Sensor Assembly (Sierra 5200-28-IT-SS) Note: Spare Part	1,854.09	
46 82 83 00-3171	EA	3/4" NPT to M20, ATEX, Stainless Steel Adapter Fitting (Sierra 68023) Note: Spare Part	113.31	
46 82 83 00-3172	EA	IR Transmitter Assembly For Model 5100-28-IT (Seirra SPL21806) Note: Spare Part	1,606.88	
46 82 83 00-3173	EA	Aluminum Enclosure For IT Series (Sierra SPL21810) Note: Spare Part	515.02	
46 82 83 00-3174	EA	Transmitter Assembly For Model 5100-02-IT (Sierra SPL21813) Note: Spare Part	1,586.28	
46 82 83 00-3175	EA	Stainless Steel Enclosure For IT Series (Sierra SPL21823) Note: Spare Part	597.43	
46 82 83 00-3176	EA	Transmitter Assembly For Model 5100-XX-IT, Toxics (Sierra SPL21824) Note: Spare Part	1,606.88	
46 82 83 00-3177	EA	Interface Board Without Relay For Model 5100-XX-IT (Sierra SPL21825) Note: Spare Part	463.52	
46 82 83 00-3178	EA	Interface Board With Relay For Model 5100-XX-IT (Sierra SPL21829) Note: Spare Part	638.63	
46 82 83 00-3179	EA	Aluminum Sensor Assembly For Model 5100-05-IT (Sierra SPL21830) Note: Spare Part	1,503.87	
46 82 83 00-3180	EA	Aluminum Sensor Assembly For Model 5100-04-IT (Sierra SPL21832) Note: Spare Part	1,503.87	
46 82 83 00-3181	EA	Aluminum Sensor Assembly For Model 5100-06/08-IT (Sierra SPL21833) Note: Spare Part	1,617.18	
46 82 83 00-3182	EA	Aluminum Sensor Assembly For Model 5100-03-IT (Sierra SPL21834) Note: Spare Part	1,524.47	
46 82 83 00-3183	EA	Plastic Sensor Assembly For Model 5100-25-IT (Sierra SPL21840) Note: Spare Part	2,307.31	
46 82 83 00-3184	EA	Aluminum Sensor Assembly For Model 5100-10-IT (Sierra SPL21844) Note: Spare Part	1,617.18	
46 82 83 00-3185	EA	Aluminum Sensor Assembly For Model 5100-12-IT (Sierra SPL21845) Note: Spare Part	1,617.18	
46 82 83 00-3186	EA	HART Interface Board For IT Series (Sierra SPL21876) Note: Spare Part	556.23	
46 82 83 00-3187	EA	Stainless Steel Sensor Assembly For Model 5100-05-IT (Sierra SPL27074) Note: Spare Part	1,617.18	
46 82 83 00-3188	EA	Stainless Steel Enclosure For Model 4501 (Sierra SPL27077) Note: Spare Part	515.02	
46 82 83 00-3189	EA	Stainless Steel Sensor Assembly For Model 5100-03-IT (Sierra SPL27082) Note: Spare Part	1,617.18	
46 82 83 00-3190	EA	Stainless Steel Sensor Assembly For Model 5100-04-IT (Sierra SPL27083) Note: Spare Part	1,617.18	
46 82 83 00-3191	EA	Stainless Steel Sensor Assembly For Model 5100-06/08-IT (Sierra SPL27084) Note: Spare Part	1,720.18	
46 82 83 00-3192	EA	Aluminum Enclosure For Model 4501 (Sierra SPL27085) Note: Spare Part	432.62	
46 82 83 00-3193	EA	Stainless Steel Sensor Assembly For Model 5100-10-IT (Sierra SPL27087) Note: Spare Part	1,720.18	
46 82 83 00-3194	EA	Stainless Steel Sensor Assembly For Model 5100-12-IT (Sierra SPL27088) Note: Spare Part	1,720.18	
46 82 83 00-3195	EA	IR Combus Sensor Element For Model 5100-28-IT (Sierra SPL33062) Note: Spare Part	1,102.15	
46 82 83 00-3196	EA	Remote Sensor Cable For Model 5394-52 (Sierra SPL53050) Note: Plus $3.00/LF (Spare Parts)	115.37	
46 82 83 00-3197	EA	Remote Sensor Cable For Model 5394-50 IR (Sierra SPL53051) Note: Plus $3.00/LF (Spare Parts)	115.37	
46 82 83 00-3198	EA	Remote Sensor Kit Cable For Model 5394-51 (Sierra SPL53057) Note: Plus $3.00/LF (Spare Parts)	115.37	
46 82 83 00-3199	EA	CO Sensor For Models 4501-04, 5100-04-IT (Sierra SPM33030) Note: Spare Part	844.64	
46 82 83 00-3200	EA	H2S Sensor For Models 4501-05, 5100-05-IT (Sierra SPM33041) Note: Spare Part	906.44	
46 82 83 00-3201	EA	O2 Sensor For Models 4501-03, 5100-03-IT (Sierra SPM33044) Note: Spare Part	679.83	
46 82 83 00-3202	EA	CL2 Sensor For Models 4501-06, 5100-06/08-IT (Sierra SPM33050) Note: Spare Part	1,060.95	
46 82 83 00-3203	EA	SO2 Sensor For Models 4501-10, 5100-10-IT (Sierra SPM33052) Note: Spare Part	1,122.75	
46 82 83 00-3204	EA	NO2 Sensor For Models 4501-12, 5100-12-IT (Sierra SPM33054) Note: Spare Part	1,060.95	
46 82 83 00-3205	EA	Sensor Recharge Kit For Model 4101/5100-25 (Sierra SPX27057) Note: Spare Part	463.52	
46 82 83 00-3206	EA	Sensor Recharge Kit For Model 4101/5100-26 (Sierra SPX27061) Note: Spare Part	535.63	
46 82 83 00-3207	EA	Membrane Filter For Model 5100/4101-25 (Sierra SPX57009) Note: Spare Part	267.81	
46 82 83 00-3208	EA	Electrolyte For Model 5100/4101-25 (Sierra SPX99017) Note: Spare Part	288.41	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3209		**Analytical Equipment And Instrumentation (Weir)** *(46 82 83 00-2902)*		
46 82 83 00-3210	EA	420 GPM, 5 PSI, Aluminum With Rubber Liner, Single Cyclone (Weir 1500C) Note: Includes rubber liner, free-standing stainless steel supports, 0-30 PSI stainless steel pressure gauges, and stainless steel hardware.	60,738.07	1,167.11
46 82 83 00-3211	EA	700 GPM, 5 PSI, Aluminum With Rubber Liner, Single Cyclone (Weir 2000C) Note: Includes rubber liner, free-standing stainless steel supports, 0-30 PSI stainless steel pressure gauges, and stainless steel hardware.	119,687.71	1,705.78
46 82 83 00-3212	EA	18" Full Flare Classifier (Weir WEMCO Hydrogritter) Note: Includes stainless steel tank & supports, single pitch steel spiral with Ni-hard wear shoes, stainless steel belt and spiral guards, NEMA 7 safety stop enclosure, stainless steel explosion proof sluice water valve enclosure, 3 HP 1800 RPM severe duty explosion proof motor, and stainless steel side mounted transition feed box(es).	146,091.16	2,034.97
46 82 83 00-3213	EA	24" Full Flare Classifier (Weir WEMCO Hydrogritter) Note: Includes stainless steel tank & supports, single pitch steel spiral with Ni-hard wear shoes, stainless steel belt and spiral guards, NEMA 7 safety stop enclosure, stainless steel explosion proof sluice water valve enclosure, 3 HP 1800 RPM severe duty explosion proof motor, and stainless steel side mounted transition feed box(es).	264,111.72	3,591.11
46 82 83 00-3214	EA	30" Full Flare Classifier (Weir WEMCO Hydrogritter) Note: Includes stainless steel tank & supports, single pitch steel spiral with Ni-hard wear shoes, stainless steel belt and spiral guards, NEMA 7 safety stop enclosure, stainless steel explosion proof sluice water valve enclosure, 5 HP 1800 RPM severe duty explosion proof motor, and stainless steel side mounted transition feed box(es).	377,468.65	5,266.97
46 82 83 00-3215		**Analytical Equipment And Instrumentation (Yokogawa)** *(46 82 83 00-2902)*		
46 82 83 00-3216	EA	2-Wire General Purpose ORP Transmitter, 4-20mA, Including Mounting Hardware. Model: Yokogawa #PH202G-U-E/PIN/U/Q	3,295.21	56.50
46 82 83 00-3217	EA	4-Wire ORP Converter, Mounting Bracket Included. Model: Yokogawa #PH402G-U-E/PIN/U/Q	3,341.33	56.50
46 82 83 00-3218	EA	Universal pH/ORP Sensor, 20' Cable, Chemical Resistant. Model: Yokogawa #FU20-05-T1NPT/FS	843.84	29.92
46 82 83 00-3219	EA	2-Wire General Purpose Conductivity Transmitter, 4-20mA, Including Mounting Hardware. Model: Yokogawa #SC200G-C-U-E*B/U	3,295.21	56.50
46 82 83 00-3220	EA	4-Wire Conductivity Converter, Mounting Bracket Included. Model: Yokogawa #SC402G-E-1-E/Q/PIN/Q/PM/U	3,341.33	56.50
46 82 83 00-3221	EA	4-Wire Conductivity Sensor, 20' Cable, Chemical Resistant. Model: Yokogawa #SC41-SH24	723.93	29.92
		For 20' Cable, Add	*85.00*	
		For Each Additional LF Of Cable Extension, Add	*2.25*	
46 82 83 00-3222	EA	2-Wire General Purpose pH Transmitter, 4-20mA, Including Mounting Hardware. Model: Yokogawa #PH202G-U-E/PIN/U/Q	3,295.21	56.50
46 82 83 00-3223	EA	4-Wire pH Converter, Mounting Bracket Included. Model: Yokogawa #PH402G-U-E/PIN/U/Q	3,341.33	56.50
46 82 83 00-3224	EA	Universal pH/ORP Sensor, 20' Cable, Chemical Resistant. Model: Yokogawa #FU20-05-T1NPT/FS	843.84	29.92
		For Each Additional LF Of Cable Extension, Add	*2.25*	
46 82 83 00-3225		**Analytical Equipment And Instrumentation (YSI)** *(46 82 83 00-2902)*		
46 82 83 00-3226		**IQ System 2020 Controllers and Module** *(46 82 83 00-3225)*		
46 82 83 00-3227	EA	100-240 Volt AC And USB Power Supply Interface, 5 Free IQ Sensor Net Connections, System 2020 XT 20 Channel Terminal/Controller (YSI 470 026Y, MIQ/TC 2020 3G-MC3)	7,871.71	113.00
46 82 83 00-3228	EA	3 Current Outputs, 3 Relay Outputs, 100-240 Volt AC And USB Power Supply Interface, 5 IQ Sensor Net Connections, System 2020 XT 20 Channel Terminal/Controller (YSI 470 022Y, MIQ/TC 2020 3G-H3)	6,481.57	113.00
46 82 83 00-3229	EA	6 Current Outputs, 100-240 Volt AC And USB Power Supply Interface, 5 IQ Sensor Net Connections, System 2020 XT 20 Channel Terminal/Controller (YSI 470 024Y, MIQ/TC 2020 3G-H3 C6)	6,481.57	113.00
46 82 83 00-3230	EA	System 2020 3G Terminal/Controller Only (YSI 470 020Y, MIQ/TC 2020 3G) Note: Used As redundant (back up) controller. Complete with USB interface. No modules included.	4,694.27	113.00
46 82 83 00-3231	EA	Extended Warranty, 2020 Terminal Controllers, 1 Additional Year (YSI Ext-War-2020-1)	535.63	
46 82 83 00-3232	EA	Extended Warranty, 2020 Terminal Controllers, 2 Additional Years (YSI Ext-War-2020-2)	1,071.25	
46 82 83 00-3233		**2020 System Modules** *(46 82 83 00-3225)*		
46 82 83 00-3234	EA	2 Free IQ SensorNet Connections In Module Housing, Automatic Barometric Pressure Compensation, USB Interface (IP67), Ethernet RJ45 Interface (IP 67)Module IQ/Microcontroller For System 2020 XT (YSI 471 020Y, MIQ/MC3)	3,135.99	71.19
46 82 83 00-3235	EA	2 Free IQ SensorNet Connections, RS-485 MODBUS Connection, Automatic Barometric Pressure Compensation, USB Interface (IP 67), Ethernet Interface (IP 67), Module IQ/Microcontroller For System 2020 XT (YSI 471 022Y, MIQ/MC3-MOD)	5,332.70	71.19
46 82 83 00-3236	EA	2 Free IQ SensorNet Connections, RS-485 PROFIBUS Connection, Automatic Barometric Pressure Compensation, USB Interface (IP 67), Ethernet Interface (IP 67), Module IQ/Microcontroller For System 2020 XT (YSI 471 023Y, MIQ/MC3-PR)	5,642.19	71.19
46 82 83 00-3237	EA	RS-485 MODBUS Connection, 2 Free IQ SensorNet Connections, Automatic Barometric Pressure Compensation, Module IQ (YSI 471 026Y, MIQ/3-MOD)	4,748.54	71.19
46 82 83 00-3238	EA	RS-485 PROFIBUS Connection, 2 Free IQ SensorNet Connections, Automatic Barometric Pressure Correction For DO, Module IQ (YSI 471 027Y, MIQ/3-PR)	4,947.13	71.19
46 82 83 00-3239	EA	4 IQ Sensor Net Connections, Passive Junction Box (YSI 480 008Y, MIQ/JB) Note: Used with 182 and 2020XT.	660.66	42.37
46 82 83 00-3240	EA	6 Analog Outputs, 2 IQ Sensor Net Connection, Output Module (YSI 480 015Y, MIQ/C6) Note: Used with 182 and 2020XT.	2,027.85	70.62
46 82 83 00-3241	EA	3 Analog And 3 Relay, 2 IQ Sensor Net Connection, Output Module (YSI 480 014Y, MIQ/CR3) Note: Used with 182 and 2020XT.	1,575.07	70.62
46 82 83 00-3242	EA	6 Relays, 2 IQ Sensor Net Connections, Relay Module (YSI 480 013Y, MIQ/R6) Note: Used with 182, 184XT and 2020XT.	1,878.91	70.62
46 82 83 00-3243	EA	100-240 Volt AC, 18 Watt, 3 IQ Sensor Net Connections, Power Supply Module (YSI 480 004Y, MIQ/PS) Note: Used with 2020XT.	1,154.06	70.62
46 82 83 00-3244	EA	2 Analog Inputs, 2 IQ Sensor Net Connections, Input Module (YSI 480 016Y, MIQ/IC2) Note: Used with 2020XT. For adding other equipment to IQ System.	1,332.79	70.62

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3245	EA	4 IQ Sensor Net Connections, Junction Box With Amplifier (YSI 480 010Y, MIQ/JBR) Note: Used with 2020XT.	1,276.29	42.37
46 82 83 00-3246	EA	24V AC/DC, 3 IQ Sensor Net Connections, Power Supply Module (YSI 480 006Y, MIQ/24V) Note: Used with 2020XT.	1,551.24	70.62
46 82 83 00-3247	EA	3 IQ Sensor Net Connections, RS232 Interface Module (YSI 480 020Y, MIQ/IF232) Note: Used with 182 and 2020XT. For service only. Ability to update 182s, 184s and 2020s. Ability to direct connect to a PC for 2020 XTs only. You cannot connect to a modem. Includes RS-232 cable and software.	1,769.69	70.62
46 82 83 00-3248	EA	2 IQ Sensor Net Connections, Cleaner Head Valve Module (YSI 480 018Y, MIQ/CHV Plus) Note: Used with 182, 184XT and 2020XT.	1,690.25	70.62
46 82 83 00-3249	EA	USB/RS232 Port, Ethernet Adapter Set (YSI 902 887Y, MIQ/TM/SET) Note: Used with 2020XT. No ability to update 182s, 184s and 2020s. Ability to direct connect to a PC for 2020s only. You can connect to a modem. Includes software. Excludes LAN adapter.	1,185.81	7.06
46 82 83 00-3250	EA	3 IQ SensorNet Connection, Radio Module (YSI 480 025Y, MIQ/WL PS Set) Note: For wireless communication. Used with 182 and 2020XT. Order additional secondary modules, 480 023Y as needed. Includes primary and secondary radio modules with integrated power supply.	3,000.95	70.62
46 82 83 00-3251	EA	3 IQ SensorNet Connections, Secondary Radio Module (YSI 480 023Y, MIQ/WL PS) Note: For communicating to an existing primary module. Used with 183 and 2020XT. Includes integrated power supply.	1,749.83	70.62
46 82 83 00-3252		**IQ System 182 Controllers** *(46 82 83 00-3225)*		
46 82 83 00-3253	EA	3 Relays, Two 4-20mA Outputs, 100-240 Volt AC, 1 IQ Sensor Net Connection, System 182, 1-2 Channel Controller (YSI 472 000Y, DIQ/S 182)	3,316.14	113.00
46 82 83 00-3254	EA	5 Relays, Four 4-20mA Outputs, 100-240 Volt AC, 3 IQ Sensor Net Connections, System 182, 1-2 Channel Controller (YSI 472 001Y, DIQ/S 182XT)	3,903.27	113.00
46 82 83 00-3255	EA	Profibus Output, 100-240 Volt AC, 2 IQ Sensor Net Connections, System 182, 1-2 Channel Controller (YSI 472 002Y, DIQ/S 182-PR)	3,707.56	113.00
46 82 83 00-3256	EA	Modbus Output, 100-240 Volt AC, 2 IQ Sensor Net Connections, System 182, 1-2 Channel Controller (YSI 472 003Y, DIQ/S 182-MOD)	3,707.56	113.00
46 82 83 00-3257	EA	3 Relays, Two 4-20 mA Outputs, 24 V, 1 IQ Sensor Net Connection, System 182, 1-2 Channel Controller (YSI 472 010Y, DIQ/S 182/24V)	3,573.65	113.00
46 82 83 00-3258	EA	5 Relays, Four 4-20 mA Outputs, 24 V, 1 IQ Sensor Net Connection, System 182, 1-2 Channel Controller (YSI 472 011Y, DIQ/S 182XT/24V)	4,119.58	113.00
46 82 83 00-3259	EA	Profibus Output, 24 V, 1 IQ Sensor Net Connection, System 182, 1-2 Channel Controller (YSI 472 012Y, DIQ/S 182/24V-PR)	4,140.18	113.00
46 82 83 00-3260	EA	Modbus Output, 24 V, 1 IQ Sensor Net Connection, System 182, 1-2 Channel Controller (YSI 472 013Y, DIQ/S 182/24V-MOD)	4,037.17	113.00
46 82 83 00-3261	EA	6 Relays, Five 4-20mA Outputs, 100-240 Volt AC, 3 IQ Sensor Net Connections, System 182XT 4 Channel Controller (YSI 472 015Y, DIQ/S 182 XT-4)	4,212.28	113.00
46 82 83 00-3262	EA	3 Relays, Profibus-DP, 100-240 Volt AC, 6 IQ Sensor Net Connections, System 182XT 4 Channel Controller (YSI 472 017Y, DIQ/S 182 XT-4-PR)	4,459.50	113.00
46 82 83 00-3263	EA	3 Relays, ModBUS RTU/RS 485, 6 IQ Sensor Net Connections, System 182XT 4 Channel Controller (YSI 472 019Y, DIQ/S 182 XT-4-MOD)	4,335.89	113.00
46 82 83 00-3264	EA	6 Relays, Five 4-20mA Outputs, 24V AC/DC, 3 IQ Sensor Net Connections, System 182XT 4 Channel Controller (YSI 472 021Y, DIQ/S 182 XT-4/24V)	4,459.50	113.00
46 82 83 00-3265	EA	3 Relays, Profibus-DP, 24V AC/DC, 6 IQ Sensor Net Connections, System 182XT 4 Channel Controller (YSI 472 023Y, DIQ/S 182 XT-4/24V PR)	4,789.11	113.00
46 82 83 00-3266	EA	3 Relays, ModBUS RTU/RS 485, 24V, 6 IQ Sensor Net Connections, System 182XT 4 Channel Controller (YSI 472 024Y, DIQ/S 182 XT-4/24V MOD)	4,603.70	113.00
46 82 83 00-3267		**IQ System 282 Modules** *(46 82 83 00-3225)*		
46 82 83 00-3268	EA	System 282 Junction Box (YSI 472 005Y, DIQ/JB) Note: Used with 182. Only for use with 182's, non-stackable, needs mounting.	299.23	42.37
46 82 83 00-3269	EA	1 Relay, System 282 Cleaning Head Valve Module (YSI 472 007Y, DIQ/CHV) Note: Used with 182. For use with plant air.	1,312.93	70.62
46 82 83 00-3270	EA	100-240 Volt AC, 18 Watt, 3 IQ Sensor Net Connections, Power Supply Module (YSI 480 004Y, MIQ/PS) Note: Used with 182 and 2020XT.	1,312.93	70.62
46 82 83 00-3271	EA	4 IQ Sensor Net Connections, Passive Junction Box (YSI 480 008Y, MIQ/JB) Note: Used with 182 and 2020XT.	898.97	42.37
46 82 83 00-3272	EA	6 Relays, 2 IQ Sensor Net Connections, Relay Module (YSI 480 013Y, MIQ/R6) Note: Used with 182, 184XT and 2020XT.	1,928.56	70.62
46 82 83 00-3273	EA	3 Analog, 3 Relay, 2 IQ Sensor Net Connections, Output Module (YSI 480 014Y, MIQ/CR3) Note: Used with 182 and 2020XT.	1,769.69	70.62
46 82 83 00-3274	EA	6 Analog Outputs, 2 IQ Sensor Net Connections, Output Module (YSI 480 015Y, MIQ/C6) Note: Used with 182 and 2020XT.	2,107.29	70.62
46 82 83 00-3275	EA	3 IQ Sensor Net Connections, RS232 Interface Module (YSI 480 020Y, MIQ/IF232) Note: Used with 182 and 2020XT. When used with 182, for software updates only. For service only. Includes RS-232 cable and software.	1,749.83	70.62
46 82 83 00-3276	EA	2 IQ Sensor Net Connections, Cleaner Head Valve Module (YSI 480 018Y, MIQ/CHV Plus) Note: Used with 182 and 2020XT.	1,731.96	70.62
46 82 83 00-3277	EA	D-SUB Connection For Profibus And Modbus Connections (YSI 902 888Y, ADA/D-SUB) Note: Used with 182 and 2020XT IQ SensorNet System.	599.97	7.06
46 82 83 00-3278	EA	3 IQ SensorNet Connections, Radio Module (YSI 480 025Y, MIQ/WL PS Set) Note: For wireless communication. Used with 182 and 2020XT. Order additional secondary modules, 480 023Y as needed. Includes primary and secondary radio modules with integrated power supply.	3,100.24	70.62
46 82 83 00-3279	EA	3 IQ SensorNet Connections, Secondary Radio Module (YSI 480 023Y, MIQ/WL PS) Note: For communicating to an existing primary module. Used with 183 and 2020XT. Includes integrated power supply.	1,779.62	70.62
46 82 83 00-3280		**IQ System 282 Controllers** *(46 82 83 00-3225)*		
46 82 83 00-3281	EA	3 Relays, Three Current Outputs, 2 IQ Sensor Connections, System 282 IQ SensorNet Controller (YSI 472 110Y, DIQ/S 282-CR3)	3,820.47	113.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3282	EA	PROFIBUS Output, 2 IQ Sensor Net Connections, System 282, IQ SensorNet Controller (YSI 472 111Y, DIQ/S 282-PR)	4,340.77	113.00
46 82 83 00-3283	EA	3 Relays, MODBUS, 2 IQ Sensor Net Connections, System 282, IQ SensorNet Controller (YSI 472 112Y, DIQ/S 282-MOD)	4,340.77	113.00
46 82 83 00-3284	EA	3 Relays, Three Current Output, 2 IQ Sensor Connections, RJ45 Internet And Remote Control, System 282, IQ SensorNet Controller (YSI 472 113Y, DIQ/S 282-CR3-E)	4,555.25	113.00
46 82 83 00-3285	EA	3 Relays, 2 IQ Sensor Connections, Ethernet Fieldbus Internet And Remote Control, System 282, IQ SensorNet Controller (YSI 472 114Y, DIQ/S 282-EF)	4,555.25	113.00
46 82 83 00-3286	EA	3 Relays, Three Current Outputs, 24V AC/DC, 2 IQ Sensor Connections, System 282, IQ SensorNet Controller (YSI 472 120Y, DIQ/S 282-CR3/24V)	4,555.25	113.00
46 82 83 00-3287	EA	3 Relays, PROFIBUS, 24V AC/DC, 2 IQ Sensor Connections, System 282, IQ SensorNet Controller (YSI 472 121Y, DIQ/S 282-PR/24V)	4,614.83	113.00
46 82 83 00-3288	EA	3 Relays, MODBUS, 24V AC/DC, 2 IQ Sensor Connections, IQ SensorNet Controller (YSI 122Y, DIQ/S 282-MOD/24V)	4,614.83	113.00
46 82 83 00-3289	EA	Extended Warranty, 282 Terminal Controllers, 1 Additional Year (YSI Ext-War-282-1)	391.42	
46 82 83 00-3290	EA	3 Relays, 24V AC/DC, 2 IQ Sensor Connections, RJ45 Internet And Remote Control, System 282, IQ SensorNet Controller (YSI 472 123Y, DIQ/S 282-CR3-E/24V)	4,833.28	113.00
46 82 83 00-3291	EA	Extended Warranty, 282 Terminal Controllers, 2 Additional Years (YSI Ext-War-282-2)	782.84	
46 82 83 00-3292	EA	3 Relays, 24V AC/DC, 2 IQ Sensor Connections, Ethernet Fieldbus Internet And Remote Control, System 282, IQ SensorNet Controller (YSI 472 124Y, DIQ/S 282-EF/24V)	4,833.28	113.00

46 82 83 00-3293 IQ System 284 Controllers *(46 82 83 00-3225)*

46 82 83 00-3294	EA	6 Relays, Six Current Output, 4 IQ Sensor Connections, System 284, IQ SensorNet Controller (YSI 472 130Y, DIQ/S 284-CR6)	4,614.83	113.00
46 82 83 00-3295	EA	3 Relays, PROFIBUS, 4 IQ Sensor Connections, System 284, IQ SensorNet Controller (YSI 472 131Y, DIQ/S 284-PR)	5,031.87	113.00
46 82 83 00-3296	EA	3 Relays, MODBUS, 4 IQ Sensor Connections, System 284, IQ SensorNet Controller (YSI 472 132Y, DIQ/S 284-MOD)	5,031.87	113.00
46 82 83 00-3297	EA	6 Relays, Six Current Output, 4 IQ Sensor Connections, RJ45 Internet And Remote Control, System 284, IQ SensorNet Controller (YSI 472 133Y, DIQ/S 284-CR6-E)	5,031.87	113.00
46 82 83 00-3298	EA	3 Relays, 4 IQ Sensor Connections, Ethernet Fieldbus, System 284, IQ SensorNet Controller (YSI 472 134Y, DIQ/S 284-EF)	5,031.87	113.00
46 82 83 00-3299	EA	6 Relays, 24V AC/DC, Six Current Outputs, 4 IQ Sensor Connections, System 284, IQ SensorNet Controller (YSI 472 140Y, DIQ/S 284-CR6/24V)	5,230.46	113.00
46 82 83 00-3300	EA	3 Relays, PROFIBUS, 24V AC/DC, 4 IQ Sensor Connections System 284, IQ SensorNet Controller (YSI 472 141Y, DIQ/S 284-PR/24V)	5,230.46	113.00
46 82 83 00-3301	EA	3 Relays, MODBUS, 24V AC/DC, 4 IQ Sensor Connections, System 284, IQ SensorNet Controller (YSI 472 142Y, DIQ/S 284-MOD/24V)	5,230.46	113.00
46 82 83 00-3302	EA	6 Relays, 24V AC/DC, 4 Sensor Connections, Six Current Output, RJ45 Internet And Remote Control, System 284, IQ SensorNet Controller (YSI 472 143Y, DIQ/S 284-CR6-E/24V)	5,230.46	113.00
46 82 83 00-3303	EA	3 Relays, 24V AC/DC, 4 IQ Sensor Connections, Ethernet Fieldbus And Remote Control, System 284, IQ SensorNet Controller (YSI 472 144Y, DIQ/S 284-EF/24V)	5,230.46	113.00

46 82 83 00-3304 Mounting Hardware for Controllers *(46 82 83 00-3225)*

46 82 83 00-3305	EA	Pivoting Wall Mounting (YSI 109 275Y, BE/M 170-D)	329.02	14.69
46 82 83 00-3306	EA	Plastic, IQ Sun Shield (YSI 109 295Y, SSH/IQ) Note: Mounts directly to Vario Mounting Stands or requires 109 286Y to mount on hand railing. For 2020 And 182 Module mounting, also used for mounting air cleaning box.	415.50	14.13
46 82 83 00-3307	EA	25-60 mm Diameter Rail Mounting Kit For SD/M 170, SD/K 170 And SSH/IQ Sun Shields (YSI 109 286Y, MR/SD 170) Note: Used with 109 284Y and 109 295Y.	306.28	14.13
46 82 83 00-3308	EA	Sun Shield For Outdoor Installation Of Junction Boxes (YSI 109 284Y, SD/K 170) Note: Used with 109 286Y. Requires 109 286Y. Order separately.	296.35	14.13
46 82 83 00-3309	EA	Top Hat Rail Mounting For IQ Modules (YSI 480 050Y, THS/IQ) Note: Din rail mounting system.	147.40	14.13
46 82 83 00-3310	EA	Wall Mount Kit For IQ Modules (YSI 480 052Y, WMS/IQ)	147.40	14.13
46 82 83 00-3311	EA	Panel Mount Kit For IQ Modules (YSI 480 048Y, PMS/IQ)	99.74	14.13
46 82 83 00-3312	EA	Mounting Plate For Two DIQ Modules (YSI 472 009Y, MS/DIQ) Note: Requires 109 286Y. Order separately.	187.12	14.13
46 82 83 00-3313	EA	M16 Male To 1/2" NPT Female Stainless Steel Conduit Adapter (YSI 480 053USY)	87.83	14.13
46 82 83 00-3314	EA	3/4" Diameter, CC-Box, Flexible Conduit Adapter For IQ Module Connections (YSI 900 120Y, CC-BOX)	127.55	14.13
46 82 83 00-3315	EA	3/4" Diameter, CC-PM, Conduit Adapter For IQ Profibus/Modbus Connections (YSI 900 125Y, CC-PM)	127.55	14.13
46 82 83 00-3316	EA	Vario Wall Mounting Stand (YSI 109 283Y, BE/ST 170-M)	1,517.67	14.13
46 82 83 00-3317	EA	Double Sun Shield (YSI 109 287Y, SD/M170-D) Note: For mounting two monitors. Requires one 109 286Y (order separately).	697.78	14.13
46 82 83 00-3318	EA	Double Junction Clamp For Vario Mounting Stands (YSI 109 290Y, MS/KK 170)	643.88	14.13

46 82 83 00-3319 Sensor Cleaning Modules And Options *(46 82 83 00-3225)*

46 82 83 00-3320	EA	115 Volt AC, Cleaner Air Box Assembly (YSI 480 017Y, CLEANING AIR BOX-115 VAC) Note: You need part #900 107Y in conjunction with either 480 018Y or 480 017Y. Order 109 286Y and 109 295Y separately for mounting the 480 017Y. Uses one relay from IQ network.	3,219.39	70.62
46 82 83 00-3321	EA	Cleaning Head Assembly For IQ Sensors (YSI 900 107Y, CH) Note: Includes15 M of tubing.	1,134.20	70.62
46 82 83 00-3322	EA	Cleaner Head Valve Module (YSI 480 018Y, MIQ/CHV Plus) Note: You need part #900 107Y in conjunction with either 480 018Y or 480 017Y. For use with 184XT and 2020XT systems.	1,571.10	70.62
46 82 83 00-3323	EA	System 182 Cleaning Head Valve Module (YSI 472 007Y, DIQ/CHV) Note: Uses one relay contact for operation. For use with plant supplied air.	1,283.14	70.62

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3324		**Dissolved Oxygen - Optical** *(46 82 83 00-3225)*		
46 82 83 00-3325	EA	0 To 20 mG/L, Optical DO Probe For IQ System (YSI 201 650Y, FDO 700 IQ) Note: Order SACIQ cable separately.	3,957.25	42.37
46 82 83 00-3326	EA	0 To 20 mG/L, Fast Response Optical DO Probe For IQ System (YSI 201 660Y, FDO 701 IQ) Note: Order SACIQ cable separately.	3,957.25	42.37
46 82 83 00-3327	EA	0 To 20 mG/L, Seawater, Optical DO Probe For IQ System (YSI 201 652Y, FDO 700 IQ SW) Note: Order SACIQ cable separately.	3,957.25	42.37
46 82 83 00-3328	EA	0 To 20 mG/L, Seawater, Fast Response Optical DO Probe For IQ System (YSI 201 653Y, FDO 701 IQ SW) Note: Order SACIQ cable separately.	3,957.25	42.37
46 82 83 00-3329	EA	0 To 20 mG/L, Class I, Division 2, Groups A, B, C, D T6, Optical DO Probe For IQ System (YSI 207 065Y, FDO 700 IQ H) Note: Order MIQ/BB1 (207 001Y) and SACIQ separately. Must be connected to MIQ/BB1 to maintain Class I, Division 2 rating.	4,155.85	42.37
46 82 83 00-3330	EA	0 To 20 mG/L, Class I, Division 2, Groups A, B, C, D T6, Fast Response Optical DO Probe For IQ System (YSI 207 066Y, FDO 701 IQ H) Note: Order MIQ/BB1 (207 001Y) and SACIQ separately. Must be connected to MIQ/BB1 to maintain Class I, Division 2 rating.	4,155.85	42.37
46 82 83 00-3331	EA	Barrier Box Module For FDO 700(1) IQ H (YSI 207 001Y, MIQ/BB1) Note: Used with 207 065Y and 207 066Y.	879.11	42.37
46 82 83 00-3332	EA	IQ FDO 700 IQ Probe Replacement Cap (YSI 201 654Y, SC-FDO 700)	415.50	14.13
46 82 83 00-3333	EA	IQ FDO 701 IQ Fast Response Probe Replacement Cap (YSI 201 655Y, SC-FDO 701)	415.50	14.13
46 82 83 00-3334	EA	Protective Guard For FDO Probes (YSI 205 253Y, MSK FDO)	415.50	14.13
46 82 83 00-3335	EA	Cleaning Kit For Connection Of The Protective Hood To A Valve Modules Or Cleaning Air Box (YSI 205 254Y, MSK FDO CS)	387.25	
46 82 83 00-3336		**Electrochemical Membrane Style** *(46 82 83 00-3225)*		
46 82 83 00-3337	EA	0 To 60 mG/L, 0.0 Resolution, Electrochemical DO Probe For IQ System (YSI 201 640Y, TriOxmatic® 700 IQ) Note: Order SACIQ cable separately.	3,659.37	42.37
46 82 83 00-3338	EA	Electrochemical DO Probe For IQ System, Salt Water (YSI 201 641Y, TriOxmatic® 700 IQ SW) Note: Order SACIQ cable separately.	3,679.23	42.37
46 82 83 00-3339	EA	0 To 20 mG/L, 0.0 Resolution, Fast Responding, Electrochemical DO Probe For IQ System (YSI 201 644Y, TriOxmatic® 701 IQ) Note: Order SACIQ cable separately.	3,679.23	42.37
46 82 83 00-3340	EA	0 To 2000 PPB, 0-10 mG/L, Electrochemical DO Probe For IQ System (YSI 201 646Y, TriOxmatic® 702 IQ) Note: Order SACIQ cable separately.	5,684.99	42.37
46 82 83 00-3341	EA	Maintenance Kit For TriOxmatic 600, 690, 700, 700 IN Probes (YSI 202 620Y, ZBK 600)	615.63	
46 82 83 00-3342	EA	Maintenance Kit For TriOxmatic 601, 701, 702 Probes (YSI 202 621Y, ZBK 25i)	615.63	
46 82 83 00-3343	EA	Membrane Head Assemblies For Models 600/700 (2 EA) (YSI 202 850Y, WP 600/2)	387.25	
46 82 83 00-3344	EA	Membrane Head Assemblies For Models 701, 702 (2 EA) (YSI 202 852Y, WP 25i/2)	387.25	
46 82 83 00-3345	EA	50 mL, Cleaning Solution For Ag-Electrode (YSI 205 200Y, RL-AG/Oxi)	218.45	
46 82 83 00-3346	EA	50 mL, Electrolyte Solution For TriOxmatic 600/700 Series Probes (YSI 205 212Y, ELY/A)	188.66	
46 82 83 00-3347	EA	Protective Membrane Guard For TriOxmatic And CellOx Probes (YSI 205 251Y, MSK 600)	275.46	14.13
46 82 83 00-3348	EA	Cathode Cleaner (Abrasive Foil) For TriOxmatic Dissolved Oxygen Probes (YSI 203 680Y, SF 300)	79.44	
46 82 83 00-3349	EA	Cleaning Cup For TriOxmatic Probes (YSI 202 510Y, RA 600)	297.88	
46 82 83 00-3350		**Interface Level Detection** *(46 82 83 00-3225)*		
46 82 83 00-3351	EA	Digital, Ultrasonic Probe With Automatic Cleaning Wiper For Interface Level Detection (YSI 481 200Y, IFL 700 IQ) Note: Used with 2020XT. Order SACIQ cable separately.	5,943.15	42.37
46 82 83 00-3352	EA	Digital, Ultrasonic Probe For Interface Level Detection (YSI 481 201Y, IFL 701 IQ) Note: Used with 2020XT. Order SACIQ cable separately.	5,684.99	42.37
46 82 83 00-3353		**Total Suspended Solids And Turbidity** *(46 82 83 00-3225)*		
46 82 83 00-3354	EA	Turbidity Probe For IQ System (YSI 600 010Y, VisoTurb 700 IQ) Note: Order SACIQ cable separately.	7,035.40	42.37
46 82 83 00-3355	EA	Turbidity Probe For Seawater Design IQ System (YSI 600 011Y, VisoTurb 700 IQ SW) Note: Order SACIQ cable separately.	7,829.76	42.37
46 82 83 00-3356	EA	Suspended Solids Probe For IQ System (YSI 600 012Y, ViSolid 700 IQ) Note: Order SACIQ cable separately.	7,829.76	42.37
46 82 83 00-3357	EA	Suspended Solids Probe For Seawater Design IQ System (YSI 600 013Y, ViSolid 700 IQ SW) Note: Order SACIQ cable separately.	9,219.89	42.37
46 82 83 00-3358	EA	Class I, Division 2, Group D T6 Rated, Suspended Solids Probe For IQ System (YSI 207 012Y, ViSolid 700 IQ H) Note: Order MIQ/BB2 and SACIQ separately. Must be connected to MIQ/BB2 (207 002Y) to maintain CI, D2 rating.	8,018.42	42.37
46 82 83 00-3359	EA	Barrier Box Module For ViSolid 700 IQ H (YSI 207 002Y, MIQ/BB2) Note: Used with 207 012Y.	879.11	42.37
46 82 83 00-3360		**Ammonium** *(46 82 83 00-3225)*		
46 82 83 00-3361	EA	Reference Electrode, Ammonium Electrode, AmmoLyt Plus Ammonium Probe (YSI 107 071YK, AmmoLyt Plus Set) Note: Order SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	12,238.46	42.37
46 82 83 00-3362	EA	Reference Electrode, Ammonium Electrode, Potassium Electrodes, AmmoLyt Plus Ammonium Probe (YSI 107 072YK, AmmoLyt Plus set/comp) Note: Order SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	12,446.98	42.37
46 82 83 00-3363	EA	AmmoLyt Plus Ammonium Probe (YSI 107 070Y, AmmoLyt Plus 700 IQ) Note: Order Electrodes and SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	9,110.67	42.37

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3364	EA	AmmoLyt Plus Ammonium Reference Electrode (YSI 107 042Y, VARiON Ref) Note: Used with 107 070Y and 170 040Y.	1,693.33	42.37
46 82 83 00-3365	EA	0.1 To 1,000 mG/L, Ammonium Measuring Electrode For VARiON Plus And AmmoLyt Plus 700 IQ Probes (YSI 107 044Y, VARiON Plus NH4) Note: Used with 107 070Y and 170 040Y.	1,216.71	42.37
46 82 83 00-3366	EA	1 To 1,000 mG/L, Potassium Compensating Electrode For VARiON Plus And AmmoLyt Plus 700 IQ Probes (YSI 107 046Y, VARiON Plus K) Note: Used with 107 070Y and 170 040Y.	1,216.71	42.37
46 82 83 00-3367	EA	1,000 mL, Low Concentration Standard Solution For VARiON Plus, AmmoLyt Plus, And NitraLyt Plus 700 IQ Probes (YSI 107 050Y, VARiON/ES-1) Note: Used for sensor check and storage.	158.87	
46 82 83 00-3368	EA	1,000 mL, High Concentration Standard For VARiON Plus, AmmoLyt Plus And NitraLyt Plus 700 IQ Probes (YSI 107 052Y, VARiON/ES-2) Note: Used for sensor check.	158.87	

46 82 83 00-3369 Nitrate *(46 82 83 00-3225)*

46 82 83 00-3370	EA	Reference Electrode, Nitrate Electrode, NitraLyt Plus Nitrate Probe (YSI 107 081YK, NitraLyt Plus Set) Note: Order SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	12,238.46	42.37
46 82 83 00-3371	EA	Reference Electrode, Nitrate Electrode, Chloride Electrode, NitraLyt Plus Nitrate Probe (YSI 107 082YK, NitraLyt Plus Set/Comp) Note: Order SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	12,635.64	42.37
46 82 83 00-3372	EA	NitraLyt Plus Nitrate Probe (YSI 107 080Y, NitraLyt Plus 700 IQ) Note: Requires nitrate reference and measuring electrodes and cable assembly. Order Electrodes and SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	10,004.32	42.37
46 82 83 00-3373	EA	NitraLyt Plus Nitrate Reference Electrode (YSI 107 042Y, VARiON Ref) Note: Used with 107 070Y, 107 080Y and 107 040Y.	1,693.33	42.37
46 82 83 00-3374	EA	0.1 To 1,000 mG/L, Nitrate Measuring Electrode (YSI 107 045Y, VARiON Plus NO3) Note: For VARiON Plus, NitraLyt And?NitraLyt Plus 700 IQ Probes. Used with 107 080Y and 107 040Y.	1,276.29	42.37
46 82 83 00-3375	EA	1 To 1,000 mG/L, Chloride Compensating Electrode (YSI 107 047Y, VARiON Plus Cl) Note: For VARiON Plus And NitraLyt Plus 700 IQ Probes. Used with 107 080Y and 107 040Y.	1,276.29	42.37
46 82 83 00-3376	EA	1,000 mL, Low Concentration Standard Solution (YSI 107 050Y, VARiON/ES-1) Note: For VARiON Plus, AmmoLyt Plus, and NitraLyt Plus 700 IQ probes. Used for sensor check and storage.	178.73	
46 82 83 00-3377	EA	1,000 mL, High Concentration Standard Solution (YSI 107 052Y, VARiON/ES-2) Note: For VARiON Plus, AmmoLyt Plus and NitraLyt Plus 700 IQ probes. Used for sensor check.	178.73	

46 82 83 00-3378 VARiON Plus 700 IQ Combination Sensor For Ammonium And Nitrate *(46 82 83 00-3225)*

46 82 83 00-3379	EA	VARiON Plus Probe (YSI 107 066YK, VARiON®PlusAN/A set) Note: Includes reference electrode, and electrodes for ammonium, nitrate and potassium. Order SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	14,422.95	42.37
46 82 83 00-3380	EA	VARiON Plus Ammonium Kit (YSI 107 060YK, VARiON®Plus A comp set) Note: Includes VARiON Plus Probe, reference electrode, ammonium electrode and potassium compensating electrode. Order SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	13,871.51	
46 82 83 00-3381	EA	VARiON Plus Probe (YSI 107 068YK, VARiON®Plus AN/N set) Note: Includes reference electrode, and electrodes for ammonium, nitrate and chloride. Order electrodes and SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	14,422.95	42.37
46 82 83 00-3382	EA	VARiON Plus Nitrate Kit (YSI 107 062YK, VARiON®Plus N comp set) Note: Includes VARiON Plus Probe, reference electrode, nitrate electrode and chloride compensating electrode. Order SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	13,871.51	
46 82 83 00-3383	EA	VARiON Plus Probe (YSI 107 040Y, VARiON Plus 700 IQ) Note: Requires ion selective electrodes, reference and compensating electrodes. Order Electrodes and SACIQ cable separately. For dirty process applications, add MIQ/CHV Plus (480 018Y) and CH (900 107Y).	10,451.15	42.37
46 82 83 00-3384	EA	VARiON Reference Electrode (YSI 107 042Y, VARiON Ref) Note: Used with 107 070Y, 107 080Y and 107 040Y.	1,792.62	42.37
46 82 83 00-3385	EA	0.1 To 1,000 mG/L, Ammonium Measuring Electrode (YSI 107 044Y, VARiON Plus NH4) Note: For VARiON Plus and AmmoLyt Plus 700 IQ probes. Used with 107 070Y and 170 040Y.	1,296.15	42.37
46 82 83 00-3386	EA	0.1 To 1,000 mG/L, Nitrate Measuring Electrode (YSI 107 045Y, VARiON Plus NO3) Note: For VARiON Plus, NitraLyt and?NitraLyt Plus 700 IQ probes. Used with 107 080Y and 107 040Y.	1,296.15	42.37
46 82 83 00-3387	EA	1 To 1,000 mG/L, Potassium Compensating Electrode (YSI 107 046Y, VARiON Plus K) Note: For VARiON Plus and AmmoLyt Plus 700 IQ probes. Used with 107 070Y and 170 040Y.	1,296.15	42.37
46 82 83 00-3388	EA	1 To 1,000 mG/L, Chloride Compensating Electrode (YSI 107 047Y, VARiON Plus Cl) Note: For VARiON Plus and NitraLyt Plus 700 IQ probes. Used with 107 080Y and 107 040Y.	1,296.15	42.37
46 82 83 00-3389	EA	1,000 mL, Low Concentration Standard Solution (YSI 107 050Y, VARiON/ES-1) Note: For VARiON Plus, AmmoLyt Plus, and NitraLyt Plus 700 IQ probes. Used for sensor check and storage.	178.73	
46 82 83 00-3390	EA	1,000 mL, High Concentration Standard Solution (YSI 107 052Y, VARiON/ES-2) Note: For VARiON Plus, AmmoLyt Plus and NitraLyt Plus 700 IQ probes. Used for sensor check.	178.73	
46 82 83 00-3391	EA	Protective Hood (YSI 107 056Y, VARiON 700 IQ-SK) Note: For VARiON Sensor Electrodes	385.71	14.13
46 82 83 00-3392	EA	1 Box Spanner For Electrodes, 1 Blind Plug, 3 Spare O-rings, 1 Vessel For Wet Storage, Spare Parts Kit (YSI 107 057Y, VARiON Epack)	164.81	
46 82 83 00-3393	EA	Maintenance And Calibration Case (YSI 107 058Y, VARiON Case) Note: For VARiON 700 IQ.	659.23	

46 82 83 00-3394 pH And ORP *(46 82 83 00-3225)*

46 82 83 00-3395	EA	IQ Probe, pH Or ORP Probe With Amplifier (YSI 109 170Y, SensoLyt® 700 IQ) Note: Order pH or ORP Electrode and SACIQ cable separately.	1,971.35	42.37
46 82 83 00-3396	EA	Salt Water Design, IQ Probe, pH Or ORP Probe With Amplifier (YSI 109 171Y, SensoLyt® 700 IQ SW) Note: Order pH or ORP Electrode and SACIQ cable separately.	2,090.51	42.37

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3397	EA	2 To 12 pH, pH Electrode With Built In Reference (YSI 109 115Y, SensoLyt SEA) Note: For SensoLyt 690/700 and SensoLyt 700 IQ. Used with 109 170Y and 109 171Y. SEA Electrode is designed for wastewater.	1,107.49	42.37
46 82 83 00-3398	EA	2 To 12 pH, pH Electrode With Built In Reference (YSI 109 117Y, SensoLyt ECA) Note: For SensoLyt 690/700 and SensoLyt 700 IQ. Used with 109 170Y and 109 171Y.	998.26	42.37
46 82 83 00-3399	EA	Up To 145 PSIG, 4 To 12 pH, pH Electrode With Built In Reference (YSI 109 118Y, SensoLyt SEA-HP) Note: For high-pressure. For SensoLyt 690/700 and SensoLyt 700 IQ. Used with 109 170Y and 109 171Y. SEA-HP is designed for high pressure.	1,107.49	42.37
46 82 83 00-3400	EA	2 To 12 pH, pH Electrode With Built In Reference (YSI 109 119Y, SensoLyt DWA) Note: For SensoLyt 690/700 And SensoLyt 700 IQ. Used with 109 170Y and 109 171Y. DWA Electrode is designed for drinking water applications.	1,008.19	42.37
46 82 83 00-3401	EA	+/- 1,000 mV, ORP Electrode With Built In Reference (YSI 109 125Y, SensoLyt PtA) Note: For SensoLyt 690/700. Used with 109 170Y and 109 171Y.	1,266.36	42.37
46 82 83 00-3402		**Conductivity** *(46 82 83 00-3225)*		
46 82 83 00-3403	EA	Submersible Conductivity Probe (YSI 302 500Y, TetraCon® 700 IQ) Note: For IQ System, requires cable assembly.	2,487.69	42.37
46 82 83 00-3404	EA	Salt Water Design, Submersible Conductivity Probe (YSI 302 501Y, TetraCon® 700 IQ SW) Note: For IQ System, requires cable assembly.	2,924.59	42.37
46 82 83 00-3405		**UV - Single Wavelength With Compensation Wavelength** *(46 82 83 00-3225)*		
46 82 83 00-3406	EA	Optical UV Absorption Probe (YSI 481 036Y, IQ UVT-254 701) Note: For UVT-254/SAC (total and soluble) with correlated parameters: COD, BOD, DOC and TOC, 1 mm path length, with integrated ultrasonic cleaning. Reports one parameter at a time. Supplied with multifunctional slide and shock-absorption-rings, Without connection cable (SACIQ order separately). Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	26,119.90	42.37
46 82 83 00-3407	EA	Optical UV Absorption Probe (YSI 481 038Y, IQ UVT-254 705) Note: For UVT-254/SAC (total and soluble) with correlated parameters: COD, BOD, DOC and TOC, 5 mm path length, with integrated ultrasonic cleaning. Reports one parameter at a time. Supplied with multifunctional slide and shock-absorption-rings, without connection cable (SACIQ order separately). Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	24,829.06	42.37
46 82 83 00-3408	EA	IQ SensorNet Optical UV NOx Probe (YSI 481 034Y, IQ NOx 701) Note: With integrated ultrasonic cleaning, 1 mm gap. Nitrate measuring range: 0.0-100.0 mG/L NOx-N), Supplied with multifunctional slide and shock-absorption-rings, without connection cable (SACIQ order separately). Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	30,071.84	42.37
46 82 83 00-3409	EA	IQ SensorNet Optical UV NOx Probe (YSI 481 035Y, IQ NOx 705) Note: With integrated ultrasonic cleaning, 5 mm gap. Nitrate measuring range: 0.0-20.0 mG/L NOx-N), Supplied with multifunctional slide and shock-absorption-rings, without connection cable (SACIQ order separately). Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	30,121.49	42.37
46 82 83 00-3410		**UV And UV/VIS Spectral Sensors** *(46 82 83 00-3225)*		
46 82 83 00-3411	EA	Optical Nitrate Probe (YSI 481 044Y, NitraVis 701 IQ) Note: With spectral processing of UV/VIS range, for in-situ measurement in inlet/BNR part of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	32,057.74	42.37
46 82 83 00-3412	EA	Optical Nitrate And TSS Probe (YSI 481 045Y, NitraVis 701 IQ TS) Note: With spectral processing of UV/VIS range, for in-situ measurement in inlet/BNR part of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	35,354.33	42.37
46 82 83 00-3413	EA	Optical Nitrate Probe (YSI 481 046Y, NitraVis 705 IQ) Note: With spectral processing of UV/VIS range, for in-situ measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	32,057.74	42.37
46 82 83 00-3414	EA	Optical Nitrate And TSS Probe (YSI 481 047Y, NitraVis 705 IQ TS) Note: With spectral processing of UV/VIS range, for in-situ measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	36,049.40	42.37
46 82 83 00-3415	EA	IQ SensorNet Optical UV Nitrite/Nitrate Probe (YSI 481 056Y, Nitravis 701 IQ NI) Note: With integrate ultrasonic cleaning, 1 mm gap. For use in influent, biological tank and effluent of municipal wastewater treatment plants, Supplied with calibration chamber and shock-absorption rings. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	32,951.39	42.37
46 82 83 00-3416	EA	IQ SensorNet Optical UV Nitrite/Nitrate Probe (YSI 481 057Y, Nitravis 705 IQ NI) Note: With integrate ultrasonic cleaning, 5 mm gap. For use in effluent of municipal wastewater treatment plants, supplied with calibration chamber and shock-absorption rings. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	33,149.99	42.37
46 82 83 00-3417	EA	Optical Nitrate And COD - Total And Soluble/TOC/DOC/BOD/SAC - Total And Soluble/UVT-254 Probe (YSI 481 052Y, NiCaVis 705 IQ) Note: With spectral processing of the UV/Vis range, for use in effluent (municipal wastewater), with integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	43,536.24	42.37

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3418	EA	Optical COD - Total And Soluble/TOC/DOC/BOD/SAC - Total And Soluble/UVT-254 Probe (YSI 481 048Y, CarboVis 701 IQ) Note: With spectral processing of the UV/VIS range for use in influent/effluent/biological tank (municipal wastewater) with integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	37,965.79	42.37
46 82 83 00-3419	EA	Optical COD - Total And Soluble/TOC/DOC/BOD/SAC - Total And Soluble/UVT-254 And TSS Probe (YSI 481 049Y, CarboVis 701 IQ TS) Note: With spectral processing of the UV/Vis range for use in influent/effluent/biological tank (municipal wastewater) with integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	41,808.51	42.37
46 82 83 00-3420	EA	Optical COD - Total And Soluble/TOC/DOC/BOD/SAC - Total And Soluble/UVT-254 Probe (YSI 481 050Y, CarboVis 705 IQ) Note: With spectral processing of the UV/Vis range for use in effluent (municipal wastewater) with integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	38,452.34	42.37
46 82 83 00-3421	EA	Optical COD - Total And soluble/TOC/DOC/BOD/SAC - Total And Soluble/UVT-254 And TSS Probe (YSI 481 051Y, CarboVis 705 IQ TS) Note: With spectral processing of the UV/Vis range for use in effluent (municipal wastewater) with Integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	42,364.56	42.37
46 82 83 00-3422	EA	UV Nitrite/Nitrate/COD - Total And Soluble/TOC/DOC/BOD/SAC - Total And Soluble And UVT - 254 Probe (YSI 481054Y, NiCaVis 701 IQ NI) Note: For use in influent, biological tank and effluent municipal wastewater treatment plants with integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	43,804.34	42.37
46 82 83 00-3423	EA	UV Nitrite/Nitrate/COD - Total And Soluble/TOC/DOC/BOD/SAC - Total And Soluble And UVT - 254 Probe (YSI 481055Y, NiCaVis 705 IQ NI) Note: For use in effluent of municipal wastewater treatment plants with Integrated ultrasonic cleaning. Mount with EH/W 171 - 173 with EH/WB. Mount with EH/P or EH/F with EH/U or VIS Set/EH. Mount with VIS Set-F with S200. Model 182 requires two power supplies.	44,668.21	42.37
46 82 83 00-3424	EA	Air Pressure Cleaning Set (YSI 481 075Y, SET/AP) Note: With connector and 15m air tubing.	357.46	
46 82 83 00-3425	EA	UVVIS Probes And IQ SensorNet Cleaning Kit (YSI 481 071Y, VIS/CT) Note: Includes 20 perforated textured cleaning cloths in two sizes for 1 mm and 5 mm gap Sensors.	357.46	
46 82 83 00-3426	EA	UVVIS Sensor Universal Cleaning Kit (YSI 481 079Y, VIS C/SET) Note: Includes 20 perforated textured (flocked) cleaning cloths in two sizes for 1 mm and 5 mm gap sensors. Includes cleaning solutions.	714.92	
46 82 83 00-3427	EA	1 mm Path Length, Old-style UVVIS Sensor Cleaning Brushes (YSI 481 031Y, VIS/Set Brushes/1mm) Note: (2) brushes. Used on discontinued version of UVVIS probe.	178.73	
46 82 83 00-3428	EA	5 mm Path Length, Old-style UVVIS Sensor Cleaning Brushes (YSI 481 032Y, VIS/Set Brushes/5mm) Note: (2) brushes. Used on discontinued version of UVVIS probe.	178.73	
46 82 83 00-3429	EA	UVVIS Calibration And Cleaning Chamber (YSI 481 074, VIS/CV)	635.49	
46 82 83 00-3430	EA	UV/VIS Probe Horizontal Mounting Kit With Swing Mount EH/F 170 (YSI 481 073Y, VIS Set/EH)	614.09	14.13
46 82 83 00-3431		**Cable Assemblies** *(46 82 83 00-3225)*		
46 82 83 00-3432	EA	4.9', IQ Sensor Connection Cable (YSI 480 040Y, SACIQ-1.5) Note: Salt water and regular cables are interchangeable with all probes.	427.42	14.13
46 82 83 00-3433	EA	22.9', IQ Sensor Connection Cable (YSI 480 042Y, SACIQ-7.0) Note: Salt water and regular cables are interchangeable with all probes.	486.99	14.13
46 82 83 00-3434	EA	49.2', IQ Sensor Connection Cable (YSI 480 044Y, SACIQ-15.0) Note: Salt water and regular cables are interchangeable with all probes.	622.48	28.25
46 82 83 00-3435	EA	65.6', IQ Sensor Connection Cable For Salt Water With SACIQ-Plug (YSI 480 045Y, SACIQ-20.0 SW) Note: Salt water and regular cables are interchangeable with all probes.	691.99	28.25
46 82 83 00-3436	EA	82', IQ Sensor Connection Cable For Salt Water With SACIQ-Plug (YSI 480 066Y, SACIQ-25.0 SW) Note: Salt water and regular cables are interchangeable with all probes.	1,158.67	28.25
46 82 83 00-3437	EA	164', IQ Sensor Connection Cable For Salt Water With SACIQ-Plug (YSI 480 060Y, SACIQ-50.0 SW) Note: Salt water and regular cables are interchangeable with all probes.	1,466.49	28.25
46 82 83 00-3438	EA	246', IQ Sensor Connection Cable For Salt Water With SACIQ-Plug (YSI 480 067Y, SACIQ-75.0 SW) Note: Salt water and regular cables are interchangeable with all probes.	1,722.53	42.37
46 82 83 00-3439	EA	328', IQ Sensor Connection Cable For Salt Water With SACIQ-Plug (YSI 480 062Y, SACIQ-100.0 SW) Note: Salt water and regular cables are interchangeable with all probes.	2,124.25	42.37
46 82 83 00-3440	EA	Special Order IQ Sensor Connection Cable (YSI 480 041VY, SACIQ-SO) Note: In increments up to 100 meters. Salt water and regular cables are interchangeable with all probes.	528.70	14.13
46 82 83 00-3441	M	Special Order IQ Sensor Connection Cable (YSI 480 041VY, SACIQ-SO) PER METER	15.84	0.71
46 82 83 00-3442	EA	Screw-in Protective Plug For SACIQ Sensor Cables (YSI 480 065Y, SACIQ-Plug) Note: Salt water and regular cables are interchangeable with all probes.	91.80	14.13
46 82 83 00-3443	M	Two Wire, With Shield, IQ Cable (YSI 480 046YM-XX, SNCIQ) Note: Salt water and regular cables are interchangeable with all probes.	31.21	0.71
46 82 83 00-3444	EA	820' Two Wire, With Shield, IQ Cable (YSI 480 070Y, SNCIQ-250) Note: Salt water and regular cables are interchangeable with all probes.	6,212.79	28.25
46 82 83 00-3445	EA	1640' Two Wire, With Shield, IQ Cable (YSI 480 072Y, SNCIQ-500) Note: Salt water and regular cables are interchangeable with all probes.	8,306.38	42.37
46 82 83 00-3446	EA	3,281' Two Wire, With Shield, IQ Cable (YSI 480 074Y, SNCIQ-1000) Note: Salt water and regular cables are interchangeable with all probes.	13,400.64	56.50
46 82 83 00-3447		**Mounting Hardware** *(46 82 83 00-3225)*		
46 82 83 00-3448	EA	Quick Release Stainless Steel Handrail Mounting Bracket For Sensors (YSI 245 8000Y, SMK) Note: 1-1/2" PVC couplers and end cap. Comprised of part 2458038Y and part numbers 559327-2Y, 559327-4Y and 559327-7Y.	862.33	14.13
46 82 83 00-3449	EA	Quick Release Stainless Steel Handrail Mounting Bracket For Sensors (YSI 245 8038M)	818.64	14.13

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3450	EA	Quick Release Stainless Steel Handrail Mounting Bracket For IFL, UV And UV-VIS Sensors (YSI 245 8039Y) Note: For use with 3/4" galvanized pipe. Used with IFL-D for IFL sensor mounting. Used with 109 362Y for UV and UV-VIS sensors.	723.31	14.13
46 82 83 00-3451	EA	Sensor Coupling For SACIQ Sensor Cable (YSI 559327-2Y) Note: Up to 1-1/2" Schedule 80 PVC pipe.	316.21	14.13
46 82 83 00-3452	EA	Slotted End Cap For Sensor Mounting Kit (YSI 559327-4Y)	236.77	14.13
46 82 83 00-3453	EA	PVC Coupler For Sensor Mounting Kit (YSI 559327-7Y)	97.76	14.13
46 82 83 00-3454	EA	Float With Pendulum Mounting Assembly (YSI 108 540Y, S 200) Note: Requires one 109 232Y and one 109 320Y.	2,470.91	14.13
46 82 83 00-3455	EA	Float With Pendulum Mounting Assembly For Two IQ 40 mm Diameter Probes (YSI 108 542Y, S 200/2) Note: Requires one 109 232Y and one 109 320Y per sensor.	3,503.57	14.13
46 82 83 00-3456	EA	Float With Pendulum Mounting Assembly For Four IQ 40 mm Diameter Probes (YSI 108 544Y, S 200/4) Note: Requires one 109 232Y and one 109 320Y per sensor.	3,489.22	14.13
46 82 83 00-3457	EA	Horizontal Mounting Kit For Mounting UV And UV/VIS Probes Onto S 200 Float (YSI 481 080Y, VIS Set-F) Note: Used with UV, UV/VIS.	643.88	14.13
46 82 83 00-3458	EA	Sensor Weight Ring (YSI 109 232Y, GWA) Note: Needed for S 200 float.	604.16	14.13
46 82 83 00-3459	EA	Single Sensor Holder, Chain Style Mounting (YSI 109 320Y, EH/U 170) Note: Need either 109 272Y or 109 273Y, and either 109 278Y or 109 279Y.	365.85	14.13
46 82 83 00-3460	EA	Twin Sensor Holder, Chain Style Mounting (YSI 109 323Y, EH2/U 170) Note: Need either 109 272Y or 109 273Y, and one of either 109 280Y, 109 281Y or 109 283Y.	475.08	14.13
46 82 83 00-3461	EA	Triple Sensor Holder, Chain Style Mounting (YSI 109 325Y, EH3/U 170) Note: Need either 109 272Y or 109 273Y, and one of either 109 280Y, 109 281Y or 109 283Y.	614.09	14.13
46 82 83 00-3462	EA	SensoClean Pendulum Mounting Assembly With Adjustable Boom (YSI 109 270Y, EH/P 170)	1,011.27	14.13
46 82 83 00-3463	EA	1.5 m Boom Length, SensoClean Swing Mounting Assembly (YSI 109 272Y, EH/F 170-1.5)	385.71	14.13
46 82 83 00-3464	EA	2.5 m Boom Length, SensoClean Swing Mounting Assembly (YSI 109 273Y, EH/F 170-2.5)	643.88	14.13
46 82 83 00-3465	EA	Chain Slide For EH/F 170 (YSI 109 291Y, CHS) Note: Used with IFL/UV/ UVVIS. Included with the purchase of EH/F 170.	224.85	14.13
46 82 83 00-3466	EA	Fixture Assembly For Direct Wall Mounting (YSI 109 274Y, EH/W 170) Note: Used with UA sensor holder, order separately.	1,289.30	14.13
46 82 83 00-3467	EA	Clamp Fixture For Direct Masonry Mounting Of Boom (YSI 109 276Y, BE/M 170)	536.64	14.13
46 82 83 00-3468	EA	No Pivot, Boom Or Pendulum Pipe Mount (YSI 109 278Y, BE/R 170) Note: Do not use if using a twin or triple sensor holder. Use BE/ST 170, -M, -R instead.	475.08	14.13
46 82 83 00-3469	EA	With Pivot, Boom Or Pendulum Pipe Mount (YSI 109 279Y, BE/R 170-D) Note: Do not use if using a twin or triple sensor holder. Use BE/ST 170, -M, -R instead.	485.01	14.13
46 82 83 00-3470	EA	Vario Concrete Floor Mounting Stand (YSI 109 280Y, BE/ST 170) Note: For mounting a EH/F 170 swing or EH/P 170 pendulum assembly. Supplied with joint-locking fixture to accommodate a swing or pendulum probe mount and two brackets for attaching a sun shield. Includes aluminum die cast base, wall plugs and screws.	1,438.24	14.13
46 82 83 00-3471	EA	Vario Vertical Or Horizontal Pipe Rail Mounting Stand (YSI 109 281Y, BE/ST 170-R) Note: For mounting a EH/F 170 swing or EH/P 170 pendulum assembly. Supplied with joint-locking fixture to accommodate a swing or pendulum probe mount and two brackets for attaching a sun shield.	1,370.72	14.13
46 82 83 00-3472	EA	Vario Wall Mounting Stand (YSI 109 283Y, BE/ST 170-M) Note: For mounting a EH/F 170 swing or EH/P 170 pendulum assembly. Supplied with joint-locking fixture to accommodate a swing or pendulum mounting assembly and two brackets for attaching a sun shield.	1,319.09	14.13
46 82 83 00-3473	EA	Pipe Bracket (YSI 109 289Y, MS/RKH 170) Note: For Installing Second Sensor Onto EH/P 170. Two required per sensor.	338.05	14.13
46 82 83 00-3474	EA	Double Junction Clamp (YSI 109 290Y, MS/KK 170) Note: For mounting additional EH/F or EH/P to a Vario mounting stand BE/ST 170-X.	604.16	14.13
46 82 83 00-3475	EA	Shackle For Chain Fitting (YSI 505 123Y, S/CH)	74.92	14.13
46 82 83 00-3476	EA	Chain (YSI 505 124Y-XX, CH/1)	77.90	14.13
46 82 83 00-3477	M	Chain (YSI 505 124Y-XX, CH/1) PER METER	39.15	0.71
46 82 83 00-3478	EA	One On-Line Sensor Installation Set (YSI 109 304Y, IN/SET1) Note: Supplied with single sensor holder EH/U 170; SensoClean swing mounting EH/F 170-1,5; Vario floor mounting BE/ST 170; and sun shield SSH/IQ.	1,914.85	14.13
46 82 83 00-3479	EA	Two On-Line Sensors Installation Set (YSI 109 305Y, IN/SET2) Note: Supplied with twin Sensor holder EH/U 170; SensoClean swing mounting EH/F 170-1,5; Vario floor mounting BE/ST 170; and sun shield SSH/IQ.	2,014.15	14.13
46 82 83 00-3480	EA	Three On-Line Sensors Installation Set (YSI 109 306Y, IN/SET3) Note: Supplied with triple Sensor holder EH/U 170; SensoClean swing mounting EH/F 170-1,5; Vario floor mounting BE/ST 170; and sun shield SSH/IQ.	2,053.87	14.13
46 82 83 00-3481	EA	IFL Sensor Deflector Plate (YSI 481 206Y, IFL-E) Note: Used with IFL. Connects to IFL rail mounts (IFL-PM or IFL-RM). Requires user-supplied 1" diameter pipe.	643.88	14.13
46 82 83 00-3482	EA	Vertical IFL Sensor Rail Mount (YSI 481 208Y, IFL-PM) Note: Deployable at railing posts. Used with IFL-E (481 206Y), order separately. Requires user supplied 1" diameter pipe.	604.16	14.13
46 82 83 00-3483	EA	Angled IFL Sensor Rail Mount (YSI 481207Y, IFL-RM) Note: Used with IFL. Deployable on railing, angled to clear obstructions. Used with IFL-E (481 206Y), order separately. Requires user supplied 1" diameter pipe.	1,835.42	14.13
46 82 83 00-3484	EA	Extended, Pivot, IFL, UV And UV/VIS Wall Mount (YSI 109360Y, EH/W 171) Note: Used with IFL/UV/ UVVIS. Requires 109 362Y (ordered separately) and customer supplied 3/4" diameter pipe.	1,358.80	14.13
46 82 83 00-3485	EA	Fixed, IFL, UV And UV/VIS Wall Mount (YSI 109361Y, EH/W 172) Note: Used with IFL/UV/ UVVIS. Requires 109 362Y (ordered separately) and customer supplied 3/4" diameter pipe.	514.80	14.13
46 82 83 00-3486	EA	Side Arm, Fixed, IFL, UV And UV/VIS Wall Mount (YSI 109 365Y, EH/W 173) Note: Used with IFL/UV/ UVVIS. Requires 109 362Y (ordered separately) and customer supplied 3/4" diameter pipe.	1,041.06	14.13
46 82 83 00-3487	EA	IFL, UV And UV/VIS Sensor Holder For EH/W Wall Mounts (YSI 109362Y, EH/WB) Note: Used with IFL/UV/ UVVIS. Used with 109 361Y, 109 360Y and 109 365Y and customer supplied 3/4" diameter pipe.	544.58	14.13
46 82 83 00-3488	EA	EH/W 170, 171, 172 And 173 Wall Rail Connection Mount (YSI 109 366Y, EH/W RM) Note: Used with IFL/UV/ UVVIS.	1,259.51	14.13

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3489		**Sensor Cleaning Components** *(46 82 83 00-3225)*		
46 82 83 00-3490	EA	Solenoid Valve Option For Plant Supplied Air, Cleaner Head Valve Module (YSI 480 018Y, MIQ/CHV Plus) Note: For use with 2020XT systems. Requires part #900 107Y in conjunction with either 480 018Y or 480 017Y.	1,571.10	70.62
46 82 83 00-3491	EA	System 182 Cleaning Head Valve Module (YSI 472 007Y, DIQ/CHV) Note: For use with plant supplied air. Uses one relay contact for operation.	1,173.92	70.62
46 82 83 00-3492	EA	Cleaning Head With 15 Meters Of Tubing (YSI 900 107Y, CH)	1,084.55	70.62
46 82 83 00-3493	EA	Cleaning Air Box (YSI 480 017Y) Note: You need part #900 107Y in conjunction with either 480 018Y or 480 017Y. Order 109 286Y and 109 295Y separately for mounting the 480 017Y onto handrail. Uses one relay contact for operation.	3,239.25	70.62
46 82 83 00-3494	EA	Cleaning Head Spare Part Set (YSI 900 111Y, CH/Epack)	158.63	
46 82 83 00-3495	EA	Mounting Into Cleaning Air Box Or In Flow-Thru Adapter EBST-700 DU/ND Check Valve (YSI 480 029Y, BPV)	286.42	14.13
46 82 83 00-3496		**Sensor Extensions And Holders** *(46 82 83 00-3225)*		
46 82 83 00-3497	EA	550 mm Sensor Holder With PVC Extension Assembly (YSI 109 260Y, UA 55)	683.60	14.13
46 82 83 00-3498	EA	1,300 mm Sensor Holder With PVC Extension Assembly (YSI 109 261Y, UA 130)	763.03	14.13
46 82 83 00-3499	EA	Probe Extension Assembly (YSI 109 263VY, UA-SO) Note: For mounting 70X IQ probes. Includes handle and set of seals. Length selectable between 0.25 and 2.60 meters in 0.05 meter increments.	614.09	14.13
46 82 83 00-3500	M	Probe Extension Assembly (YSI 109 263VY, UA-SO) PER METER	190.08	0.71
46 82 83 00-3501	EA	O-Ring Seals Spare Set (YSI 109 265Y, UA/DS) Note: For UA 55, UA 130.	178.73	
46 82 83 00-3502	EA	Sensor Holder With Handle (YSI 109 320Y, EH/U 170) Note: For IQ sensors.	405.57	14.13
46 82 83 00-3503	EA	European Style Mounting, Seawater Applications, Single Sensor Holder (YSI 109 317Y, EH/SW)	276.49	14.13
46 82 83 00-3504	EA	Two Sensor Holder With Handle (YSI 109 323Y, EH2/U 170)	564.44	14.13
46 82 83 00-3505	EA	Three Sensor Holder With Handle (YSI 109 325Y, EH3/U 170)	703.46	14.13
46 82 83 00-3506		**Flow-Thru Vessels And Adapters** *(46 82 83 00-3225)*		
46 82 83 00-3507	EA	IQ SensorNet Multi-Sensor PVC Flow-Thru Vessel (YSI 203 745Y, D700/N) Note: For unpressurized applications. D 700/N can accommodate one TriOxmatic and one SensoLyt SE/DW/EC/Pt. TetraCon 700 IQ can be substituted for TriOxmatic.	3,110.17	70.62
46 82 83 00-3508	EA	Flow-Thru Cell For Continuous D.O. Measurement With TriOxmatic Sensors (YSI 203 747Y, D 702/N) Note: For ppb range with 702 (IQ).	2,822.21	70.62
46 82 83 00-3509	EA	IQ Multi-Probe Flow-Thru Vessel (YSI 203 749Y, DMS/N) Note: Accommodates up to four 1.57" diameter IQ probes.	6,297.54	70.62
46 82 83 00-3510	EA	Metric Bushing (YSI 203 751Y, EBS 700-DU/N) Note: Component of 203 753Y.	445.29	14.13
46 82 83 00-3511	EA	2" PVC Pipe Bushing (YSI 203 751USY, EBS 700-DU/N-US) Note: Component of 203 753USY.	614.09	14.13
46 82 83 00-3512	EA	On-Line Sensors, 2" PVC Pipe Mounting Assembly (YSI 203 753USY, EBST 700-DU/N-US) Note: Requires adaptor 203 777Y and/or 203 789Y.	693.53	14.13
46 82 83 00-3513	EA	IQ Sensors, 2" PVC Pipe Mounting Assembly (YSI 203 754USY, EBST 700-DU/ND-US) Note: With air pressure cleaning fittings. Requires adaptor.	1,269.44	14.13
46 82 83 00-3514	EA	15 PSIG Maximum, Stainless Steel Weld-In Socket (YSI 203 755Y, ESS 700 VA/N) Note: 690/70X, IQ. Requires adaptor.	1,246.50	42.37
46 82 83 00-3515	EA	145 PSIG Maximum, Stainless Steel Weld-In Socket (YSI 203 757Y, ESS 700 VA/10) Note: 690/70X, IQ. Requires adaptor.	1,514.60	42.37
46 82 83 00-3516	EA	Wye Flow-Thru Adapter For In-Line Measurements (YSI 203 758Y, EBST/SW) Note: Metric version. Salt water design. Used with 700 IQ/701 IQ probes. Requires 203 790Y.	1,097.56	42.37
46 82 83 00-3517	EA	Adapter For Mounting pH/ORP, TriOxmatic DO And Conductivity IQ Probes In D 700/N Or DMS/N Flow-Thru Vessels (YSI 203 761Y, ADA-DF 1)	445.29	14.13
46 82 83 00-3518	EA	Adaptor For Mounting DO Sensors TriOxmatic 702 IQ In D 702/N (YSI 203 771Y, ADA-DF-6)	187.12	14.13
46 82 83 00-3519	EA	Adapter For Mounting VisoTurb 700 IQ Probe In DMS/N Flow-Thru Vessel (YSI 203 773Y, ADA-DF 7)	643.88	14.13
46 82 83 00-3520	EA	Adaptor For 203 751Y, 203 753(US)Y, 203 755Y (YSI 203 777Y, ADA-DF-9) Note: All IQ sensors except UV/VIS, UV and FDO.	633.95	14.13
46 82 83 00-3521	EA	Adaptor For 203 757Y IQ Sensors (YSI 203 781Y, ADA-DF-11)	661.75	14.13
46 82 83 00-3522	EA	Adaptor For Mounting FDO 700 In D700/N (YSI 203 787Y, ADA-DF-14)	763.03	14.13
46 82 83 00-3523	EA	Adaptor For Mounting FDO 700 In EBS 700-DU/N, EBST 700-DU/N, ESS 700 VA/N (YSI 203 789Y, ADA-DF-15)	864.31	14.13
46 82 83 00-3524	EA	Adaptor For 203 758Y (YSI 203 790Y, ADA-DF9/SW) Note: All IQ salt water version sensors except UV/VIS.	612.10	14.13
46 82 83 00-3525	EA	145 PSIG Maximum, Retraction Assembly With Ball Valve (YSI 480 100Y, WA 700/10) Note: Requires 480104 or 480106. Also requires either 480108 or 480114.	5,841.87	42.37
46 82 83 00-3526	EA	Retraction Assembly With Ball Valve, 30 PSIG Maximum Pressure (YSI 480 102Y, WA 700/2) Note: Requires 480104 or 480106. Also requires either 480108, 480110, 480112, or 480114.	4,950.21	42.37
46 82 83 00-3527	EA	ST 33 Carbon Steel Weld-In Socket (YSI 480 104Y, ESS-WA 700/ST) Note: For WA 700/2 and WA 700/10.	243.62	42.37
46 82 83 00-3528	EA	316 Stainless Steel Weld-In Socket (YSI 480 106Y, ESS-WA 700/VA) Note: For WA 700/2 and WA700/10.	273.41	42.37
46 82 83 00-3529	EA	Adaptor For Mounting IQ Sensors In WA 700/2 And WA 700/10 (YSI 480 108Y, ADA-WA-1)	336.06	14.13
46 82 83 00-3530	EA	Adaptor For Mounting FDO 700 In WA 700/2 And WA 700/10 Retraction Assemblies (YSI 480 114Y, ADA-WA-4)	604.16	14.13
46 82 83 00-3531	EA	Blind Plug For Closing Weld In Socket Fittings ESS WA/ST And ESS WA/VA (YSI 480 116Y, WA/BV)	283.34	42.37
46 82 83 00-3532	EA	O-Rings Spare Set For WA 700/2 And WA 700/10 (YSI 480 118Y, WA/Epack)	88.58	
46 82 83 00-3533	EA	Flow-Thru Vessel With Wall Mounting Holder And Fittings (YSI 480 080Y, VIS FT-1) Note: For UVVIS Sensors NitraVis®, CarboVis® And NiCaVis® 70X IQ (TS). For operation with automatic compressed air cleaning with cleaning and ventilation fitting.	3,861.04	14.13
46 82 83 00-3534	EA	Spare Parts Set For Flow-Thru Vessel (YSI 480 081Y, VIS FT-1/RS) Note: Consisting of one 11 x 2 mm o-ring, two 14 x 2 mm o-rings, two 60 x 4 mm o-rings, one 8 x 2 mm o-ring, and one 1/4" piece seal disc.	92.70	
46 82 83 00-3535	EA	Spare Parts Set For Old style UV-VIS Flow Thru Cell (YSI 480 061Y, VIS Flow-thru/Epack)	115.37	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3536	EA	Flow Thru System For VisoTurb, ViSolid Sensors With EBST-700 DU/N With Barb Fittings (YSI 505 521Y, DFS/VisoTurb/TW)	1,324.93	42.37
46 82 83 00-3537		**Buffer Solutions** *(46 82 83 00-3225)*		
46 82 83 00-3538	EA	pH 4 Buffer, Box Of 6 Pints (YSI 003821, 3821)	238.31	
46 82 83 00-3539	EA	pH 7 Buffer, Box Of 6 Pints (YSI 003822, 3822)	238.31	
46 82 83 00-3540	EA	pH 10 Buffer, Box Of 6 Pints (YSI 003823, 3823)	238.31	
46 82 83 00-3541	EA	Assorted pH Buffer, Box Of 6 Pints, 2 Each pH 4, 7 And 10 (YSI 603824, 3824)	238.31	
46 82 83 00-3542	EA	125 mL ORP Calibrator, Zobell Solution (YSI 61320, 3682)	131.07	
46 82 83 00-3543	EA	250 mL ORP Calibrator, Zobell Solution (YSI 61321)	158.87	
46 82 83 00-3544	EA	500 mL ORP Calibrator, Zobell Solution (YSI 61322)	196.60	
46 82 83 00-3545	EA	Kit For Regeneration Of ORP Electrodes (YSI 109 730Y, SORT/RH) Note: Reagent set for regenerating ORP platinum electrodes, comprising 10 gram activation powder and 30 gram chlorine powder.	367.39	
46 82 83 00-3546	EA	1 Gallon, Turbidity Standard For VisoTurb (YSI 607400, 6074) Note: Requires 2nd day shipment in the winter as product is heat packed to avoid freezing.	973.09	
46 82 83 00-3547	EA	1,000 umhos/cm, 8 EA, Pint, Conductivity Calibrator (YSI 060907, 3167) Note: Requires 2nd day shipment in the winter as product is heat packed to avoid freezing.	387.25	
46 82 83 00-3548	EA	10,000 umhos/cm, 8 EA, Pint, Conductivity Calibrator (YSI 060911, 3168) Note: Requires 2nd day shipment in the winter as product is heat packed to avoid freezing.	387.25	
46 82 83 00-3549	EA	50,000 umhos/cm, 8 EA, Pint, Conductivity Calibrator (YSI 060660, 3169) Note: Requires 2nd day shipment in the winter as product is heat packed to avoid freezing.	387.25	
46 82 83 00-3550	EA	250 mL, 3 mol/L, KCl Solution (YSI 109 705Y, KCl-AgCl-250) Note: For storing pH electrodes.	101.28	
46 82 83 00-3551	EA	1,000 mL Low Concentration Standard Solution For VARiON Plus, AmmoLyt Plus, And NitraLyt Plus 700 IQ Probes (YSI 107 050Y, VARiON/ES-1) Note: Used for sensor check and storage.	148.94	
46 82 83 00-3552	EA	1,000 mL High Concentration Standard For VARiON Plus, AmmoLyt Plus And NitraLyt Plus 700 IQ Probes (YSI 107 052Y, VARiON/ES-2) Note: Used for sensor check	168.80	
46 82 83 00-3553	EA	For 5 mm UVVIS IQ SensorNet Probes, Low Concentration Sensor Check Standard (YSI 481 077Y, ST-1)	168.80	
46 82 83 00-3554	EA	For 1 mm UVVIS IQ SensorNet Probes, High Concentration Sensor Check Standard (YSI 481 078Y, ST-2)	168.80	
46 82 83 00-3555		**P700 IQ Analyzers** *(46 82 83 00-3225)*		
46 82 83 00-3556	EA	Indoor Version, Without Sample Pump, IQ SensorNet Orthophosphate Analyzer (YSI 8P-000Y, P 700 IQ-I115) Note: 115 V. Requires connection to existing IQ SensorNet network OR 2020XT with MIQ/PS. Reagents and solutions sold separately.	35,105.95	56.50
46 82 83 00-3557	EA	Outdoor Version, Without Sample Pump, IQ SensorNet Orthophosphate Analyzer (YSI 8P-001Y, P 700 IQ-O115) Note: 115 V. Requires connection to existing IQ SensorNet network OR 2020XT with MIQ/PS. Reagents and solutions sold separately.	37,433.42	56.50
46 82 83 00-3558	EA	Indoor Version, Integrated Sample Pump, IQ SensorNet Orthophosphate Analyzer (YSI 8P-010Y, P 700 IQ-PI115) Note: 115 V. Requires connection to existing IQ SensorNet network OR 2020XT with MIQ/PS. Reagents and solutions sold separately.	37,469.17	56.50
46 82 83 00-3559	EA	Outdoor Version, Integrated Sample Pump, IQ SensorNet Orthophosphate Analyzer (YSI 8P-011Y, P 700 IQ-PO115) Note: 115 V. Requires connection to existing IQ SensorNet network OR 2020XT with MIQ/PS. Reagents and solutions sold separately.	38,378.71	56.50
46 82 83 00-3560		**Filtration For P 700 IQ** *(46 82 83 00-3225)*		
46 82 83 00-3561	EA	Filter Membrane Module (YSI 821 987Y, FM) Note: With premounted membrane, P 700 IQ. Requires M 1.5 for mounting.	3,666.22	70.62
46 82 83 00-3562	EA	Filter Mount (YSI 821 986Y, M 1.5) Note: P 700 IQ. Includes 4.9' rail, chain and bracket.	3,265.27	14.13
46 82 83 00-3563	EA	Extension Attachment (YSI 821 985Y, M-EXT 1.5) Note: Used with M 1.5 mount, P 700 IQ filter. Includes 4.9' extension, chain and bracket.	2,649.64	14.13
46 82 83 00-3564	EA	Horizontal Mount Adapter (YSI 821 983Y, FM-Adapter) Note: For filter membrane, P 700 IQ.	475.08	14.13
46 82 83 00-3565	EA	Set Of 2 Filter Membranes (YSI 821 972Y, Filter) Note: For FM/FM-Case modules, P 700 IQ.	1,815.56	14.13
46 82 83 00-3566	EA	Module Case For Filter Membrane (YSI 821 973Y, FM-Case) Note: Includes module case without filter membranes, P 700 IQ.	2,490.77	14.13
46 82 83 00-3567	EA	Filter Membrane Cleaning Case, P 700 IQ (YSI 821 984Y, Filter-CL)	208.52	
46 82 83 00-3568		**Tubing For P 700 IQ** *(46 82 83 00-3225)*		
46 82 83 00-3569	EA	2m Length, Blue Suction Line (YSI 821 961Y-2, SLB 2)	126.49	3.61
46 82 83 00-3570	EA	5m Length, Blue Suction Line (YSI 821 961Y-5, SLB 5)	196.00	3.61
46 82 83 00-3571	EA	10m Length, Blue Suction Line (YSI 821 961Y-10, SLB 10)	424.38	3.61
46 82 83 00-3572	EA	20m Length, Blue Suction Line (YSI 821 961Y-20, SLB 20)	622.97	3.61
46 82 83 00-3573	EA	16.2' Heated, 115 Volt AC, Suction Tube With Slide (YSI 821 981Y, SL 115-5) Note: For P 700 IQ.	2,964.31	42.37
46 82 83 00-3574	EA	33' Heated, 115 Volt AC, Suction Tube With Slide (YSI 821 979Y, SL 115-10) Note: For P 700 IQ.	5,084.60	84.75
46 82 83 00-3575	EA	66' Heated, 115 Volt AC, Suction Tube With Slide (YSI 821 959Y, SL 115-20) Note: For P 700 IQ.	8,630.13	169.50
46 82 83 00-3576	EA	16.2' Unheated, 115 Volt AC, Suction Tube With Slide (YSI 821 978Y, SL 5) Note: For P 700 IQ.	1,911.78	42.37
46 82 83 00-3577	EA	33' Unheated, 115 Volt AC, Suction Tube With Slide (YSI 821 977Y, SL 10) Note: For P 700 IQ.	2,195.12	84.75

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3578	EA	66' Unheated, 115 Volt AC, Suction Tube With Slide (YSI 821 957Y, SL 20) Note: For P 700 IQ.	2,761.80	169.50
46 82 83 00-3579	EA	16.2' Heated, 115 Volt AC, Sample Return Line (YSI 821 975Y, RL 115-2) Note: For P 700 IQ.	898.97	42.37
46 82 83 00-3580	EA	33' Heated, 115 Volt AC, Sample Return Line (YSI 821 965Y, RL 115-10) Note: For P 700 IQ.	4,131.37	84.75
46 82 83 00-3581	EA	66' Heated, 115 Volt AC, Sample Return Line (YSI 821 955Y, RL 115-20) Note: For P 700 IQ.	7,905.28	169.50
46 82 83 00-3582	EA	16.2' Unheated, 115 Volt AC, Sample Return Line (YSI 821 974Y, RL 2) Note: For P 700 IQ.	207.88	42.37
46 82 83 00-3583	EA	33' Unheated, 115 Volt AC, Sample Return Line (YSI 821 964Y, RL 10) Note: For P 700 IQ.	763.28	84.75
46 82 83 00-3584	EA	66' Unheated, 115 Volt AC, Sample Return Line (YSI 821 954Y, RL 20) Note: For P 700 IQ.	1,133.36	169.50
46 82 83 00-3585		**Mounting For P 700 IQ** *(46 82 83 00-3225)*		
46 82 83 00-3586	EA	Wall Mount (YSI 821 989Y, WM) Note: For P 700 IQ.	633.95	14.13
46 82 83 00-3587	EA	Stand Mount (YSI 821 991Y, SM) Note: For P 700 IQ.	2,629.78	14.13
46 82 83 00-3588	EA	Rail Mount (YSI 821 988Y, RM) Note: For P 700 IQ.	2,778.72	14.13
46 82 83 00-3589		**Reagents And Solutions For P 700 IQ** *(46 82 83 00-3225)*		
46 82 83 00-3590	EA	2.5 L Reagent (Pack Inst. 851) (YSI 821 999Y, RE 2.5) Note: For P 700 IQ.	238.31	
46 82 83 00-3591	EA	1 L Cleaning Solution (Pack Inst 851) (YSI 821 998Y, CL 1.0) Note: For P 700 IQ.	129.08	
46 82 83 00-3592	EA	0.0 mG/L PO4-P, 1 L Standard Solution (YSI 821 971Y, ST 0.0) Note: For P 700 IQ.	129.08	
46 82 83 00-3593	EA	1.6 mG/L PO4-P, 1 L Standard Solution (YSI 821 997Y, ST 1.6) Note: For P 700 IQ.	129.08	
46 82 83 00-3594	EA	8.0 mG/L PO4-P, 1 L Standard Solution (YSI 821 996Y, ST 8.0) Note: For P 700 IQ.	129.08	
46 82 83 00-3595	EA	20.0 mG/L, PO4-P, 1 L Standard Solution (YSI 821 995Y, ST 20.0) Note: For P 700 IQ.	129.08	
46 82 83 00-3596		**Replacement Parts For P 700 IQ** *(46 82 83 00-3225)*		
46 82 83 00-3597	EA	Holder For Sensor Clamp (YSI 012995)	131.25	14.69
46 82 83 00-3598	EA	Pendulum Head (YSI 012996)	337.27	14.69
46 82 83 00-3599	EA	Weight (YSI 013063GV)	306.36	14.69
46 82 83 00-3600	EA	IQ TriOxmatic, Sensor Guard (YSI 013344)	48.85	14.69
46 82 83 00-3601	EA	IQ SensoLyt 700, Sensor Guard (YSI 013699)	254.86	14.69
46 82 83 00-3602	EA	Clamping Wedge (YSI 014631)	27.38	
46 82 83 00-3603	EA	Clamping Wedge With Threads (YSI 014632)	27.38	
46 82 83 00-3604	EA	Rubber Contact Cover (YSI 018082)	6.18	
46 82 83 00-3605	EA	Contact Cover, Label (YSI 018371)	8.24	
46 82 83 00-3606	EA	Spare Hardware Kit (YSI 018544)	92.70	
46 82 83 00-3607	EA	MIQ/CHV, Spare Hardware Kit (YSI 018893)	65.92	
46 82 83 00-3608	EA	CH Cleaning Head, Sensor Coupling Ring (YSI 018897)	143.62	14.69
46 82 83 00-3609	EA	Sensor Retaining Ring (YSI 019121)	134.51	
46 82 83 00-3610	EA	Sensor Receiving Tube (YSI 019124)	666.01	
46 82 83 00-3611	EA	Sensor Clamps (YSI 021154)	48.85	14.69
46 82 83 00-3612	EA	FDO Sensor Cap Locking Ring (YSI 022470)	47.98	
46 82 83 00-3613	EA	MIQ/Blue PS Terminating Resistor Kit (YSI 022474)	8.24	
46 82 83 00-3614	EA	Rubber, Shock Protectors (YSI 026569)	257.51	
46 82 83 00-3615	EA	pH And ORP Storage Cap (YSI 108065)	69.45	14.69
46 82 83 00-3616	EA	CHS, Chain Slide (YSI 109 291Y, CHS)	116.05	
46 82 83 00-3617	EA	12.5mm Outside Diameter, Steel, Washer (YSI BLS1-A0640030)	14.66	
46 82 83 00-3618	EA	M8x40, Clamping Lever (YSI MOT3-41004080)	47.62	
46 82 83 00-3619	EA	M8x50, Clamping Lever (YSI MOT3-41005080)	47.62	
46 82 83 00-3620	EA	Plastic, Sunshield To Pipe Mount, Clamp Block (YSI MOT3-45500000)	48.85	14.69
46 82 83 00-3621	EA	Stand To Wall Mount, Clamp Block (YSI MOT3-4500010)	90.05	14.69
46 82 83 00-3622	EA	TriOxmatic, Grey, Storage Cap (YSI MOT7-20000000)	16.72	
46 82 83 00-3623	EA	Black, Storage Cap (YSI MOT7-20040000)	40.61	14.69
46 82 83 00-3624	EA	O-Ring (YSI ORI2-46004004)	12.96	
46 82 83 00-3625	EA	UV And UV/VIS Maintenance Sleeve, O-Ring (YSI ORI4-60004003)	17.08	
46 82 83 00-3626	EA	WA700/2 And WA 700/10, O-Ring (YSI ORI2-36501004)	21.20	
46 82 83 00-3627	EA	ISE Electrode Installation Tool (YSI REP4-90005009)	20.60	
46 82 83 00-3628	EA	Locking Ring (YSI RSZ1-10400000)	68.58	
46 82 83 00-3629	EA	UA Sensor Extensions, Coupling Ring (YSI RSZ1-11440000)	47.98	
46 82 83 00-3630	EA	11.8 mm Outside Diameter, Stainless Steel, Lock Waster (YSI SIS1-B0600030)	12.96	
46 82 83 00-3631	EA	M5 x 60mm, Allen Head Bolt (YSI SRK4-00506030)	10.90	
46 82 83 00-3632	EA	M6 x 20mm, Allen Head Bolt (YSI SRK4-00602030)	12.96	
46 82 83 00-3633	EA	M6 x 110mm, Allen Head Bolt (YSI SRK5-00611030)	17.08	
46 82 83 00-3634	EA	Module Door Screw (YSI SRS2-00300840)	15.02	
46 82 83 00-3635	EA	Air Intake Filter (YSI 480 026Y, AF/CAB)	120.95	
46 82 83 00-3636	EA	Membrane (YSI 480 027Y, RM/CAB)	306.36	
46 82 83 00-3637	EA	Photometer Unit (YSI 821 990Y, LED)	575.91	

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46 82 83 00-3638	EA	Filter For Ventilation (YSI 821 969Y, Filter REP)	129.08	
46 82 83 00-3639	EA	Peristaltic Pump Motor (YSI 821 994Y, PM)	883.73	
46 82 83 00-3640	EA	Analyzer Pump Tubing (YSI 821 993Y, PT)	238.31	
46 82 83 00-3641	EA	Fittings And Tubes For Photometric Unit (YSI 821 992BY, T SET)	655.35	
46 82 83 00-3642	EA	Set Of Solution Bottle Caps With Tubing (YSI 821 970Y, ST-BT)	139.01	
46 82 83 00-3643		Start Up And Training *(46 82 83 00-3225)*		
46 82 83 00-3644	DAY	YSI Start Up And Training	2,307.62	
46 82 83 00-3645		Environmental Water Monitoring *(46 82 83 00-0001)*		
46 82 83 00-3646		Environmental Water Monitoring (Teledyne Isco) *(46 82 83 00-3645)*		
46 82 83 00-3647		Environmental Water Monitoring Products (Teledyne Isco) *(46 82 83 00-3646)*		
46 82 83 00-3648	EA	6712 Full-size Portable Sampler. (Teledyne Isco 686710070) Note: Includes controller, top cover, center section, base, distributor arm, two pump tubes, instruction manual, and pocket guide. For 6712 Samplers. Does not include bottle configuration kit.	8,357.14	414.76
46 82 83 00-3649	EA	6712 Portable Sampler with Jumbo Base. (Teledyne Isco 686710082) Note: Includes controller, top cover, center section, jumbo base, tube guide, two pump tubes, two discharge tubes, instruction manual, and pocket guide. Does not include bottle configuration kit.	8,357.14	414.76
46 82 83 00-3650	EA	6712C Compact Portable Sampler. (Teledyne Isco 686710071) Note: Includes controller, top cover, center section, base, distributor arm, two pump tubes, instruction manual, and pocket guide. Does not include bottle configuration kit.	8,078.11	400.91
46 82 83 00-3651	EA	6712C Compact Portable Sampler with Mini Base. (Teledyne Isco 686710141) Note: Includes controller, top cover, center section, mini base, distributor arm, instruction manual, and pocket guide. Does not include bottle configuration kit.	8,078.11	400.91
46 82 83 00-3652	EA	6712FR Refrigerated Sampler (120 Volt AC, 60 Hertz). (Teledyne Isco 686710072) Note: Includes controller, refrigeration unit, distributor arm, two pump tubes, instruction manual, and pocket guide. Does not include bottle configuration kit.	15,895.49	788.89
46 82 83 00-3653	EA	6712FR Refrigerated Sampler (230 Volt AC, 50 Hertz). (Teledyne Isco 686710073) Note: Includes controller, refrigeration unit, distributor arm, two pump tubes, instruction manual, and pocket guide. Does not include bottle configuration kit.	15,895.49	788.89
46 82 83 00-3654	EA	6712FR Refrigerated Sampler (120 Volt AC, 60 Hertz) with temperature logging. (Teledyne Isco 686710144) Note: Includes controller, refrigeration unit, distributor arm, two pump tubes, instruction manual, and pocket guide. Does not include bottle configuration kit.	16,467.26	817.27
46 82 83 00-3655	EA	6712FR Refrigerated Sampler (230 Volt AC, 50 Hertz) with temperature logging. (Teledyne Isco 686710145) Note: Includes controller, refrigeration unit, two pump tubes, distributor arm, instruction manual, and pocket guide. Does not include bottle configuration kit.	16,467.26	817.27
46 82 83 00-3656	EA	6712 Sampler controller only. (Teledyne Isco 686710074) Note: Includes two pump tubes, instruction manual, and pocket guide.	6,964.28	345.64
46 82 83 00-3657	EA	Internal three channel 4-20 mA programmable output for Avalanche and 6700 Series sampler. (Teledyne Isco 609004266) Note: Includes multi-analog output cable, 10 ft. Cannot be installed if using internal voice modem.	1,763.37	87.52
46 82 83 00-3658	EA	Voice Modem for Avalanche and 6700 Series Sampler. (Teledyne Isco 686700139) Note: Includes Remote Phone Command software for control of the sampler's operation and a 12 ft. modem cable. Not available if using Internal three channel 4-20 mA programmable output option, contact Spa department for external modem options.	1,626.14	80.70
46 82 83 00-3659	EA	Program lock software for Avalanche, 6700 Series, GLS and Glacier samplers. (Teledyne Isco 609003532)	199.83	
46 82 83 00-3660	EA	24-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700006) Note: Includes 24 polypropylene 1-liter bottles with caps, bottle retaining ring, and two discharge tubes.	487.15	24.18
46 82 83 00-3661	EA	24-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700007) Note: Includes 24 Glass 350-ml round bottles with PTFE lined caps, bottle retaining ring, and two discharge tubes.	789.05	39.16
46 82 83 00-3662	EA	ProPak Configuration Kit for 6700 Full-size Samplers. (Teledyne Isco 686700105) Note: Includes 25 holders and caps, 1,000 1-liter bags, retaining ring, two discharge tubes, and instruction sheet.	2,090.43	103.75
46 82 83 00-3663	EA	12-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700008) Note: Includes twelve polypropylene 1-liter round bottles with caps, base locating insert, bottle retaining ring, and two discharge tubes.	951.44	47.22
46 82 83 00-3664	EA	12-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700009) Note: Includes twelve glass 950-ml round bottles with PTFE lined caps, base locating insert, bottle retaining ring, and two discharge tubes.	1,056.65	52.45
46 82 83 00-3665	EA	8-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700010) Note: Includes eight polyethylene 2-liter round bottles with caps, base locating insert, bottle retaining ring, and two discharge tubes.	834.80	41.44
46 82 83 00-3666	EA	8-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700011) Note: Includes eight glass 1.8-liter round bottles with PTFE lined caps, base locating insert, bottle retaining ring, and two discharge tubes.	1,068.09	53.01
46 82 83 00-3667	EA	4-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700012) Note: Includes four polypropylene 1-gallon round bottles with caps, bottle locating rack, and two discharge tubes.	754.75	37.45
46 82 83 00-3668	EA	4-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700013) Note: Includes four glass 1-gallon round bottles with PTFE lined caps, bottle locating rack, and two discharge tubes.	894.26	44.38
46 82 83 00-3669	EA	Single-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700014) Note: Includes one polyethylene 2.5-gallon (10-liter) round bottle with cap, tube guide, and two discharge tubes.	418.55	20.77
46 82 83 00-3670	EA	Single-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700015) Note: Includes one glass 2.5-gallon (9.5-liter) round bottle with PTFE lined cap, tube guide, and two discharge tubes.	418.55	20.77
46 82 83 00-3671	EA	Single ProPak Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700149) Note: Includes one composite ProPak holder with cap, 100 ProPak bags, tube guide, O-ring, two discharge tubes and an instruction sheet.	626.68	31.10
46 82 83 00-3672	EA	Single-bottle Configuration for 6700 Series Full-size Portable Sampler. (Teledyne Isco 686700080) Note: Includes one polyethylene 4-gallon (15-liter) round bottle with cap, tube guide, and two discharge tubes.	418.55	20.77

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46 82 83 00-3673	EA	Single-bottle Configuration for 6700 Series Full-size Portable Sampler with jumbo base. (Teledyne Isco 686700078)	754.75	37.45
		Note: Includes one 20 liter round glass bottle, one closure cap and two discharge tubes.		
46 82 83 00-3674	EA	Single-bottle Configuration for 6700 Series Full-size Portable Sampler with jumbo base. (Teledyne Isco 686700084)	441.41	21.91
		Note: Includes one polyethylene 5.5-gallon (20.8-liter) bottle with cap, and two discharge tubes.		
46 82 83 00-3675	EA	6700 Series Full-size Portable Sampler Standard Base. (Teledyne Isco 609004052)	834.80	41.44
46 82 83 00-3676	EA	6700 Series Full-size Portable Sampler Jumbo Composite Base. (Teledyne Isco 609004194)	1,125.27	55.84
		Note: Only for use with 68-6700-078 and 68-6700-084.		
46 82 83 00-3677	EA	6700 Series Compact and Full-size Portable Samplers and Refrigerated Sampler Distributor arm. (Teledyne Isco 609004050)	173.82	8.63
46 82 83 00-3678	EA	6700 Series Full-size Portable Sampler Composite tube guide. (Teledyne Isco 609004051)	150.95	7.49
46 82 83 00-3679	EA	Three-point Sampler Suspension Harness for full-size and compact non-refrigerated samplers except GLS. (Teledyne Isco 601394014)	128.08	6.37
		Note: For GLS use part number 602954033.		
46 82 83 00-3680	EA	Locking harness for 3700 and 6712 full size samplers. (Teledyne Isco 686700134)	244.72	12.15
46 82 83 00-3681	EA	ProHanger for 18 - 24 inch manhole. (Teledyne Isco 692003599)	1,033.78	51.30
		Note: Stainless steel bracket for suspending equipment in manhole.		
46 82 83 00-3682	EA	6712Ci modem module with 60-2004-550 dual band magnetic mount antenna. (Teledyne Isco 605324172)	4,997.36	248.02
46 82 83 00-3683	EA	USB Communication Cable, 10 ft. (3 m). (Teledyne Isco 602004508)	551.20	27.35
		Note: Connects 4100, 4200 Series Flow Meters and 6700 Series/Avalanche Samplers to PC with USB connector. For custom length version, order this product in tandem with cut-to-length interrogate port extension cable, 60-5314-578 (maximum length 200 ft).		
46 82 83 00-3684	EA	1-liter polypropylene wedge-shaped bottles with caps - quantity 24 (Teledyne Isco 682100007)	347.65	17.25
46 82 83 00-3685	EA	1-liter polypropylene wedge-shaped bottles with caps - quantity 100 (Teledyne Isco 683700046)	1,090.96	54.15
46 82 83 00-3686	EA	1-liter polypropylene wedge-shaped bottles with caps, quantity 500 (Teledyne Isco 683700047)	3,389.51	168.22
46 82 83 00-3687	EA	Caps for 1-liter polypropylene wedge-shaped bottles - quantity 100 (Teledyne Isco 602100010)	135.97	
46 82 83 00-3688	EA	Bottle Retaining Ring for 24 1-liter wedge-shaped polypropylene bottles (Teledyne Isco 609003242)	107.48	5.33
46 82 83 00-3689	EA	350 ml glass round bottles with PTFE lined caps - quantity 24 (Teledyne Isco 682100001)	697.58	34.62
46 82 83 00-3690	EA	350 ml glass round bottles with PTFE lined caps - quantity 100 (Teledyne Isco 683700048)	2,554.71	126.79
46 82 83 00-3691	EA	PTFE lined caps for 350-ml glass bottles - quantity 100 (Teledyne Isco 602100003)	428.50	
46 82 83 00-3692	EA	Bottle retaining ring for 350-ml glass bottles (Teledyne Isco 602703011)	137.23	6.82
46 82 83 00-3693	EA	Base locating insert for 12-bottle sampling (Teledyne Isco 609004147)	301.89	14.98
46 82 83 00-3694	EA	Bottle retaining ring for 12-bottle sampling (Teledyne Isco 603704112)	290.47	14.42
46 82 83 00-3695	EA	1-liter polypropylene round bottles with caps - quantity 12 (Teledyne Isco 603700035)	244.72	12.15
46 82 83 00-3696	EA	1-liter polypropylene round bottles with caps - quantity 100 (Teledyne Isco 606700016)	1,729.06	85.81
46 82 83 00-3697	EA	950-ml glass round bottles with PTFE lined caps - quantity 12 (Teledyne Isco 683700023)	347.65	17.25
46 82 83 00-3698	EA	950-ml glass round bottles with caps and liners - quantity 100 (Teledyne Isco 686700018)	2,390.04	118.62
46 82 83 00-3699	EA	PTFE lined caps for 950-ml glass bottles - quantity 100 (Teledyne Isco 686700019)	951.77	
46 82 83 00-3700	EA	Base locating insert for 8-bottle sampling (Teledyne Isco 609004146)	301.89	14.98
46 82 83 00-3701	EA	Bottle retaining ring for 8-bottle sampling (Teledyne Isco 609004149)	347.65	17.25
46 82 83 00-3702	EA	2-liter polyethylene round bottles with caps - quantity 8 (Teledyne Isco 682740026)	150.95	7.49
46 82 83 00-3703	EA	Caps for 2-liter polyethylene bottles - quantity 100 (Teledyne Isco 603720029)	133.91	
46 82 83 00-3704	EA	1.8-liter glass round bottles with PTFE lined caps - quantity 8 (Teledyne Isco 682740027)	391.09	19.41
46 82 83 00-3705	EA	PTFE lined caps for 1.8-liter glass bottles - quantity 100 (Teledyne Isco 683000026)	1,277.26	
46 82 83 00-3706	EA	1-gallon polypropylene round bottles with caps - quantity 4 (Teledyne Isco 606700020)	150.95	7.49
46 82 83 00-3707	EA	1-gallon glass round bottles with PTFE lined caps - quantity 4. (Teledyne Isco 686700146)	210.42	10.44
46 82 83 00-3708	EA	1-gallon glass round bottle with PTFE lined cap - quantity 1. (Teledyne Isco 686700147)	59.45	2.95
46 82 83 00-3709	EA	2.5-gallon (10-liter) polyethylene round bottle with cap - quantity 1 (Teledyne Isco 299001304)	290.47	14.42
46 82 83 00-3710	EA	2.5-gallon (9.5-liter) glass round bottle with PTFE lined cap - quantity 1 (Teledyne Isco 682700005)	196.70	9.76
46 82 83 00-3711	EA	20 liter glass bottle with closure cap. (Teledyne Isco 686700151)	697.58	34.62
46 82 83 00-3712	EA	ProPak starter kit. Includes 24 holders with caps, 100 1-liter bags, and retaining ring. (Teledyne Isco 686700112)	603.81	29.96
46 82 83 00-3713	EA	ProPak holders with caps and standard bags - quantity 25. Includes instruction sheet. (Teledyne Isco 686700087)	347.65	17.25
46 82 83 00-3714	EA	ProPak disposable bags, 1-liter polyethylene - quantity 100. (Teledyne Isco 686700113)	210.42	10.44
46 82 83 00-3715	EA	ProPak disposable bags, 1-liter polyethylene - quantity 500. (Teledyne Isco 686700114)	974.32	48.35
46 82 83 00-3716	EA	ProPak disposable bags, 1-liter polyethylene - quantity 1,000. (Teledyne Isco 686700096)	1,486.63	73.77
46 82 83 00-3717	EA	Holder Retaining ring for 24 ProPak holders (Teledyne Isco 609003475)	75.47	3.74
46 82 83 00-3718	EA	Composite ProPak kit. Includes 100 composite ProPak bags, holder and O-ring. (Teledyne Isco 682950006)	441.41	21.91
46 82 83 00-3719	EA	Composite ProPak Holder (Teledyne Isco 602953029)	256.15	12.71
46 82 83 00-3720	EA	Composite ProPaks, quantity 100 2-gallon (9-liter) bags (Teledyne Isco 692953038)	219.57	10.89
46 82 83 00-3721	EA	O-ring for composite ProPak kit. (Teledyne Isco 202100232)	6.86	0.34
46 82 83 00-3722	EA	24-Bottle Configuration for either standard compact or mini compact base. (Teledyne Isco 686700022)	418.55	20.77
		Note: Includes 24 polyethylene 500-ml wedge-shaped bottles and caps, bottle carrier with retaining ring, and two discharge tubes.		
46 82 83 00-3723	EA	12-Bottle Configuration for either standard compact or mini compact base. (Teledyne Isco 686700024)	859.96	42.68
		Note: Includes twelve glass 375-ml round bottles and PTFE lined caps, bottle retaining ring, bottle carrier, and two discharge tubes.		
46 82 83 00-3724	EA	1-Bottle Configuration. Standard Compact Base Portable Sampler only. (Teledyne Isco 686700025)	418.55	20.77
		Note: Includes 2.5-gallon (10-liter) round polyethylene bottle, cap, tube guide, and two discharge tubes.		
46 82 83 00-3725	EA	1-Bottle Configuration Standard Compact Base Portable Sampler only. (Teledyne Isco 686700026)	418.55	20.77
		Note: Includes 2.5-gallon (9.5-liter) glass bottle with PTFE lined cap, tube guide, and two discharge tubes.		
46 82 83 00-3726	EA	Single ProPak Configuration for 6700 Series Standard Compact Portable Sampler. (Teledyne Isco 686700148)	606.09	30.08
		Note: Includes one composite ProPak holder with cap, 100 ProPak bags, O-ring, tube guide, two discharge tubes and an instruction sheet.		
46 82 83 00-3727	EA	3710C/6712C Compact Base Assembly. (Teledyne Isco 603704129)	834.80	41.44
46 82 83 00-3728	EA	24-bottle carrier, standard compact and mini compact samplers (Teledyne Isco 609004132)	244.72	12.15
46 82 83 00-3729	EA	6700 Series Refrigerated Sampler Bottle Retaining Ring for 12-bottle 2.5-liter wedge-shaped bottles and 24-bottle 500-ml Compact Portable Samplers. (Teledyne Isco 609003235)	93.77	4.66
46 82 83 00-3730	EA	12-bottle carrier, standard compact and mini compact samplers (Teledyne Isco 609004131)	240.15	11.92
46 82 83 00-3731	EA	Locking harness for 6712C compact portable sampler. (Teledyne Isco 686710111)	244.72	12.15
46 82 83 00-3732	EA	I/O port Y-cable for 6712/Avalanche samplers. Duplicates I/O port connection to support multiple devices. (Teledyne Isco 609004294)	407.11	20.20
46 82 83 00-3733	EA	500-ml polyethylene wedge-shaped bottles with caps - quantity 24 (Teledyne Isco 682900002)	196.70	9.76

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3734	EA	500-ml polyethylene wedge-shaped bottles with caps - quantity 100 (Teledyne Isco 686700027)	777.62	38.59
46 82 83 00-3735	EA	500-ml polyethylene wedge-shaped bottles with caps - quantity 500 (Teledyne Isco 686700028)	2,970.98	147.45
46 82 83 00-3736	EA	Caps for 500-ml wedge bottles - quantity 100 (Teledyne Isco 602900004)	96.82	
46 82 83 00-3737	EA	500-ml polyethylene round bottles with caps - quantity 12 (Teledyne Isco 682900014)	91.49	4.54
46 82 83 00-3738	EA	500-ml polyethylene round bottles with caps - quantity 100 (Teledyne Isco 686700029)	663.26	32.92
46 82 83 00-3739	EA	500-ml polyethylene round bottles with caps - quantity 500 (Teledyne Isco 686700030)	2,927.52	145.29
46 82 83 00-3740	EA	Caps for 500-ml polyethylene round bottles - quantity 100 (Teledyne Isco 601680051)	155.74	
46 82 83 00-3741	EA	375-ml glass round bottles with PTFE lined caps - quantity 12 (Teledyne Isco 682900015)	370.52	18.39
46 82 83 00-3742	EA	375-ml glass round bottles with PTFE lined caps - quantity 100 (Teledyne Isco 686700031)	2,515.84	124.86
46 82 83 00-3743	EA	24-bottle Configuration. (Teledyne Isco 686700032) Note: Includes 24 polypropylene 1-liter wedge shaped bottles with caps, retaining ring, bottle rack and two discharge tubes.	871.40	43.25
46 82 83 00-3744	EA	24-bottle Configuration. (Teledyne Isco 686700033) Note: Includes 24 glass 350-ml round bottles with PTFE lined caps retaining rings, bottle rack and two discharge tubes.	1,381.43	68.55
46 82 83 00-3745	EA	24-Container ProPak Configuration. (Teledyne Isco 686700115) Note: Includes 25 holders, 100 bags, retaining ring, bottle rack and instruction sheet.	2,090.43	103.75
46 82 83 00-3746	EA	8-bottle Configuration. (Teledyne Isco 686700034) Note: Includes eight polyethylene 2-liter round bottles with caps, retaining ring, bottle rack and two discharge tubes.	811.93	40.30
46 82 83 00-3747	EA	2-bottle Configuration. (Teledyne Isco 686700036) Note: Includes two polyethylene 2-gallon (7.5-liter) rectangular bottles, locating base, caps and two discharge tubes.	713.58	35.42
46 82 83 00-3748	EA	1-bottle Configuration. (Teledyne Isco 686700038) Note: Includes one polyethylene 2.5-gallon (10-liter) round bottle, two caps and two discharge tubes.	418.55	20.77
46 82 83 00-3749	EA	1-bottle Configuration. (Teledyne Isco 686700039) Note: Includes one glass 2.5-gallon (10-liter) round bottle, two PTFE lined caps and two discharge tubes.	418.55	20.77
46 82 83 00-3750	EA	Single ProPak Configuration for 6700 Series FR Refrigerated Sampler. (Teledyne Isco 686700150) Note: Includes one composite ProPak holder with cap, 100 ProPak bags, O-ring, two discharge tubes and an instruction sheet.	617.52	30.65
46 82 83 00-3751	EA	1-bottle Configuration. (Teledyne Isco 686700040) Note: Includes one polyethylene 4-gallon (15-liter) round bottle, two caps and two discharge tubes.	418.55	20.77
46 82 83 00-3752	EA	1-bottle Configuration. (Teledyne Isco 686700042) Note: Includes one glass 20-liter round bottle, two closure caps and two discharge tubes.	789.05	39.16
46 82 83 00-3753	EA	1-bottle Configuration. (Teledyne Isco 686700041) Note: Includes one polyethylene 5.5-gallon (20.5-liter) round bottle, two caps and two discharge tubes.	441.41	21.91
46 82 83 00-3754	EA	6712FR refrigerator adapter kit for 24 bottle configuration. (Teledyne Isco 609004155) Note: Kit contains mounting hardware for the controller and distributor arm. Bottles, caps, rack, retaining ring, and discharge tubes must be ordered separately.	233.29	11.58
46 82 83 00-3755	EA	6712FR refrigerator adapter kit for 8 bottle configuration. (Teledyne Isco 609004154) Note: Kit contains mounting hardware for the controller and distributor arm. Bottles, caps, rack, retaining ring, and discharge tubes must be ordered separately.	336.20	16.69
46 82 83 00-3756	EA	6712FR refrigerator adapter kit for 2 bottle configuration. Teledyne Isco 609004153) Note: Kit contains mounting hardware for the controller and distributor arm, and a 2 bottle locating base. Bottles, caps, and discharge tubes must be ordered separately. (	359.08	17.82
46 82 83 00-3757	EA	6712FR refrigerator adapter kit for 1 bottle configuration. (Teledyne Isco 609004156) Note: Kit contains mounting hardware for the controller. Bottle, caps, and discharge tubes must be ordered separately.	59.45	2.95
46 82 83 00-3758	EA	Discharge tube. 6700FR Series Sampler 8, 12, and 24 bottle sampling. 5800/4700 Samplers, all configurations except single 20 liter bottles. (Teledyne Isco 609003279)	36.59	1.82
46 82 83 00-3759	EA	Discharge tube, 6700FR Series Sampler. (Teledyne Isco 609003283) Note: For 2 bottle or single bottle sampling.	32.01	1.60
46 82 83 00-3760	EA	Discharge tube, 6700 Series Full-size Sampler. (Teledyne Isco 609003260) Note: For 24 bottle sampling applications.	32.01	1.60
46 82 83 00-3761	EA	Discharge tube, 6700 Series Full-size Sampler. (Teledyne Isco 609003262) Note: For 12 bottle sampling applications.	32.01	1.60
46 82 83 00-3762	EA	Discharge tube, 6700 Series Full-size Sampler. (Teledyne Isco 609003264) Note: For 8 bottle sampling applications.	32.01	1.60
46 82 83 00-3763	EA	Series 6700FR refrigerator only, 120 Volt AC, 60 Hertz. (Teledyne Isco 609004236)	13,448.26	667.43
46 82 83 00-3764	EA	Series 6700FR refrigerator only, 230 Volt AC, 50 Hertz. (Teledyne Isco 609004235)	13,448.26	667.43
46 82 83 00-3765	EA	FR Battery Back-up kit. Teledyne Isco 686700135) Note: Includes Isco NiCad battery 60-1684-040 and instruction sheet. When installed in FR refrigerator, the battery provides 12VDC power to continue sampler operation should AC input power fail. (	660.98	32.81
46 82 83 00-3766	EA	Temperature Logging Assembly for 6712FR Refrigerators (Teledyne Isco 686700136) Note: Includes instruction sheet.	871.40	43.25
46 82 83 00-3767	EA	Padlock. (Teledyne Isco 209902000) Note: Used to lock GLS sampler (one required) and 3700/6700 Series refrigerated samplers (two required).	75.47	3.74
46 82 83 00-3768	EA	2.5-liter polyethylene wedge-shaped bottles with caps - quantity 12 (Teledyne Isco 686700059)	290.47	14.42
46 82 83 00-3769	EA	2.5-liter polyethylene wedge-shaped bottles with caps - quantity 100 (Teledyne Isco 686700060)	1,463.75	72.65
46 82 83 00-3770	EA	Caps for 2.5-liter polyethylene wedge-shaped bottles - quantity 100 (Teledyne Isco 606700061)	257.51	
46 82 83 00-3771	EA	2-gallon (7.5-liter) polyethylene rectangular bottle with cap - quantity 1 (for 2-bottle refrigerated samplers) (Teledyne Isco 299001307)	217.28	10.78
46 82 83 00-3772	EA	2.5-gallon (10-liter) polyethylene round bottle with two caps - quantity 1 (Teledyne Isco 682740009)	256.15	12.71
46 82 83 00-3773	EA	2.5-gallon (9.5-liter) glass round bottle with two PTFE lined caps - quantity 1 (Teledyne Isco 682930006)	256.15	12.71
46 82 83 00-3774	EA	4-gallon (15-liter) polyethylene round bottle with two caps - quantity 1 (Teledyne Isco 682930004)	256.15	12.71
46 82 83 00-3775	EA	20 liter glass bottle with 1-cap and 1-cap with hole. (Teledyne Isco 686700152)	720.44	35.76
46 82 83 00-3776	EA	5.5-gallon (20.5-liter) polyethylene round bottle with two caps - quantity 1 (not for SR) (Teledyne Isco 682930005)	324.77	16.12
46 82 83 00-3777	EA	Silicone rubber pump tubing, for 6700 Series, Avalanche, and 5800/4700 samplers. Quantity 1. (Teledyne Isco 609004157)	75.47	3.74
46 82 83 00-3778	EA	Pump tubing for 5800/4700 and 6700 Series/Avalanche Sampler - quantity 5 (Teledyne Isco 606700062)	267.60	13.27
46 82 83 00-3779	EA	Pump tubing for 5800/4700 and 6700 Series/Avalanche Sampler - quantity 10 (Teledyne Isco 606700044)	487.15	24.18
46 82 83 00-3780	EA	Pump tubing for 5800/4700 and 6700 Series/Avalanche Sampler - quantity 25 (Teledyne Isco 606700045)	1,125.27	55.84
46 82 83 00-3781	EA	Discharge tubing for 5800/4700 and 6700 Series/Avalanche Sampler, pump tubing for 3700 Series GLS, and Glacier Samplers - 10 ft. (Teledyne Isco 606700046)	196.70	9.76

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3782	EA	Discharge tubing for 5800/4700 and 6700 Series/Avalanche Sampler, pump tubing for 3700 Series, GLS, and Glacier Samplers - 50 ft. (Teledyne Isco 606700047)	731.88	36.32
46 82 83 00-3783	EA	Discharge tube, 6700 Series Full-size Sampler. (Teledyne Isco 609003266) Note: For 4 bottle sampling applications.	32.01	1.60
46 82 83 00-3784	EA	Discharge tube, 6700 Series Full-size Sampler. (Teledyne Isco 609003271) Note: For single bottle composite sampling.	25.16	1.25
46 82 83 00-3785	EA	Discharge tube, 6700C Series Compact Sampler. (Teledyne Isco 609003257) Note: For 12 or 24 bottle sampling.	32.01	1.60
46 82 83 00-3786	EA	Discharge tube, 6700C Series Compact Sampler. (Teledyne Isco 609003258) Note: For single bottle sampling.	25.16	1.25
46 82 83 00-3787	EA	3/8 inch standard weighted polypropylene strainer. (Teledyne Isco 609004367)	173.82	8.63
46 82 83 00-3788	EA	3/8 inch ID x 10 ft. long vinyl suction line with standard weighted polypropylene strainer. Includes tubing coupler. (Teledyne Isco 609004378)	219.57	10.89
46 82 83 00-3789	EA	3/8 inch ID x 25 ft. long vinyl suction line with standard weighted polypropylene strainer. Includes tubing coupler. (Teledyne Isco 609004379)	256.15	12.71
46 82 83 00-3790	EA	3/8 inch ID x 10 ft. (3 m) long PTFE suction line with protective jacket. (Teledyne Isco 601683146)	137.23	6.82
46 82 83 00-3791	EA	3/8 inch ID x 25 ft. (7.6 m) PTFE suction line with protective jacket. (Teledyne Isco 602703114)	256.15	12.71
46 82 83 00-3792	EA	3/8 inch ID CPVC strainer (Teledyne Isco 603704066)	215.00	10.66
46 82 83 00-3793	EA	3/8 inch stainless steel strainer, low flow. (Teledyne Isco 692903138)	139.53	6.93
46 82 83 00-3794	EA	3/8 inch vinyl suction line - 100 ft. Includes tubing coupler. (Teledyne Isco 681680058)	196.70	9.76
46 82 83 00-3795	EA	3/8 inch vinyl suction line - 500 ft. Includes two tubing couplers. (Teledyne Isco 681680059)	789.05	39.16
46 82 83 00-3796	EA	Tubing coupler, 3/8 inch. One-piece, clampless coupler made of stainless steel. (Teledyne Isco 603709002) Note: Can be used with any Isco sampler.	45.74	2.27
46 82 83 00-3797	EA	701 Module with Stainless Steel double junction combination pH probe. (Teledyne Isco 686700052) Note: Includes combination pH probe with built-in exposed temperature probe and 25 ft. cable. Also includes one package of each buffer and rinse solution for calibrating pH probe, and instruction manual. Probe mounting hardware sold separately.	4,848.69	240.64
46 82 83 00-3798	EA	Stainless Steel double-junction combination pH probe with built-in temperature probe. (Teledyne Isco 609004126) Note: Includes 25' cable.	946.86	46.99
46 82 83 00-3799	EA	SPA 907. Standard Isco pH Sensor Extension Cable, built to length. (Teledyne Isco 605304907) Note: Allows for extension of the pH sensor for applications where greater separation is needed. For use with the pH sensor assembly with the built in temperature sensor (60-2004-146 or 60-5304-895). Must not exceed 1000 ft. maximum length between pH probe and 301 TIENet® Device or 701 module.	205.84	10.21
		For Each LF Of Extension Cable, Add	*3.83*	
46 82 83 00-3800	EA	720 Module and submerged probe with 25 ft. cable, measures 10 ft. level range. (Teledyne Isco 686700068) Note: Includes instruction manual and coupon for free Isco Open Channel Flow Measurement Handbook. Probe mounting hardware sold separately.	4,551.36	225.88
46 82 83 00-3801	EA	Submerged probe level sensor only, measures 10 ft. level range. (Teledyne Isco 603224002) Note: Includes 25 ft. connect cable.	2,090.43	103.75
46 82 83 00-3802	EA	Submerged Probe sensor extension cable, 25 ft. (Teledyne Isco 603224004) Note: For additional vented separation distance between the sensor and the flow meter. More than one extension cable may be used provided that the total distance, including sensor cable length, does not exceed 75 ft.	672.42	33.37
46 82 83 00-3803	EA	Submerged Probe sensor extension cable, 50 ft. (Teledyne Isco 603224005) Note: For additional vented separation distance between the sensor and the flow meter. Total distance including sensor cable length cannot exceed 75 ft.	743.30	36.89
46 82 83 00-3804	EA	SPA 1641. Quick Disconnect Box for 720 Module, 4120 or 4220 Submerged Probe. (Teledyne Isco 605314641) Note: Sealed box includes Amphenol connector for submerged probe, desiccant cartridge for reference air line, and a six position terminal strip. Use cut-to-length cable 60-5304-568 to complete the connection to a 4220/4120 flow meter or 720 module.	823.37	40.86
46 82 83 00-3805	EA	SPA 568. 4220/720 Submerged Probe to Q.D. Box Connect Cable, built to length. (Teledyne Isco 605304568) Note: This sensor cable is normally used with a quick disconnect box (60-5314-641) and can be ran through conduit. It has an Amphenol on one end for connection to the instrument and spade lugs on the other end for connection to the terminal block in the quick disconnect box. Maximum length is 975 ft.	171.54	8.51
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-3806	EA	Flume probe cap. (Teledyne Isco 602503105) Note: For use in flumes built to accommodate an Isco probe.	75.47	3.74
46 82 83 00-3807	EA	Standard nose section for submerged probe. (Teledyne Isco 602503086)	128.08	6.37
46 82 83 00-3808	EA	Sensor carrier for attaching submerged probe level sensor to Isco Mounting Rings. (Teledyne Isco 603204005)	109.77	5.44
46 82 83 00-3809	EA	Reference Port Tubing, 1/4 inch ID x 10 ft. (3 m). (Teledyne Isco 602703111) Note: Provides extension to the reference port.	29.73	1.48
46 82 83 00-3810	EA	Reference Port Tubing, 1/4 inch ID x 25 ft. (7.6 m). (Teledyne Isco 602703112) Note: Provides extension to the reference port.	64.05	3.17
46 82 83 00-3811	EA	730 Module with 1/8 inch x 25 ft. vinyl bubble line. (Teledyne Isco 686700050) Note: Includes instruction manual and coupon for free Isco Open Channel Flow Measurement Handbook. Bubble tube mounting hardware sold separately.	5,527.97	274.35
46 82 83 00-3812	EA	1/8 inch x 25 ft. vinyl tubing. For use as a flow meter bubble line. (Teledyne Isco 609003281)	52.60	2.61
46 82 83 00-3813	EA	1/8 inch x 100 ft. vinyl bubble line. (Teledyne Isco 601700003)	144.10	7.15
46 82 83 00-3814	EA	Stainless Steel Bubble Tube - 4 ft. length. (Teledyne Isco 601873043) Note: For use with 1/8 inch ID vinyl bubble line.	57.17	2.83
46 82 83 00-3815	EA	Sensor carrier for attaching bubble line to Isco Mounting Rings. (Teledyne Isco 603204007)	203.55	10.10
46 82 83 00-3816	LF	SPA 706. 1/8 inch vinyl Bubble Line, cut to length, per ft. Maximum available length is 500 ft. (Teledyne Isco 605304706) Note: It is not recommended to use lengths in excess of 200 ft. for any single application. Contact factory for details.	2.83	0.14
46 82 83 00-3817	EA	750 Module and Low Profile Area Velocity Sensor with 25 ft. cable, measures 10 ft. level range. (Teledyne Isco 686700106) Note: Includes instruction manual and coupon for free Isco Open Channel Flow Measurement Handbook. Probe mounting hardware sold separately.	9,004.40	446.88
46 82 83 00-3818	EA	Low Profile Area Velocity Sensor with 25 ft. cable, measures 10 ft. level range. (Teledyne Isco 603254021)	2,929.80	145.41
46 82 83 00-3819	EA	Area velocity sensor extension cable. 25 ft., for additional separation between sensor and flow meter. (Teledyne Isco 603254005) Note: One or two extensions can be used with 10 ft. level measurement range sensor. Only one extension can be used with 30 ft. level measurement range. Beyond these distances, use the quick disconnect box 60-3254-004.	626.68	31.10

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3820	EA	SPA 889. Area Velocity Sensor Extension Cable for Models 4150/4250 or 6712 with 750 module, Cut to length. (Teledyne Isco 605304889) Note: Maximum length is 50 ft.	608.38	30.19
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-3821	EA	Area velocity sensor quick disconnect box. (Teledyne Isco 603254004) Note: Allows external connection of flow meter to sensor through conduit. Includes desiccator for sensor vent. Maximum distance between box and flow meter is 975 ft. Contact factory for information on cable between box and flow meter or non-conduit wiring, a watertight cord grip fitting (P/N 209-0076-03) is required. (Refer to SPA 60-5304-843.)	816.50	40.52
46 82 83 00-3822	EA	Sensor carrier for attaching low profile area velocity sensor to Isco mounting rings or sensor mounting plate. (Teledyne Isco 603204029)	121.22	6.01
46 82 83 00-3823	EA	SPA 843. 750 Module to Q.D. Box Connect Cable, built to length. (Teledyne Isco 605304843) Note: This sensor cable is normally used with a quick disconnect box (60-3254-004) when running cable through conduit. It has an Amphenol on one end for connection to the 750, and spade lugs for connection to the terminal strip of the quick disconnect box. Maximum length is 975 ft.	425.40	21.11
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-3824	EA	780 analog input module. Includes 10 ft. cable and instruction manual. (Teledyne Isco 609004040)	1,132.12	56.18
46 82 83 00-3825	EA	674 Rain Gauge. Tips every 0.01 inch of rainfall. Tipping bucket rain gauge with 50 ft. cable and connector for use with a 4100 Series Flow Logger, 4200 Series Flow Meter, or 6700 Series/Avalanche Sampler. (Teledyne Isco 603284001) Note: Includes instruction manual.	1,829.69	90.80
46 82 83 00-3826	EA	Model 1640 Sampler Actuator. (Teledyne Isco 601644000) Note: Includes instruction manual. Equipped with a 22' cable length to the probe tip See CSI section 46 82 83 00-3857 for for cut to length version.	777.62	38.59
46 82 83 00-3827	EA	Instruction manual, Model 1640 Liquid Level Actuator. (Teledyne Isco 601644009)	32.03	
46 82 83 00-3828	EA	4-20 mA input interface for 6700 Series, Avalanche, or GLS Sampler. (Teledyne Isco 603704075) Note: Converts an analog 4-20 mA flow proportional signal to a compatible flow proportional input signal. Attaches to sampler controller and includes short cable to connect to the sampler's flow meter connector.	381.95	18.96
46 82 83 00-3829	EA	Instruction manual, Model 6712 portable sampler (Teledyne Isco 609004334)	123.61	
46 82 83 00-3830	EA	Pocket guide, Model 6712 portable sampler (Teledyne Isco 699003589)	26.78	
46 82 83 00-3831	EA	Instruction manual, Model 6712FR (Teledyne Isco 609004335)	121.55	
46 82 83 00-3832	EA	Instruction manual, Model 701 pH and Temperature Module (Teledyne Isco 609003065)	121.55	
46 82 83 00-3833	EA	Instruction manual, Model 720 Submerged Probe Flow Module (Teledyne Isco 609003368)	121.55	
46 82 83 00-3834	EA	Instruction manual, Model 730 Bubbler Flow Module (Teledyne Isco 609003063)	121.55	
46 82 83 00-3835	EA	Instruction manual, Model 750 Area Velocity Module (Teledyne Isco 609003465)	121.55	
46 82 83 00-3836	EA	Instruction manual, Model 780 Analog Interface Module (Teledyne Isco 609003064)	121.55	
46 82 83 00-3837	EA	AQ702 multiparameter sonde. (Teledyne Isco 600603302) Note: Includes AQ702 sonde with pH, Hamilton optical dissolved oxygen, conductivity, temperature, oxidation reduction potential, and depth. Also includes AQ700 software, instruction manual, computer cable with USB adaptor, connector cover, calibration cup, weighted sensor guard, and maintenance kit.	11,012.48	546.55
46 82 83 00-3838	EA	AQ703 multiparameter sonde. (Teledyne Isco 600603303) Note: Includes AQ703 sonde with pH, Hamilton optical dissolved oxygen, conductivity, temperature, oxidation reduction potential, turbidity with wiper, and depth. Also includes AQ700 software, instruction manual, computer cable with USB adaptor, connector cover, calibration cup, weighted sensor guard, and maintenance kit with replacement wiper.	16,508.44	819.32
46 82 83 00-3839	EA	AQ700 field cable for connecting the AQ700 sonde to the SDI-12 converter - 5 meter length. (Teledyne Isco 600603314)	953.73	47.34
46 82 83 00-3840	EA	AQ700 field cable for connecting the AQ700 sonde to the SDI-12 converter - 10 meter length. (Teledyne Isco 600603315)	1,036.07	51.42
46 82 83 00-3841	EA	AQ700 field cable for connecting the AQ700 sonde to the SDI-12 converter - 15 meter length. (Teledyne Isco 600603316)	1,106.97	54.94
46 82 83 00-3842	EA	SDI-12 converter to 6712 series sampler. (Teledyne Isco 600603321) Note: This converter connects the AQ700 field cable to a 6712 series sampler which includes the 6712 Full Size portable, 6712C portable, 6712FR refrigerated, and Avalanche Samplers.	635.82	31.56
46 82 83 00-3843	EA	SDI-12 converter to Signature® Flow Meter. (Teledyne Isco 600603322) Note: The converter connect the AQ700 field cable to a Signature® Flow Meter.	377.37	18.73
46 82 83 00-3844	EA	SDI-12 converter to 2105 series interface module. (Teledyne Isco 600603320) Note: The converter connect the AQ700 field cable to a 2105 series interface module which includes the 2105, 2105Ci, and 2105Gi modules.	754.75	37.45
46 82 83 00-3845	EA	AQ700 Hamilton optical dissolved oxygen sensor replacement cap (Teledyne Isco 600603343)	537.47	26.68
46 82 83 00-3846	EA	AQ700 pH reference electrode replacement cap (Teledyne Isco 600603344)	123.51	6.13
46 82 83 00-3847	EA	SDI-12 connection cable for YSI Sonde and Isco Avalanche or 6712 Sampler (Teledyne Isco 609004337)	256.15	12.71
46 82 83 00-3848	EA	Y Connect Cable; for YSI Sonde, Rain gauge and Isco Avalanche or 6712 Sampler (Teledyne Isco 609004338)	452.86	22.47
46 82 83 00-3849	EA	SDI-12 connection cable for Hydrolab Quanta Sonde and Isco Avalanche or 6712 Sampler (Teledyne Isco 609004339)	256.15	12.71
46 82 83 00-3850	EA	Y Connect Cable; for Hydrolab Quanta Sonde, Rain gauge and Isco Avalanche or 6712 Sampler (Teledyne Isco 609004340)	445.99	22.14
46 82 83 00-3851	EA	SDI-12 connection cable for Isco Avalanche or 6712 Sampler and generic SDI-12 sensor (Teledyne Isco 609004341)	180.68	8.98
46 82 83 00-3852	EA	Y Connect Cable; for Generic SDI-12 sensor, Rain gauge and Isco Avalanche or 6712 Sampler (Teledyne Isco 609004342)	601.52	29.85
46 82 83 00-3853	EA	SPA 1400. YSI Adapter Extension Cable for Avalanche and 6712. SDI-12 adapter cable to adapt YSI sondes to the Avalanche/6712. (Teledyne Isco 605314400) Note: Allows for additional separation between the sonde and sampler. Built to length, per ft. Specify length at time of order.	320.20	15.89
		For Each LF Of Extension Cable, Add	*3.13*	
46 82 83 00-3854	EA	SPA 360. Modification to add Lifting Lugs to 6712FR/5800/4700 refrigerated samplers. (Teledyne Isco 605304360) Note: Four stainless steel lifting lugs are added, one to each corner, to allow for lifting with a mechanical hoist. For the 5800/4700 refrigerated sampler requires removal of pump cover, cannot be used with pump heater option.	464.28	23.05

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3855	EA	SPA 391. Y Connect cable, 4200 series flow meter to 6700/3700/GLS series sampler and Type 'E' Interface. (Teledyne Isco 605304391) Note: Requires the use of a sampler to flow meter cable (60-3004-107 or cut to length version 583). For the 5800/4700 refrigerated sampler the part number for the sampler to flow meter cable is 69-4704-043 (25 ft) or cut to length version SPA 1687 (up to 1,000 ft).	452.86	22.47
46 82 83 00-3856	LF	SPA 491. 3/8 inch vinyl Suction Line, cut to length, per ft. (Teledyne Isco 605304491) Note: Maximum available length is 400 ft.	3.62	0.18
46 82 83 00-3857	EA	SPA 565. 3700/6700/GLS/Avalanche 1640 Liquid Level Actuator, cut to length, per ft. (Teledyne Isco 605304565) Note: Maximum available length is 250 ft. For use with 5800/4700 also order adapter 60-5314-697 or 60-5314-704.	617.52	30.65
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-3858	LF	SPA 569. 3/8 inch PTFE suction line with protective jacket, cut to length, per ft. (Teledyne Isco 605304569) Note: Maximum available length is 500 ft.	10.74	0.53
46 82 83 00-3859	EA	SPA 583. Cut to length cable connects 6700/3700/GLS series samplers to 4200 series flow meters. (Teledyne Isco 605304583) Note: Custom length connect cable for applications when the sampler and flow meter are separated by more than 25 ft. Maximum length is 1,000 ft. Applications longer than 200 ft. will require a power supply on the sampler and a separate supply on the flow meter. For connection to the 5800/4700 sampler, use 60-5314-687. Not for use with 2100 systems.	171.54	8.51
		For Each LF Of Extension Cable, Add	*5.01*	
46 82 83 00-3860	EA	SPA 584. Modification to 6712FR/5800/4700 refrigerated samplers for the addition of anchor lugs. (Teledyne Isco 605304584) Note: An anchor bracket is added to each corner of the refrigerator, 2 brackets per side, to allow the refrigerator to be attached to the floor. If this is ordered without the refrigerator as a kit the model (6712FR or 5800/4700) of the refrigerator will be required to insure proper hardware and instructions are included, contact SPA department for details.	464.28	23.05
46 82 83 00-3861	EA	SPA 606. Modify 6712FR for 4 bottle configuration, bottles ordered separately. (Teledyne Isco 605304606) Note: Modification to 6712FR includes installation of unique drip tray, a different shelf, a bottle locating deck, distributor arm, shaft, 2 pump tubes and a discharge tube. Order plastic or glass bottles separately, (4x) 2 gallon polyethylene bottles 299-0013-07 or (4x) 2.5 gallon glass bottles 68-2700-005. If ordered as a kit for in-field installation order shelf part number 61-2723-028 separately, contact SPA department for details.	917.14	45.52
46 82 83 00-3862	EA	SPA 665. Relay alarm during sampling period. (Teledyne Isco 605304665) Note: Converts the event mark signal of 6700/3700/GLS series samplers into a Form 'C' contact closure for control use. Includes control of three-way solenoid valve to sample from pressurized line, or to control a pump linked to the SPA 888 Flow Thru Chamber. Contacts rated 12 amp, 120 VAC. Requires event mark to be set appropriately in the standard software. Plugs into the Flow Meter port on sampler. For connection to 5800/4700 sampler also order adapter 60-5314-697 or 60-5314-704.	974.32	48.35
46 82 83 00-3863	EA	SPA 719. Low Flow 3/8-inch stainless steel strainer. (Teledyne Isco 605304719) Note: Three 3/8-inch holes oriented toward bottom via 2-inch square plate. 7-inches long, 7/8-inch high. Contact factory for application details.	464.28	23.05
46 82 83 00-3864	EA	SPA 741. Modification to Mount Handles on 6712FR/5800/4700 refrigerated samplers. (Teledyne Isco 605304741) Note: Stainless steel handles (4) are added to the sides of the refrigerator to allow for easier handling.	603.81	29.96
46 82 83 00-3865	EA	SPA 790. Custom length Cable for non-Isco external control of 6700/3700/GLS series samplers. (Teledyne Isco 605304790) Note: Cable provides pins 'B' and 'F' for connection to customer's unpowered switch or contact. When closed, this will disable the sampler. Customer may hook this cable to floats, relay alarms, etc. to control when they want the sampler program to run. Maximum length of 1,000 ft.	134.95	6.70
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-3866	EA	SPA 820. PTFE coated 3/8-inch Stainless Strainer. (Teledyne Isco 605304820) Note: This is our old style 3/8-inch stainless strainer that has been coated with PTFE. Use 60-5314-552 for non-PTFE coated version.	603.81	29.96
46 82 83 00-3867	EA	SPA 895. Custom length Double Junction pH Sensor for connection to Signatue 301 pH/temperature device or 6712 with 701 module. (Teledyne Isco 605304895) Note: This is the standard 60-9004-126 pH sensor, with custom length cable. Units are ordered from vendor, so allow from 4 to 10 weeks delivery on any SPA 895. This probe has the built in temperature sensor. Please specify the length when ordering.	1,152.71	57.22
		For Each LF Of Extension Cable, Add	*2.55*	
46 82 83 00-3868	EA	SPA 906. Modify 6712FR for 2-Bottle Configuration for 6712FR refrigerated samplers. (Teledyne Isco 605304906) Note: Includes 2 polypropylene 20 liter containers, bottle locating deck, distributor arm and shaft appropriate for type of refrigerator. Please specify refrigerator model when ordering. For single replacement bottle order 60-5304-908. This modification places a flat shelf lower in the refrigerator to accommodate the bottles. When ordering as a kit include shelf part number 61-2723-028.	1,219.03	60.50
46 82 83 00-3869	EA	SPA 908. One 5 gallon (20 liter) polypropylene bottle, rectangular. (Teledyne Isco 605304908) Note: This is the same bottle used by SPA 906 (60-5304-906) and SPA 1694 (60-5314-694).	487.15	24.18
46 82 83 00-3870	EA	SPA 918. Modification to 6700/3700 series samplers for internal 120 Volt AC heater, with line cord. (Teledyne Isco 605304918) Note: A 30 watt, AC powered strip heater is installed in the control box to insure display is readable in extremely cold conditions. Controller has power cord to provide 120 VAC to the heater. A fixed point thermostat controls heater to keep internal temperature above 35 degrees F. For portable units only, for 6712FR refrigerators use SPA 1020. For 5800/4700 refrigerated samplers use standard product offerings.	1,347.11	66.87
46 82 83 00-3871	EA	SPA 1932. Two wheel hand cart for portable non-refrigerated samplers. (Teledyne Isco 605314932) Note: Semi-pneumatic tires allow movement over uneven terrain. Includes cord to secure base of portable sampler to cart; intended for temporary use. State model of sampler and compact or standard base to ensure that the proper secure cord length is supplied.	709.01	35.19
46 82 83 00-3872	EA	SPA 939. DC Powered RTD Interface. (Teledyne Isco 605304939) Note: Connects and powers 581 RTD during transfer to a PC with a DB-9 pin serial port. Can be powered with a 9 Volt DC battery, or powered by an external 12 Volt DC source such as a user-supplied AC-DC power converter. External DC Power supply must be regulated 12 Volt DC, 200 mA. Standard 9 Volt DC battery supports portable PC use; external power provides support for non-120 Volt AC customers.	464.28	23.05
46 82 83 00-3873	EA	SPA 947. Model 6712/Avalanche Sampler Single I/O Alarm. (Teledyne Isco 605304947) Note: This is an external alarm, in a NEMA 4 box, housing a single relay, 12 amp, 120 VAC, to communicate alarm conditions within the 6712. The 6712 can be programmed to alarm any one of several conditions such as program done, run errors, program enabled, etc. as set in programming. Connects to the rain gauge / I/O port. Y cable 60-9004-294 will be required if used in tandem with a 6712FR with temperature logging option.	1,276.22	63.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3874	EA	SPA 970. Custom length cable for non-Isco external flow pacing of 6700/3700/GLS series samplers. (Teledyne Isco 605304970) Note: Cable provides pins 'A' and 'C' for connection to customer's unpowered flow proportional contact closure. A momentary contact closure across these pins will cause the flow pulse counter to decrement 1 count. This is a custom length version of 60-1394-077. Maximum length of 1,000 ft.	134.95	6.70
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-3875	EA	SPA 978. Model 6712/Avalanche Sampler Double I/O Alarm. Same as SPA 947 but has two programmable alarm outputs. (Teledyne Isco 605304978) Note: Connects to the rain gauge / I/O port. Y cable 60-9004-294 will be required if used in tandem with a 6712FR with temperature logging option.	1,486.63	73.77
46 82 83 00-3876	EA	SPA 979. Model 6712/ Avalanche Sampler Triple I/O Alarm. Same as SPA 947 but has three programmable alarm outputs. (Teledyne Isco 605304979) Note: Connects to the rain gauge/ I/O port. "Not for use with 6712FR with temperature logging option installed.	1,985.22	98.53
46 82 83 00-3877	EA	SPA 983. PEEK Coupler. (Teledyne Isco 605304983) Note: This coupler provides connection between 3/8-inch suction line and sampler's pump tubing. It is made from PEEK and is often used when sampling for trace metals.	324.77	16.12
46 82 83 00-3878	EA	SPA 1012. Modification to 6712FR for 4 Bottle Configuration. (Teledyne Isco 605314012) Note: Includes a different shelf and the shelf brackets location inside of the cooling box is modified; included are 4 rectangular polyethylene 10-liter containers, bottle locating deck, distributor arm, distributor shaft, two pump tubes and a discharge tube. If ordered as a kit for in-field installation on the 6712FR, add shelf part number 61-2723-028, contact SPA department for details. For one single replacement bottle, order 60-5314-308.	985.74	48.93
46 82 83 00-3879	EA	SPA 1020. Modify 6712FR for controller compartment heater. (Teledyne Isco 605314020) Note: This is a forced air (fan) 200 watt heater that is mounted to the inside upper portion of the 6712FR refrigerator. Powered via its own 120 VAC line cord, it has an integral thermostat. It is a popular option for customers having concerns about liquid droplets freezing in the pump tube. Available as a kit for field installation, contact SPA department for details.	1,324.24	65.72
46 82 83 00-3880	EA	SPA 1026. Cut to length cable for Models 6712/Avalanche/3700/GLS flow paces a second sampler from the first sampler's event mark. (Teledyne Isco 605314026) Note: Usually used when a 6712 sampler with module is required to flow pace a second sampler for nearly simultaneous sampling. Uses both sampler's flow meter ports.	162.39	8.05
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-3881	EA	SPA 1074. 750 Module Low Profile Area Velocity Sensor, built to length. (Teledyne Isco 605314074) Note: This is the 10 ft. range low profile sensor with a custom length cable up to 75 ft. long. Often used instead of extension cable to facilitate custom installations.	2,721.67	135.08
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-3882	EA	SPA 1081. Pressure Reduction Valve. (Teledyne Isco 605314081) Note: This valve is used for sampling from pressurized lines and is suggested for use with a software enhanced 6712 sampler. It reduces pressures from as high as 300 psi down to levels safe for Isco samplers. Equipped with stainless steel components and a brass body it includes a gauge to monitor output pressures, factory preset to 10 psi. It is a portion of the Pressurized Line Sampling System 68-5304-001. This product does not handle solids.	2,680.51	133.03
46 82 83 00-3883	EA	SPA 1082. Three way 120 Volt AC actuated-ball valve. (Teledyne Isco 605314082) Note: This stainless steel and brass valve is used with SPA 947 or SPA 1484 to allow sampling from pressurized line. Often requires the use of SPA 1081 as well. Valve actuates to allow liquid to be delivered to the pump. Also need SPA 1376 (no charge) to allow valve to open before sampling begins. For three-way 230/240 VAC actuated-ball valve use 60-5314-229. This valve is part of the Pressurized Line Sampling System 68-5304-001.	3,110.48	154.38
46 82 83 00-3884	EA	SPA 1106. Two wheel hand cart for 6712FR or 5800/4700 refrigerated samplers. (Teledyne Isco 605314106) Note: Inflatable tires allow movement over uneven terrain. To attach cart to refrigerator for secured support also order brackets part number 60-5314-107 (not included).	1,113.83	55.28
46 82 83 00-3885	EA	SPA 1107. Brackets to secure two wheel hand cart (60-5314-106) to 6712FR or 5800/4700 refrigerated samplers for solid support of cart to refrigerator. (Teledyne Isco 605314107)	532.90	26.45
46 82 83 00-3886	EA	SPA 1140. Norprene pump tubing for use with the 5800/4700 and 6712 samplers. (Teledyne Isco 605314140) Note: Norprene is a heavy-duty tubing for use when sampling strong acids or base. It is also an alternative where premature pump tube failure is occurring. This tubing is NOT EPA approved. Available in 50 ft. lengths only.	974.32	48.35
46 82 83 00-3887	EA	SPA 1157. 6712 I/O Port Interface Cable. (Teledyne Isco 605314157) Note: Allows access to the I/O port signals for connection to data control systems. I/O outputs 1, 2, and 3 plus ground are provided in a cut to length cable with a maximum length of 100 ft.	240.15	11.92
		For Each LF Of Extension Cable, Add	*5.19*	
46 82 83 00-3888	EA	SPA 1181. 6712 I/O port to 6700 I/O Connect Cable, built to length. (Teledyne Isco 605314181) Note: This cable allows communication/control between the I/O ports of two 6700 samplers. Includes enabling a second 6700 sampler from parameters measured in the first 6712 sampler.	240.15	11.92
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-3889	EA	SPA 1189. Custom Length Connect Cable for External 12 Volt DC source. (Teledyne Isco 605314189) Note: Cable for powering portable Isco sampler or flow meters from an external 12 Volt DC source, such as an automotive or deep-cycle marine battery. Terminates in heavy-duty battery clips. For use with Isco GLS, 3700, 6712 portable samplers, and Signature Portable flow meters. Appropriate for use with 40 Watt and 110 Watt solar panels. Same as part number 60-1394-023 except for custom length. Remember to specify the length of this product. Max length is 50'.	173.82	8.63
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-3890	EA	SPA 1257. Black Tygon Suction Line, 25 ft., with stainless steel strainer. (Teledyne Isco 605314257) Note: Tubing color is black to resist growth on the inner walls of the suction line.	603.81	29.96
46 82 83 00-3891	LF	SPA 1260. Black Tygon Suction Line, 3/8 inch, cut to length, per ft. (Teledyne Isco 605314260) Note: Maximum length is 500 ft. Tubing color is black to resist growth on the inner walls of the suction line.	8.41	0.42
46 82 83 00-3892	EA	SPA 1271.720 Submerged probe, 10 ft. range, built to length. (Teledyne Isco 605314271) Note: Maximum length is 75 ft.	1,978.36	98.18
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-3893	EA	SPA 1278. Y cable,sampler port to two devices, without diodes. Similar to 603704081 but without diodes blocking power. (Teledyne Isco 605314278) Note: Allows replication of sampler port for connection of alarm boxes, non-Isco cables, interfaces, etc.	452.86	22.47
46 82 83 00-3894	EA	SPA 1281. 4-20 mA input interface with cut-to-length cable for 3700 Series, 6700 Series or GLS Sampler. (Teledyne Isco 605314281) Note: Converts an analog 4-20 mA flow proportional signal to a compatible flow proportional input signal. Custom cable length allows the interface to be mounted remotely from the sampler controller.	365.94	18.15
		For Each LF Of Extension Cable, Add	*4.49*	

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46 82 83 00-3895	EA	SPA 1301. Sampler to Flow Meter cable with pigtails at one side. (Teledyne Isco 605314301) Note: Cut to length 1,000' maximum length cable provides connector on one end and all 6 wires A-F as pig tails on the other end, connects to sampler's flow meter port. For 5800 use 10' universal connect cable 68-5800-020, or maximum 100' cut to length 605314738.	102.91	5.11
		For Each LF Of Extension Cable, Add	*4.68*	
46 82 83 00-3896	EA	SPA 1361. Analog (4-20 mA) Alarm Box. (Teledyne Isco 605314361) Note: Provides two customer settable alarms off single 4-20 mA loop. For Isco or non-Isco instruments. High/low alarms for any parameter we can generate a 4-20 mA loop for. Requires the instrument to have an analog output option installed.	2,657.64	131.90
46 82 83 00-3897	EA	SPA 1374. 6712 Temperature Sensor, cut to length. (Teledyne Isco 605314374) Note: Measures site or stream temperature. Readings are logged by controller as FR-TEMP readings and may be used as a sampler enable condition. Connects to Rain Gauge port. Not for use with 6712FR with temperature logging option installed.	937.71	46.54
		For Each LF Of Extension Cable, Add	*3.13*	
46 82 83 00-3898	EA	SPA 1381. Wireless radios for transmitting 4-20 mA loop. (Teledyne Isco 605314381) Note: Also can provide wireless connection between rain gauge and Isco instruments. Useful where cable connection is impractical or excessively costly. Includes 2 transceivers, 2 antennas, 1 AC supply and necessary wiring to Isco instrument. Contact factory for details.	8,599.57	426.79
46 82 83 00-3899	EA	SPA 1415. Cut to length stainless steel suspension cable with two hooks. (Teledyne Isco 605314415) Note: Suitable for suspension between sampler suspension harness 60-1394-014 and Booster pump 60-5314-861.	125.79	6.24
		For Each LF Of Extension Cable, Add	*3.91*	
46 82 83 00-3900	EA	SPA 1505. Peek bulkead fitting for 6712FR. (Teledyne Isco 605314505) Note: Similar to PTFE this fitting routes between the pump tubing and the discharge tube inside of the cooling box of the 6712 fiberglass refrigerator, often used when sampling for trace metals. Use separate 3/8" Peek coupler 60-5304-983 and 3/8" PTFE coated strainer 60-5304-820 for related items.	672.42	33.37
46 82 83 00-3901	EA	SPA 1552. Old style 3/8-inch weighted stainless steel strainer. Four piece stainless steel strainer. 9-1/4 inches long, 1-3/8 inches diameter. (Teledyne Isco 605314552)	395.68	19.64
46 82 83 00-3902	EA	SPA 1578.6700 series sampler interrogator port extension cable, cut to length. (Teledyne Isco 605314578) Note: Use in tandem with 60-2004-508 to increase length of USB connect cable. Specify length when ordering. Total length of all cables must not exceed 200'. Not for use with 2100 systems.	180.68	8.98
		For Each LF Of Extension Cable, Add	*5.01*	
46 82 83 00-3903	EA	SPA 1652. Bracket to mount AV sensor and sampler strainer on user-supplied metal post. (Teledyne Isco 605314652)	580.94	28.84
46 82 83 00-3904	EA	SPA 1745. Modify 6712FR or 5800/4700 refrigerated sampler to disable the sampler's program when an internal liquid level actuator sensor is submerged in a composite bottle. (Teledyne Isco 605314745) Note: When the liquid detector's probe is wetted the controller goes into disable program state, when the probe is removed from water or dried the controller will go back into enable sample program state. All of the wiring is internal; this product will not interact with external disable, if external disable is required contact the factory for details.	1,155.00	57.33
46 82 83 00-3905	EA	SPA 1814. Modify 6712FR or 5800/4700 refrigerated sampler to add bottle full lamp indicator for composite 2.5 gallon poly bottle configuration. (Teledyne Isco 605314814) Note: Utilizes float affixed to lid of 2.5 gallon poly bottle (not included, order bottle configuration separately) to run exterior lamp for bottle full condition. Does not affect controller operation, simply indicates that the bottle is full.	894.26	44.38
46 82 83 00-3906	EA	SPA 1935. Blade Antenna with SMA style connector. This 5 inch long by 13/16 inch wide by 1/4 inch tall antenna comes equipped with a 10 foot cable and the antenna body is normally attached to an external surface with customer supplied epoxy. (Teledyne Isco 605314935) Note: This antenna is for old style 2103C/2103G with an SMA style connector or external cell phone for 4200 series flow meter or 6712 sampler CDMA style 60-5314-489 or GSM style 60-5314-653.	313.33	15.54
46 82 83 00-3907	EA	SPA 1801. Modify 1640 Liquid Level Actuator for Removable Sensor Probe. (Teledyne Isco 605314801) Note: Provides a removable connection between the 1640 liquid level actuator (not included) and the probe cable, the liquid level actuator is purchased separately as either the 22' standard or custom length version.	180.68	8.98
46 82 83 00-3908	EA	SPA 1802. Custom Length Probe for 1640 Liquid Level Actuator (Teledyne Isco 605314802) Note: Requires 60-5314-801 (not included) and 1640 liquid level actuator (not included). Provides Custom Length probe cable or spare probe cable for a 1640 Liquid Level Actuator that has been modified for a removable probe cable. Maximum available length is 250 ft.	173.82	8.63
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-3909	EA	SPA 1805. Cable, cut to length, with USOC RJ11C phone connector to 4200/6712 series internal modem connector. (Teledyne Isco 605314805) Note: Order when the standard 12 ft. cable supplied with the Telephone Modem with voice messaging for 4200 series flow meters option requires a greater length. Cut to length version of part number 60-3214-020.	160.10	7.94
		For Each LF Of Extension Cable, Add	*2.51*	
46 82 83 00-3910	EA	SPA 1826. 8 bottle configuration for 6712FR sampler. (Teledyne Isco 605314826) Note: Includes 8 round glass 1.8 liter bottles, 8 PTFE lined caps, bottle rack and two discharge tubes.	2,159.03	107.15
46 82 83 00-3911	EA	SPA 1861. Booster pump for 5800/4700 refrigerated sampler or modified 6700/3700/GLS/Portable Refrigerated Sampler series. (Teledyne Isco 605314861) Note: Allows sampling from extended heads above 28 feet. Equipped with two 80' cables and suction line, pump tubing and a single 3/8" coupler. One cable connects to a separately ordered high capacity 12 Volt DC power source, the other connects to the 16 pin connector on the 5800/4700 or modified 6700/3700/GLS/Portable Refrigerated Sampler series. The output of this pump connects directly to the input pump of the controller, liquid detection occurs at the controller. Requires the use of 2 (of 4) output alarms from the 5800. The 6700/3700/GLS/Portable Refrigerated Sampler series requires a modification to the sampler controller ordered separately as 60-5324-038. The booster pump is encased in a 3700 style control box; submersion is not recommended. Use 3 point suspension harness 60-1394-014 and suspension cable 60-5314-415 for mounting considerations. This SPA voids the specified line velocity rating of the standard sampler pump.	4,306.65	213.73
46 82 83 00-3912	EA	SPA 1978. Generation III Hi-Temp Flow Through Chamber. (Teledyne Isco 605314978) Note: Made from ABS and CPVC and compatible with liquids up to 180 degrees F. Chamber has a 2-inch inlet, 3-inch outlet, and 3-inch clean-out plug; same opening sizes as now obsolete part number 60-5304-888.	464.28	23.05
46 82 83 00-3913	EA	SPA 2038. Modify 6712, 3700, GLS or portable refrigerator for booster pump (not included). (Teledyne Isco 605324038) Note: Modifies controller to connect to separate booster pump, use separate 60-5314-861 Spa 1861 booster pump. This modification is not required for model 4700 or 5800 sampler.	917.14	45.52
46 82 83 00-3914	EA	SPA 2047. SDI-12 Submersible temperature sensor probe for 6700 series sampler. (Teledyne Isco 605324047) Note: Standard length is 59 feet, available with a submersible splice up to 200 feet maximum length for an additional fee. Equipped with a connector for the sampler's rain gauge/IO port.	2,916.07	144.73
		For Each LF Of Extension Cable, Add	*2.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3915	EA	6712Gi GSM Cell Phone Modem Package for North America/Region A. (Teledyne Isco 605324151) Note: This cell phone modem accepts SIM cards purchased by the customer from their preferred provider. Requires comm cable 60-2004-508 to set APN.	4,071.08	202.05
46 82 83 00-3916	EA	6712Gi GSM Cell Phone Modem Package for Europe/Region B. (Teledyne Isco 605324152) Note: This cell phone modem accepts SIM cards purchased by the customer from their preferred provider. Requires comm cable 60-2004-508 to set APN.	4,071.08	202.05
46 82 83 00-3917	EA	Complete Pressurized Line Sampling for 6700 Series Sampler, 120 Volt AC only. (Teledyne Isco 685304001) Note: Contains pressure reduction valve (60-5314-081), 3-way 120 VAC actuated ball valve (60-5314-082), 6712 I/O alarm box for three-way ball valve (60-5314-484), mounting plate (60-5314-475) and 6712 software enhancement (60-5314-376). Utilizes one of three I/O alarms. Provides a 9 foot 120 VAC line cord and a 10 foot cable to the sampler's I/O rain gauge port. The port is duplicated on the I/O alarm box. Not for use with 6700 or 3700 samplers, contact factory for details.	7,730.46	383.66
46 82 83 00-3918	EA	Complete Pressurized Line Sampling for 6700 Series Sampler, 240 Volt AC only. (Teledyne Isco 685304007) Note: Contains pressure reduction valve (60-5314-081), 3-way 240 VAC actuated ball valve (60-5314-229), 6712 I/O alarm box for three-way ball valve (60-5314-718), mounting plate (60-5314-475) and 6712 software enhancement (60-5314-376). Provides a 7.5 foot 240 VAC line cord and a 10 foot cable to the sampler's I/O rain gauge port; the port is duplicated on the I/O alarm box. Utilizes one of three I/O alarms. Not for use with 6700 or 3700 samplers, contact factory for details.	8,727.65	433.16
46 82 83 00-3919	EA	5800 Refrigerated Sampler (115 Volt AC, 60 Hertz). (Teledyne Isco 685800001) Note: Includes control panel, refrigeration unit, distributor arm, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer.	12,743.84	632.48
46 82 83 00-3920	EA	5800 Refrigerated Sampler (115 Volt AC, 60 Hertz) with pump heater. (Teledyne Isco 685800102) Note: Includes control panel, refrigeration unit, pump housing heater, distributor arm, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer.	14,045.20	697.06
46 82 83 00-3921	EA	5800 Refrigerated Sampler (115 Volt AC, 60 Hertz) with battery backed power. (Teledyne Isco 685800064) Note: Includes control panel, refrigeration unit, distributor arm, battery backed connector adaptor, 6.5 Amp/Hours lead-acid battery, battery bracket, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer.	13,834.78	686.62
46 82 83 00-3922	EA	5800 Refrigerated Sampler (230 Volt AC, 50 Hertz). (Teledyne Isco 685800002) Note: Includes control panel, refrigeration unit, distributor arm, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer.	12,743.84	632.48
46 82 83 00-3923	EA	5800 Refrigerated Sampler (230 Volt AC, 50 Hertz) with battery backed power. (Teledyne Isco 685800065) Note: Includes control panel, refrigeration unit, distributor arm, battery backed connector adaptor, 6.5 Amp/Hours lead-acid battery, battery bracket, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer.	13,834.78	686.62
46 82 83 00-3924	EA	5800 Refrigerated Sampler (230 Volt AC, 50 Hertz) with pump heater. (Teledyne Isco 685800103) Note: Includes control panel, refrigeration unit, pump heater, distributor arm, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer.	14,045.20	697.06
46 82 83 00-3925	EA	5800 Refrigerated Sampler (115 Volt AC, 60 Hertz) with pump heater and battery backed power. (Teledyne Isco 685800200) Note: Includes control panel, refrigerator unit, pump housing heater, batter backed connector adaptor, 6.5 AH lead-acid battery, battery bracket, distributor arm, two pump tubes, instruction manual, and pocket guide.To recieve a complete system you must also order a bottle configuration kit and suction line with strainer.	13,974.30	693.55
46 82 83 00-3926	EA	5800 Refrigerated Sampler (230 Volt AC, 50 Hertz) with pump heater and battery backed power. (Teledyne Isco 685800201) Note: Includes control panel, refrigerator unit, pump housing heater, batter backed connector adaptor, 6.5 AH lead-acid battery, battery bracket, distributor arm, two pump tubes, instruction manual, and pocket guide. To recieve a complete system you must also order a bottle configuration kit and suction line with strainer.	13,768.46	683.34
46 82 83 00-3927	EA	5800 Chinese Refrigerated Sampler (230 Volt AC, 50 Hertz). (Teledyne Isco 685800003) Note: Includes control panel, refrigeration unit, distributor arm, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer.	12,743.84	632.48
46 82 83 00-3928	EA	5800 Chinese Refrigerated Sampler (230 Volt AC, 50 Hertz) with battery backed power. (Teledyne Isco 685800066) Note: Includes control panel, refrigeration unit, distributor arm, battery backed connector adaptor, 6.5 AH lead-acid battery, battery bracket, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer.	13,631.24	676.52
46 82 83 00-3929	EA	5800 Chinese Refrigerated Sampler (230 Volt AC, 50 Hertz) with pump heater. (Teledyne Isco 685800104) Note: Includes control panel, refrigeration unit, pump heater, distributor arm, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer.	13,837.07	686.73
46 82 83 00-3930	EA	24-bottle Configuration. Includes 24 polypropylene 1-liter wedge shaped bottles with caps, bottle rack and two discharge tubes. (Teledyne Isco 685800015)	846.25	42.00
46 82 83 00-3931	EA	24-bottle Configuration. Includes 24 glass 350-ml round bottles with PTFE line caps, retaining rings, bottle rack and two discharge tubes. (Teledyne Isco 685800016)	1,347.11	66.87
46 82 83 00-3932	EA	24-Container ProPak Configuration. Includes 25 holders, 100 bags, retaining ring, bottle rack and instruction sheet. (Teledyne Isco 685800017)	2,090.43	103.75
46 82 83 00-3933	EA	4-bottle Configuration. Includes four polyethylene 10-liter (2.5 gallon) round bottles with caps, locating base and two discharge tubes. (Teledyne Isco 685800005)	974.32	48.35
46 82 83 00-3934	EA	4-bottle Configuration. Includes four glass 10-liter (2.5 gallon) round bottles with PTFE lined caps, locating base and two discharge tubes. (Teledyne Isco 685800006)	974.32	48.35
46 82 83 00-3935	EA	4-bottle Configuration. Includes four PPE 20-liter (5 gallon) Square bottles with PTFE lined caps, locating base, distributer arm, and two discharge tubes. (Teledyne Isco 685800019)	1,056.65	52.45
46 82 83 00-3936	EA	2-bottle Configuration. Includes two polyethylene 10-liter (2.5 gallon) round bottles, locating base, caps and two discharge tubes. (Teledyne Isco 685800007)	789.05	39.16
46 82 83 00-3937	EA	2-bottle Configuration. Includes two glass 10-liter (2.5 gallon) round bottles with PTFE lined caps, locating base, and two discharge tubes. (Teledyne Isco 685800008)	789.05	39.16
46 82 83 00-3938	EA	1-bottle Configuration. Includes one polyethylene 2.5-gallon (10-liter) round bottle, locating base, two caps and two discharge tubes. (Teledyne Isco 685800009)	418.55	20.77
46 82 83 00-3939	EA	1-bottle Configuration. Includes one glass 2.5-gallon (10-liter) round bottle, one PTFE lined cap, locating base, and two discharge tubes. (Teledyne Isco 685800010)	418.55	20.77
46 82 83 00-3940	EA	Single ProPak Configuration for 5800 and 6700 Series FR Refrigerated Sampler. Includes one composite ProPak holder with cap, 100 ProPak bags, O-ring, two discharge tubes, locating base and an instruction sheet. (Teledyne Isco 685800018)	626.68	31.10

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3941	EA	1-bottle Configuration. Includes one polyethylene 20.5-liter (5.5 gallon) round bottle, two caps and two discharge tubes. (Teledyne Isco 685800011)	441.41	21.91
46 82 83 00-3942	EA	1-bottle Configuration. Includes one glass 18.5-liter (5 gallon) round bottle, two PTFE lined caps and two discharge tubes. (Teledyne Isco 685800012)	789.05	39.16
46 82 83 00-3943	EA	5800 replacement control panel assembly (Teledyne Isco 605804031)	1,404.29	69.70
46 82 83 00-3944	EA	5800 refrigerated sampler multipurpose cable with 16 unterminated leads, 10 ft. (3 m). Includes instruction sheet. (Teledyne Isco 685800020)	219.57	10.89
46 82 83 00-3945	EA	USB Communication Cable, 10 ft, for 5800 refrigerated sampler. (Teledyne Isco 605804177)	663.26	32.92
46 82 83 00-3946	EA	SPA 1687. 5800/4700 refrigerated sampler to 4100/4200 series flow meter connect cable, cut to length. (Teledyne Isco 605314687)	365.94	18.15
		Note: Specify length when ordering. Not for use with 2100 systems.		
		For Each LF Of Extension Cable, Add	*5.19*	
46 82 83 00-3947	EA	SPA 1697. Adapter, 5800/4700 series sampler to 6700/3700 series sampler standard 6 pin 'flow meter' port, cut to length. Connects to the 16-pin external device connector. The other end is finished with a flow meter port connector identical to the port found on 6700 and 3700 samplers. (Teledyne Isco 605314697)	297.32	14.76
		Note: Use SPA 1704 for an adaptor that also provides a duplicate of the 16 pin connector from the 5800/4700 series sampler.		
		For Each LF Of Extension Cable, Add	*5.19*	
46 82 83 00-3948	EA	SPA 1698. 5800/4700 refrigerated sampler dual 16 pin standard external device connection box. (Teledyne Isco 605314698)	731.88	36.32
		Note: Provides for two external device connectors through the sampler's standard 16 pin connector.		
46 82 83 00-3949	EA	SPA 1704. Dual Connector Adapter, 5800/4700 refrigerated sampler to 6700/3700 series standard 6 pin 'flow meter' port and 5800/4700's 16 pin standard connector. (Teledyne Isco 605314704)	580.94	28.84
46 82 83 00-3950	EA	SPA 1706. Dual Connector Adapter, 5800/4700 refrigerated sampler to 6712 standard 9 socket 'I/O output' port and 5800/4700 16 pin standard connector. (Teledyne Isco 605314706)	592.36	29.40
		Note: Provides for connection to external equipment normally connected to the 6712's I/O port for 5800/4700 alarm outputs and duplicates the 5800/4700's 16-pin external device connector.		
46 82 83 00-3951	EA	SPA 1738. Cut to length version of 5800/4700 refrigerated sampler multipurpose cable with 16 unterminated leads, 100 ft. maximum length. Includes instruction sheet. (Teledyne Isco 605314738)	189.84	9.43
		For Each LF Of Extension Cable, Add	*5.19*	
46 82 83 00-3952	EA	SPA 1777. 5800/4700 refrigerated sampler to 3010 flow transmitter connect cable, cut to length. (Teledyne Isco 605314777)	297.32	14.76
		Note: For non-conduit wiring, a watertight cord grip fitting (part number 209-0076-08) is required.		
		For Each LF Of Extension Cable, Add	*5.19*	
46 82 83 00-3953	EA	5800/4700 Pump heater installation kit - 120 Volt AC, 60 Hertz. (Teledyne Isco 684700104)	1,299.08	64.48
		Note: Includes installation instruction sheet.		
46 82 83 00-3954	EA	5800 Pump heater installation kit - 220 Volt AC, 50 Hertz. (Teledyne Isco 685800060)	1,299.08	64.48
		Note: Includes installation instruction sheet.		
46 82 83 00-3955	EA	TIENet® 306 sampler interface cable for 5800 series sampler with 16 ft (5m) long cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter. (Teledyne Isco 605804178)	827.94	41.09
		Note: Connects to the 4700/5800 16-pin connector to support sampler pacing and enable functions.		
46 82 83 00-3956	EA	TIENet® 306 sampler interface cable for 5800 series sampler with 32.8 ft (10 m) long cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter. (Teledyne Isco 605804179)	898.85	44.61
		Note: Connects to the 4700/5800 16-pin connector to support sampler pacing and enable functions.		
46 82 83 00-3957	EA	TIENet® 306 sampler interface cable for 5800 series sampler with 75 ft (23 m) long cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter. (Teledyne Isco 605804180)	1,109.25	55.06
		Note: Connects to the 4700/5800 16-pin connector to support sampler pacing and enable functions.		
46 82 83 00-3958	EA	Discharge Tubing. For GLS, GSS samplers, and 5800/4700 samplers single 20 liter bottle configuration. (Teledyne Isco 602953032)	29.73	1.48
46 82 83 00-3959	EA	5800 Sampler instruction manual (Teledyne Isco 605804051)	123.61	
46 82 83 00-3960	EA	5800 Sampler Pocket Guide (Teledyne Isco 695803085)	24.72	
46 82 83 00-3961	EA	5800 Sampler Quick Reference Card (Teledyne Isco 695803084)	6.18	
46 82 83 00-3962	EA	SPA 921. GLS/3700/6700/Signature Portable Custom Length Connect cable for external 12 Volt DC source via ring terminals. (Teledyne Isco 605304921)	201.27	9.99
		Note: Cable for powering portable Isco sampler or flow meters from an external 12 Volt DC source, such as an automotive or deep-cycle marine battery. Terminates in 5/16" terminals for direct connection to external battery. For use with Isco GLS, 3700, 6100, 6700 Series portable samplers and Signature Portable flow meters. Remember to specify the length of this product. Max length is 50 ft. Appropriate for 40 Watt and 110 Watt solar panels. Contact SPA department for details regarding connection to 5800/4700 refrigerated sampler with battery backed input.		
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-3963	EA	SPA 1562. Sampler Interface for 2110/2150, cut to length interface that connects to the top connector of the 2100 series. (Teledyne Isco 605314562)	628.96	31.21
		Note: Used when a 2108 is connected to the bottom of the 2100 stack. Maximum length is 1000 ft, minimum length 5 ft. to allow between 6712/3700 sampler's flow meter port and 2110 or 2150. For 5800/4700 sampler order in tandem with part number 60-5314-697.		
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-3964	EA	SPA 1710. 5800/4700 refrigerated sampler output #1 alarm box. This external box connects to the 5800/4700 sampler's 16-pin external device connector via a 9 ft. cable. (Teledyne Isco 605314710)	1,253.34	62.21
		Note: When the alarm output #1 becomes active, the box provides an unpowered Form C contact alarm. The alarm has a toggle/latch switch to either hold or toggle the alarm, if applicable, and includes a 3 ft. connect cable. The 5800/4700 sampler's 16-pin external device connector is duplicated on this box. Not for use with pressurized line sampling system, contact factory for details.		
46 82 83 00-3965	EA	SPA 1711. 5800/4700 refrigerated sampler output #1 and 2 alarm box. This external box connects to the5800/4700 sampler's 16-pin external device connector via a 9 ft. cable. (Teledyne Isco 605314711)	1,461.47	72.53
		Note: When an alarm output becomes active, the box provides an unpowered Form C contact alarm. Each alarm has a toggle/latch switch to either hold or toggle the alarm, if applicable, and includes a 3 ft. connect cable. The 5800/4700 sampler's 16-pin external device connector is duplicated on this box. Not for use with pressurized line sampling system, contact factory for details.		
46 82 83 00-3966	EA	SPA 1712. 5800/4700 refrigerated sampler output #1, 2, and 3 alarm box. This external box connects to the 5800/4700 sampler's 16-pin external device connector via a 9 ft. cable. (Teledyne Isco 605314712)	1,880.01	93.30
		Note: When an alarm output becomes active, the box provides an unpowered Form C contact alarm. Each alarm has a toggle/latch switch to either hold or toggle the alarm, if applicable, and includes a 3 ft. connect cable. The 5800/4700 sampler's 16-pin external device connector is duplicated on this box. Not for use with pressurized line sampling system, contact factory for details.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3967	EA	SPA 1713. 5800/4700 refrigerated sampler output #1, 2, 3, and 4 alarm box. (Teledyne Isco 605314713) Note: This external box connects to the 5800/4700 sampler's 16-pin external device connector via a 9 ft. cable. When an alarm output becomes active, the box provides an unpowered Form C contact alarm. Each alarm has a toggle/latch switch to either hold or toggle the alarm, if applicable, and includes a 3 ft. connect cable. The 5800/4700 sampler's 16-pin external device connector is duplicated on this box. Not for use with pressurized line sampling system, contact factory for details.	2,136.17	106.02
46 82 83 00-3968	EA	SPA 1764. 5800/4700 refrigerator sampler door open alarm. (Teledyne Isco 605314764) Note: This hardware and software modification detects when the door is open. Because the sampler controller checks peripheral inputs every five seconds, it may take up to ten seconds to detect the DOOR OPEN condition and issuing the alarm on the output pin.	434.55	21.57
46 82 83 00-3969	EA	SPA 1772. 5800/4700 refrigerated sampler output #1, 2, 3, 4 and composite bottle full alarm box. This external box connects to the 5800/4700 sampler's 16-pin external device connector via a 9 ft. cable. When an alarm output becomes active, the box provides an unpowered Form C contact alarm. (Teledyne Isco 605314772) Note: Provides liquid level actuator probe for placement into composite sample container with separate alarm. Each alarm has a toggle/latch switch to either hold or toggle the alarm, if applicable, and includes a 3 ft. connect cable. This box provides a total of up to 5 alarms. The 5800/4700 refrigerated sampler's 16-pin external device connector is duplicated on this box. Not for use with pressurized line sampling system, contact factory for details.	4,311.22	213.96
46 82 83 00-3970	EA	Complete pressurized line sampling for 5800/4700 refrigerated sampler, 240 Volt AC only. (Teledyne Isco 685304005) Note: Contains pressure reduction valve (60-5314-081), 3-way 240 Volt AC actuated ball valve (60-5314-229), 5800/4700 refrigerated sampler output alarm box for 240 Volt AC 3-way ball valve (60-5314-717) and mounting plate (60-5314-475). Provides a 7.5 foot 240 Volt AC line cord and a 9 foot cable to the sampler's 16 pin external port; the port is duplicated on the output alarm box. Utilizes 1 of 4 output alarms. Not for use with 6700 or 3700 samplers, contact factory for details.	8,727.65	433.16
46 82 83 00-3971	EA	Complete pressurized line sampling for 5800/4700 refrigerated sampler, 120 Volt AC only. (Teledyne Isco 685304006) Note: Contains pressure reduction valve (60-5314-081), 3-way 120 Volt AC actuated ball valve (60-5314-082), 5800/4700 refrigerated sampler I/O alarm box for 120 Volt AC 3-way ball valve (60-5314-716) and mounting plate (60-5314-475).	7,730.46	383.66
46 82 83 00-3972	EA	SPA 1694. 2-bottle Configuration for 5800/4700 sampler. Includes two polypropylene 20-liter (5.5 gallon) rectangular bottles with caps, bottle locating deck, and modified distributor arm assembly. (Teledyne Isco 605314694)	1,161.86	57.67
46 82 83 00-3973	EA	SPA 1733. 8 bottle configuration for 5800/4700 refrigerated sampler. Specify glass or plastic bottles. 1.8 liter glass or 2 liter plastic bottles. Bottles are included. (Teledyne Isco 605314733) Note: If ordered as a kit a software enhancement must be installed.	1,486.63	73.77
46 82 83 00-3974	EA	SPA 1798. Bulkhead fitting, PTFE coated for 5800 sampler. (Teledyne Isco 605314798) Note: This fitting routes between the pump tubing and the discharge tube inside of the cooling box of the 5800, often used when sampling for trace metals. Use separate 3/8" Peek coupler 60-5304-983 and 3/8" PTFE coated strainer 60-5304-820 for related items.	395.68	19.64
46 82 83 00-3975	EA	SPA 2019. 5800 Bottle configuration for a quantity of either two or four 2-gallon rectangular plastic bottles, bottles not included. (Teledyne Isco 605324019) Note: Order bottles separately as 299-0013-07 (part number for a single bottle). Provides base, modified distributor arm, two pump tubes, and discharge tube.	974.32	48.35
46 82 83 00-3976	EA	Model 3700 Full Size Portable Sampler. Includes controller, top cover, center section, base, distributor arm, instruction manual, and pocket guide. (Teledyne Isco 683700063) Note: Excludes bottle configuration kit or pump tubing.	7,149.54	354.83
46 82 83 00-3977	EA	Model 3700 Full Size Portable Sampler with Jumbo Base. Includes controller, top cover, center section, base, instruction manual, and pocket guide. (Teledyne Isco 683700075) Note: Excludes bottle configuration kit or pump tubing.	7,474.31	370.95
46 82 83 00-3978	EA	Model 3700C Portable Compact Sampler. Includes controller, top cover, center section, base, distributor arm, instruction manual, and pocket guide. (Teledyne Isco 683700069) Note: Excludes bottle configuration kit or pump tubing.	6,568.61	326.00
46 82 83 00-3979	EA	24-bottle Configuration for 3700 Full Size Portable Sampler. Includes 24 polypropylene 1-liter bottles with caps, bottle retaining ring, and two pump tubes. (Teledyne Isco 683700064)	487.15	24.18
46 82 83 00-3980	EA	24-bottle Configuration for 3700 Full Size Portable Sampler. Includes 24 glass 350-ml bottles with caps, bottle retaining ring, and two pump tubes. (Teledyne Isco 683700065)	789.05	39.16
46 82 83 00-3981	EA	24 ProPak Configuration Kit for 3700 Full Size Portable Sampler. Includes 25 holders and caps, 1,000 1-liter bags, retaining ring, two pump tubes and instruction sheet. (Teledyne Isco 683700066)	2,090.43	103.75
46 82 83 00-3982	EA	Conversion Kit. 4-1 gallon bottle rack, bottles not included, Provides metal mounting rack insert. Order (4) 299-0601-28 for 1 gallon poly bottles or (4) 299-0012-19 and (4) 60-3004-203 for 1 gallon glass bottles. (Teledyne Isco 603704192) Note: For use with standard base (not included).	811.93	40.30
46 82 83 00-3983	EA	Single-bottle Configuration for 3700 Full Size Portable Sampler. Includes one polyethylene 2.5 gallon (10-liter) round bottle with cap, locating insert, float overflow shut-off, and two pump tubes. (Teledyne Isco 683700067)	649.55	32.24
46 82 83 00-3984	EA	Single-bottle ProPak Configuration for 3700 Full Size Portable Sampler. Includes 100 2-gallon (9-liter) ProPak bags, one holder, one O-ring, one cap, float overflow shut-off and two pump tubes. (Teledyne Isco 683700068)	834.80	41.44
46 82 83 00-3985	EA	Single-bottle Configuration for 3700 Full Size Portable Sampler with Jumbo Base. Includes one polyethylene 4-gallon round bottle with cap, float overflow shut-off and two pump tubes. (Teledyne Isco 683700074)	569.49	28.26
46 82 83 00-3986	EA	24-bottle Configuration for 3700C Compact Sampler. Includes 24 polyethylene 500-ml bottles with caps, bottle carrier, bottle retaining ring, and two pump tubes. (Teledyne Isco 683700070)	418.55	20.77
46 82 83 00-3987	EA	Single Bottle Configuration for 3700C Compact Portable Sampler. Includes one 2.5 gallon (10-liter) polyethylene bottle with cap, float shut-off, and two pump tubes. (Teledyne Isco 683700073)	649.55	32.24
46 82 83 00-3988	EA	Single Bottle Configuration for 3700C Compact Portable Sampler. Includes one 2.5-gallon (9.5-liter) glass bottle with cap, float shut-off, and two pump tubes. (Teledyne Isco 683700071)	649.55	32.24
46 82 83 00-3989	EA	Single ProPak Configuration for 3700C Compact Portable Sampler. Includes 100 2-gallon ProPak bags, one holder, one O-ring, cap, float shut-off, and two pump tubes. (Teledyne Isco 683700072)	823.37	40.86
46 82 83 00-3990	EA	3700 base with 24 wedge shaped 1 liter polypropylene bottles and caps. Includes retaining ring. (Teledyne Isco 603704033)	1,161.86	57.67
46 82 83 00-3991	EA	3700 base with 24 round 350 ml glass bottles and PTFE lined caps. Includes retaining ring. (Teledyne Isco 603704031)	1,498.06	74.36
46 82 83 00-3992	EA	4-gallon (15-liter) round polyethylene bottle with cap. (Teledyne Isco 299001305) Note: For single bottle sampling.	244.72	12.15
46 82 83 00-3993	EA	Conversion kit to adapt center section for single container sampling. Includes pump tubing and float shutoff. (Teledyne Isco 603704045) Note: Single container sampling with a 2.5 gallon glass or Nalgene bottle in a standard base requires bottle locating insert 60-3703-062.	301.89	14.98

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-3994	EA	Locating insert for 2.5 gallon single bottle sampling in standard base. (Teledyne Isco 603703062) Note: Positions single container for proper sample routing. Used with the 2700 and 3700 portable, full size sampler.	180.68	8.98
46 82 83 00-3995	EA	Bottle carrier with 24 wedge shaped 500 ml polyethylene bottles and caps (Teledyne Isco 683700030)	395.68	19.64
46 82 83 00-3996	EA	Distributor arm for 3700C (Teledyne Isco 603704135)	182.96	9.09
46 82 83 00-3997	EA	Model 3710 Full Size Portable Sampler. Includes controller, top cover, center section with float shut-off, base, instruction manual, and pocket guide. (Teledyne Isco 683710015) Note: Excludes bottle configuration kit or pump tubing.	5,688.07	282.30
46 82 83 00-3998	EA	Model 3710C Compact Portable Sampler. Includes controller, top cover, center section with float shut-off, base, instruction manual, and pocket guide. (Teledyne Isco 683710021) Note: Excludes bottle configuration kit or pump tubing.	5,061.39	251.20
46 82 83 00-3999	EA	Single-bottle Configuration for 3710 Full Size Portable Sampler. Includes one polyethylene 2.5-gallon (10-liter) round bottle with cap, locating insert, and two pump tubes. (Teledyne Isco 683710018)	649.55	32.24
46 82 83 00-4000	EA	Single-bottle Configuration for 3710 Full Size Portable Sampler. Includes one glass 2.5-gallon (9.5-liter) round bottle with cap, locating insert, and two pump tubes. (Teledyne Isco 683710017)	649.55	32.24
46 82 83 00-4001	EA	Single-bottle Configuration for 3710 Full Size Portable Sampler. Includes one polyethylene 4-gallon round bottle with cap and two pump tubes. (Teledyne Isco 683710016)	418.55	20.77
46 82 83 00-4002	EA	Single ProPak Configuration for 3710 Full Size Portable Sampler. Includes 100 2-gallon ProPak bags, one holder, one O-ring, cap, locating insert and two pump tubes. (Teledyne Isco 683710019)	834.80	41.44
46 82 83 00-4003	EA	Single-bottle Configuration for 3710C Compact Portable Sampler. Includes on polyethylene 2.5-gallon (10-liter) round bottle with cap, and two pump tubes. (Teledyne Isco 683710022)	649.55	32.24
46 82 83 00-4004	EA	Single-bottle Configuration for 3710C Compact Portable Sampler. Includes one glass 2.5-gallon (9.5-liter) round bottle with cap, and two pump tubes. (Teledyne Isco 683710020)	649.55	32.24
46 82 83 00-4005	EA	Single ProPak Configuration for 3710C Compact Portable Sampler. Includes 100 2-gallon ProPak bags, one holder, one O-ring, cap, and two pump tubes. (Teledyne Isco 683710023)	834.80	41.44
46 82 83 00-4006	EA	3710 Full-size base assembly. (Teledyne Isco 603714012)	834.80	41.44
46 82 83 00-4007	EA	1/4 inch stainless steel strainer, low flow. (Teledyne Isco 692903139)	139.53	6.93
46 82 83 00-4008	EA	1/4 inch ID vinyl suction line - 100 ft. Includes tubing coupler. (Teledyne Isco 681680055)	137.23	6.82
46 82 83 00-4009	EA	1/4 inch ID vinyl suction line - 500 ft. Includes two tubing couplers. (Teledyne Isco 681680056)	603.81	29.96
46 82 83 00-4010	EA	1/4 inch ID vinyl suction line - 1,000 ft. Includes two tubing couplers. (Teledyne Isco 681680057)	974.32	48.35
46 82 83 00-4011	EA	Tubing coupler, 1/4 inch. One-piece, clampless coupler made of stainless steel. (Teledyne Isco 603709001) Note: For 1/4 inch vinyl tubing.	48.03	2.38
46 82 83 00-4012	EA	1/4 inch ID vinyl suction line with low stainless steel strainer, 25 ft. length. Includes tubing coupler. (Teledyne Isco 603704068)	244.72	12.15
46 82 83 00-4013	EA	Silicone rubber pump tubing for Model 3700 Sampler (24 and 12 bottle sampling only), and all bottle configurations for Model 3700C Sampler. (Teledyne Isco 603704026) Note: 3700FR samplers modified for four 10-liter bottles (SPA 60-5314-012) use this pump tube, however customer must cut 1-7/8 inch from the tube for a finished length of 40-1/8 inches. Quantity 1.	73.19	3.63
46 82 83 00-4014	EA	Silicone pump tubing. For Model 3700 Full-size Sampler (24 and 12 bottle sampling only). Quantity 10. (Teledyne Isco 603700038)	731.88	36.32
46 82 83 00-4015	EA	Silicone pump tubing for Model 3700 Full-size (4 bottle sampling only) and 3700C (24 and 12 bottle sampling only) portable samplers, and 3710FR Refrigerated samplers. Quantity 1. (Teledyne Isco 603714019)	68.62	3.40
46 82 83 00-4016	EA	Silicone pump tubing for Model 3700 Full-size and 3700C single bottle sampling. Quantity 1. (Teledyne Isco 603704046)	73.19	3.63
46 82 83 00-4017	EA	Silicone pump tubing; for the Model 3710 Full-size Sampler. Quantity 1. (Teledyne Isco 603714009)	59.45	2.95
46 82 83 00-4018	EA	Silicone pump tubing for the Model 3710C Compact Sampler. Quantity 1. (Teledyne Isco 603714038)	57.17	2.83
46 82 83 00-4019	EA	1-Piece Interrogator Cable, 10 ft. (3m). (Teledyne Isco 602544044) Note: Connects 4100, 4200 Series Flow Meters and 6700 Series/Avalanche Samplers to PC with 9-pin serial data connector.	208.13	10.33
46 82 83 00-4020	EA	1-Piece Interrogator Cable, 10 ft., connects computer to sampler or flow meter. (Teledyne Isco 602544040) Note: For computer with 25-pin connector.	205.84	10.21
46 82 83 00-4021	EA	SPA 849. Nine-pin Serial Interrogator Cable for Sampler Models 6712/Avalanche/3700, built to length. (Teledyne Isco 605304849) Note: Used in applications where interrogation of the instrument is at distances greater than 10 ft., but not exceeding 200 ft.	356.80	17.70
		For Each LF Of Extension Cable, Add	*3.03*	
46 82 83 00-4022	EA	1,000 mL graduated cylinder. For precise calibration of sample volume. (Teledyne Isco 299002000)	134.95	6.70
46 82 83 00-4023	EA	Locking harness for 3710 full-size sampler. (Teledyne Isco 683700056)	226.42	11.24
46 82 83 00-4024	EA	Locking harness for 3700C and 3710C compact samplers. (Teledyne Isco 686700111)	256.15	12.71
46 82 83 00-4025	EA	Locating deck for 2-1/2 gallon bottle. For 3710 Full-size sampler. (Teledyne Isco 603713013)	116.65	5.78
46 82 83 00-4026	EA	Connect cable for external 12 Volt DC source. (Teledyne Isco 601394023) Note: Six ft. cable for powering portable Isco sampler or flow meters from an external 12 Volt DC source, such as an automotive or deep-cycle marine battery. Terminates in heavy-duty battery clips. For use with Isco GLS, 3700, 6100, 6700 Series portable samplers; 4200 Series flow meters, and 150 Portable Peristaltic Pump.	178.39	8.86
46 82 83 00-4027	EA	Isco sampler to flow meter connect cable, 25 ft. (7.6 m). (Teledyne Isco 603004107)	290.47	14.42
46 82 83 00-4028	EA	Consecutive operation (Master/Slave) cable. (Teledyne Isco 603704065) Note: Connects two Isco samplers to operate in successive order.	256.15	12.71
46 82 83 00-4029	EA	Consecutive operation (Master/Slave) 'Y' connect cable. (Teledyne Isco 603704080) Note: Connects two Isco samplers to operate in successive order and allows connection of Isco open channel flow meter for sample pacing and event logging.	340.77	16.92
46 82 83 00-4030	EA	Isco flow meter to Isco sampler 'Y' connect cable. (Teledyne Isco 603704081) Note: Allows a single Isco open channel flow meter, logger, or transmitter to flow pace two Isco samplers. Each leg of the Y-cable is 1 ft. long and connects to two Isco sampler to flow meter connect cables (60-3004-107, not included). Not for use with the Type E Interface (60-1784-024); use alternate 'Y' connect cable 60-5304-391.	395.68	19.64
46 82 83 00-4031	EA	Sampler to Isco flow meter and actuator cable. (Teledyne Isco 603004019) Note: Allows connection of Isco sampler and Isco flow meter and has additional connection for external sample initiation. Each leg of the Y-cable is 1 ft. long and connects to an Isco sampler for flow meter connect cable (60-3004-107, not included) and the Model 1640 LLA (60-1644-000, not included).	411.68	20.43
46 82 83 00-4032	EA	Non-Isco flow meter connector. Connector Only. (Teledyne Isco 681680060) Note: Allows connection of a non-Isco flow meter to an Isco sampler. The flow meter must produce a dry contact closure proportional to flow rate.	89.20	4.43
46 82 83 00-4033	EA	Non-Isco flow meter connect cable. (Teledyne Isco 601394077) Note: Allows connection of a non-Isco flow meter to an Isco sampler. The flow meter must produce a dry contact closure proportional to flow rate. Includes the connector with 22 ft. (6.7 m) of cable terminating in two wires.	146.38	7.27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4034	EA	4-20 mA input interface for 3700 Series Samplers. (Teledyne Isco 603704037) Note: Converts an analog 4-20 mA flow proportional signal to a compatible flow proportional input signal for Isco samplers. Connects directly to the sampler's flow meter connector.	425.40	21.11
46 82 83 00-4035	EA	Sampler controller for 3700 and 3700C Samplers. Includes instruction manual, pocket guide, and pump tubing. (Teledyne Isco 683700004)	5,223.79	259.25
46 82 83 00-4036	EA	3700 Sampler instruction manual (Teledyne Isco 603704101)	119.49	
46 82 83 00-4037	EA	3700 Sampler Pocket Guide (Teledyne Isco 603703149)	24.72	
46 82 83 00-4038	EA	Sampler controller for 3710 Sampler. Includes instruction manual and pump tubing. (Teledyne Isco 683710004)	4,363.83	216.57
46 82 83 00-4039	EA	3710 Sampler instruction manual (Teledyne Isco 603714041)	119.49	
46 82 83 00-4040	EA	3710 Sampler Pocket Guide (Teledyne Isco 603713036)	26.78	
46 82 83 00-4041	EA	SPA 648. Modification to 3700 series sampler for single alarm upon program complete or various run errors. (Teledyne Isco 605304648) Note: This modification allows for an alarm on the following conditions: program done, no liquid detected, distributor/pump jammed, etc. This is a combination alarm that will be activated for any of the above conditions. It will be necessary to view the display status to ascertain the exact nature of the alarm.	834.80	41.44
46 82 83 00-4042	EA	SPA 762. Ultra Low Flow 1/4-inch Stainless Steel Strainer. This strainer is equipped with a single 1/4-inch hole located on the bottom. A 2-inch wide flat plate secures the hole toward the bottom. Dimensions are 3-inches long, 2-inches wide due to flat plate and 1/2-inch high. (Teledyne Isco 605304762)	336.20	16.69
46 82 83 00-4043	EA	SPA 1079. Norprene Pump Tube for the 3700/3710 samplers. (Teledyne Isco 605314079) Note: Norprene is a black, heavy-duty pump tubing for sampling applications with strong acids or base. It is also useful where premature pump tube failures are occurring. This tubing is NOT EPA approved. Available in 50 ft. lengths only.	1,022.33	50.74
46 82 83 00-4044	EA	SPA 1836. 12-1 liter glass bottle configuration. Includes base, bottles with PTFE lined lids, bottle retaining ring, distributor arm and two pump tubes for 12 bottle sampling for the standard portable 3700. (Teledyne Isco 605314836)	1,534.66	76.16
46 82 83 00-4045	EA	SPA 1852. 12-1 liter plastic bottles, base and two pump tubes for 12 bottle sampling for the standard portable 3700. (Teledyne Isco 605314852)	1,495.78	74.24
46 82 83 00-4046	EA	SPA 977. Modify 3700 series samplers for dual alarm output. Similar to SPA 648 but has two independent alarms, one for program errors and one for program done. Form C alarm contacts accessible via a 10 foot Y cable that is included. (Teledyne Isco 605304977)	1,111.55	55.17
46 82 83 00-4047	EA	SPA 2016. SST strainer 1/4-inch. Similar to SPA 1552 but for 1/4-inch suction line. (Teledyne Isco 605324016) Note: This will affect line velocity if employed with 6712 or 5800/4700 samplers.	395.68	19.64
46 82 83 00-4048	EA	GLS Sampler with 2.5 gallon (10 liter) polypropylene bottle. (Teledyne Isco 682950001)	5,084.26	252.34
46 82 83 00-4049	EA	GLS Sampler with 2.5 gallon (9.5 liter) glass bottle. (Teledyne Isco 682950002)	5,084.26	252.34
46 82 83 00-4050	EA	GLS Sampler with 1 gallon (3.75 liter) polypropylene bottle. (Teledyne Isco 682950003)	5,084.26	252.34
46 82 83 00-4051	EA	GLS Sampler with one composite ProPak holder, 100 2-gallon (9-liter) ProPak bags, and O-ring. (Teledyne Isco 682950005)	5,363.29	266.18
46 82 83 00-4052	EA	GLS Sampler Top Cover (Teledyne Isco 602954018)	285.89	14.19
46 82 83 00-4053	EA	GLS Sampler Suspension Harness (Teledyne Isco 602954033)	75.47	3.74
46 82 83 00-4054	EA	GLS Sampler Replacement Controller (Teledyne Isco 602954001) Note: Excludes instruction manual or pump tubing.	3,412.39	169.36
46 82 83 00-4055	EA	1 gallon round polypropylene bottle with cap (Teledyne Isco 299060128)	43.46	2.16
46 82 83 00-4056	EA	GLS, GSS, and Glacier sampler update cable. (Teledyne Isco 602954021)	354.51	17.59
46 82 83 00-4057	EA	GLS Sampler Pump Tube. Quantity 1. (Teledyne Isco 602954030)	38.89	1.93
46 82 83 00-4058	EA	GLS Sampler instruction manual (Teledyne Isco 602954058)	117.43	
46 82 83 00-4059	EA	GLS Sampler Pocket Guide (Teledyne Isco 692953030)	26.78	
46 82 83 00-4060	EA	GLS Sampler Quick Reference Card (Teledyne Isco 692953033)	6.18	
46 82 83 00-4061	EA	Avalanche Sampler for AC (120/240 Volt) or external DC (12 Volt) powered applications, with attached North American AC power cord. (Teledyne Isco 682970003) Note: Includes distributor arm, instruction manual, pocket guide, two pump tubes, 12 Volt DC power cable with heavy-duty battery clips, and 12 Volt DC power cable with cigarette lighter plug.	13,004.56	645.41
46 82 83 00-4062	EA	Avalanche Sampler for AC (120/240 Volt) or external DC (12 Volt) powered applications, with attached AC power cord and European plug adapter. (Teledyne Isco 682970005) Note: Includes distributor arm, instruction manual, pocket guide, two pump tubes, 12 Volt DC power cable with heavy-duty battery clips, and 12 Volt DC power cable with cigarette lighter plug.	13,004.56	645.41
46 82 83 00-4063	EA	Avalanche 14-bottle configuration. Includes 14 polypropylene 950-ml bottles with caps, two discharge tubes, bottle carrier and adapter. (Teledyne Isco 682970001)	878.26	43.58
46 82 83 00-4064	EA	Avalanche 4-bottle configuration. Includes 4 polypropylene 5-liter bottles with caps, two discharge tubes and adapter. (Teledyne Isco 682970002)	253.86	12.60
46 82 83 00-4065	EA	Avalanche 2.5 gal (10 liter) glass bottle with PTFE lined caps. Includes two discharge tubes and adapter. (Teledyne Isco 682970006)	427.70	21.22
46 82 83 00-4066	EA	Avalanche 2.5 gal (10 liter) Nalgene bottle configuration. Includes two discharge tubes and adapter. (Teledyne Isco 682970009)	427.70	21.22
46 82 83 00-4067	EA	Avalanche 5.3 gal (20 liter) lightweight polyethylene bottle with caps. Includes two discharge tubes. (Teledyne Isco 682970008)	162.39	8.05
46 82 83 00-4068	EA	Glacier/Avalanche Mobility Kit. Includes frame with lifting handles, pneumatic tires, battery shelf, and pull handle. (Teledyne Isco 682960004)	1,235.05	61.29
46 82 83 00-4069	EA	Avalanche Distributor Arm (Teledyne Isco 602974025)	137.23	6.82
46 82 83 00-4070	EA	Avalanche 950 ml polypropylene wedge-shaped bottles with caps, quantity 14. (Teledyne Isco 682970012)	242.44	12.03
46 82 83 00-4071	EA	Avalanche 950 ml polypropylene wedge-shaped bottles with caps, quantity 100. (Teledyne Isco 682970013)	1,893.74	93.98
46 82 83 00-4072	EA	Avalanche 950 ml polypropylene wedge-shaped bottles with caps, quantity 500. (Teledyne Isco 682970015)	7,577.22	376.06
46 82 83 00-4073	EA	5.3 gallon (20 liter) lightweight polyethylene bottle with two caps - quantity 1. (Teledyne Isco 682960014)	75.47	3.74
46 82 83 00-4074	EA	Avalanche controller, includes pump tube. (Teledyne Isco 602974005)	6,721.84	333.61
46 82 83 00-4075	EA	Avalanche locking assembly. (Teledyne Isco 682970014)	253.86	12.60
46 82 83 00-4076	EA	Connect cable for external 12 Volt DC source (Teledyne Isco 602964021) Note: For powering Avalanche or Glacier Portable Refrigerated Sampler only from an external 12 Volt DC source, such as an automotive or deep-cycle marine battery. Terminates in heavy-duty battery clips.	219.57	10.89
46 82 83 00-4077	EA	Power cable for powering Avalanche or Glacier Portable Refrigerated Sampler through a vehicle cigarette lighter. (Teledyne Isco 480019900) Note: Comes with 6 ft. (1.8 m) of cable.	217.28	10.78
46 82 83 00-4078	EA	Avalanche Refrigerator only, portable dual power (120/240 Volt AC, 12 Volt DC). (Teledyne Isco 602974003)	9,379.47	465.51
46 82 83 00-4079	EA	Avalanche Refrigerator only, portable dual power (120/240 Volt AC, 12 Volt DC) with European power plug. (Teledyne Isco 622970001)	9,285.71	460.85
46 82 83 00-4080	EA	Discharge tube for 14 bottle and 4 bottle configurations (13 inches). (Teledyne Isco 602973054)	32.01	1.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4081	EA	Discharge tube for 2.5 gallon glass, Nalgene, and ProPak bottle (11-1/4 inches). (Teledyne Isco 602963033)	32.01	1.60
46 82 83 00-4082	EA	Avalanche Sampler instruction manual (Teledyne Isco 602974024)	127.73	
46 82 83 00-4083	EA	Avalanche Sampler Pocket Guide (Teledyne Isco 692973046)	26.78	
46 82 83 00-4084	EA	SPA 1501. Avalanche 12-bottle configuration. Includes 12 glass 350-ml bottles with PTFE lined caps, one discharge tube, distributor arm, bottle carrier, and adapter. (Teledyne Isco 605314501)	1,811.40	89.90
46 82 83 00-4085	EA	SPA 1511. Avalanche 4-bottle configuration. Includes 4 glass 1.8-liter bottles with PTFE lined caps, distributor arm, one discharge tube, adapter shelf, and bottle ring. (Teledyne Isco 605314511) Note: Requires controller software version 2.10.0001.	917.14	45.52
46 82 83 00-4086	EA	SPA 1842. Bulkhead fitting for Avalanche sampler, made of PEEK. (Teledyne Isco 605314842) Note: Similar to PTFE, this bulkhead fitting replaces the current fitting on new or existing Avalanche samplers. Often used when sampling for trace metals. Use separate 3/8" Peek coupler 60-5304-983 and 3/8" PTFE coated strainer 60-5304-820 for related items.	418.55	20.77
46 82 83 00-4087	EA	Glacier Sampler for AC (120/240 Volt) or external DC (12 Volt) powered applications, with North American AC power plug. (Teledyne Isco 682960001) Note: Includes instruction manual, pocket guide, two pump tubes, 12 Volt DC power cable with heavy-duty battery clips, and 12 Volt DC power cable with cigarette lighter plug.	9,633.34	478.11
46 82 83 00-4088	EA	Glacier Sampler for AC (120/240 Volt) or external DC (12 Volt) powered applications, with European AC power plug. (Teledyne Isco 682960010) Note: Includes instruction manual, pocket guide, two pump tubes, 12 Volt DC power cable with heavy-duty battery clips, and 12 Volt DC power cable with cigarette lighter plug.	9,621.91	477.53
46 82 83 00-4089	EA	Glacier 2.5 gal (10-liter) Polyethylene Nalgene bottle kit. Includes cap for sampling and cap for transport, bottle retainer (narrow), and two discharge tubes. (Teledyne Isco 682960005)	381.95	18.96
46 82 83 00-4090	EA	2.5 (10-liter) Glass bottle with PTFE lined caps. Includes PTFE-lined cap for sampling and PTFE-lined cap for transport, bottle retainer (narrow), and two discharge tubes. (Teledyne Isco 682960006)	381.95	18.96
46 82 83 00-4091	EA	Glacier 2.5 gal (10-liter) lightweight polyethylene bottle kit. Includes cap for sampling and cap for transport, bottle retainer (wide), and two discharge tubes. (Teledyne Isco 682960007)	89.20	4.43
46 82 83 00-4092	EA	5.3 gallon (20 liter) lightweight polyethylene bottle with caps. Includes cap for sampling and cap for transport, bottle retainer (narrow), and two discharge tubes. (Teledyne Isco 682960008)	157.81	7.83
46 82 83 00-4093	EA	2-gallon (9 liter) ProPak single use liner with composite holder, O-ring, and 100 liners. Includes two discharge tubes and bottle retainer (narrow). (Teledyne Isco 682960009)	590.08	29.29
46 82 83 00-4094	EA	Glacier controller, includes pump tube. (Teledyne Isco 602964004)	4,157.98	206.36
46 82 83 00-4095	EA	Glacier locking assembly. (Teledyne Isco 682960011)	226.42	11.24
46 82 83 00-4096	EA	Glacier Refrigerator only, portable dual power (120/240 Volt AC, 12 Volt DC) with North American power plug. (Teledyne Isco 602964003)	6,884.24	341.66
46 82 83 00-4097	EA	Glacier Refrigerator only, portable dual power (120/240 Volt AC, 12 Volt DC) with European power plug. (Teledyne Isco 682960012)	6,815.62	338.27
46 82 83 00-4098	EA	Discharge tube for 2-1/2 gallon rectangular and 5 gallon rectangular light polyethylene bottle (5-1/4 inches long). (Teledyne Isco 602963034)	32.01	1.60
46 82 83 00-4099	EA	Silicone rubber pump tubing, for Glacier Sampler. Quantity 1. (Teledyne Isco 602964013)	48.03	2.38
46 82 83 00-4100	EA	Glacier Sampler instruction manual (Teledyne Isco 602964032)	119.49	
46 82 83 00-4101	EA	Glacier Sampler Pocket Guide (Teledyne Isco 692963018)	26.78	
46 82 83 00-4102	EA	SPA 1523. PTFE Sleeve for Glacier Temperature Sensor. (Teledyne Isco 605314523) Note: Provides a measure of protection for customers concerned about cross contamination between sample events.	228.71	11.36
46 82 83 00-4103	EA	SPA 1637.Bulkhead fitting for Glacier sampler, made of PEEK. (Teledyne Isco 605314637) Note: Similar to PTFE, this bulkhead fitting replaces the current fitting on new or existing Glacier samplers. Often used when sampling for trace metals. Use separate 3/8" Peek coupler 60-5304-983 and 3/8" PTFE coated strainer 60-5304-820 for related items.	457.43	22.70
46 82 83 00-4104	EA	3700ZR Sampler (UL Rated Class I Div 1) with 1 Glass 2.5 Gallon Bottle. (Teledyne Isco 683740038)	80,049.19	3,972.84
46 82 83 00-4105	EA	3700ZR Sampler (UL Rated Class I Div 1) with 1 Plastic 2.5 Gallon Bottle. (Teledyne Isco 683740037)	80,049.19	3,972.84
46 82 83 00-4106	EA	3700ZR Sampler (UL Rated Class I Div 1) with 2 glass 2.5 Gallon bottles. (Teledyne Isco 683740036)	80,049.19	3,972.84
46 82 83 00-4107	EA	3700ZR Sampler (UL Rated Class I Div 1) with 2 Plastic 2 Gallon Bottles. (Teledyne Isco 683740035)	80,049.19	3,972.84
46 82 83 00-4108	EA	ProPak kit. Includes 25 holders with caps, 1,000 bags, retaining ring, and instruction sheet (Teledyne Isco 686700085)	2,030.96	100.80
46 82 83 00-4109	EA	ProPak kit. Includes 25 Holders with PTFE lined caps, 1,000 bags, retaining ring, and instruction sheet (Teledyne Isco 686700086)	2,390.04	118.62
46 82 83 00-4110	EA	24 ProPak holders with PTFE lined caps (Teledyne Isco 686700088)	569.49	28.26
46 82 83 00-4111	EA	100 ProPak holders with caps (Teledyne Isco 686700089)	1,089.47	54.07
46 82 83 00-4112	EA	200 ProPak holders with caps (Teledyne Isco 686700090)	2,808.58	139.39
46 82 83 00-4113	EA	500 ProPak holders with caps (Teledyne Isco 686700091)	6,337.61	314.53
46 82 83 00-4114	EA	200 ProPak caps with foam liner (Teledyne Isco 606700092)	203.55	10.10
46 82 83 00-4115	EA	500 ProPak caps with foam liner (Teledyne Isco 606700093)	521.46	25.88
46 82 83 00-4116	EA	200 ProPak caps with PTFE liners (Teledyne Isco 606700094)	800.50	39.73
46 82 83 00-4117	EA	500 ProPak caps with PTFE liners (Teledyne Isco 606700095)	1,944.05	96.48
46 82 83 00-4118	EA	ProPak disposable bags, 1-liter polyethylene - quantity 5,000. (Teledyne Isco 686700097)	5,804.71	288.09
46 82 83 00-4119	EA	ProPak disposable bags, 1-liter polyethylene - quantity 10,000. (Teledyne Isco 686700098)	9,285.71	460.85
46 82 83 00-4120	EA	Instruction sheet ProPak sample bags (Teledyne Isco 609003494)	2.06	
46 82 83 00-4121	EA	ProPak Holder and cap (Teledyne Isco 686700104)	25.16	1.25
46 82 83 00-4122	EA	SPA 1530. Custom ProHanger for up to 36" inch maximum manhole, custom built, state desired 6" span when ordering (Teledyne Isco 605314530)	2,042.40	101.36
46 82 83 00-4123	EA	581 Rapid Transfer Device (RTD). (Teledyne Isco 686700056) Note: Includes instruction manual, and power/data transfer cable to connect and power 581 RTD during data transfer to a PC. Power/data transfer cable powered by 120 Volt AC. Requires Flowlink software.	1,649.01	81.85
46 82 83 00-4124	EA	581 Rapid Transfer Device only. Without power/data transfer cable. Includes instruction manual. (Teledyne Isco 609004027)	1,381.43	68.55
46 82 83 00-4125	EA	SPA 1639. Power/data transfer cable only. (Teledyne Isco 605314639) Note: To connect and power a 581 RTD during data transfer to a PC with a USB port. Powered by 120 VAC.	709.01	35.19
46 82 83 00-4126	EA	Power/data transfer cable only. (Teledyne Isco 609004077) Note: To connect and power 581 RTD during data transfer to a PC with a DB-9 pin serial port. Powered by 120 VAC.	370.52	18.39
46 82 83 00-4127	EA	Silicone rubber pump tubing, for 24 or 8 bottle sampling applications. Quantity 1. (Teledyne Isco 603704043)	89.20	4.43
46 82 83 00-4128	EA	Silicone rubber pump tubing, for 2 bottle sampling applications. Quantity 1. (Teledyne Isco 603704053)	80.04	3.98
46 82 83 00-4129	EA	Silicone rubber pump tubing for single bottle sampling in Model 3700R or 3710R. Quantity 1. (Teledyne Isco 603714018)	70.90	3.51

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4130	EA	Silicone rubber pump tubing, for 24 or 8 bottle sampling. Quantity 1. (Teledyne Isco 603704044)	91.49	4.54
46 82 83 00-4131	EA	Silicone rubber pump tubing, for 2 bottle sampling. Quantity 1. (Teledyne Isco 603704056)	80.04	3.98
46 82 83 00-4132	EA	Desiccant, 4 ounce Tyvek bag. Used in GLS, Glacier, 3700 Series samplers (two large internal bags); 4100 Series Flow Loggers; 201 and 270 parameter modules; AccQcomm modules and ADFM Pro-20 Canisters. (Teledyne Isco 99000208)	18.30	
46 82 83 00-4133	EA	Desiccant, large filled plastic cartridge. Used on 4230 reference air line. (Teledyne Isco 609004282)	144.10	7.15
46 82 83 00-4134	EA	Desiccant, bulk 16 ounce bottle of loose yellow silica gel beads (2 to 5 mm). (Teledyne Isco 602004233) Note: Used in 2100 Series module desiccant tubes, 4200 Series flow meters, and ADFM secondary depth sensors.	109.77	5.44
46 82 83 00-4135	LF	SPA 580. Cut to length 1/4" ID vinyl suction line. (Teledyne Isco 605304580) Note: Not for use with 6700/6712 or 5800/4700 samplers. 200' maximum length.	2.05	0.10
46 82 83 00-4136	EA	SPA 1835. Old style 3/8 inch stainless steel strainer. Single piece stainless steel strainer. 7 inches long, 3/4 inches in diameter. (Teledyne Isco 605314835)	395.68	19.64
46 82 83 00-4137	EA	Signature® Ultrasonic flow meter system. Starting price includes base meter 624300005, TIENet 310 ultrasonic level sensor with 32.8 ft (10 m) cable, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. (Teledyne Isco 684310000) Note: Includes mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.	7,204.43	357.56
46 82 83 00-4138	EA	Wall mount bracket for 710, 2110, 3010, 4210, and TIENet® 310 Ultrasonic level sensors. (Teledyne Isco 602003615)	75.47	3.74
46 82 83 00-4139	EA	Floor mount hardware for 710, 2110, 3010, 4210, and TIENet® 310 Ultrasonic level sensors. (Teledyne Isco 602004611)	1,056.65	52.45
46 82 83 00-4140	EA	Ultrasonic sensor cable straightener. Recommended when suspending sensor over the flow stream. (Teledyne Isco 604313009) Note: Attaches to sensor to straighten the cable.	132.65	6.59
46 82 83 00-4141	EA	Horizontal sensor mount bracket for TIENet 310 Ultrasonic level. (Teledyne Isco 604368020)	180.68	8.98
46 82 83 00-4142	EA	Ultrasonic sensor sunshade. Shades ultrasonic sensor from direct sunlight in outdoor applications. (Teledyne Isco 603004142)	162.39	8.05
46 82 83 00-4143	EA	Ultrasonic calibration target. Includes target, six 2-1/2 ft. pole sections, and instructions. (Teledyne Isco 603004143) Note: Allows calibration of ultrasonic level measurement without entering the manhole.	1,475.18	73.21
46 82 83 00-4144	EA	Ultrasonic sensor cable clamp. (Teledyne Isco 603004129) Note: For hanging sensor from spreader bar 603004110 or other horizontal pipe no greater than 1-1/8 inch O.D.	210.42	10.44
46 82 83 00-4145	EA	Battery backup kit for Signature® meter. Includes model 946 lead-acid battery, adapter cable, and mounting hardware. (Teledyne Isco 604307015)	546.62	27.13
46 82 83 00-4146	EA	Power cord, 8 foot (2.5 m) long, for North America. Includes cord grip fitting (604304022). (Teledyne Isco 604304044)	57.17	2.83
46 82 83 00-4147	EA	Power cord, 8 foot (2.5 m) long, for Europe. Includes cord grip fitting (604307022). (Teledyne Isco 604304045)	57.17	2.83
46 82 83 00-4148	EA	Power cord, 8 foot (2.5 m) long, for China. Includes cord grip fitting (604307022). (Teledyne Isco 604304046)	57.17	2.83
46 82 83 00-4149	EA	Power cord, 8 foot (2.5 m) long, for United Kingdom. Includes cord grip fitting (604307022). (Teledyne Isco 604304047)	57.17	2.83
46 82 83 00-4150	EA	Power cord, 8 foot (2.5 m) long, for Australia. Includes cord grip fitting (604307022). (Teledyne Isco 604304048)	57.17	2.83
46 82 83 00-4151	EA	Power cord, 8 foot (2.5 m) long, for Argentina. Includes cord grip fitting (604307022). (Teledyne Isco 604304049)	57.17	2.83
46 82 83 00-4152	EA	TIENet® 304 contact output option card, two isolated independent Form C relay circuits. (Teledyne Isco 604304069)	601.52	29.85
46 82 83 00-4153	EA	TIENet® 307 analog 4-20 mA input option card, two isolated independent channels. (Teledyne Isco 604304054)	958.30	47.56
46 82 83 00-4154	EA	TIENet® 308 analog 4-20 mA output option card, two independent channels. (Teledyne Isco 604304006)	738.73	36.67
46 82 83 00-4155	EA	TIENet® 306 sampler interface cable with 32 ft (10 m) long cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter. Connects to six-pin flow meter port to support sampler pacing and enable functions. (Teledyne Isco 604304007) Note: Interfacing with a 5800/4700 refrigerated sample will require six-pin adapter 60-5314-697, ordered separately.	924.00	45.86
46 82 83 00-4156	EA	TIENet® 306 sampler interface cable with 75 ft (23 m) long cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter. Connects to six-pin flow meter port to support sampler pacing and enable functions. (Teledyne Isco 604304008) Note: Interfacing with a 5800/4700 refrigerated sample will require six-pin adapter 60-5314-697, ordered separately.	1,132.12	56.18
46 82 83 00-4157	EA	TIENet® 306 Sampler Interface with cut-to-length cable. (Teledyne Isco 604304088) Note: Interface cable is unterminated. Supports flow pacing and sampler enabling.	914.84	45.41
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4158	EA	TIENet® 301 pH and temperature sensor interface with 32 ft (10 m) long cable. Includes pH and temperature sensor (60-9004-126) with 25 ft (7.6 m) cable, calibration buffers and electrode rinse solution for initial commissioning. Also includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter. (Teledyne Isco 604307018)	2,703.38	134.17
46 82 83 00-4159	EA	TIENet ® 301 pH and temperature sensor interface with 75 ft (23 m) long cable. Includes pH and temperature sensor (60-9004-126) with 25 ft (7.6 m) cable, calibration buffers and electrode rinse solution for initial commissioning. Also includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter. (Teledyne Isco 604307019)	2,911.50	144.51
46 82 83 00-4160	EA	TIENet ® 301 pH and temperature sensor interface and cut-to-length cable with unterminated end. Includes pH and temperature sensor (60-9004-126) with 25 ft (7.6 m) cable, calibration buffers and electrode rinse solution for initial commissioning. Also includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter in non-conduit applications. (Teledyne Isco 604307025)	2,703.38	134.17
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4161	EA	pH probe carrier to attach probe to Isco mounting rings or sensor mounting plate. (Teledyne Isco 603208001)	242.44	12.03
46 82 83 00-4162	EA	CDMA cellular modem with magnetic mount antenna for Signature® meter. (Teledyne Isco 604307074) Note: Serial-Over-Internet-protocol (SOIP) technology eliminates need for computer telephone modems. Requires Verizon service. Contact the factory for details regarding Verizon service requirements.	2,049.26	101.71
46 82 83 00-4163	EA	GSM cellular modem with magnetic mount antenna for Signature® meter. (Teledyne Isco 604307075) Note: Contact the factory for details regarding GSM service requirements. Region A	2,049.26	101.71
46 82 83 00-4164	EA	GSM cellular modem with magnetic mount antenna for Signature® meter. (Teledyne Isco 604307090) Note: Contact the factory for details regarding GSM service requirements. Region B	2,049.26	101.71
46 82 83 00-4165	EA	Ethernet communication module. (Teledyne Isco 604307016) Note: Provides RJ45 connection to support Ethernet communications.	347.65	17.25
46 82 83 00-4166	EA	Internal seven digit mechanical totalizer. (Teledyne Isco 604304015) Note: Non-resettable totalizer reads cumulative total flow. Factory installation recommended.	265.31	13.16

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4167	EA	Rain Gauge Receptacle connection only with 0.305 m (1 ft) cable. Includes three-hold cord grip fitting. (Teledyne Isco 604304055) Note: Order rain gauge separately. This receptacle allows quick connection to a Teledyne Isco standard rain gauge plug.	242.44	12.03
46 82 83 00-4168	EA	Kit Cord Grip with pigtail strain relief for cable diameters from 0.250 to 0.485 inches (6.35 to 12.3 mm). (Teledyne Isco 604307022) Note: For Signature® line cords and user-supplied cables within this diameter range.	22.87	1.13
46 82 83 00-4169	LF	TIENet® bulk cable, cut to length, 999 ft (304 m) maximum. (Teledyne Isco 604304050) Note: Specify total length in feet. Price = per foot price x cable length.	4.80	0.24
46 82 83 00-4170	EA	TIENet® Network Expansion Box, with 10 ft (3.05 m) TIENet® cable which connects to a Signature® meter or another TIENet Network Expansion Box in a daisy-chain configuration. Rated IP 67 (NEMA 4X, 6). The expansion box supports multiple connections at its internal terminal connections. (Teledyne Isco 604307023) Note: Connections may be routed through three available ports. A TIENet® Option Card may also be mounted in the expansion box. An option card limits the available ports to one. May be used with conduit or cable connections. If installed with cable connections, order cord grip fittings as needed. The expansion box includes two plugs for unused ports.	809.64	40.19
46 82 83 00-4171	EA	TIENet® 310 Ultrasonic Sensor. 10 ft (3.05 m) measurement range with 32 ft (10 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter. (Teledyne Isco 604314005) Note: Suitable for monitoring flows in Group II, Category 2 Zone 1, Gas Group IIB hazardous areas when connected to the Signature through the SPA 2060 TIENet barrier.	2,287.13	113.51
46 82 83 00-4172	EA	TIENet® 310 Ultrasonic Sensor. 10 ft (3.05 m) measurement range with 75 ft (23 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter. (Teledyne Isco 604314006) Note: Suitable for monitoring flows in Group II, Category 2 Zone 1, Gas Group IIB hazardous areas when connected to the Signature through the SPA 2060 TIENet barrier.	2,481.53	123.16
46 82 83 00-4173	EA	TIENet® 310 Ultrasonic Level sensor with cut to length cable and unterminated cable end. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature® meter in non-conduit applications. (Teledyne Isco 604314014) Note: Suitable for monitoring flows in Group II, Category 2 Zone 1, Gas Group IIB hazardous areas when connected to the Signature through the SPA 2060 TIENet barrier.	2,287.13	113.51
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4174	EA	Magnetic mount dual band antenna for CDMA and GSM cellular modems. (Teledyne Isco 602004550)	434.55	21.57
46 82 83 00-4175	EA	TIENet® 301 pH and temperature sensor interface with 32 ft (10 m) long cable. (Teledyne Isco 604304018) Note: Excludes pH sensor, buffers, and solutions.	1,813.69	90.01
46 82 83 00-4176	EA	TIENet® 301 pH and temperature sensor interface with 75 ft (23 m) long cable. (Teledyne Isco 604304019) Note: Excludes pH sensor, buffers, and solutions.	2,021.82	100.34
46 82 83 00-4177	EA	TIENet® 301 pH and temperature sensor interface with 5 m (16.4 ft) long cable. (Teledyne Isco 604304051) Note: Excludes pH sensor, buffers, and solutions.	1,745.07	86.62
46 82 83 00-4178	EA	pH sensor calibration buffer, pH 4.0. (Teledyne Isco 479000104)	14.42	
46 82 83 00-4179	EA	pH sensor calibration buffer, pH 7.0. (Teledyne Isco 479000107)	14.42	
46 82 83 00-4180	EA	pH sensor calibration buffer, pH 10.0. (Teledyne Isco 479000110)	14.42	
46 82 83 00-4181	EA	pH sensor electrode rinse solution. (Teledyne Isco 479001000)	14.42	
46 82 83 00-4182	EA	USB cable, 6.5 feet (2 m). USB A to USB Micro-B for computer connection to Signature® meter. (Teledyne Isco 480294601)	59.45	2.95
46 82 83 00-4183	EA	USB cable, 3 inch (75 mm). USB micro-A to USB A for USB flash drive connection to Signature® meter. (Teledyne Isco 480294602)	59.45	2.95
46 82 83 00-4184	EA	TIENet® Receptacle, standard 1 ft (0.305 m) length. (Teledyne Isco 604304056) Note: Provides a TIENet receptacle to which compatible devices with a TIENet plug may be attached.	228.71	11.36
46 82 83 00-4185	EA	TIENet® Receptacle, cut-to-length. (Teledyne Isco 604304068) Note: Provides a TIENet receptacle to which compatible devices with a TIENet plug may be attached.	240.15	11.92
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4186	EA	12 Volt DC, 1' power cord with cord grip fitting (Teledyne Isco 604304086) Note: Includes connector for use with Teledyne Isco battery and power packs.	244.72	12.15
46 82 83 00-4187	EA	Signature® Base Meter. (Teledyne Isco 624300005) Note: Excludes a flow technology and configured options which must be ordered separately when not ordered as a system.	4,917.31	244.05
46 82 83 00-4188	EA	Signature® Bubbler flow meter system. 624330003 base meter with internal bubbler, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. (Teledyne Isco 684330000) Note: Includes mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.	8,462.34	419.99
46 82 83 00-4189	EA	TIENet® 330 Bubbler Module (Teledyne Isco 604334003)	3,087.61	153.23
46 82 83 00-4190	EA	Stainless Steel Bubble Tube. (Teledyne Isco 601704018) Note: For use with 1/16 inch ID PTFE bubble line.	102.91	5.11
46 82 83 00-4191	EA	1/8 inch x 50 ft. vinyl bubble line. (Teledyne Isco 601873044)	82.33	4.09
46 82 83 00-4192	EA	1/16 inch x 25 ft. PTFE bubble line. (Teledyne Isco 601873051)	144.10	7.15
46 82 83 00-4193	EA	Reference port tubing kit. (Teledyne Isco 604307017) Note: Includes tubing and adapters to relocate the atmospheric pressure reference port.	121.22	6.01
46 82 83 00-4194	EA	TIENet® 350 Area Velocity sensor. 10 ft (3.0 m) measurement range with 32 ft (10 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight sensor cable connection to the Signature® meter. (Teledyne Isco 604354013) Note: The Signature meter must have a desiccator installed for proper operation. Order 604304092 if needed.	4,002.46	198.64
46 82 83 00-4195	EA	TIENet® 350 Area Velocity sensor. 10 ft (3.0 m) measurement range with 75 ft (23 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight sensor cable connection to the Signature® meter. (Teledyne Isco 604354014) Note: The Signature meter must have a desiccator installed for proper operation. Order 604304092 if needed.	4,196.86	208.29
46 82 83 00-4196	EA	TIENet® 350 Area Velocity sensor. 10 ft (3.0 m) measurement range with cut-to-length cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight sensor cable connection to the Signature® meter in non-conduit applications. (Teledyne Isco 604354026) Note: The Signature meter must have a desiccator installed for proper operation. Order 60-4304-092 if needed.	4,002.46	198.64
		For Each LF Of Extension Cable, Add	*4.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4197	EA	TIENet® Network Expansion Box with Desiccator, with 10 ft (3.05 m) TIENet® cable which connects to a Signature® meter or another TIENet Network Expansion Box in a daisy-chain configuration. Rated IP 67 (NEMA 4X, 6). (Teledyne Isco 604357018)	878.26	43.58
		Note: The expansion box supports multiple connections at its internal terminal connections. Connections may be routed through three available ports. A TIENet® Option Card may also be mounted in the expansion box. An option card limits the available ports to one. May be used with conduit or cable connections. If installed with cable connections, order cord grip fittings as needed. The desiccator supports TIENet devices which require reference air. The expansion box includes two plugs for unused ports.		
46 82 83 00-4198	EA	Dessicator for Signature Flow Meter (Teledyne Isco 604304092)	253.86	12.60
46 82 83 00-4199	EA	6 inch metering insert without pump and poles. Metering insert with round orifice flow section and attachable 60 degree V-notch weir plate. Supplied with right angle insertion tube, inflation/bubbler hose, and instruction manual. (Teledyne Isco 603234031)	1,294.51	64.25
46 82 83 00-4200	EA	8 inch metering insert without pump and poles. Metering insert with round orifice flow section and attachable 60 degree V-notch weir plate. Supplied with right angle insertion tube, inflation/bubbler hose, and instruction manual. (Teledyne Isco 603234032)	1,294.51	64.25
46 82 83 00-4201	EA	10 inch metering insert without pump and poles. Metering insert with round orifice flow section and attachable 60 degree V-notch weir plate. Supplied with right angle insertion tube, inflation/bubbler hose, and instruction manual. (Teledyne Isco 603234033)	1,294.51	64.25
46 82 83 00-4202	EA	12 inch metering insert without pump and poles. Metering insert with round orifice flow section and attachable 60 degree V-notch weir plate. Supplied with right angle insertion tube, inflation/bubbler hose, and instruction manual. (Teledyne Isco 603234034)	1,294.51	64.25
46 82 83 00-4203	EA	Signature® Base Meter With Desiccant Cartridge. (Teledyne Isco 624330003)	5,374.74	266.74
		Note: Excludes internal bubbler level sensor assembly, bubble tube, bubble line, and configured options which must be ordered separately when not ordered as a system.		
46 82 83 00-4204	EA	Signature® Area Velocity flow meter system with base meter 624300005, TIENet 350 area velocity sensor with 32.8 ft (10 m) cable, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. (Teledyne Isco 684350000)	9,148.47	454.04
		Note: includes mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.		
46 82 83 00-4205	EA	Signature® Base Meter. Base meter includes desiccant cartridge. (Teledyne Isco 624350013)	5,146.02	255.40
		Note: Excludes flow technology and configured options which must be ordered separately when not ordered as a system.		
46 82 83 00-4206	EA	Signature® LaserFlow system with base meter 624350013, TIENet 360 LaserFlow sensor with built-in ultrasonic level sensor and 32.8 ft (10 m) cable, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. (Teledyne Isco 684360060)	26,416.24	1,311.04
		Note: Includes mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.		
46 82 83 00-4207	EA	Permanent wall mount for TIENet® 360 LaserFlow™ sensor. (Teledyne Isco 604364003)	1,358.56	67.43
46 82 83 00-4208	EA	Temporary Mount Kit for TIENet® 360 LaserFlow™ 48 - 55 in (122 - 140 cm) (Teledyne Isco 624360032)	1,555.25	77.19
46 82 83 00-4209	EA	Temporary Mount Kit for TIENet® 360 LaserFlow™ 54 - 66 in (137 - 167 cm) (Teledyne Isco 624360034)	1,555.25	77.19
46 82 83 00-4210	EA	Temporary Mount Kit for TIENet® 360 LaserFlow™ 63 - 84 in (160 - 213 cm) (Teledyne Isco 624360035)	1,555.25	77.19
46 82 83 00-4211	EA	Temporary Mount Kit for TIENet® 360 LaserFlow™ 83 - 114 in (211 - 289 cm) (Teledyne Isco 624360036)	1,555.25	77.19
46 82 83 00-4212	EA	Sensor Retrieval Tool (Teledyne Isco 604364033)	464.28	23.05
46 82 83 00-4213	EA	TIENet® 350 Area Velocity Sensor Surcharge Kit. Includes sensor with short cable to connect to the TIENet 360 LaserFlow sensor and mounting hardware. (Teledyne Isco 604354017)	4,208.30	208.85
46 82 83 00-4214	EA	LaserFlow sensor sun shade (Teledyne Isco 604364080)	1,184.72	58.79
46 82 83 00-4215	EA	TIENet® 310 Ultrasonic Level sensor with 32.8 ft (10 m) cable with TIENet plug. For use with Signature® portable flow meters and as a remote level sensor for the TIENet 360 LaserFlow™ sensor. Suitable for monitoring flows in Group II, Category 2 Zone 1, Gas Group IIB hazardous areas when connected to the Signature through the SPA 2060 TIENet barrier. (Teledyne Isco 604314009)	2,515.84	124.86
46 82 83 00-4216	EA	TIENet® 310 Ultrasonic Level sensor with 75 ft (23 m) cable with TIENet plug. For use with Signature® portable flow meters and as a remote level sensor for the TIENet 360 LaserFlow™ sensor. Suitable for monitoring flows in Group II, Category 2 Zone 1, Gas Group IIB hazardous areas when connected to the Signature through the SPA 2060 TIENet barrier. (Teledyne Isco 604314011)	2,710.24	134.51
46 82 83 00-4217	EA	TIENet® 310 Ultrasonic Level sensor with cut to length cable with TIENet plug. For use with Signature® portable flow meters and as a remote level sensor for the TIENet 360 LaserFlow™ sensor. Suitable for monitoring flows in Group II, Category 2 Zone 1, Gas Group IIB hazardous areas when connected to the Signature through the SPA 2060 TIENet barrier. (Teledyne Isco 604314013)	2,515.84	124.86
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4218	EA	TIENet® 360 LaserFlow™ Sensor with 10 ft (3.05 m) measurement range with built-in ultrasonic level sensor and 32 ft (10 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature meter. (Teledyne Isco 684360061-ISCO3106)	21,270.21	1,055.64
46 82 83 00-4219	EA	TIENet® 360 LaserFlow™ Sensor with 10 ft (3.05 m) measurement range with built-in ultrasonic level sensor, Surcharge AV sensor and 32 ft (10 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature meter. (Teledyne Isco 684360061-ISCO3110)	25,249.81	1,253.15
46 82 83 00-4220	EA	TIENet® 360 LaserFlow™ Sensor. 10 ft (3.05 m) measurement range with 32 ft (10 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature meter. The connector to connect remote Ultrasonic sensor is included. (Teledyne Isco 684360061-ISCO3108)	18,411.31	913.75
		Note: The remote Ultrasonic is not included and must be purchased separately.		
46 82 83 00-4221	EA	TIENet® 360 LaserFlow™ Sensor with Surcharge AV. 10 ft (3.05 m) measurement range with 32 ft (10 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature meter. The connector to connect remote Ultrasonic sensor is included. (Teledyne Isco 684360061-ISCO3112)	22,390.91	1,111.26
		Note: The remote Ultrasonic is not included and must be purchased separately.		
46 82 83 00-4222	EA	TIENet® 360 LaserFlow™ Sensor with 10 ft (3.05 m) measurement range with built-in ultrasonic level sensor and 75 ft (23 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature meter. (Teledyne Isco 684360061-ISCO3107)	21,464.63	1,065.29
46 82 83 00-4223	EA	TIENet® 360 LaserFlow™ Sensor with 10 ft (3.05 m) measurement range with built-in ultrasonic level sensor, Surcharge AV, and 75 ft (23 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature meter. (Teledyne Isco 684360061-ISCO3111)	25,444.20	1,262.80
46 82 83 00-4224	EA	TIENet® 360 LaserFlow™ Sensor. 10 ft (3.05 m) measurement range with 75 ft (23 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature meter. The connector to connect remote Ultrasonic sensor is included. (Teledyne Isco 684360061-ISCO3109)	18,605.72	923.40
		Note: The remote Ultrasonic is not included and must be purchased separately.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4225	EA	TIENet® 360 LaserFlow™ Sensor with surcharge AV. 10 ft (3.05 m) measurement range with 75 ft (23 m) cable. Includes one TIENet cord grip fitting (209-0073-12) for watertight connection to the Signature meter. The connector to connect remote Ultrasonic sensor is included. (Teledyne Isco 684360061-ISCO3113)	22,585.31	1,120.91
		Note: The remote Ultrasonic is not included and must be purchased separately.		
46 82 83 00-4226	EA	Signature® LaserFlow Sensor ONLY for spare/replacement with TIENet 360 LaserFlow sensor with built-in ultrasonic level sensor and 32.8 ft (10 m) cable. (Teledyne Isco 684360061)	21,270.21	1,055.64
		Note: Includes sensor accesories.		
46 82 83 00-4227	EA	Signature® Base Station system with base station 624300005, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. (Teledyne Isco 684300000)	4,917.31	244.05
		Note: Includes mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.		
46 82 83 00-4228	EA	Mounting Plate for the Signature Base Meter (Teledyne Isco 604303043)	50.31	2.50
46 82 83 00-4229	EA	Spring Ring for 6 inch diameter pipe (Teledyne Isco 683200007)	217.28	10.78
46 82 83 00-4230	EA	Spring Ring for 8 inch diameter pipe (Teledyne Isco 683200008)	217.28	10.78
46 82 83 00-4231	EA	Spring Ring for 10 inch diameter pipe (Teledyne Isco 683200009)	217.28	10.78
46 82 83 00-4232	EA	Spring Ring for 12 inch diameter pipe (Teledyne Isco 683200010)	217.28	10.78
46 82 83 00-4233	EA	Spring Ring for 15 inch diameter pipe (Teledyne Isco 683200011)	217.28	10.78
46 82 83 00-4234	EA	Scissors Ring for 16 inch to 23 inch diameter pipes. Includes base section, scissors mechanism, and one pair of 7.5 inch extensions. (683000042)	1,136.70	56.42
46 82 83 00-4235	EA	Scissors Ring for 16 inch to 36 inch diameter pipes. Includes base section, scissors mechanism, one pair of 7.5 inch extensions, and one pair of 20 inch extensions. (Teledyne Isco 683000043)	1,438.60	71.39
46 82 83 00-4236	EA	Scissors Ring for 39 inch to 43 inch diameter pipes. Includes base section, scissors mechanism, one pair of 7.5 inch extensions, and one pair of 30 inch extensions. (Teledyne Isco 683000044)	1,509.51	74.92
46 82 83 00-4237	EA	Scissors Ring for 45 inch to 49 inch diameter pipes Includes base section, scissors mechanism, one pair of 7.5 inch extensions, and one pair of 40 inch extensions. (Teledyne Isco 683000045)	1,555.25	77.19
46 82 83 00-4238	EA	Scissors Ring for 50 inch to 54 inch diameter pipes. Includes base section, scissors mechanism, one pair of 7.5 inch extensions, one pair of 20 inch extensions, and one pair of 30 inch extensions. (Teledyne Isco 683000061)	1,694.75	84.12
46 82 83 00-4239	EA	Scissors Ring for 58 to 62 inch diameter pipes. Includes base section, scissors mechanism, one pair of 7.5 inch extensions, and two pairs of 30 inch extensions. (Teledyne Isco 683000046)	1,811.40	89.90
46 82 83 00-4240	EA	Scissors Ring for 72 inch diameter pipes. Includes base section, scissors mechanism, one pair of 7.5 inch extensions and two pairs of 40 inch extensions. (Teledyne Isco 683000047)	1,925.75	95.57
46 82 83 00-4241	EA	Scissors Ring for 16 inch to 80 inch diameter pipes. Includes base section, scissors mechanism, one pair of 7.5 inch extensions, one pair of 20 inch extensions, one pair of 30 inch extensions, and one pair of 40 inch extensions. (Teledyne Isco 683000048)	2,227.65	110.56
46 82 83 00-4242	EA	Sensor mounting plate. Flat plate for mounting up to 3 sensors in rectangular, trapezoidal or irregular channels. Includes plastic ties to fasten the sensor cable, and installation instructions. (Teledyne Isco 603004196)	203.55	10.10
		Note: Requires carriers for low profile area velocity sensors, submerged probes, pH probes, temperature probes, bubble lines, D.O. sensors, and pH sensors. Not recommended for ADFM/accQmin sensors.		
46 82 83 00-4243	EA	Spreader bar. To suspend flow meter or logger in manhole. Adjusts from 22.5 inch to 48 inch. (Teledyne Isco 603004110)	811.93	40.30
46 82 83 00-4244	EA	Cable joiner, IP68 rated. Includes three position terminal block and sealed housing suitable for making connections to the 2105 Universal Cable or other unterminated wires (14 AWG max). Assembled dimensions are 1.5 inches (38 mm) diameter by 4.25 inches (105 mm) length. (Teledyne Isco 602007580)	150.95	7.49
46 82 83 00-4245	LF	Cable, two conductor, 18 gauge with PVC jacket. (Teledyne Isco 480024200)	2.29	0.11
		Note: Compatible with three-hole cord grip fitting 604304080.		
46 82 83 00-4246	LF	Cable, three conductor, 22 gauge with PVC jacket. (Teledyne Isco 480144601)	2.29	0.11
		Note: Compatible with three-hole cord grip fitting 604304080.		
46 82 83 00-4247	EA	Cord grip fitting for cable diameters from 0.250 to 0.375 inches (6.35 to 9.53 mm). (Teledyne Isco 209007311)	48.03	2.38
		Note: For user-supplied cables within this diameter range.		
46 82 83 00-4248	EA	Three-hole cord grip fitting. Cable diameter range: 0.20 to 0.23 in (5.0 to 5.84 mm). (Teledyne Isco 604304080)	48.03	2.38
46 82 83 00-4249	EA	SPA 2018. External TIENet® bubbler module. (Teledyne Isco 605324018)	4,002.46	198.64
		Note: Order bubble tube, bubble line, and other accessories separately. Order TIENet bulk cable as necessary to support remote operation.		
46 82 83 00-4250	EA	SPA 2023. Cut To Length Remote Totalizer Output Modification for Signature Series Flow Meter. Includes cut to length output cable, cord grip from Signature® meter and cord grip for routing the cable with pigtails into box (not included). (Teledyne Isco 605324023)	411.68	20.43
		Note: Same count as optional front panel totalizer receives. The totalizer must be purchased separately; appropriate for use with 60-5314-655 mechanical totalizer.		
		For Each LF Of Extension Cable, Add	*2.43*	
46 82 83 00-4251	EA	SPA 1655. Remote Non-Resettable 12 Volt DC 8-digit mechanical counter. (Teledyne Isco 605314655)	917.14	45.52
		Note: Requires user-supplied weather-proof conduit or cord grip fitting to maintain weatherproof rating. Appropriate for connection to 4200 series flow meter with a 60-5304-899 (SPA 899) Remote Totalizer Output or Signature® series flow meter with a 60-5324-023 (SPA 2023) Remote Totalizer Output. Use 4200 series accessories for totalizers that count sample initiation signals (programmable volume flow pulses). Appropriate for connection to 4501 Pump Station Monitor or 3010 flow logger or other devices, contact factory for details. Counter is in a weatherproof housing with an internal barrier block for connection to external equipment.		
46 82 83 00-4252	EA	SPA 2044. Cable, external 12 Volt DC to power Signature meter. (Teledyne Isco 605324044)	240.15	11.92
		Note: This cut to length cable, 50-foot maximum length, is equipped with a TIENet® cord grip fitting (209-0073-11) for watertight connection to the Signature® meter in non-conduit applications, a fuse, pigtail wires to connect to the Signature meters internal barrier block and alligator clips for connection to an external 12 Volt DC source.		
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-4253	EA	SPA 2045. Cable, external 12 Volt DC to power Signature® meter. (Teledyne Isco 605324045)	226.42	11.24
		Note: This cut to length cable, 50-foot maximum length, is equipped with a TIENet® cord grip fitting (209-0073-11) for watertight connection to the Signature meter in non-conduit applications, a fuse, pigtail wires to connect to the Signature® meters internal barrier block and 5/16-inch ring terminals for connection to an external 12 Volt DC source.		
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-4254	EA	SPA 2046. SDI-12 Submersible temperature sensor probe for Signature® meter. Standard cable length is 59 feet, available with a submersible splice up to 200-foot maximum length for an additional fee. Equipped with pigtail wires for connection to one of two of the Signature meter's internal SDI-12 barrier blocks and a TIENet® cord grip fitting (209-0073-11) for watertight connection to the Signature meter in non-conduit applications. (Teledyne Isco 605324046)	2,801.72	139.04
		For Each LF Of Extension Cable, Add	*2.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4255	EA	SPA 2060. Barrier for Signature hazardous location approved TIENet® Ultrasonic (not included). (Teledyne Isco 605324060) Note: Spa 2060 barrier is placed in a safe area and the associated sensor is located in a hazardous area. Provides weatherproof box with terminals and power supply for connection to external 120VAC and ground and terminals for connection to ultrasonic sensor. To connect between barrier and Signature use 60-4304-050 and 209-0073-12.	7,851.68	389.68
46 82 83 00-4256	EA	SPA 2024. Signature power loss alarm, Supplied with cord grip and a 3' cable with pig tail wires that route into Signature from external weatherproof box, includes a 20' cable wired internally to non-powered contacts. Not a TieNet device, connects directly to DC voltage terminals. (Teledyne Isco 605324024)	635.82	31.56
46 82 83 00-4257	EA	SPA 194. Spring ring for 4" diameter pipe (Teledyne Isco 605304194)	219.57	10.89
46 82 83 00-4258	EA	SPA 1916. Spring ring for 5" diameter pipe (Teledyne Isco 605314916)	219.57	10.89
46 82 83 00-4259	EA	SPA 1873. Spring ring for 7" diameter pipe (Teledyne Isco 605314873)	256.15	12.71
46 82 83 00-4260	EA	SPA 1172. Spring ring for 9" diameter pipe (Teledyne Isco 605314172)	244.72	12.15
46 82 83 00-4261	EA	SPA 1784. Spring ring for 14" diameter pipe (Teledyne Isco 605314784)	244.72	12.15
46 82 83 00-4262	EA	SPA 913 Modification to add scissor mechanism to spring ring, purchase spring ring separately, contact factory for rings below 10" diameter. (Teledyne Isco 605304913)	823.37	40.86
46 82 83 00-4263	EA	Signature® Portable Ultrasonic Flow Meter System. (Teledyne Isco 684310100) Note: Starting price includes base meter 624300006, carrying handle with stand, 1' TIENet® receptacle cable, 12 Volt DC power input cable, TIENet 310 ultrasonic level sensor with 32.8' cable, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. Configured options may include mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.	8,576.71	425.67
46 82 83 00-4264	EA	12 Volt DC, 6.5 Ampere Hours, Lead-Acid Battery. Rechargeable Model 946 (Teledyne Isco 603004106) Note: For use with Isco GLS, 3700, 6100, and 6700 Series Portable Samplers; 4200 Series Flow Meters; and Signature Portable Flow Meters. Recharge using Model 963 or 965 battery charger.	407.11	20.20
46 82 83 00-4265	EA	12 Volt DC, 45 Ampere Hours Lead-Acid Battery, Rechargeable Model 948 (Teledyne Isco 683000948) Note: For use with Isco GLS, 3700, 6100, and 6700 Series Portable Samplers and 4200 Series Flow Meters. Recharge using battery charger, part number 341-0118-12.	585.51	29.06
46 82 83 00-4266	EA	High Capacity Power Pack. Converts 120 Volt AC, 50/60 Hertz to 12 Volt DC. Model 913 (Teledyne Isco 601684088) Note: For use with Isco GLS, 3700, 6100, and 6700 Series Portable Samplers; 4200 Series Flow Meters; and Signature Portable Flow Meters. Includes separate output for charging Isco batteries. UL and ULC listed.	594.66	29.51
46 82 83 00-4267	EA	High Capacity Power Pack. Converts 240 Volt AC, 50/60 Hertz to 12 Volt DC. Model 923 (Teledyne Isco 603004190) Note: For use with Isco GLS, 3700, 6100, and 6700 Series Portable Samplers; 4200 Series Flow Meters; and Signature Portable Flow Meters. Includes separate output for charging Isco batteries.	875.97	43.47
46 82 83 00-4268	EA	Battery Backed Power Pack. Converts 120 Volt AC, 50/60 Hertz to 12 Volt DC. Model 914 (Teledyne Isco 683004130) Note: For use with Isco GLS, 3700, and 6700 Series Portable Samplers; 4200 Series and Signature Portable Flow Meters. Includes internal backup battery. UL and ULC listed.	1,251.05	62.10
46 82 83 00-4269	EA	Battery Backed Power Pack, Converts 240 Volt AC, 50/60 Hertz to 12 Volt DC. Model 924 (Teledyne Isco 683004160) Note: For use with Isco GLS, 3700, and 6700 Series Portable Samplers; 4200 Series and Signature Portable Flow Meters. Includes internal backup battery.	1,184.72	58.79
46 82 83 00-4270	EA	TIENet® 306 Sampler Interface with 10 m (32.8 ft) cable. Interface cable includes a TIENet plug. (Teledyne Isco 604304076) Note: Supports flow pacing and sampler enabling.	1,155.00	57.33
46 82 83 00-4271	EA	TIENet® 306 Sampler Interface with 23 m (75 ft) cable. Interface cable includes a TIENet plug. (Teledyne Isco 604304077) Note: Supports flow pacing and sampler enabling.	1,374.55	68.22
46 82 83 00-4272	EA	TIENet® 306 Sampler Interface with cut-to-length cable. Interface cable includes a TIENet plug. (Teledyne Isco 604304078) Note: Supports flow pacing and sampler enabling.	1,143.56	56.75
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4273	EA	TIENet ® 301 pH and temperature sensor interface with 32.8 ft (10 m) long cable with TIENet plug. Includes pH and temperature sensor (60-9004-126) with 25 ft (7.6 m) cable, calibration buffers and electrode rinse solution for initial commissioning. (Teledyne Isco 604307070)	2,703.38	134.17
46 82 83 00-4274	EA	TIENet® 301 pH and temperature sensor interface with 75 ft (23 m) long cable with TIENet plug. Includes pH and temperature sensor (60-9004-126) with 25 ft (7.6 m) cable, calibration buffers and electrode rinse solution for initial commissioning. (Teledyne Isco 604307071)	2,911.50	144.51
46 82 83 00-4275	EA	TIENet® 301 pH and temperature sensor interface with cut-to-length cable with TIENet plug. Includes pH and temperature sensor (60-9004-126) with 25 ft (7.6 m) cable, and calibration buffers and electrode rinse solution for initial commissioning. (Teledyne Isco 604307072)	2,703.38	134.17
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4276	EA	TIENet Receptacle Y-cable. (Teledyne Isco 604304066) Note: Extends the network by providing two TIENet receptacles to which compatible devices with a TIENet plug may be attached.	896.55	44.50
46 82 83 00-4277	EA	TIENet® 350 Area Velocity sensor with plug and 10 m (32.8 ft) cable. (Teledyne Isco 604354023)	4,231.17	210.00
46 82 83 00-4278	EA	TIENet® 350 Area Velocity sensor with plug and 23 m (75 ft) cable. (Teledyne Isco 604354024)	4,425.57	219.65
46 82 83 00-4279	EA	TIENet® 350 Area Velocity sensor with plug and cut-to-length cable. (Teledyne Isco 604354025)	4,231.17	210.00
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4280	EA	Signature® Portable Base Meter. (Teledyne Isco 624300006) Note: Base meter includes carrying handle with stand, desiccant cartridge, and 12 Volt DC power input cable. This item does not include a flow technology, power, and configured options which must be ordered separately when not ordered as a system.	5,832.16	289.44
46 82 83 00-4281	EA	Signature® Portable Bubbler Flow Meter System. (Teledyne Isco 684330100) Note: Starting price includes base meter 624330004 with internal bubbler, carrying handle with stand, 1' TIENet® receptacle cable, 12 Volt DC power input cable, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. Configured options may include mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.	9,148.47	454.04
46 82 83 00-4282	EA	Signature® Portable Base Meter. (Teledyne Isco 624330004) Note: Base meter includes carrying handle with stand, desiccant cartridge, and 12 Volt DC power input cable. This item does not include power, bubble tube, bubble line, and configured options which must be ordered separately when not ordered as a system.	5,832.16	289.44

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4283	EA	Signature® Portable Area Velocity Flow Meter System. (Teledyne Isco 684350100) Note: Starting price includes base meter 624300006, carrying handle with stand, 1' TIENet® receptacle cable, 12 Volt DC power input cable, TIENet 350 area velocity sensor with 32.8' cable, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. Configured options may include mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.	10,292.03	510.80
46 82 83 00-4284	EA	Signature® Portable LaserFlow system with base meter 624300006, TIENet® 360 LaserFlow sensor with built-in ultrasonic level sensor and 32.8 ft (10 m) cable, choice of mounting hardware, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. (Teledyne Isco 684360160) Note: Includes mounting hardware, cable lengths, remote level sensing, power, I/O, interfaces, communication, totalizer, and rain gauge connector.	27,559.78	1,367.80
46 82 83 00-4285	EA	TIENet® 360 LaserFlow™ sensor with 32.8 ft (10 m) cable and built-in ultrasonic level sensor. Cable is terminated with a TIENet plug for connection to a Signature® portable meter or a 2160 LaserFlow module (not included). (Teledyne Isco 682160061-ISCO3098)	21,498.92	1,067.00
46 82 83 00-4286	EA	TIENet® 360 LaserFlow™ sensor with 75 ft (23 m) cable and built-in ultrasonic level sensor . Cable is terminated with a TIENet plug for connection to a Signature® portable meter or a 2160 LaserFlow module (not included). (Teledyne Isco 682160061-ISCO3099)	21,693.33	1,076.64
46 82 83 00-4287	EA	TIENet® 360 LaserFlow with built-in level sensor. Includes cut-to-length cable with TIENet plug. (Teledyne Isco 604364077)	21,498.92	1,067.00
	For Each LF Of Extension Cable, Add		*4.33*	
46 82 83 00-4288	EA	TIENet® 360 LaserFlow™ sensor with receptacle for remote level sensor. LaserFlow sensor includes 32.8 ft (10 m) cable terminated with a TIENet plug for connection to a Signature® portable meter or a 2160 LaserFlow module. (Teledyne Isco 682160061-ISCO3100) Note: Excludes Signature® portable meter, 2160 LaserFlow module, TIENet 310 Ultrasonic level sensor which must be ordered separately.	18,640.03	925.11
46 82 83 00-4289	EA	TIENet® 360 LaserFlow™ sensor with receptacle for remote level sensor. LaserFlow sensor includes 75 ft (23 m) cable terminated with a TIENet plug for connection to a Signature® portable meter or a 2160 LaserFlow module(Teledyne Isco 682160061-ISCO3101) Note: Excludes Signature® portable meter,2160 LaserFlow module, TIENet 310 Ultrasonic level sensor which must be ordered separately.	18,834.43	934.75
46 82 83 00-4290	EA	TIENet® 360 LaserFlow sensor for remote level sensor with cut-to-length cable and TIENet plug. (Teledyne Isco 604364079) Note: Excludes TIENet 310 Ultrasonic level sensor which must be configured or ordered separately.	18,640.03	925.11
	For Each LF Of Extension Cable, Add		*4.33*	
46 82 83 00-4291	EA	Signature® Portable Base Meter System. (Teledyne Isco 684300100) Note: Starting price includes base meter 624300006, carrying handle with stand, 1' TIENet® receptacle cable, 12 Volt DC power input cable, instruction manual, pocket guide, and coupon for Isco Open Channel Flow Meter Handbook. Configured options may include mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.	6,060.86	300.80
46 82 83 00-4292	EA	Suspension harness. To hang flow meter from a manhole rung, etc. (Teledyne Isco 601704016)	125.79	6.24
46 82 83 00-4293	EA	Model 963 lead-acid float battery charger. (Teledyne Isco 683004198) Note: For charging Isco 946 and 947 batteries one at a time. Equipped with an IEC 320 for connection to 120/240 Volt AC, 50/60 Hertz power. North American units are shipped with a line cord. Varies output current as battery becomes charged, preventing overcharging. UL listed and CE marked.	510.02	25.31
46 82 83 00-4294	EA	Model 965 Five-Station Battery Charger with North America 120 Volt AC power cord. (Teledyne Isco 683000965) Note: Powered by 120 or 240 Volt AC, 50/60 Hz (user-switched). UL listed. Charges five Isco 934 Nickel-Cadmium Batteries, or five Isco 946 or 947 Lead-Acid Batteries, simultaneously.	1,587.26	78.77
46 82 83 00-4295	EA	Portable 12 Volt DC, 6 Amperes Battery Charger. Powered by 120 Volt AC, 50/60 Hertz. UL listed. (Teledyne Isco 341011812) Note: For use with Model 948 Lead-Acid Battery only.	257.30	12.77
46 82 83 00-4296	EA	3010 Ultrasonic Flow Transmitter. Includes an ultrasonic level sensor with a 50 ft. cable, sensor mounting bracket, instruction manual and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 683010028) Note: For non-conduit wiring, a separate power cord and a watertight cord grip fitting (part number 209-0076-03) for the sensor cable are required. Order other sensor mounting hardware as required.	4,105.38	203.75
46 82 83 00-4297	EA	Ultrasonic level sensor only. With 50 ft. cable. For non-conduit wiring, a watertight cord grip fitting (part number 209-0076-03) is required. (Teledyne Isco 603404082)	960.58	47.68
46 82 83 00-4298	EA	Ultrasonic sensor quick disconnect box. (Teledyne Isco 603404052) Note: Provides an external connection point for connecting the 3010 to an ultrasonic level sensor through conduit. Requires extension cable listed below. For non-conduit wiring, 3 watertight cord grip fittings (one part number 209-0076-03 and two part number 209-0076-08) are required.	368.23	18.28
46 82 83 00-4299	LF	SPA 922. 3010 Sensor Extension Cable, cut to length, per ft. (Teledyne Isco 605304922) Note: Normally used with 603404052 disconnect box to add distance between sensor and 3010. Maximum available length is 975 ft. Cable has spade lugs on one end, bare wires on other.	5.67	0.28
46 82 83 00-4300	EA	Connect cable, 3000 Series to Isco Sampler. 25 ft. length. (Teledyne Isco 603404051) Note: For non-conduit wiring, a watertight cord grip fitting (part number 209-0076-04) is required.	354.51	17.59
46 82 83 00-4301	EA	High/low alarm relays. For use with both 3000 and 4200 series. Two alarm relays with field settable trip points (based on flow rate), in conduit mount enclosure. Includes instructions. Requires customer supplied 3 conductor (18 ga. minimum) shielded wire with a 250 ft. maximum length. For non-conduit wiring, 2 watertight cord grip fittings are required. (Teledyne Isco 603404028) Note: Requires connect cable 60-3214-088 for use with 4200 Series Flow Meters.	1,136.70	56.42
46 82 83 00-4302	EA	Instruction manual for high/low alarm relays. (Teledyne Isco 603403071)	53.56	
46 82 83 00-4303	EA	3010 instruction manual. (Teledyne Isco 603404070)	113.31	
46 82 83 00-4304	EA	3020 instruction manual. (Teledyne Isco 603404058)	61.80	
46 82 83 00-4305	EA	Teledyne Isco Open Channel Flow Measurement Handbook, 7th Edition. (Teledyne Isco 603003041)	144.10	7.15
46 82 83 00-4306	EA	2150 Flow Module with 2191 Battery Module. Includes Area Velocity Sensor with 10 ft. (3 m) level measurement range and 33 ft. (10 m) cable, 2 battery holders, and carrying handle with suspension strap. Also includes instruction manual and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682050002) Note: Requires Flowlink software and computer connect cable (sold separately).	11,323.54	561.99
46 82 83 00-4307	EA	2150 Flow Module. Includes Area Velocity Sensor with 10 ft. (3 m) level measurement range and 33 ft. (10 m) cable. Also includes instruction manual and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682050001)	9,587.61	475.83
46 82 83 00-4308	EA	2150 Flow Module with 2191 Battery Module, 2 battery holders, and carrying handle with suspension strap,.instruction manual and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682050003) Note: Requires Flowlink software and computer connect cable (sold separately). Excludes area velocity sensor.	9,073.00	450.30

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4309	EA	2150 Flow Module (Teledyne Isco 602004007) Note: Excludes 2191 Battery Module, Area Velocity Sensor, manual, and carrying handle.	7,080.92	351.43
46 82 83 00-4310	EA	Area Velocity Sensor for 2150 Flow Module with 10 ft. (3 m) Level Measurement Range and 33 ft. (10 m) cable. Contact the factory for cable lengths up to 75 ft. (23 m). (Teledyne Isco 602004135)	2,673.64	132.70
46 82 83 00-4311	EA	Area Velocity Sensor for 2150 Flow Module with 10 ft. (3 m) Level Measurement Range and 50 ft (15 m) cable. (Teledyne Isco 602004546)	2,813.15	139.62
46 82 83 00-4312	EA	Area Velocity Sensor for 2150 Flow Module with 10 ft. (3 m) Level Measurement Range and 75 ft (23 m) cable. (Teledyne Isco 602004549)	2,929.80	145.41
46 82 83 00-4313	EA	SPA 1646. 2150 Area Velocity Sensor, 30 ft. level range, built to length. (Teledyne Isco 605314646) Note: This is an extended range sensor used exclusively for the 2150. Maximum length is 100 ft. Please specify length when ordering.	2,447.22	121.45
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-4314	EA	SPA 1332. Teflon Coated Sensor for 2100/4100/4200 Series Probes. (Teledyne Isco 605314332) Note: Must be ordered in tandem with cut to length probe (commonly 60-5304-841, 60-5314-074, 60-5314-233, 60-5314-271 or 60-5314-646). Has been used to deter solvents from attacking the body of the probe.	633.53	31.45
46 82 83 00-4315	EA	USB Communication Cable, 10 ft. (3 m). Connects 2100 Series Module top connector to PC with USB connector. (Teledyne Isco 602004507)	596.94	29.63
46 82 83 00-4316	EA	RS232 Communication Cable, 10 ft. (3 m). Connects 2100 Module to PC with 9 pin Serial port connector. (Teledyne Isco 602004046) Note: Contact the factory for cable lengths up to 100 ft., or for cable to PC with 25 pin connector.	562.62	27.93
46 82 83 00-4317	EA	2100 Series sampler interface. (Teledyne Isco 682000014)	1,065.80	52.90
46 82 83 00-4318	EA	SPA 1479. Sampler interface cable for 2110/2150, custom length. Maximum length 1,000 feet, minimum length 5 ft to allow between sampler's flow meter port and 2110 or 2150. For 5800/4700 sampler, order in tandem with part number 60-5314-697. Enters bottom port of 2110 or 2150, this is the cut to length version of part number 68-2000-014. (Teledyne Isco 605314479) Note: If the 2100 application requires a 2108 module use part number 60-5314-562, which connects to the top of the 2100 stack.	994.89	49.38
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-4319	EA	Din rail mount DC power supply. Input 115-230 Volt AC 50/60 Hertz, Output 12 Volt DC, 1.5 Amperes (Teledyne Isco 341000218)	285.89	14.19
46 82 83 00-4320	EA	2100 Series Module Mounting Plate. ABS plastic plate for mounting 2100 system to wall. (Teledyne Isco 602004262)	292.75	14.53
46 82 83 00-4321	EA	SPA 1334. 2100 Mounting Plate with Battery/Power Pack Holder. Stainless steel plate for mounting 2100 system to wall. Mounting plate includes location and latches to secure the battery or power pack. (Teledyne Isco 605314334) Note: Connecting an Isco battery or power pack to a 2100 series module will require a two-pin power adapter cable, 60-5314-290, not included.	633.53	31.45
46 82 83 00-4322	EA	Maintenance Kit for 2100 Module. Includes five O-rings for connectors, silicon grease for O-ring lubricant, hydrophobic filter, one O-ring for desiccant cartridge, desiccant, and instructions. (Teledyne Isco 602059001)	91.49	4.54
46 82 83 00-4323	EA	2150 Flow Module Instruction Manual. (Teledyne Isco 602004038)	131.85	
46 82 83 00-4324	EA	SPA 1233. 2150 Area Velocity Sensor, built to length. (Teledyne Isco 605314233) Note: This is the sensor used exclusively for the 2150. Maximum length is 75 ft. Please specify length when ordering.	2,287.13	113.51
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-4325	EA	SPA 1326. 2150 Sensor Extension Cable, built to length, per ft. (Teledyne Isco 605314326) Note: Maximum length is 75 ft. Specify length when ordering. Extends the distance between the 2150 and the sensor.	365.94	18.15
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-4326	EA	SPA 1601. Q.D. Box for 2150 A/V Sensor. This is normally used with SPA 1602 when desired span between 2150 and area velocity sensor exceeds 75 ft. or routing through conduit. (Teledyne Isco 605314601)	1,159.57	57.55
46 82 83 00-4327	EA	SPA 1602. 2150 to Q.D. Box Connect Cable, built to length. Cable connects to sensor port of the 2150 and is supplied with spade lugs on the opposite end for connection to the terminal strip of SPA 1601. Maximum length is 250 ft. (Teledyne Isco 605314602)	377.37	18.73
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-4328	EA	2150 Area Velocity Sensor Simulator. This test plug connects to module in place of A/V sensor and provides simulated data to the 2150 module. (Teledyne Isco 602004430)	937.71	46.54
46 82 83 00-4329	EA	2110 Ultrasonic Module with 2 m sensor. Includes one maintenance kit, instruction manual, and a coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682000072) Note: Requires Flowlink software and computer connect cable (sold separately).	7,618.40	378.10
46 82 83 00-4330	EA	2110 Ultrasonic Module with 2191 Battery Module and 2 m sensor. Includes carrying handle with suspension strap, 2110 and 2191 module maintenance kits, instruction manual, and a coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682000073) Note: Requires Flowlink software and computer connect cable (sold separately).	9,283.43	460.74
46 82 83 00-4331	EA	2110 Ultrasonic Module with 4 m sensor. Includes one maintenance kit, instruction manual, and a coupon for free Isco Open Channel Flow Measurement Handbook. Requires Flowlink software and computer connect cable (sold separately). (Teledyne Isco 682000074)	8,556.11	424.63
46 82 83 00-4332	EA	2110 Ultrasonic Module with 2191 Battery Module and 4 m sensor. Includes carrying handle with suspension strap, 2110 and 2191 module maintenance kits, instruction manual, and a coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682000075) Note: Requires Flowlink software and computer connect cable (sold separately).	10,244.01	508.42
46 82 83 00-4333	EA	2110 Ultrasonic Module with instruction manual. (Teledyne Isco 602004400)	5,134.57	254.83
46 82 83 00-4334	EA	Ultrasonic level sensor 2 m, 150 KHz, for 2110 Ultrasonic Module with 4 to 72 inch measurement range (0.1 to 1.8 m) and 33 ft. (10 m) cable. (Teledyne Isco 602004419)	2,531.84	125.66
46 82 83 00-4335	EA	Ultrasonic level sensor 4 m, 95 KHz, for 2110 Ultrasonic Module with 12 to 144 inch measurement range (0.3 to 3.6 m) and 33 ft. (10 m) cable. (Teledyne Isco 602004420)	3,398.66	168.68
46 82 83 00-4336	EA	Reflector plate for horizontal mounting of 2110 Ultrasonic level sensor. (Teledyne Isco 602008013)	155.52	7.72
46 82 83 00-4337	EA	In-pipe mounting using Isco mounting ring. (Teledyne Isco 602007419) Note: This kit provides mounting hardware required to attach the sensor to an Isco mounting ring (not included).	1,026.92	50.96
46 82 83 00-4338	EA	Mounting bracket for large pipe and flat roof channel. (Teledyne Isco 602003622)	84.61	4.21
46 82 83 00-4339	EA	Ultrasonic level sensor suspension hardware with straightener tube. (Teledyne Isco 602004610)	928.57	46.08
46 82 83 00-4340	EA	SPA 1542. Module to module cable with dust cap. (Teledyne Isco 605314542) Note: May be used with a standard 2100 interrogation cable to create a 2 piece interrogate cable for remote connection to 2100 series. Maximum length is 100 ft. with interrogate cable or 1,000 to 3,300 feet for most other applications. Contact factory for lengths exceeding 1,000 ft.	377.37	18.73
		For Each LF Of Extension Cable, Add	*4.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4341	EA	2110 Instruction Manual (Teledyne Isco 602004410)	131.85	
46 82 83 00-4342	EA	SPA 1509. 2110 Ultrasonic Level Sensor Quick Disconnect Box. Used with SPA 1581 cable assembly for conduit installations of the 2110. (Teledyne Isco 605314509)	715.86	35.53
46 82 83 00-4343	EA	SPA 1569. Cut to length 2110 ultrasonic sensor extension cable (sensor not included), 75' maximum length. (Teledyne Isco 605314569)	365.94	18.15
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-4344	EA	SPA 1581. Cable Assembly for use with 2110 Quick Disconnect Box. Cable is built to customer desired length. (Teledyne Isco 605314581)	434.55	21.57
		For Each LF Of Sensor Extension Cable, Add	*5.11*	
46 82 83 00-4345	EA	SPA 1888. Ultrasonic level sensor 2 m, 150 KHz, for 2110 Ultrasonic Module with 4 to 72 inch measurement range (0.1 to 1.8 m) and built to length cable , 100' maximum length. (Teledyne Isco 605314888)	2,492.96	123.72
		For Each LF Of Extension Cable, Add	*4.68*	
46 82 83 00-4346	EA	Portable 2160 LaserFlow™ System. This system includes TIENet® 360 LaserFlow Sensor with 32.8 ft (10 m) cable, built-in Ultrasonic level sensor, 2160 LaserFlow module, 2191 Battery module with carrying handle and suspension strap. The system includes one 2100 Series maintenance kit, instruction manual, and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682160060-ISCO3165) Note: Requires wall mount or temporary mount for LaserFlow sensor, Flowlink software and computer connect cable.	28,428.90	1,410.93
46 82 83 00-4347	EA	Portable 2160 LaserFlow™ System. This system includes TIENet® 360 LaserFlow Sensor with 32.8 ft (10 m) cable, remote Ultrasonic level sensor with 10 m cable, 2160 LaserFlow module, 2191 Battery module with carrying handle and suspension strap. The system includes one 2100 Series maintenance kit, instruction manual, and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682160060-ISCO3171) Note: Requires wall mount or temporary mount for LaserFlow sensor, Flowlink software and computer connect cable.	28,428.90	1,410.93
46 82 83 00-4348	EA	Portable 2160 LaserFlow™ System with Surcharge Kit. This system includes TIENet® 360 LaserFlow Sensor with 32.8 ft (10 m) cable, built-in Ultrasonic level sensor, TIENet 350 Area Velocity Sensor Surcharge Kit, 2160 LaserFlow module, 2191 Battery module with carrying handle and suspension strap. The system includes one 2100 Series maintenance kit, instruction manual, and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682160060-ISCO3173) Note: Requires wall mount or temporary mount for LaserFlow sensor, Flowlink software and computer connect cable.	32,843.04	1,630.00
46 82 83 00-4349	EA	Portable 2160 LaserFlow™ System with Surcharge Kit. This system includes TIENet® 360 LaserFlow Sensor with 32.8 ft (10 m) cable, remote Ultrasonic level sensor with 32.8 ft (10 m) cable, TIENet 350 Area Velocity Sensor Surcharge Kit, 2160 LaserFlow module, 2191 Battery module with carrying handle and suspension strap. The system includes one 2100 Series maintenance kit, instruction manual, and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682160060-ISCO3176) Note: Requires wall mount or temporary mount for LaserFlow sensor, Flowlink software and computer connect cable.	32,843.04	1,630.00
46 82 83 00-4350	EA	Permanent 2160 LaserFlow™ System. This system includes TIENet® 360 LaserFlow Sensor with 32.8 ft (10 m) cable, built-in Ultrasonic level sensor, and 2160 LaserFlow module. The system includes one 2100 Series maintenance kit, instruction manual, and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682160060-ISCO3164) Note: Requires Flowlink software and computer connect cable. Requires an external 12 Volt DC power source, wall mount or temporary mount for LaserFlow sensor, mount for 2160 module, Flowlink software and computer connect cable.	26,599.20	1,320.12
46 82 83 00-4351	EA	Permanent 2160 LaserFlow™ System. This system includes TIENet® 360 LaserFlow Sensor with 32.8 ft (10 m) cable, remote Ultrasonic level sensor with 32,8 ft (10 m) cable , and 2160 LaserFlow module. The system includes one 2100 Series maintenance kit, instruction manual, and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682160060-ISCO3170) Note: Requires Flowlink software and computer connect cable. Requires an external 12 Volt DC power source, wall mount or temporary mount for LaserFlow sensor, mount for 2160 module, Flowlink software and computer connect cable.	26,599.20	1,320.12
46 82 83 00-4352	EA	Permanent 2160 LaserFlow™ System with Surcharge Kit. This system includes TIENet® 360 LaserFlow Sensor with 32.8 ft (10 m) cable, built-in Ultrasonic level sensor, TIENet 350 Area Velocity Sensor Surcharge Kit, and 2160 LaserFlow module. The system includes one 2100 Series maintenance kit, instruction manual, and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682160060-ISCO3172) Note: Requires an external 12 Volt DC power source, wall mount or temporary mount for LaserFlow sensor, mount for 2160 module, Flowlink software and computer connect cable.	31,036.22	1,540.32
46 82 83 00-4353	EA	Permanent 2160 LaserFlow™ System with Surcharge Kit. This system includes TIENet® 360 LaserFlow Sensor with 32.8 ft (10 m) cable, remote Ultrasonic level sensor with 32.8 ft (10 m) cable, TIENet 350 Area Velocity Sensor Surcharge Kit, and 2160 LaserFlow module. The system includes one 2100 Series maintenance kit, instruction manual, and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682160060-ISCO3175) Note: Requires an external 12 Volt DC power source, wall mount or temporary mount for LaserFlow sensor, mount for 2160 module, Flowlink software and computer connect cable.	31,036.22	1,540.32
46 82 83 00-4354	EA	2160 LaserFlow™ module with 2191 Battery Module. Does not include TIENet 360 LaserFlow Sensor. Includes carrying handle and suspension strap, instruction manual, maintenance kit, and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682160014)	6,335.32	314.42
46 82 83 00-4355	EA	2160 LaserFlow module (Teledyne Isco 602004700) Note: Excludes TIENet 360 LaserFlow sensor.	4,437.02	220.21
46 82 83 00-4356	EA	Maintenance Kit for 2191 Battery Module. Includes three O-rings for connectors, two gaskets for battery doors, two bags of desiccant, two desiccant indicators, and instructions. (Teledyne Isco 602099001)	93.77	4.66
46 82 83 00-4357	EA	2191 Battery Module. Includes 2 battery holders. (Teledyne Isco 602004006)	1,665.02	82.63
46 82 83 00-4358	EA	Carrying handle for 2100 series modules. Attaches between two modules. (Teledyne Isco 602004377)	157.81	7.83
46 82 83 00-4359	EA	Suspension strap/carrying handle. Stainless steel cable, 18 inches (46 cm) wrapped by PVC tubing, with two stainless steel snap hooks. (Teledyne Isco 601704017)	54.88	2.72
46 82 83 00-4360	EA	TIENet® 360 LaserFlow™ sensor with 32.8 ft (10 m) cable and TIENet 350 Surcharge Kit. Cable is terminated with TIENet plug for 2160 LaserFlow module (not included). The connector to connect remote Ultrasonic sensor is included. (Teledyne Isco 682160061-ISCO3104) Note: The remote Ultrasonic is not included and must be purchased separately.	22,390.91	1,111.26
46 82 83 00-4361	EA	TIENet® 360 LaserFlow™ sensor with 32.8 ft (10 m) cable, built-in Ultrasonic level sensor, and TIENet 350 Surcharge Kit. Cable is terminated with TIENet plug for 2160 LaserFlow module (not included). (Teledyne Isco 682160061-ISCO3102)	25,478.51	1,264.49

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4362	EA	TIENet® 360 LaserFlow™ sensor with 75 ft (23 m) cable and TIENet 350 Surcharge Kit. Cable is terminated with TIENet plug for 2160 LaserFlow module (not included). The connector to connect remote Ultrasonic sensor is included. (Teledyne Isco 682160061-ISCO3105)	22,814.02	1,132.27
		Note: The remote Ultrasonic is not included and must be purchased separately.		
46 82 83 00-4363	EA	TIENet® 360 LaserFlow™ sensor with 75 ft (23 m) cable, built-in Ultrasonic level sensor, and TIENet 350 Surcharge Kit. Cable is terminated with TIENet plug for 2160 LaserFlow module (not included). (Teledyne Isco 682160061-ISCO3103)	25,672.91	1,274.14
46 82 83 00-4364	EA	2105 Network Interface Module only. (Teledyne Isco 602004560)	3,938.42	195.47
46 82 83 00-4365	EA	2105 Network Interface Module with 2191 Battery Module. Includes carrying handle, and module maintenance kits. (Teledyne Isco 682000048)	5,415.90	268.79
46 82 83 00-4366	EA	2105ci CDMA Serial Over IP modem module with 60-2004-550 dual band magnetic mount antenna. (Teledyne Isco 682000099)	7,387.38	366.63
		Note: Requires customer-supplied static IP address service contract with Verizon.		
46 82 83 00-4367	EA	2105ci CDMA Cell Phone Package with 2191 Battery module and 60-2004-550 magnetic mount dual band antenna. This stack-on module provides wireless communications (configuration, data retrieval, push data, text message alarms) with the 2100 Series site. (Teledyne Isco 682000103)	8,851.15	439.28
		Note: Requires customer provided Verizon account with static IP service, paid by customer.		
46 82 83 00-4368	EA	2105Gi Network Interface Module with built-in Europe/Region B countries 3G GSM cellular modem. Includes external magnetic mount antenna and module maintenance kit. (Teledyne Isco 682000093)	7,387.38	366.63
46 82 83 00-4369	EA	2105Gi Network Interface Module with built-in North America/Region A countries 3G GSM cellular modem. Includes external magnetic mount antenna and module maintenance kit. (Teledyne Isco 682000113)	7,387.38	366.63
46 82 83 00-4370	EA	2105Gi Network Interface Module with built-in Europe/Region B countries 3G GSM cellular modem. Includes 2191 Battery Module, external magnetic mount antenna, carrying handle, and module maintenance kits. (Teledyne Isco 682000096)	8,165.02	405.23
46 82 83 00-4371	EA	2105Gi Network Interface Module with built-in North America/Region A countries 3G GSM cellular modem. Includes 2191 Battery Module, external magnetic mount antenna, carrying handle, and module maintenance kits. (Teledyne Isco 682000116)	8,165.02	405.23
46 82 83 00-4372	EA	2105Gi Network Interface Module with built-in Europe/Region B countries 3G GSM cellular modem. Includes in-street antenna and module maintenance kit. (Teledyne Isco 682000094)	7,387.38	366.63
46 82 83 00-4373	EA	2105Gi Network Interface Module with built-in North America/Region A countries 3G GSM cellular modem. Includes in-street antenna and module maintenance kit. (Teledyne Isco 682000114)	7,387.38	366.63
46 82 83 00-4374	EA	2105Gi Network Interface Module with built-in Europe/Region B countries 3G cellular modem. Includes in-street antenna, 2191 Battery Module, carrying handle, and module maintenance kits. (Teledyne Isco 682000089)	8,576.71	425.67
46 82 83 00-4375	EA	2105Gi Network Interface Module with built-in North America/Region A countries 3G cellular modem. Includes in-street antenna, 2191 Battery Module, carrying handle, and module maintenance kits. (Teledyne Isco 682000109)	8,576.71	425.67
46 82 83 00-4376	EA	2105Gi Network Interface Module with built-in Europe/Region B countries 3G GSM cellular modem. Includes manhole-mounted antenna and module maintenance kit. (Teledyne Isco 682000095)	7,867.68	390.48
46 82 83 00-4377	EA	2105Gi Network Interface Module with built-in North America/Region A countries 3G GSM cellular modem. Includes manhole-mounted antenna and module maintenance kit. (Teledyne Isco 682000115)	7,867.68	390.48
46 82 83 00-4378	EA	2105Gi Network Interface Module with built-in Europe/Region B countries 3G GSM cellular modem. Includes 2191 Battery Module, manhole-mounted antenna, carrying handle, and module maintenance kits. (Teledyne Isco 682000097)	9,057.01	449.49
46 82 83 00-4379	EA	2105Gi Network Interface Module with built-in North America/Region A countries 3G GSM cellular modem. Includes 2191 Battery Module, manhole-mounted antenna, carrying handle, and module maintenance kits. (Teledyne Isco 682000117)	9,057.01	449.49
46 82 83 00-4380	EA	In-street antenna with improved connector for 2103ci/2103C/6712ci/6712C/6712G/6712Gi cellular telephone modems and 2105ci/2105C/2105G/2105Gi Network Interface modules manufactured in January 2010 and later. Designed for manhole applications. (Teledyne Isco 602004564)	434.55	21.57
		Note: When using "ci" equipment, the 60-2004-550 dual band is recommended for optimal performance.		
46 82 83 00-4381	EA	External magnetic mount antenna with improved connector for the 2103Gi cellular telephone modems and 2105Gi Network Interface modules manufactured in January 2010 and later. This general purpose antenna is recommended for enclosure installations. (Teledyne Isco 602004565)	434.55	21.57
46 82 83 00-4382	EA	External magnetic mount antenna with improved connector for the 2103ci/2103C cellular telephone modems and 2105ci/2105C CDMA Network Interface modules manufactured in January 2010 and later. Designed for enclosure applications. (Teledyne Isco 602004566)	434.55	21.57
		Note: When using "ci" equipment, the 60-2004-550 dual band antenna is recommended for optimal performance.		
46 82 83 00-4383	EA	SPA 1820. Manhole-mounted Antenna. (Teledyne Isco 605314820)	1,148.13	56.99
		Note: This bolt-on antenna mounts to the top of a manhole cover. This 6 inch wide by 0.705 inch tall antenna has a 0.75 by 4 inch threaded shank that secures the antenna through a 0.75 inch hole in the manhole cover. Includes special tool to tighten the mounting hardware. For use with 2103ci/2103C/2105G, 2105ci/2105C/2105G, and 6712ci/6712C/6712G modems with an SMB connector. When using "ci" equipment, the 60-2004-550 dual band antenna is recommended for optimal performance.		
46 82 83 00-4384	EA	SPA 1908. Blade Antenna with SMB style connector. This 5 inch long by 13/16 inch wide by 1/4 inch tall antenna comes equipped with a 10 foot cable and the antenna body is normally attached to an external surface with customer supplied epoxy. This antenna is for new style 2103ci/2103C/2103G/2103Gi, 2105ci/2105C/2105G/2105Gi, or 6712C/6712ci modules with an SMB style connector. See 60-5314-935 Blade antenna with SMA connector for old style models 2103Ci/2103Gi. (Teledyne Isco 605314908)	324.77	16.12
		Note: When using "ci" equipment, the 60-2004-550 dual band antenna is recommended for optimal performance.		
46 82 83 00-4385	EA	2105 Universal Cable. This 10 ft. cable has a 12-pin connector that connects to the 2105 module. The unterminated end of the cable may be spliced to other wiring or attached to a terminal strip. Includes instruction sheet. (Teledyne Isco 692004580)	292.75	14.53
46 82 83 00-4386	EA	2105 to 674 Rain Gauge connect cable. This 50 ft. cable has a 12-pin connector that connects to the 2105 module. The other end of the cable is terminated with two spade connectors that attach to the terminals in a 674 Rain Gauge. (Teledyne Isco 692004581)	361.37	17.93
		Note: If the rain gauge already has a cable, consider 69-2004-583 instead.		
46 82 83 00-4387	EA	2105 to YSI Sonde interconnect cable. This 10 inch adapter cable has a 12-pin connector that connects to the 2105 module. The other end of the cable has a connector that mates with a YSI field cable. (Teledyne Isco 692004582)	269.88	13.40
46 82 83 00-4388	EA	SPA 1811. 2105 to SDI-12 connection cable. This 10 ft. cable connects to the 2105 top connector and is terminated with same SDI-12 connector as the 6712 Sampler Rain Gauge/SDI-12 input port. This cable allows Isco-ready SDI-12 sondes specifically designed for use with the 6712 Sampler to be connected to the 2105 module. This cable is not for use with other SDI-12 sondes, including sondes with pigtail connections (see 69-2004-580 for pigtail input SDI-12 sondes). (Teledyne Isco 605314811)	354.51	17.59
46 82 83 00-4389	EA	SPA 1844. SDI-12 Pressure transducer or submerged probe for connection to the 2105. Includes a desiccator to vent the transducer to the atmosphere, length of cable is 100'. (Teledyne Isco 605314844)	3,739.44	185.59

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4390	EA	SPA 1855. This cut to length cable has a 12-pin connector that connects to the 2105 module's side connector and a 6-pin connector that connects to the 4200 series flow meter or 6712 sampler's interrogator port. The 2105 receives flow data. Max length is 100 ft; minimum length 5 ft if intended for connection to sampler. (Teledyne Isco 605314855)	240.15	11.92
		Note: Not for use with 5800/4700 sampler.		
		For Each LF Of Extension Cable, Add	*3.03*	
46 82 83 00-4391	EA	2105 to 674 Rain Gauge interconnect cable. This 10 inch cable has a 12-pin connector that connects to the 2105 module. The other end of the cable has a 4-pin connector that mates to the cable supplied with a 674 Rain Gauge. (Teledyne Isco 692004583)	306.47	15.21
46 82 83 00-4392	EA	2105 to GLS/3700/6700 Series/Avalanche Sampler Y-cable. The common end of this Y-cable has a 12-pin connector that connects to the 2105 module. The 25 ft. leg of this cable includes a 6-pin female connector that attaches to the sampler's Flow Meter port. The 10 inch leg of this cable replicates the 12-pin 2105 connector to support other interface connections. (Teledyne Isco 692004584)	722.74	35.87
46 82 83 00-4393	EA	Y-cable, one 2105 male to two 2105 female connections, 10 inches. Used to create two 2105 connections. (Teledyne Isco 692004585)	841.66	41.77
46 82 83 00-4394	EA	2105 to 5800/4700 Sampler Y-cable. The common end of this Y-cable has a 12-pin connector that connects to the 2105 module. The 25 ft. leg of this cable has a 16-pin connector that mates to the 5800/4700 Refrigerator rear panel connector. The 10 inch leg of this cable replicates the 12-pin 2105 connector to support other interface connections. (Teledyne Isco 692004633)	768.46	38.14
46 82 83 00-4395	EA	2105 to 16-pin accQmin or standard ADFM system (box or canister) Y-cable. The common end of this Y-cable has a 12-pin connector that connects to the 2105 module. The 25 ft. leg of this cable has a 16-pin connector that mates to an accQmin flow meter or standard ADFM system (box or canister). The 10 inch leg of this cable replicates the 12-pin 2105 connector to support other interface connections. (Teledyne Isco 692004587)	768.46	38.14
46 82 83 00-4396	EA	2105 to 9-pin standard ADFM system (canister) Y-cable. The common end of this Y-cable has a 12-pin connector that connects to the 2105 module. The 25 ft. leg of this cable has a 9-pin connector that mates to a standard ADFM system (canister). The 10 inch leg of this cable replicates the 12-pin 2105 connector to support other interface connections. (Teledyne Isco 692004589)	731.88	36.32
46 82 83 00-4397	EA	2103ci CDMA Cell Phone Package with 60-2004-550 magnetic mount dual band antenna. This stack-on module provides wireless communications (configuration, data retrieval, push data, text message alarms) with the 2100 Series site. Powered from the module stack. (Teledyne Isco 682000098)	5,283.24	262.21
		Note: Requires customer provided Verizon account with static IP service, paid by customer.		
46 82 83 00-4398	EA	In-street antenna for 2103c and 2103g modem communication modules with original connector (before January 2010). (Teledyne Isco 682000031)	434.55	21.57
		Note: Recommended for manhole installations.		
46 82 83 00-4399	EA	SPA 1891. Adapter cable to use antennas with original design (before January 2010) with modules manufactured in January 2010 and later. (Teledyne Isco 605314891)	196.70	9.76
46 82 83 00-4400	EA	SPA 1779. Old Style Manhole-mounted Antenna for Model 2103Ci/2103Gi with SMA style connector. (Teledyne Isco 605314779)	1,118.40	55.51
		Note: This bolt-on antenna mounts to the top of a manhole cover. This 6 inch wide by 0.705 inch tall antenna has a 0.75 by 4 inch threaded shank that secures the antenna through a 0.75 inch hole in the manhole cover. Includes special tool to tighten the mounting hardware. Use 605314820 for new style Manhole-mounted antenna with SMB connector. This antenna is for old style 2103Ci/2103Gi with an SMA style connector.		
46 82 83 00-4401	EA	2103Gi GSM Cell Phone Package with 3G GSM modem for Europe/Region B countries and Magnetic-mount Antenna with improved connector. Provided as a stack-on module. (Teledyne Isco 68-2000-087)	5,466.21	271.29
		Note: GSM cellular telephone service provided and paid for by customer. Provides wireless dial up and download with text message alarming. Powered from the module stack. Before ordering, contact the factory and confirm that compatible GSM service is available in the intended region.		
46 82 83 00-4402	EA	2103Gi GSM Cell Phone Package with 3G GSM modem for North America/Region A countries and Magnetic-mount Antenna with improved connector. Provided as a stack-on module. (Teledyne Isco 68-2000-107)	5,466.21	271.29
		Note: GSM cellular telephone service provided and paid for by customer. Provides wireless dial up and download with text message alarming. Powered from the module stack. Before ordering, contact the factory and confirm that compatible GSM service is available in the intended region.		
46 82 83 00-4403	EA	2103Gi Series GSM Cell Phone Package with 3G GSM modem for Europe/Region B countries and In-street Antenna with improved connector. Provided as a stack-on module. (Teledyne Isco 682000086)	5,466.21	271.29
		Note: GSM cellular telephone service provided and paid for by customer. Provides wireless dial up and download with text message alarming. Powered from the module stack. Before ordering, contact the factory and confirm that compatible GSM service is available in the intended region.		
46 82 83 00-4404	EA	2103GI GSM Cell Phone Package with 3G GSM modem for North America/Region A countries and In-street Antenna with improved connector. Provided as a stack-on module. (Teledyne Isco 68-2000-106)	5,466.21	271.29
		Note: GSM cellular telephone service provided and paid for by customer. Provides wireless dial up and download with text message alarming. Powered from the module stack. Before ordering, contact the factory and confirm that compatible GSM service is available in the intended region.		
46 82 83 00-4405	EA	2103Gi GSM Cell Phone Package with 3G GSM modem for Europe/Region B countries and Bolt-on Manhole Antenna with improved connector. Provided as a stack-on module. (Teledyne Isco 682000088)	5,946.50	295.13
		Note: GSM cellular telephone service provided and paid for by customer. Provides wireless dial up and download with text message alarming. Powered from the module stack. Before ordering, contact the factory and confirm that compatible GSM service is available in the intended region.		
46 82 83 00-4406	EA	2103Gi GSM Cell Phone Package with 3G GSM modem for North American/Region A countries and Bolt-on Manhole Antenna with improved connector. Provided as a stack-on module. (Teledyne Isco 68-2000-108)	5,946.50	295.13
		Note: GSM cellular telephone service provided and paid for by customer. Provides wireless dial up and download with text message alarming. Powered from the module stack. Before ordering, contact the factory and confirm that compatible GSM service is available in the intended region.		
46 82 83 00-4407	EA	External magnetic mount antenna for the 2103g modem communication module with original connector (before January 2010). This five-inch tall general purpose antenna is recommended for enclosure installations. (Teledyne Isco 682000047)	457.43	22.70
46 82 83 00-4408	EA	2103, 2103C, and 2103G Modem Communication Module Instruction Manual. (Teledyne Isco 692003180)	117.43	
46 82 83 00-4409	EA	2102 Wireless Remote Module. Stacks on 2150 Flow Monitoring System to provide two-way communication with base module (sold separately). Includes 2102 manual. (Teledyne Isco 682000003)	4,597.11	228.15
46 82 83 00-4410	EA	2102 Wireless Base Module. Connects to computer running Flowlink software (v4.11 or higher) for communication with 2102 field monitoring stations. (Teledyne Isco 682000002)	5,031.66	249.73
		Note: Includes 12 Volt DC power adapter (#60-2004-050) for vehicle cigarette lighter, 120 VAC power adapter (#60-2004-057), and 2102 instruction manual. Requires Flowlink software and computer connect cable, sold separately.		
46 82 83 00-4411	EA	Connect Cable, 10 ft. (3 m). Connects 2102 Wireless Module to 6700 Series/Avalanche Sampler, 4200 Series Flow Meter, or 4100 Series Flow Logger. This connect cable will supply power from the sampler or flow meter to operate the 2102 wireless module. (Teledyne Isco 602004059)	462.00	22.92

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4412	EA	12 Volt DC power adapter, to power 2101 or 2102 Module from vehicle cigarette lighter. (Teledyne Isco 602004050)	247.01	12.26
46 82 83 00-4413	EA	120 Volt AC power adapter, to power a 2100 Series module from AC mains. (Teledyne Isco 602004057) Note: One end is terminated with a 2100 Series bottom connector. The other end has a wall transformer that plugs into a North American 120 VAC outlet.	269.88	13.40
46 82 83 00-4414	EA	SPA 1311. Remote antenna for 2102. Provides an adapter to 2102, 25' of cable, and remote antenna. This is available when the standard external antenna is unsuitable. A Yagi or omnidirectional antenna is sent based on customer application. (Teledyne Isco 605314311) Note: Earlier 2102s may require modification of 2102 to provide for external connector, contact SPA for details. US ONLY.	1,056.65	52.45
46 82 83 00-4415	EA	Maintenance Kit for 2102 Wireless Module. Includes three O-rings for connectors, silicon grease for O-ring lubricant, and instructions. (Teledyne Isco 602009002)	74.16	
46 82 83 00-4416	EA	2102 Wireless Module Instruction Manual. (Teledyne Isco 602003145)	123.61	
46 82 83 00-4417	EA	2108 Analog Output Module. Connects to 4-20 mA output to external non-Isco equipment. Requires a computer running Flowlink software (v4.15 or higher) to configure the 2108 module. Includes small DIN rail, removable connector, and instruction manual. Does not include cables. (Teledyne Isco 682000010)	2,836.02	140.75
46 82 83 00-4418	EA	2100 Series Connect Cable, 50 ft. (15 m). One cable end has a single connector to plug into bottom of 2100 Module. Opposite end is unterminated with six wires stripped for connection to 2108 Analog Output module. Quick Disconnect box, or other device. (Teledyne Isco 602004219)	445.99	22.14
46 82 83 00-4419	EA	Quick Disconnect Box. For 2100 Series network. (Teledyne Isco 602004228)	878.26	43.58
46 82 83 00-4420	LF	SPA 1417. Cable, 6 conductor, 24 gauge. General Cable #CO516. For use between Quick Disconnect box and network isolator/power barrier. Priced per ft. (Teledyne Isco 605314417) Note: Specify total length when ordering	4.80	0.24
46 82 83 00-4421	EA	2108 Instruction Manual (Teledyne Isco 692003239)	127.73	
46 82 83 00-4422	EA	SPA 1612. Mounting plate with 120 Volt AC Supply for 2100 Series modules and 2108 analog output. Made of aluminum (Teledyne Isco 605314612) Note: 2108 and power supply are mounted on a DIN rail. Power supply and 2108 are not NEMA rated. Power supply 341-0002-18 is included, the 2108 must be ordered separately.	878.26	43.58
46 82 83 00-4423	EA	2101 Field Wizard Module. Includes Module Extension Cable and 2101 instruction manual. Requires Flowlink software version 4.12 or higher and external power source. Does not include power source or RS232 Communications Cable. (Teledyne Isco 682000006)	4,711.48	233.82
46 82 83 00-4424	EA	Module Extension Cable. Connects two 2100 Series modules that are not stacked together. (Teledyne Isco 602004056) Note: Custom lengths available - use 60-5314-316.	370.52	18.39
46 82 83 00-4425	EA	SPA 1316. Module Extension Cable, custom length. Connects two 2100 Series modules that are not stacked together. (Teledyne Isco 605314316) Note: Specify custom length from 1 to 3,300 ft. (1,000 m). Contact factory for lengths exceeding 1,000 ft. May be used in tandem with USB communications cable (60-2004-507) for cut to length interrogate cable with a 100 ft. maximum length.	297.32	14.76
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4426	EA	Maintenance Kit for 2101 Field Wizard Module. Includes two O-rings for connectors, silicon grease for O-ring lubricant, desiccant cartridge, desiccant, and instructions. (Teledyne Isco 602009001)	109.77	5.44
46 82 83 00-4427	EA	SPA 1429. 2100 non-Isco Battery Connect Cable. Built to length, per ft. Maximum length is 50 ft. For connection of 2100, via bottom connector, to customer supplied deep cycle battery. Not for use with 2108, see SPA 1456 if 2108 is part of the application. (Teledyne Isco 605314429)	560.34	27.80
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4428	EA	SPA 1456. 2100 Non-Isco Battery Cable, top connection. Built to length, per ft. Maximum length is 50 ft. For connection of 2100, via top connector, to customer supplied deep cycle battery with two large alligator clips. For use with customer-supplied batteries and the Isco 2100 System. Appropriate for use with the 2108 module. (Teledyne Isco 605314456)	537.47	26.68
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4429	EA	2101 Field Wizard Instruction Manual (Teledyne Isco 602004070)	123.61	
46 82 83 00-4430	EA	Alkaline Lantern Battery. Non-rechargeable, 6 Volt DC (Teledyne Isco 340200602) Note: For use with Isco 2191 Battery Module (2 required) or Isco 4100 Series Flow Loggers (2 required).	64.05	3.17
46 82 83 00-4431	EA	Model 945 Lead-Acid Lantern Battery. Rechargeable, 6 Volt DC (Teledyne Isco 602004041) Note: For use with Isco 2191 Battery Module (2 required).	91.49	4.54
46 82 83 00-4432	EA	Charging adapter for Model 945 Lead-Acid Lantern Batteries. Connects 2 Model 945 Batteries to Isco Model 963 or 965 Battery Charger. One required for every 2 batteries being recharged at one time. (Teledyne Isco 602004040)	301.89	14.98
46 82 83 00-4433	EA	2100 Power adapter cable, CE rated. Two-foot long cable includes connector for bottom of module stack and connector for an Isco model 934, 946, or 948 battery pack. (Teledyne Isco 692004451)	624.39	30.99
46 82 83 00-4434	EA	Carrying handle with suspension strap. For 2100 System with one to four modules plus 2191 Battery Module. (Teledyne Isco 682000001)	230.99	11.47
46 82 83 00-4435	EA	Maintenance Kit for 2103 Modem Module. Includes three O-rings for connectors, silicon grease for O-ring lubricant, desiccant, and instructions. (Teledyne Isco 602009004)	107.48	5.33
46 82 83 00-4436	EA	SPA 1232. 2100 Interrogate Cable, built to length. (Teledyne Isco 605314232) Note: This is the interrogate cable for connection from the top connector of the 2100 series to a computer via 9 pin serial connector. Maximum length is 100 ft. Please specify length when ordering.	667.83	33.15
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-4437	EA	SPA 1290. 2100 Power Adapter Cable, Non CE rated. Allows use of standard 2-pin Isco power packs and batteries with 2100 systems. Built to length, per ft. Minimum length is 3 ft., maximum length is 25 ft. See part number 69-2004-451 for standard CE rated 2 ft. version. (Teledyne Isco 605314290) Note: Not for use with 2108 module.	651.84	32.35
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-4438	EA	SPA 1347. Solar Panel With Bracket, 40 Watt, For Use With Customer Supplied Battery; 100 Ampere Hours Or Greater Recommended. (Teledyne Isco 605314347) Note: Includes pole mount bracket and an 8' cable with two 5/16" terminal lugs for connection to lead acid battery. Does not include a 12 Volt DC connect cable from the battery to an Isco device. Refer to connect cables 60-1394-023, 60-5314-189, or 60-5304-921 to power Isco devices excluding 2100 modules. For 2100 Series Module battery connect cables, use 60-5314-429 or 60-5314-456.	2,378.59	118.05
46 82 83 00-4439	EA	SPA 1377. Deep Stream Earth Anchor for Isco Sensors. Used to mount Isco sensors in saturated or deep stream beds. Screws into stream bottom. Includes quick connect tabs for mounting sensor carriers and the standard profile AV sensor.(Teledyne Isco 605314377) Note: For a low profile A/V probe also order part number 60-3204-029. Approximately 30 inches in length from top to bottom.	475.72	23.61

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4440	EA	SPA 1389. Aluminum Cable Shield, built to length. Aluminum shield for cable to protect from animal damage. (Teledyne Isco 605314389)	219.57	10.89
		Note: Must be ordered in tandem with cut to length probe (commonly 60-5304-841, 60-5314-074, 60-5314-233, 60-5314-271 or 60-5314-646) Maximum length is 75 ft. Contact factory for longer lengths.		
		For Each LF Of Aluminum Cable Shield, Add	*6.39*	
46 82 83 00-4441	EA	SPA 1396. Two piece interrogator cable, cut to length, for 2100 Series devices. Mates to 60-2544-026 or 60-2544-027. (Teledyne Isco 605314396)	571.77	28.38
		Note: 200 ft. maximum length.		
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-4442	EA	SPA 1461. 2108 Power Cable. Spans the distance from 2108 and rest of stack. (Teledyne Isco 605314461)	365.94	18.15
		Note: Same as 602004219 50 ft. Power Node Cable, but built to length, per ft.		
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-4443	EA	SPA 1493. 2103 Modem Surge Protection. Includes surge protector with grounding strap, 50 ft. of cable with grounding plate to place on mounting ring of 2150. Contact factory for details if used with other Isco Instruments. (Teledyne Isco 605314493)	1,326.53	65.83
46 82 83 00-4444	EA	SPA 1519. Shallow Stream Earth Anchor for Isco Sensors. Used to mount Isco sensors in dry or shallow stream beds. Screws into stream bottom. Includes quick connect tabs for mounting sensor carriers or the standard profile AV sensor. (Teledyne Isco 605314519)	475.72	23.61
		Note: For a low profile A/V probe also order part number 60-3204-029. Approximately 15 inches in length from top to bottom.		
46 82 83 00-4445	EA	SPA 1529. MODBUS Communications cable for use with 2100 System. Commonly used with TELOG 3307 System. Cable is built to length. (Teledyne Isco 605314529)	240.15	11.92
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-4446	EA	SPA 1543. 10 watt solar panel and mounting bracket, without cable. Replaces 603004100. Connects with 603004097 cable. (Teledyne Isco 605314543)	1,498.06	74.36
46 82 83 00-4447	EA	SPA 1603. 2100 Y Cable. This cable connects to the bottom port of the 2100 series and provides two bottom connectors from single 2100 on 2 ft. cables. (Teledyne Isco 605314603)	528.33	26.22
46 82 83 00-4448	EA	SPA 1629. Solar Panel With Bracket, 110 Watt, For Use With Customer Supplied Battery; 12 Volt DC Deep-Cycle Or Lead-Acid Marine Battery, 100 Ampere Hours Or Greater Recommended. (Teledyne Isco 605314629)	5,223.79	259.25
		Note: Includes pole mount bracket and an 8' cable with two 5/16" terminal lugs for connection to lead acid battery. Does not include a 12 Volt DC connect cable from the battery to an Isco device. Refer to connect cables 60-1394-023, 60-5314-189, or 60-5304-921 to power Isco devices excluding 2100 modules. For 2100 Series Module battery connect cables, use 60-5314-429 or 60-5314-456.		
46 82 83 00-4449	EA	SPA 1825. Cable for connection to top of 2100 series, provides all pins as bare wire ends. Similar to 60-2004-219 only connects to top connector. Useful if 2108 is employed because the 2108 module utilizes the bottom connector of the 2100 series stack. (Teledyne Isco 605314825)	354.51	17.59
		For Each LF Of Extension Cable, Add	*4.49*	
46 82 83 00-4450	EA	SPA 1929. External Box Inputs Up To 8 Channels of 4-20 mA Analog Input Signals to Modbus Output Interface for 2105. Outdoor rated enclosure provides a single 10-foot cable with sixteen pig tail wires for up to eight 4-20 mA input signals and another 9-foot output cable for output connection to the 2105 side connector. (Teledyne Isco 605314929)	5,146.02	255.40
46 82 83 00-4451	EA	SPA 1933. 2100 Sampler Interface with contact closure output for non-Isco sampler or PLC. Powered from 2150/2110/2105 bottom connection. Dry contacts change state momentarily every 1,000 gallons or 5,000 liters depending on 2100 set-up. (Teledyne Isco 605314933)	855.39	42.46
46 82 83 00-4452	EA	SPA 1942. External Box Inputs Up To 4 Channels of 4-20 mA Analog Input Signals to SDI-12 convertor for the 2105. Outdoor rated enclosure provides four 10-foot cables with pig-tail wires for connection to four 4-20 mA input signals and a 9-foot cable for connection to the 2105 side connector. (Teledyne Isco 605314942)	4,780.08	237.24
46 82 83 00-4453	EA	2150EX Flow Module with 2196EX Battery Module and carrying handle. Includes AV2150EX sensor with 3 meter (10 ft) level measurement range and 10 meter (33 ft) cable. Zone 1 and Cl I, Div 1 approved. (Teledyne Isco 682000043)	17,276.90	857.46
46 82 83 00-4454	EA	2150EX Flow Module with AV2150EX probe, Zone 0 and Cl I, Div 1 approved. Requires a 2196EX Battery Module (Zone 1 and Cl I, Div1), or power from a 2194EX Network Interface Module (Zone 0). (Teledyne Isco 682000021)	14,301.36	709.78
		Note: May also be used as an add-on module for a 2150EX system (up to two 2150EX Flow Modules per stack).		
46 82 83 00-4455	EA	2150EX Flow module only, Zone 0 and Cl I, Div 1 approved. (Teledyne Isco 602004330)	11,252.64	558.47
46 82 83 00-4456	EA	2196EX Battery Module only, Zone 1 and Cl I, Div 1 approved. Includes permanently-installed rechargeable batteries. (Teledyne Isco 602004540)	3,048.73	151.30
46 82 83 00-4457	EA	2194EX Network Interface Module, with up to 245' (75 m) CA75EX cable, Zone 0 approved. Includes Network Interface connector Kit (60-2004-468), Power Adapter Cable (69-2004-451), and 2100EX bottom plate. (Teledyne Isco 682000037)	7,760.20	385.14
		Note: The 2194EX module is to be installed in the safe area where it can serve as a network isolator and power supply for a 2150EX module installed in a potentially explosive atmosphere. The 2194EX module can be networked with other 2100 series devices in the safe area and can be used to retrieve data through an Isco RS232 cable (60-2004-046 or 60-5314-232, not included). Can be powered by Isco 910/920 series power packs, Isco 934 or 940 series batteries, or a 12 or 24 Volt DC source rated for the power requirements. Customer must specify cable length (up to 245').		
46 82 83 00-4458	EA	2194EX Network Interface Module, with up to 490' (150 m) CA150EX cable, Zone 0 approved. Includes Network Interface connector Kit (60-2004-468), Power Adapter Cable (69-2004-451), and 2100EX bottom plate. (Teledyne Isco 682000038)	7,959.18	395.02
		Note: The 2194EX module is to be installed in the safe area where it can serve as a network isolator and power supply for a 2150EX module installed in a potentially explosive atmosphere. The 2194EX module can be networked with other 2100 series devices in the safe area and can be used to retrieve data through an Isco RS232 cable (60-2004-046 or 60-5314-232, not included). Can be powered by Isco 910/920 series power packs, Isco 934 or 940 series batteries, or a 12 or 24 Volt DC source rated for the power requirements. Customer must specify cable length (up to 490').		
46 82 83 00-4459	EA	2194EX Network Interface Module Only, Zone 0 approved. (Teledyne Isco 602004333)	5,978.54	296.71
		Note: The 2194EX module is to be installed in the safe area where it can serve as a network isolator and power supply for a 2150EX module installed in a potentially explosive atmosphere. Requires a power source, Network Interface connector Kit (60-2004-468), and a 2100EX bottom plate.		
46 82 83 00-4460	EA	AV2150EX Area Velocity EX Sensor for 2150EX, 2151, and 2151P, with 3 meter (10 ft) level measurement range and 10 meter (33 ft) cable, Zone 0 and Cl I, Div 1 approved. (Teledyne Isco 602004331)	3,117.35	154.72
46 82 83 00-4461	EA	AV2150EX-CTL Area Velocity EX Sensor for 2150EX, 2151, and 2151P, with 3 meter (10 feet) level measurement range and 25 meter (82 ft), Zone 0 and Cl I, Div 1 approved. (Teledyne Isco 602004334)	3,375.79	167.54
		Note: Contact factory for cable lengths less than 25 meters.		
46 82 83 00-4462	EA	Charger for 2196EX Battery Module. (Teledyne Isco 682000044)	457.43	22.70

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4463	EA	Cable assembly, 2196EX charger. (For use with Isco Model 963 or 965 battery chargers.) (Teledyne Isco 602004547)	224.14	11.12
46 82 83 00-4464	EA	RS232EX Isolator cable, 3 m, Zone 0 and Cl I, Div 1 approved. Connects to NET2EX or NET8EX network cable and personal computer D-Sub (Serial Port) connector located in safe area. (Teledyne Isco 602004339)	1,971.50	97.84
46 82 83 00-4465	EA	NET2EX Network Cable, 2 m, Zone 0 and Cl I, Div 1 approved. (Teledyne Isco 602004335) Note: Provides connection to RS232EX Isolator Cable or RS485EX Isolator Cable.	1,479.77	73.43
46 82 83 00-4466	EA	NET8EX Network cable, 8 m, Zone 0 and Cl I, Div 1 approved. (Teledyne Isco 602004336) Note: Provides connection to RS232EX Isolator Cable or RS485EX Isolator Cable.	1,246.47	61.87
46 82 83 00-4467	EA	RS485EX Isolator cable, 3 m, Zone 0 approved. (Teledyne Isco 602004340) Note: Connects to NET2EX or NET8EX network cable and to 2100 Series product located in safe area.	1,303.66	64.71
46 82 83 00-4468	EA	CA75EX Network Interface EX cable assembly, 75 meters for 2194EX and single or dual 2150EX, Zone 0 approved. (Teledyne Isco 602004337) Note: Contact factory for cable lengths less than 75 meters (246 feet).	992.61	49.26
46 82 83 00-4469	EA	CA150EX Network Interface EX cable assembly, 150 meters for 2194EX and single 2150EX, Zone 0 approved. (Teledyne Isco 602004338) Note: Contact factory for cable lengths less than 150 meters (492 feet).	1,454.61	72.20
46 82 83 00-4470	EA	2100EX Bottom Plate for 2194EX, 2191EX, and 2150EX, Zone 0 and Cl I, Div 1 approved. (Teledyne Isco 682000028)	480.30	23.84
46 82 83 00-4471	EA	2151 Flow System with two 6 Voly DC alkaline batteries, Eveready Energizer 529. Includes Area Velocity Sensor with 10 ft. (3 m) level measurement range and 25 ft. (7.6 m) cable, carrying handle with suspension strap, RS232 Barrier Communication Cable. Also includes instruction manual and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682000008) Note: Requires Flowlink software (sold separately).	14,838.84	736.46
46 82 83 00-4472	EA	2151 Flow System with two 6 Volt DC alkaline batteries. Eveready Energizer 529. Includes Area Velocity Sensor with 10 ft. (3 m) level measurement range and 25 ft. (7.6 m) cable, and carrying handle with suspension strap. Also includes instruction manual and coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 682000009) Note: Requires Flowlink software and RS232 Barrier Communication Cable (both sold separately).	13,713.57	680.60
46 82 83 00-4473	EA	2151P Flow System. Includes 2100 Series Connect Cable and Area Velocity Sensor with 10 ft. (3 m) level measurement range and 25 ft. (7.6 m) cable. Also includes instruction manual and coupon for free Isco Open Channel Flow Measurement handbook. (Teledyne Isco 682000011) Note: Requires Flowlink software (sold separately).	13,176.10	653.94
46 82 83 00-4474	EA	RS232 Communication/Barrier Cable, 25 ft. (7.6 m). Connects 2151 Area Velocity System to PC with 9 pin Serial port connector. (Teledyne Isco 602004153)	1,038.35	51.54
46 82 83 00-4475	EA	NTWK ISLTR HAZLOC Network Communication Isolator. Connects 2151 Area Velocity Flow System to 2100 series product located in the safe area. DIN rail mounted. (Teledyne Isco 602004224) Note: Requires cable (CA ASSY CSA NTWK or CA ASSY CSA NTWK75) to connect to Isolator.	1,020.05	50.62
46 82 83 00-4476	EA	CA ASSY CSA NTWK Network Communication/Barrier Cable, 25 ft. (7.6 m). (Teledyne Isco 602004201) Note: Connects 2151 Area Velocity Flow System to 2100 series product located in the safe area.	903.42	44.83
46 82 83 00-4477	EA	CA ASSY CSA NTWK75 Network communication/barrier cable, 75 ft. (23 m). (Teledyne Isco 602004263) Note: Connects 2151 area velocity flow system to 2100 series product located in the safe area.	1,159.57	57.55
46 82 83 00-4478	EA	Maintenance Kit for 2151 Flow System. Includes four O-rings for connectors, silicon grease for O-ring lubricant, hydrophobic filter, two O-rings for desiccant cartridge, desiccant, and instructions. (Teledyne Isco 602009005)	121.22	6.01
46 82 83 00-4479	EA	Entity Rated Power Barrier. CSA approved power isolator. Converts 100-250 Volt AC to intrinsically-safe 12 Volt DC out. DIN rail mounted. (Teledyne Isco 341001201)	3,247.71	161.18
46 82 83 00-4480	EA	Dummy Barrier. Secures and terminates unused wires in the hazardous area. DIN rail mounted. (Teledyne Isco 109022008)	354.51	17.59
46 82 83 00-4481	EA	2151 Flow System Instruction Manual. (Teledyne Isco 602004162)	135.97	
46 82 83 00-4482	EA	Flowlink 5.1 Software, two user licenses. For retrieving measurement, parameter, and sample data from Isco 2100 Series Modules and 2101 Field Wizard, 4100 Series Flow Loggers, 4200 Series Flow Meters, Pulsed Doppler Flow Meters, 6700 Series/Avalanche Samplers, 676 and 677 Logging Rain Gauge Systems, and 581 Rapid Transfer Device. Stores data in a database and generates a variety of user-customizable graphs and tables. Data can also be exported in ASCII format for analysis by programs such as Microsoft Excel, HTML format for viewing in a web browser, and PDF format for viewing in Adobe Reader. Operates on Windows XP, Vista, 7, Server 2003, and Server 2008. Supplied on CD-ROM. Software supports multiple languages, one of which is selected during installation. (Teledyne Isco 682540200)	4,700.03	233.26
46 82 83 00-4483	EA	Flowlink LE Software, single user license. For retrieving measurement, parameter, and sample data from Isco 2100 Series Modules, 4100 Series Flow Loggers, 4200 Series Flow Meters, Pulsed Doppler Flow Meters, 6700 Series/Avalanche Samplers, 676 and 677 Logging Rain Gauge Systems, and 581 Rapid Transfer Device. Stores data in a database and generates a graph and table of a single data series. Data can also be exported in ASCII format for analysis by programs such as Microsoft Excel. Operates on Windows XP, Vista, 7, Server 2003, and Server 2008. Supplied on CD-ROM. Software supports multiple languages, one of which is selected during installation. Note that Flowlink LE does not support the 2101 Field Wizard, data editing, and graphs using multiple data series. If these functions are needed, order Flowlink 5.1 instead. (Teledyne Isco 682540201)	686.13	34.06
46 82 83 00-4484	EA	Flowlink 5.1 Software Lease, two user licenses for lease customers. Contact factory for pricing based on lease period. (Teledyne Isco 682540203)	4,700.03	233.26
46 82 83 00-4485	EA	Flowlink 5.1 Software, One additional user license. (Teledyne Isco 682540204)	891.98	44.27
46 82 83 00-4486	EA	Flowlink 5.1 software, two user licenses. Special pricing for Flowlink 5.0 users. (Teledyne Isco 682540209)	297.32	14.76
46 82 83 00-4487	EA	Flowlink 5.1 Software. Special pricing to upgrade additional user licenses of Flowlink 5.0 previously purchased as catalog number 68-2540-204. (Teledyne Isco 682540275)	68.62	3.40
46 82 83 00-4488	EA	Flowlink 5.1 Software, two user licenses. Special pricing for current Flowlink 4 users. (Teledyne Isco 682540205)	1,829.69	90.80
46 82 83 00-4489	EA	Flowlink 5.1 Software, two user licenses. Special pricing for current Flowlink LE users. (Teledyne Isco 682540208)	4,071.08	202.05
46 82 83 00-4490	EA	Flowlink Pro software, two total licenses. Supplied on CD-ROM. For retrieving flow, rainfall, parameter and sample data from Isco 2100 Series Modules and 2100 Field Wizard, 4100 Series Flow Loggers, 4200 Series Flow Meters, Pulsed Doppler Flow Meters, 6700 Series/Avalanche Samplers, 676 and 677 Logging Rain Gauge Systems, and 581 Rapid Transfer Device. Stores data in a Microsoft SQL or Oracle central database and generates a variety of graphs and tables from stored data. Data can also be exported in ASCII format for analysis by programs such as Microsoft Excel, HTML format for viewing in a web browser, and PDF format for viewing in Adobe Reader. Server software to support central database connections, pushed instrument data, server alarms, and web display of data. Flowlink Server operates on Windows Server 2003 and Server 2008. Enterprise database software required but not included. (Teledyne Isco 682540276)	7,055.76	350.18

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4491	EA	Flowlink Pro software, five total licenses. Supplied on CD-ROM. For retrieving flow, rainfall, parameter and sample data from Isco 2100 Series Modules and 2100 Field Wizard, 4100 Series Flow Loggers, 4200 Series Flow Meters, Pulsed Doppler Flow Meters, 6700 Series/Avalanche Samplers, 676 and 677 Logging Rain Gauge Systems, and 581 Rapid Transfer Device. Stores data in a Microsoft SQL or Oracle central database and generates a variety of graphs and tables from stored data. Data can also be exported in ASCII format for analysis by programs such as Microsoft Excel, HTML format for viewing in a web browser, and PDF format for viewing in Adobe Reader. Server software to support central database connections, pushed instrument data, server alarms, and web display of data. Flowlink Server operates on Windows Server 2003 and Server 2008. Enterprise database software required but not included. (Teledyne Isco 682540277)	16,478.70	817.83
46 82 83 00-4492	EA	Flowlink Pro software, eight total licenses. Supplied on CD-ROM. For retrieving flow, rainfall, parameter and sample data from Isco 2100 Series Modules and 2100 Field Wizard, 4100 Series Flow Loggers, 4200 Series Flow Meters, Pulsed Doppler Flow Meters, 6700 Series/Avalanche Samplers, 676 and 677 Logging Rain Gauge Systems, and 581 Rapid Transfer Device. Stores data in a Microsoft SQL or Oracle central database and generates a variety of graphs and tables from stored data. Data can also be exported in ASCII format for analysis by programs such as Microsoft Excel, HTML format for viewing in a web browser, and PDF format for viewing in Adobe Reader. Server software to support central database connections, pushed instrument data, server alarms, and web display of data. Flowlink Server operates on Windows Server 2003 and Server 2008. Enterprise database software required but not included. (Teledyne Isco 682540270)	23,545.90	1,168.58
46 82 83 00-4493	EA	Flowlink Pro software, fifteen total licenses. Supplied on CD-ROM. For retrieving flow, rainfall, parameter and sample data from Isco 2100 Series Modules and 2100 Field Wizard, 4100 Series Flow Loggers, 4200 Series Flow Meters, Pulsed Doppler Flow Meters, 6700 Series/Avalanche Samplers, 676 and 677 Logging Rain Gauge Systems, and 581 Rapid Transfer Device. Stores data in a Microsoft SQL or Oracle central database and generates a variety of graphs and tables from stored data. Data can also be exported in ASCII format for analysis by programs such as Microsoft Excel, HTML format for viewing in a web browser, and PDF format for viewing in Adobe Reader. Server software to support central database connections, pushed instrument data, server alarms, and web display of data. Flowlink Server operates on Windows Server 2003 and Server 2008. Enterprise database software required but excluded. (Teledyne Isco 682540278)	38,858.16	1,928.53
46 82 83 00-4494	EA	Flowlink Pro Software, one additional license. (Teledyne Isco 682540271)	3,522.15	174.81
46 82 83 00-4495	EA	Flowlink Pro Software, special pricing for current Flowlink 5 users, eight total licenses. Discounts pricing of Flowlink Pro software as described by part number 68-2540-270 for current Flowlink 5 users. (Teledyne Isco 682540272)	18,834.43	934.75
46 82 83 00-4496	EA	Flowlink Pro Software, special pricing for current Flowlink 5 users, two total licenses. Discounts pricing of Flowlink Pro software as described by part number 68-2540-276 for current Flowlink 5 users. (Teledyne Isco 682540279)	2,355.72	116.92
46 82 83 00-4497	EA	accQpulse Shallow Water ADFM. Includes sensor with 15m (49 ft.) cable, NEMA 6P (IP68) field housing, WinADFM software, and operation manual. Replaces 687400010 when 10m cable inventory is depleted. (Teledyne Isco 687400015)	35,692.79	1,771.44
46 82 83 00-4498	EA	accQpulse Shallow Water ADFM. Includes sensor with 45 m (147 ft.) cable, NEMA 6P (IP68) field housing, WinADFM software, and operation manual. (Teledyne Isco 687400045)	38,037.08	1,887.79
46 82 83 00-4499	EA	accQpulse Deep Water ADFM. Includes sensor with 15m (49 ft.) cable, IP68 field housing, WinADFM software, and operation manual. (Teledyne Isco 687400315)	38,037.08	1,887.79
46 82 83 00-4500	EA	accQpulse Deep Water ADFM. Includes sensor with 45 m (147 ft.) cable, IP68 field housing, WinADFM software, and operation manual. (Teledyne Isco 687400345)	39,395.64	1,955.21
46 82 83 00-4501	EA	accQpulse electronics assembly. (Teledyne Isco 627400010)	27,429.43	1,361.32
46 82 83 00-4502	EA	IS shallow water accQpulse sensor with 15 m (49 ft.) cable. (Teledyne Isco 607404915)	8,322.83	413.06
46 82 83 00-4503	EA	IS shallow water accQpulse sensor with 45 m (147 ft.) cable. (Teledyne Isco 607404945)	10,406.40	516.47
46 82 83 00-4504	EA	IS deep water accQpulse sensor with 15 m (49 ft.) cable. (Teledyne Isco 607904915)	10,406.40	516.47
46 82 83 00-4505	EA	IS deep water accQpulse sensor with 45 m (147 ft.) cable. (Teledyne Isco 607904945)	12,693.53	629.98
46 82 83 00-4506	EA	RS232 Communication Cable, 10 ft. (3 m). Connects accQpulse, ADFM Box, or ADFM Canister with Amp connectors to PC with 9-pin serial port connector. (Teledyne Isco 607004057)	198.98	9.88
46 82 83 00-4507	EA	Wall/Console mounting kit, accQpulse electronics. (Teledyne Isco 607409001)	128.08	6.37
46 82 83 00-4508	EA	SPA 1939. Extension cable for accQpulse sensor. Total cable length should not exceed 150 ft. without prior factory approval. (Teledyne Isco 605314939)	1,623.85	80.59
		For Each LF Of AccQpulse Sensor Extension Cable, Add	*11.93*	
46 82 83 00-4509	EA	IS shallow water accQpulse flow meter system with QBADFM Barrier module. Base price includes accQpulse electronics assembly, IS shallow water accQpulse sensor with 15 m (49 ft.) cable, WinADFM software, operation manual, and 60-7404-023 QBADFM module pre-wired with cut-to-length Q75EXT-CTL barrier to sensor extension cable. (Teledyne Isco 687400115)	40,664.99	2,018.20
		Note: The Q75EXT-CTL cable can be cut to length up to 60 m (196 ft) for additional cost. Specify Q75EXT-CTL cable length on order. Total length of IS shallow water accQpulse sensor cable plus Q75EXT-CTL cable cannot exceed 75 m (245 ft). Order power accessories separately. Contact factory for assistance with conduit applications.		
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	
46 82 83 00-4510	EA	IS shallow water accQpulse flow meter system with QBADFM Barrier module. Base price includes accQpulse electronics assembly, IS shallow water accQpulse sensor with 45 m (147 ft.) cable, WinADFM software, operation manual, and 60-7404-023 QBADFM module with pre-wired cut-to-length Q75EXT-CTL barrier to sensor extension cable. (Teledyne Isco 687400145)	43,318.04	2,149.89
		Note: The Q75EXT-CTL cable can be cut to length up to 30 m (98 ft) for additional cost. Specify Q75EXT-CTL cable length on order. Total length of IS shallow water accQpulse sensor cable plus Q75EXT-CTL cable cannot exceed 75 m (245 ft). Order power accessories separately. Contact factory for assistance with conduit applications.		
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	
46 82 83 00-4511	EA	IS shallow water accQpulse flow meter system with QBADFM Barrier module and secondary pressure sensor. Base price includes accQpulse electronics assembly, IS shallow water accQpulse sensor with 15 m (49 ft.) cable,secondary pressure sensor (specify maximum pressure rating (2.5 to 30 psi), and cable length (250 ft. or 76.2 meters maximum) at time of order), WinADFM software, operation manual, and 60-7404-022 QBADFM module with secondary pressure sensor support pre-wired with cut-to-length Q75EXT-CTL and P75EXT-CTL barrier to sensor extension cables. (Teledyne Isco 687400215)	48,875.75	2,425.71
		Note: The Q75EXT-CTL and P75EXT-CTL cables can be cut to length up to 60 m (196 ft) for additional cost. Specify Q75EXT-CTL cable length on order. Total length of either sensor cable plus extension cable cannot exceed 75 m (245 ft). Order power accessories separately. Contact factory for assistance with conduit applications.		
		For Each LF Of P75EXT-CTL Cable, Add	*2.16*	
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4512	EA	IS shallow water accQpulse flow meter system with QBADFM Barrier module and secondary pressure sensor. Base price includes accQpulse electronics assembly, IS shallow water accQpulse sensor with 45 m (147 ft.) cable, secondary pressure sensor (specify maximum pressure rating (2.5 to 30 psi), and cable length (250 ft. or 76.2 meters maximum) at time of order), WinADFM software, operation manual, and 60-7404-022 QBADFM module with secondary pressure sensor support with pre-wired cut-to-length Q75EXT-CTL and P75EXT-CTL barrier to sensor extension cables. (Teledyne Isco 687400245)	52,009.10	2,581.21
		Note: The Q75EXT-CTL and P75EXT-CTL cables can be cut to length up to 30 m (98 ft) for additional cost. Specify Q75EXT-CTL and P75EXT-CTL cable lengths on order. Total length of either sensor cable plus extension cable cannot exceed 75 m (245 ft). Order power accessories separately. Contact factory for assistance with conduit applications.		
		For Each LF Of P75EXT-CTL Cable, Add	*2.16*	
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	
46 82 83 00-4513	EA	IS deepwater accQpulse flow meter system with QBADFM Barrier module. Base price includes accQpulse electronics assembly, IS deepwater accQpulse sensor with 15 m (49 ft.) cable, WinADFM software, operation manual, and 60-7404-023 QBADFM module pre-wired with cut-to-length Q75EXT-CTL barrier to sensor extension cable. (Teledyne Isco 687400415)	42,997.85	2,133.98
		Note: The Q75EXT-CTL cable can be cut to length up to 60 m (196 ft) for additional cost. Specify Q75EXT-CTL cable length on order. Total length of IS deepwater accQpulse sensor cable plus Q75EXT-CTL cable cannot exceed 75 m (245 ft). Order power accessories separately. Contact factory for assistance with conduit applications.		
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	
46 82 83 00-4514	EA	IS deepwater accQpulse flow meter system with QBADFM Barrier module. Base price includes accQpulse electronics assembly, IS deepwater accQpulse sensor with 45 m (147 ft.) cable, WinADFM software, operation manual, and 60-7404-023 QBADFM module with pre-wired cut-to-length Q75EXT-CTL barrier to sensor extension cable. (Teledyne Isco 687400445)	45,673.78	2,266.79
		Note: The Q75EXT-CTL cable can be cut to length up to 30 m (98 ft) for additional cost. Specify Q75EXT-CTL cable length on order. Total length of IS deepwater accQpulse sensor cable plus Q75EXT-CTL cable cannot exceed 75 m (245 ft). Order power accessories separately. Contact factory for assistance with conduit applications.		
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	
46 82 83 00-4515	EA	IS deepwater accQpulse flow meter system with QBADFM Barrier module and secondary pressure sensor. Base price includes accQpulse electronics assembly, IS deepwater accQpulse sensor with 15 m (49 ft.) cable, secondary pressure sensor (specify maximum pressure rating (2.5 to 30 psi), and cable length (250 ft. or 76.2 meters maximum) at time of order), operation manual, and 60-7404-022 QBADFM module with secondary pressure sensor support pre-wired with cut-to-length Q75EXT-CTL and P75EXT-CTL barrier to sensor extension cables. (Teledyne Isco 687400515)	51,208.60	2,541.49
		Note: The Q75EXT-CTL and P75EXT-CTL cables can be cut to length up to 60 m (196 ft) for additional cost. Specify Q75EXT-CTL cable length on order. Total length of either sensor cable plus extension cable cannot exceed 75 m (245 ft). Order power accessories separately. Contact factory for assistance with conduit applications.		
		For Each LF Of P75EXT-CTL Cable, Add	*2.16*	
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	
46 82 83 00-4516	EA	IS deepwater accQpulse flow meter system with QBADFM Barrier module and secondary pressure sensor. Base price includes accQpulse electronics assembly, IS deepwater accQpulse sensor with 45 m (147 ft.) cable, secondary pressure sensor (specify maximum pressure rating (2.5 to 30 psi), and cable length (250 ft. or 76.2 meters maximum) at time of order), WinADFM software, operation manual, and 60-7404-022 QBADFM module with secondary pressure sensor support with pre-wired cut-to-length Q75EXT-CTL and P75EXT-CTL barrier to sensor extension cables. (Teledyne Isco 687400545)	54,341.97	2,696.99
		Note: The Q75EXT-CTL and P75EXT-CTL cables can be cut to length up to 30 m (98 ft) for additional cost. Specify Q75EXT-CTL and P75EXT-CTL cable lengths on order. Total length of either sensor cable plus extension cable cannot exceed 75 m (245 ft). Order power accessories separately. Contact factory for assistance with conduit applications.		
		For Each LF Of P75EXT-CTL Cable, Add	*2.16*	
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	
46 82 83 00-4517	EA	QBADFM Barrier Module without secondary pressure sensor support. (Teledyne Isco 607404023)	4,825.83	239.51
		Note: Base price includes module pre-wired with cut-to-length Q75EXT-CTL barrier to IS accQmin sensor extension cable. Specify the Q75EXT-CTL cable length on order. Total length of IS accQmin sensor cable plus Q75EXT-CTL cable cannot exceed 75 m (245 ft).		
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	
46 82 83 00-4518	EA	accQpulse Secondary Pressure Sensor Kit for QBADFM Barrier Module 60-7404-023. Kit installs accQpulse Secondary Pressure Sensor Upgrade Kit (60-7407-001), Signal Barrier (109-0220-24) with mounting bracket, and cut-to-length P75EXT-CTL secondary pressure sensor extension cable. (Teledyne Isco 687400107)	2,241.38	111.24
		Note: Specify cable lengths on order. Total length of secondary pressure sensor cable plus P75EXT-CTL cable cannot exceed 75 m (245 ft). Requires IS secondary pressure sensor for accQpulse at desired cable length and depth range, ordered separately.		
		For Each LF Of P75EXT-CTL Cable, Add	*2.16*	
46 82 83 00-4519	EA	QBADFM Barrier Module with secondary pressure sensor support. (Teledyne Isco 607404022)	6,998.58	347.34
		Note: Module includes accQpulse Secondary Pressure Sensor Factory Upgrade 68-7400-107. Module is pre-wired with cut-to-length Q75EXT-CTL barrier to IS accQmin sensor extension cable and cut-to-length P75EXT-CTL barrier to pressure sensor extension cable. Specify cable lengths on order. Total length of each pair of sensor cable plus extension cable cannot exceed 75 m (245 ft).		
		For Each LF Of P75EXT-CTL Cable, Add	*2.16*	
		For Each LF Of Q75EX-CTL Cable, Add	*11.68*	
46 82 83 00-4520	EA	accQpulse Secondary Pressure Sensor Kit for QBADFM Barrier. (Teledyne Isco 607407001)	480.30	23.84
		Note: Allows use of any "MTL 700" barrier. Includes components to field upgrade IS accQpulse barrier for the secondary pressure option. Kit includes stand-alone signal barrier mounting bracket, scaling resistor, label, and input cable. Order the signal barrier, secondary pressure sensor, and P75EXT-CTL secondary pressure sensor extension cable separately as needed.		
46 82 83 00-4521	EA	Q75EXT-CTL IS accQpulse sensor extension cable, custom length. (Teledyne Isco 607404975)	594.66	29.51
		Note: Base price includes 1 m (3 ft). Total length of IS accQpulse sensor cable plus Q75EXT-CTL cable cannot exceed 75 m (245 ft). Specify extension cable length on order.		
		For Each LF Of AccQpulse Sensor Extension Cable, Add	*11.93*	
46 82 83 00-4522	EA	P75EXT-CTL secondary pressure sensor extension cable, custom length. (Teledyne Isco 607404875)	274.45	13.62
		Note: Base price includes 1 m (3 ft). Total length of secondary pressure sensor cable plus P75EXT-CTL cable cannot exceed 75 m (245 ft). Specify extension cable length on order.		
		For Each LF Of Extension Cable, Add	*2.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4523	EA	Signal Barrier replacement, MTL700 Series Analog 4-20. Stand-alone signal barrier for secondary pressure sensor. (Teledyne Isco 109022024)	834.80	41.44
46 82 83 00-4524	EA	Power Supply Kit, 18 Volt DC chassis mount, for IS accQpulse installations. (Teledyne Isco 607404028) Note: This 30 watt power supply accepts universal AC input (100-240 Volt AC 50/60 Hz) at wire terminals and includes cable and connector for accQpulse electronics. Voltage suitable for accQcomm power. For DIN rail mounting use 109022025 mounting bracket.	386.52	19.19
46 82 83 00-4525	EA	SPA 1905, DC 24 Volt - 18 Volt power cable pigtail for IS accQpulse systems with Amp connector. (Teledyne Isco 605314905) Note: Provides recommended 18 Volt DC from user supplied - 24 Volt DC supplies.	365.94	18.15
46 82 83 00-4526	EA	ADFM Pro20-HTI-Box. (Teledyne Isco 687200006) Note: Includes hot tap insertion sensor with 15 m (49 ft.) cable, NEMA 4X box housing, WinADFM software, and operation manual.	54,447.18	2,702.21
46 82 83 00-4527	EA	ADFM Pro20-HTI-Box. (Teledyne Isco 687200016) Note: Includes hot tap insertion sensor with 30 m (98 ft.) cable, NEMA 4X box housing, WinADFM software, and operation manual.	54,504.35	2,705.06
46 82 83 00-4528	EA	ADFM Pro20-Box. Replacement electronics in NEMA 4X (IP66) box housing. (Teledyne Isco 627100005)	29,714.25	1,474.72
46 82 83 00-4529	EA	Hot Tap Insertion sensor with 15 m (49 ft.) cable. (Teledyne Isco 607004077)	24,099.37	1,196.05
46 82 83 00-4530	EA	Hot Tap Insertion sensor with 30 m (98 ft.) cable. (Teledyne Isco 607004078)	24,991.35	1,240.33
46 82 83 00-4531	EA	RS232 Communication Cable, 10 ft. (3 m). Connects ADFM Canister with Crown connector to PC with 9-pin serial port connector. (Teledyne Isco 607004027)	247.01	12.26
46 82 83 00-4532	EA	SPA 1677. Cut to Length cable and custom length shaft Hot Tap, Specify shaft length (max 1.52 m/60 inches) and cable length (max 30 m/98 feet). (Teledyne Isco 605314677)	26,690.70	1,324.65
46 82 83 00-4533	EA	H-ADFM 1200. 1200 KHz 20 m (65 ft.) range Channel Master sensor with RS232 personality module (Teledyne Isco 687300232) Note: Includes 25 m (82 ft.) cable, NEMA 4X box enclosure, accQcomm Digital Interface Module, WinHADFM software, and operation manual.	49,230.25	2,443.31
46 82 83 00-4534	EA	H-ADFM 1200. 1200 KHz 20 m (65 ft.) range Channel Master sensor with RS422 personality module (Teledyne Isco 687300422) Note: Includes 25 m (82 ft.) cable, NEMA 4X box enclosure, accQcomm Digital Interface Module, WinHADFM software, and operation manual.	48,029.52	2,383.71
46 82 83 00-4535	EA	H-ADFM slide mount kit. (Teledyne Isco 607309001) Note: Kit includes spacers, top and bottom mounting brackets, mounting feet, and hardware. Customer must supply rails.	997.18	49.49
46 82 83 00-4536	EA	accQcomm Digital Interface Module. (Teledyne Isco 687500010)	4,736.63	235.08
46 82 83 00-4537	EA	accQcomm Digital Interface Module with one 4-20 mA output. (Teledyne Isco 687500011)	5,063.67	251.31
46 82 83 00-4538	EA	accQcomm Digital Interface Module with two 4-20 mA outputs. (Teledyne Isco 687500012)	5,438.77	269.93
46 82 83 00-4539	EA	accQcomm Digital Interface Module with three 4-20 mA outputs. (Teledyne Isco 687500013)	5,802.43	287.98
46 82 83 00-4540	EA	accQcomm Digital Interface Module with four 4-20 mA outputs. (Teledyne Isco 687500014)	6,177.52	306.58
46 82 83 00-4541	EA	SPA 1719. for mounting the accQcomm module remote from an ADFM or accQpulse. (Teledyne Isco 605314719) Note: Includes RS-232 to RS-422 converter, NEMA 4X enclosure, power cable, and cut-to-length RS232 signal cable.	1,038.35	51.54
		For Each LF Of RS232 Signal Cable, Add	*7.05*	
46 82 83 00-4542	EA	Power Supply Kit, 24 Volt DC, for analog output modules. (Teledyne Isco 607009001) Note: Kit includes a 24 Volt DC, 15 watt power supply with interchangeable plugs for domestic or international use. Power supply plugs directly into a standard AC outlet (100-240 VAC, 50-60 Hz). Power supply cable terminates in a connector compatible with the jack on the analog output module circuit board. (Kit included with analog output module)	137.23	6.82
46 82 83 00-4543	EA	Power Supply Kit, 24 Volt DC, for accQcomm. (Teledyne Isco 607504017) Note: Kit includes a 24 Volt DC, 15 watt power supply with interchangeable plugs for domestic or international use. Power supply plugs directly into a standard AC outlet (100-240 VAC, 50-60 Hz). Power supply cable terminates in individual conductors prepared for wiring into the accQcomm DC +/- terminals. (Kit included with accQcomm)	164.68	8.17
46 82 83 00-4544	EA	Power Supply Kit, 24 Volt DC, for accQpulse/ADFM. (Teledyne Isco 607504018) Note: Kit includes a 24 Volt DC, 15 watt power supply with interchangeable plugs for domestic or international use. Power supply plugs directly into a standard AC outlet (100-240 Volt AC, 50-60 Hz). Power supply cable terminates in a connector compatible with the DC power supply connector on the accQmin, ADFM box electronics assembly, or ADFM canister electronics assembly with Amp connectors. (Not required if used with accQcomm)	221.85	11.01
46 82 83 00-4545	EA	Power Supply Kit, 24 Volt DC, for non-IS ADFM canister. (Teledyne Isco 607104011) Note: Kit includes a 24 Volt DC, 15 watt power supply with interchangeable plugs for domestic or international use. Power supply plugs directly into a standard AC outlet (100-240 Volt AC, 50-60 Hz). Power supply cable terminates in a connector compatible with the DC power supply connector on the non-IS ADFM canister with Crown connectors. (Not required if used with accQcomm)	217.28	10.78
46 82 83 00-4546	EA	Power supply, 24 Volt DC DIN Rail Mount. (Teledyne Isco 109022019) Note: This 45 watt power supply accepts universal AC input (100-240 Volt AC) and 24 Volt DC at 2 amperes maximum. Includes short circuit, overload, over voltage, and over temperature protection.	240.15	11.92
46 82 83 00-4547	EA	ADFM Sensor Debris Fairing Kit, 3-inch lift. (Teledyne Isco 607004042)	2,696.52	133.82
46 82 83 00-4548	EA	ADFM Sensor Debris Fairing Kit Spacer, 1-inch lift. (Teledyne Isco 607004043)	766.17	38.03
46 82 83 00-4549	EA	ADFM Sensor Debris Fairing Kit Spacer, 2-inch lift. (Teledyne Isco 607004044)	891.98	44.27
46 82 83 00-4550	EA	ADFM Sensor Debris Fairing Kit Spacer, 4-inch lift. (Teledyne Isco 607004045)	1,177.87	58.45
46 82 83 00-4551	EA	Hardware Kit, ADFM fairing/spacer. (Teledyne Isco 607619001) Note: Kit includes all hardware required to mount the ADFM sensor to the fairing and/or spacers and secure the fairing/spacers to the mounting rings. Kit accommodates up to 8 inches total fairing/spacer height. If greater height is required use multiple kits.	937.71	46.54
46 82 83 00-4552	EA	Deep Water accQpulse Sensor Debris Fairing Kit, 3-inch lift (Teledyne Isco 60-7404-046)	1,406.58	69.81
46 82 83 00-4553	EA	Deep Water accQpulse Sensor Debris Fairing only, 3-inch lift (Teledyne Isco 607403040)	1,360.84	67.54
46 82 83 00-4554	EA	Deep Water accQpulse Sensor Debris Fairing Kit Spacer , 1-inch lift (Teledyne Isco 607004090)	1,532.38	76.04
46 82 83 00-4555	EA	Deep Water accQpulse Sensor Debris Fairing Kit Spacer , 2-inch lift (Teledyne Isco 607004091)	1,543.80	76.63
46 82 83 00-4556	EA	Deep Water accQpulse Sensor Debris Fairing Kit Spacer , 4-inch lift (Teledyne Isco 607004092)	1,555.25	77.19
46 82 83 00-4557	EA	accQpulse shallow water flow conditioning platform for 8-inch round pipe. (Teledyne Isco 607404002)	2,355.72	116.92
46 82 83 00-4558	EA	accQpulse shallow water flow conditioning platform for 12-inch round pipe. (Teledyne Isco 607404003)	2,415.21	119.86
46 82 83 00-4559	EA	accQpulse shallow water flow conditioning platform for 18-inch round pipe. (Teledyne Isco 607404004)	2,355.72	116.92
46 82 83 00-4560	EA	accQpulse shallow water flow conditioning platform for 24-inch round pipe. (Teledyne Isco 607404005)	2,355.72	116.92

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4561	EA	SPA 1763. Custom-length pressure sensor for accQpulse. (Teledyne Isco 605314763) Note: Specify maximum pressure rating (2.5 to 30 psi), and cable length (250 ft. or 76.2 meters maximum) at time of order.	4,888.72	242.63
46 82 83 00-4562	EA	Secondary Pressure (depth) sensor for IS accQmin with 15 meter (49 ft) cable. Specify depth range (psi). (Teledyne Isco 607404815)	5,379.31	266.97
46 82 83 00-4563	EA	Secondary Pressure (depth) sensor for IS accQmin with 45 meter (147 ft) cable. Specify depth range (psi). (Teledyne Isco 607404845)	5,477.65	271.85
46 82 83 00-4564	EA	Secondary Depth Sensor, Custom length, for Intrinsically-safe accQpulse. (Teledyne Isco 607404899) Note: Specify cable length (max 250' meters maximum) at time of order. Specify maximum pressure rating at time of order.	5,706.37	283.21
46 82 83 00-4565	EA	Ultrasonic Secondary Depth System for ADFM and accQpulse. Isco 3010 ultrasonic flow meter, sensor with custom-length interface cable, and sensor mounting bracket (Teledyne Isco 685304008) Note: Specify cable length (250 ft. or 76.2 meters maximum) when ordering.	5,043.10	250.29
46 82 83 00-4566	EA	accQpulse Console, 115/230 Volt AC, Without Heater. Dimensions (L x W x D): 24 x 24 x 10 inches (61 x 61 x 25 cm). (Teledyne Isco 607404017)	5,720.08	283.88
46 82 83 00-4567	EA	ADFM/accQpulse Console, 115 Volt AC, Without Heater. Dimensions (L x W x D): 36 x 36 x 10 inches (91 x 91 x 25 cm). (Teledyne Isco 627800015)	8,885.47	440.99
46 82 83 00-4568	EA	ADFM/accQpulse Console, 115 Volt AC, With 400 Watt Heater. Dimensions (L x W x D): 36 x 36 x 10 inches (91 x 91 x 25 cm). (Teledyne Isco 627800415)	9,775.15	485.15
46 82 83 00-4569	EA	ADFM/accQpulse Console, 115 Volt AC, With 800 Watt Heater. Dimensions (L x W x D): 36 x 36 x 10 inches (91 x 91 x 25 cm). (Teledyne Isco 627800815)	9,905.51	491.61
46 82 83 00-4570	EA	ADFM/accQpulse Console, 230 Volt AC, without heater. Dimensions (L x W x D): 36 x 36 x 10 inches (91 x 91 x 25 cm). (Teledyne Isco 627800023)	8,668.18	430.20
46 82 83 00-4571	EA	ADFM/accQpulse Console, 230 Volt AC, with 400 watt heater. Dimensions (L x W x D): 36 x 36 x 10 inches (91 x 91 x 25 cm). (Teledyne Isco 627800423)	9,537.29	473.34
46 82 83 00-4572	EA	ADFM/accQpulse Console, 230 Volt AC, with 800 watt heater. Dimensions (L x W x D): 36 x 36 x 10 inches (91 x 91 x 25 cm). (Teledyne Isco 627800823)	9,663.09	479.58
46 82 83 00-4573	EA	DC power cable pigtail for accQpulse, ADFM Box, and ADFM canister with Amp connectors (Teledyne Isco 607004062)	141.81	7.04
46 82 83 00-4574	EA	DC power cable pigtail for ADFM canister with Crown connectors (Teledyne Isco 607004041)	141.81	7.04
46 82 83 00-4575	EA	ADFM/accQpulse suspension harness kit. (Teledyne Isco 607109002)	235.57	11.70
46 82 83 00-4576	EA	SPA 1788. This Interface allows for a 2150 to enable/activate a ADFM on high flow/level conditions, via a 2105. 2150 used for normal flow conditions and ADFM for high flow conditions. (Teledyne Isco 605314788) Note: Uses the sample enable signal off the 2105 and redirects to control relay connected to ADFM Requires other standard cabling. Housed in a NEMA 4X box this unit is suitable as an accessory for in-field units.	1,213.32	60.22
46 82 83 00-4577	EA	SPA 1804. This Interface allows for a 2150 to enable/activate a ADFM on high flow/level conditions, via a 2105. Interface is internal to ADFM. Internal version of SPA 1788. 2150 used for normal flow conditions and ADFM for high flow conditions.(Teledyne Isco 605314804) Note: Uses the sample enable signal off the 2105 and redirects to control relay connected to ADFM Requires other standard cabling. Housed in the ADFM unit this accessory must be ordered along with the ADFM or contact factory for details.	1,213.32	60.22
46 82 83 00-4578	EA	SPA 1936. Extension cable for ADFM sensor, cut to length. Total cable length should not exceed 150 ft. without prior factory approval. (Teledyne Isco 605314936)	1,623.85	80.59
		For Each LF Of Extension Cable For ADFM Sensor, Add	*15.45*	
46 82 83 00-4579	EA	Flowlink Global One year Subscription for ONE database access (Teledyne Isco 682540280)	2,744.54	136.21
46 82 83 00-4580	EA	Flowlink Global One year Subscription for TEN database access (Teledyne Isco 682540283)	19,211.81	953.48
46 82 83 00-4581	EA	Flowlink Global One year Subscription for TWENTY FIVE database access (Teledyne Isco 682540286)	34,306.79	1,702.64
46 82 83 00-4582	EA	Flowlink Global One year Renewal Subscription for ONE database access. Please provide serial number of initial Flowlink Global subscription when ordering. (Teledyne Isco 682540281)	2,332.85	115.78
46 82 83 00-4583	EA	Flowlink Global One year Renewal Subscription for TEN database access.Please provide serial number of initial Flowlink Global subscription when ordering. (Teledyne Isco 682540284)	16,330.03	810.46
46 82 83 00-4584	EA	Flowlink Global One year Renewal Subscription for TWENTY FIVE database access. Please provide serial number of initial Flowlink Global subscription when ordering. (Teledyne Isco 682540287)	29,160.79	1,447.25
46 82 83 00-4585	EA	Sampler/flow meter cable, 10 ft., connects to sampler or flow meter. (Teledyne Isco 602544025)	272.17	13.51
46 82 83 00-4586	EA	Computer cable, 3 ft. Connects to computer, for computer with 9-pin connector. (Teledyne Isco 602544026)	201.27	9.99
46 82 83 00-4587	EA	Interrogator/Solar Panel extension cable, 25 ft. Connects between Sampler/flow meter cable (60-2544-025) and computer cable (60-2544-026 or 60-2544-027) to increase the distance between the sampler or flow meter and computer. Multiple extensions, up to four, may be used. (Teledyne Isco 602544028)	215.00	10.66
46 82 83 00-4588	EA	RTD extension cable. 25 ft., connects to flow meter or sampler and allows 581 RTD to retrieve data from an instrument located in a manhole or similar inaccessible location in which you cannot connect the RTD directly to the instrument. Multiple extension cables may be connected together. (Teledyne Isco 603774012)	263.01	13.05
46 82 83 00-4589	EA	581 RTD instruction manual. (Teledyne Isco 609003085)	61.80	
46 82 83 00-4590	EA	6712Ci modem module with 60-2004-550 dual band magnetic mount antenna. (Teledyne Isco 686710148)	5,157.46	255.97
46 82 83 00-4591	EA	Sensor carrier for attaching DO and temperature probes to Isco Mounting Rings. (Teledyne Isco 603204006)	121.22	6.01
46 82 83 00-4592	EA	Sensor carrier for attaching temperature probe only to Isco Mounting Rings. (Teledyne Isco 603204010)	107.49	5.33
46 82 83 00-4593	EA	ADFM/accQpulse Sensor and Fairing Mounting Plate. Mounts sensor to channel bottom with or without a fairing and spacers (ordered separately). 11" x 17" (Teledyne Isco 607613003)	269.88	13.40
46 82 83 00-4594	EA	Partial Ring for 54 inch and larger pipes. (Teledyne Isco 683000063) Note: Includes base section, one pair of 20 inch extensions, one pair of 30 inch extensions, and one pair of 40 inch extensions.	1,299.09	64.48
46 82 83 00-4595	EA	Scissors Ring scissors mechanism only. (Teledyne Isco 603004170)	638.11	31.67
46 82 83 00-4596	EA	Street Level Installation Tool Multi-section pole. (Teledyne Isco 603204012) Note: Includes one 2-1/2 ft. pole section with adapter for attaching mounting ring, six 2-1/2 ft. pole sections, and instruction manual.	1,600.98	79.46
46 82 83 00-4597	EA	Street Level Installation Tool Mounting Ring for 6 inch diameter pipe. (Teledyne Isco 603204014) Note: Includes strap.	558.05	27.69
46 82 83 00-4598	EA	Street Level Installation Tool Mounting Ring for 8 inch diameter pipe. (Teledyne Isco 603204015) Note: Includes strap.	558.05	27.69
46 82 83 00-4599	EA	Street Level Installation Tool Mounting Ring for 10 inch diameter pipe. (Teledyne Isco 603204016) Note: Includes strap.	558.05	27.69
46 82 83 00-4600	EA	Street Level Installation Tool Mounting Ring for 12 inch diameter pipe. (Teledyne Isco 603204017) Note: Includes strap.	558.05	27.69
46 82 83 00-4601	EA	Street Level Installation Tool Mounting Ring for 15 inch diameter pipe. (Teledyne Isco 603204018) Note: Includes strap.	558.05	27.69

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46 82 83 00-4602	EA	SPA 1307. 4-inch Street Level Mounting Ring (Teledyne Isco 605314307) Note: For use with low profile sensors. Ring only, excludes poles.	672.42	33.37
46 82 83 00-4603	EA	SPA 1989. 5-inch Street Level Mounting Ring. Similar to our street level mounting rings, but for 5 inch pipes. Ring only, excludes poles. (Teledyne Isco 605314989)	709.01	35.19
46 82 83 00-4604	EA	SPA 1831. 7-inch Street Level Mounting Ring (Teledyne Isco 605314831) Note: For use with low profile sensors. Ring only, excludes poles.	672.42	33.37
46 82 83 00-4605	EA	SPA 1305. 9-inch Street Level Mounting Ring. (Teledyne Isco 605314305) Note: Similar to our street level mounting rings, but for 9 inch pipes. Ring only, excludes poles.	672.42	33.37
46 82 83 00-4606	EA	SPA 2035. 14-inch Street Level Mounting Ring. (Teledyne Isco 605324035) Note: Similar to our street level mounting rings, but for 14 inch pipes. Ring only, excludes poles.	1,022.33	50.74
46 82 83 00-4607	EA	SPA 1767. 18-inch Street Level Mounting Ring. (Teledyne Isco 605314767) Note: Similar to our street level mounting rings, but for 18 inch pipes. Ring only, excludes poles.	1,006.33	49.95
46 82 83 00-4608	EA	SPA 928. 674 Rain Gauge Extension Cable, cut to length. Connects to existing 50 ft. cable on 674 Rain Gauges. Total length should not exceed 1,000 ft. Specify length when ordering. (Teledyne Isco 605304928) Note: When ordering a new rain gauge, the standard 50 ft. cable can be increased without the use of this extension cable. Use 60-5304-781.	240.15	11.92
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4609	EA	SPA 729 Rain Gauge Actuator for Model 5800/4700 refrigerated sampler or 3700 series, for direct connection to Model 674 Rain Gauge (excluded) and sampler's flow meter port, enables the sampler to run a timed program after a rain event totaling 0.1 inches occurs (10 bucket tips) within a 90 minute period. (Teledyne Isco 605304729) Note: This total of rainfall before sampler enable can be set by the customer from 0.01 to 0.99 inches through the use of 2 internally located switches. SPA 729 contains circuitry to automatically reset the internal counter every 90 minutes during events that total less than 0.1 inch. For connection to 5800/4700 sampler also order adaptor 60-5314-697 (5800/4700 to 6712 style flow meter port) or adaptor 60-5314-704 (5800/4700 to 6712 style flow meter port and duplicate of 16 pin 4700/5800 connector. No external disable/enable of sampler, contact factory for external flow pacing details.	1,054.37	52.33
46 82 83 00-4610	EA	SPA 739 Rain Gauge Actuator With Total Rainfall Display for Model 5800/4700 refrigerated sampler or 3700 series, for direct connection to Model 674 Rain Gauge (excluded) and sampler's flow meter port, enables the sampler to run a timed program after a rain event totaling 0.1 inches occurs (10 bucket tips) within a 90 minute period. (Teledyne Isco 605304739) Note: This total of rainfall before sampler enable occurs can be set by the customer from 0.01 to 0.99 inches through the use of 2 internally located switches. SPA 739 contains circuitry to automatically reset the internal counter every 90 minutes during events that total less than 0.1 inch. A resettable digital totalizer mounted in the front panel displays the total amount of bucket tips. For connection to 5800/4700 sampler also order adaptor 60-5314-697 (5800/4700 to 6712 style flow meter port) or adaptor 60-5314-704 (provides 6712 style flow meter port and duplicate of 16 pin 4700/5800 connector. No external disable/enable of sampler, contact factory for external flow pacing details.	1,187.02	58.90
46 82 83 00-4611	EA	SPA 822. Extra set of contacts for Model 674 Rain Gauge. Necessary if connecting to additional non-Isco device. Also required is 50 ft. rain gauge connect cable 60-3004-149 or cut to length version 60-5304-781. (Teledyne Isco 605304822)	617.52	30.65
46 82 83 00-4612	EA	Rain Logging System, 0.01 inch. (Teledyne Isco 683280002) Note: Includes 674 tipping bucket rain gauge, 4120 Flow Logger to record rain events, and 50 ft. of connect cable.	3,762.31	186.72
46 82 83 00-4613	EA	Rain Logging System, 0.1 mm. (Teledyne Isco 683280003) Note: Includes 674 tipping bucket rain gauge, 4120 Flow Logger to record rain events, and 15.25 m of connect cable.	4,279.20	212.38
46 82 83 00-4614	EA	SPA 781. Modification to 674 Rain Gauge for Custom Cable Length. Modifies the 674 rain gauge to have a custom length cable for connection to the 4100/4200 flow meter or 6712 sampler. (Teledyne Isco 605304781) Note: May be ordered in tandem with the 674 rain gauge or easily installed on an existing 674 rain gauge. May also be employed with the 676 Rain Logging System. Maximum length of 1,000 ft. For the 677 Rain Logging System use custom length cable part number 60-5314-752.	75.47	3.74
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4615	EA	SPA 865. Stainless Steel Wall Mounting Bracket for 676 rainfall logger. Allows logger to be mounted to panel or wall. (Teledyne Isco 605304865)	452.86	22.47
46 82 83 00-4616	EA	677 Rain logging system, 0.01 inch. (Teledyne Isco 682000051) Note: Includes 674 tipping bucket rain gauge, 2105 Network Interface module, 2191 Battery Module, carrying handle, maintenance kits, and 2105 to 674 rain gauge connect cable.	7,181.55	356.42
46 82 83 00-4617	EA	677ci Rain Logging System 0.01 inch/tip. Consists of 2105ci interface module, 674 rain gauge with 2105 connector and 2191 battery module. (Teledyne Isco 682000100)	9,651.64	479.02
46 82 83 00-4618	EA	677ci Rain Logging System 0.1 mm/tip. Consists of 2105ci interface module, 674 rain gauge with 2105 connector and 2191 battery module. (Teledyne Isco 682000101)	9,651.64	479.02
46 82 83 00-4619	EA	677 Rain logging system, 0.1 mm. (Teledyne Isco 682000054) Note: Includes 674 tipping bucket rain gauge, 2105 Network Interface module, 2191 Battery Module, carrying handle, maintenance kits, and 2105 to 674 rain gauge connect cable.	7,181.55	356.42
46 82 83 00-4620	EA	677g Rain logging system, 0.1 mm, with GSM/GPRS cellular modem communication. (Teledyne Isco 682000056) Note: Includes 674 tipping bucket rain gauge, 2105g GSM/GPRS Network Interface module, 2191 Battery Module, carrying handle, magnet mount antenna, maintenance kits, and 2105 to 674 rain gauge connect cable.	9,651.64	479.02
46 82 83 00-4621	EA	SPA 1752 Custom length Cable for connection between 2105 and 674 rain gauge. May be easily installed on an existing 674 rain gauge. (Teledyne Isco 605314752) Note: Maximum length of 1,000 ft.	423.12	21.00
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4622	EA	Model 934 Nickel-Cadmium Battery. Rechargeable, 12 Volt DC, 4 amp-hours. For use with Isco GLS, 3700, 6100, and 6700 Series Portable Samplers; 4200 Series Flow Meters; and 150 Portable Peristaltic Pump. (Teledyne Isco 601684040) Note: Recharge using Model 961 or 965 battery charger.	601.52	29.85
46 82 83 00-4623	EA	Model 961 Battery Charger. Powered by 120 Volt AC, 60 Hertz. (Teledyne Isco 603004059) Note: For charging Isco 934 Nickel-Cadmium Batteries one at a time.	269.88	13.40
46 82 83 00-4624	EA	Model 965 Five-Station Battery Charger with European 240 Volt AC power cord. (Teledyne Isco 683000966) Note: Powered by 120 or 240 Volt AC, 50/60 Hertz (user-switched). CE Approved. Charges five Isco 934 Nickel-Cadmium Batteries, or five Isco 946 or 947 Lead-Acid Batteries, simultaneously.	1,587.26	78.77
46 82 83 00-4625	EA	Connect cable, solar panel to sampler or flow meter, 25 ft. For connecting solar panel, battery, and sampler or flow meter. For use with Isco GLS, 3700, 6100, and 6700 Series Portable Samplers; 4200 Series Flow Meters; and 150 Portable Peristaltic Pump. (Teledyne Isco 603004097) Note: This is for 10 watt solar panels only, panel not included.	377.37	18.73

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4626	EA	Solar panel connect cable, 25 ft. For use with Isco 4100 Series Flow Loggers only. For connecting solar panel, battery, and Flow Logger. (Teledyne Isco 603114010) Note: Compatible with 10 watt solar panels only, panel not included.	359.08	17.82
46 82 83 00-4627	EA	Solar panel 'Y' cable, 6' (Teledyne Isco 603004098) Note: For connecting solar panels in parallel. Compatible with 10 watt solar panels only, panel not included.	297.32	14.76
46 82 83 00-4628	EA	Connect cable for external 12 Volt DC source. Six ft. cable for powering Isco flow loggers from an external 12 Volt DC source, such as an automotive or deep-cycle marine battery. Terminates in heavy-duty battery clips. (Teledyne Isco 603114016) Note: For use with 4100 Series Flow Loggers Only.	198.98	9.88
46 82 83 00-4629	EA	Flow Logger external power connect cable. Connects Flow Logger to external Isco power source with two-pin Amphenol connector, such as an Isco Power Pack. (Teledyne Isco 603114002)	198.98	9.88
46 82 83 00-4630	EA	SPA 1478. Solar Panel Lead-acid Battery Charger, 10 watt. (Teledyne Isco 605314478) Note: Directly charges Isco 946 and 948 12 Volt DC batteries. 947 battery requires 603114015. Do NOT charge NiCad Batteries with this charger. Includes pole mount bracket and 25 ft. connect cable. Not recommended for non-Isco batteries. Use SPA 1629 or SPA 1347 for higher output solar panels recommended for use with non-Isco batteries.	1,729.06	85.81
46 82 83 00-4631	EA	SPA 1834. Current Solar Panel Regulator for all 10 watt and 40 watt solar panels. Model SK-6 voltage regulator. Not encased, for installation into existing junction box on solar panels. (Teledyne Isco 605314834) Note: This item is normally purchased for spare, replacement, or troubleshooting. May require alteration to junction box of solar panel.	221.85	11.01
46 82 83 00-4632	EA	Solar panel instruction manual. (Teledyne Isco 603003269)	37.08	
46 82 83 00-4633	EA	SPA 1061. Isco to Sigma flow meter to sampler connect cable, built to length. Allows for flow pacing and event marks. To enable/disable a Sigma sampler from an Isco flow meter see SPA 788. Maximum length is 1,000 ft. (Teledyne Isco 605314061) Note: Power supplies for the sampler and the flow meter must be separate. For use with 5800/4700 also order adapter 60-5314-697 or 60-5314-704.	219.57	10.89
		For Each LF Of Extension Cable, Add	*3.13*	
46 82 83 00-4634	EA	SPA 1520. Modification to a 6712 full-size portable sampler's center section to replace the stainless steel bulkhead fitting with a PEEK fitting. Provides the connection between the pump tube and the discharge tube. This PEEK bulkhead fitting is often used when sampling trace metals. (Teledyne Isco 605314520) Note: This item may be installed as a field kit. Use also PTFE-coated strainer 60-5304-820 and PEEK tubing coupler 60-5304-983.	464.28	23.05
46 82 83 00-4635	EA	SPA 1556. SDI-12 Cable Assembly for 6712 sampler, terminates in pigtails. Connects to the 6712's I/O, Rain Gauge port. Built to customer desired length. (Teledyne Isco 605314556)	251.58	12.48
		For Each LF Of Extension Cable, Add	*3.13*	
46 82 83 00-4636	EA	SPA 1411. Heavy-duty modem connect cable, cut-to-length. Connects to 5-pin internal modem connector, other end is unterminated. Cable jacket is suitable for burying or routing through manholes. Specify length when ordering. (Teledyne Isco 605314411)	285.89	14.19
		For Each LF Of Heavy-duty Modem Connect Cable, Add	*4.86*	
46 82 83 00-4637	EA	SPA 1607. Suspension hardware. Used to hang the 2110 Ultrasonic sensor by its cable over the measuring point. Hardware keeps the sensor level. (Teledyne Isco 605314607) Note: Not for use in areas subject to wind.	866.81	43.02
46 82 83 00-4638	EA	SPA 588. Enclosure Heater. Provides a 30 watt, thermostatically controlled heater for the Signature (not portable) flow meters. Powered by its own AC line cord, this option will extend the useful function of the flow meter display. (Teledyne Isco 605304588)	1,200.74	59.60
46 82 83 00-4639	LF	SPA 121. Three conductor cable, 18 gauge, cut to length. (Teledyne Isco 605304121)	3.48	0.17
46 82 83 00-4640	LF	SPA 260. Two conductor cable, 18 gauge, cut to length. (Teledyne Isco 605304260)	4.99	0.25
46 82 83 00-4641	EA	SPA 1016. Area Velocity Simulator. This simulator used with 4150, 4250, and 750 modules to create a fixed, artificial velocity and level reading. (Teledyne Isco 605314016) Note: Used for field/lab testing and troubleshooting.	974.32	48.35
46 82 83 00-4642	EA	SPA 1071. Extension Cable for 581 Rapid Transfer Device (RTD), built to length. This cable would be used when access to the Isco 6712/Avalanche sampler is limited, yet RTD interrogation is desired. (Teledyne Isco 605314071) Note: A maximum of 200 ft. of cable can be routed to a point convenient for connection to the RTD. Not for use with 5800/4700 or sampler or flow meter with internal modem.	178.39	8.86
		For Each LF Of Extension Cable, Add	*5.19*	
46 82 83 00-4643	EA	SPA 1125. 6700 Series Sampler YSI 600 Sonde Adapter cable, built to length. (Teledyne Isco 605314125) Note: This cable is the same as 60-0604-001, but in a cut to length version, with a maximum length of 200 ft. Connects to YSI field cable, and to YSI units with integral connect cable. Please specify length when ordering. For 6712 sampler use SPA 1400 for non-600 Sonde adapter cable.	233.29	11.58
		For Each LF Of Extension Cable, Add	*3.13*	
46 82 83 00-4644	EA	SPA 1308. Single bottle, 10-liter size, poly with lids. This is the bottle used with SPA 1012. To achieve set of four bottles order (4x) 60-5314-308. (Teledyne Isco 605314308)	61.75	3.06
46 82 83 00-4645	EA	SPA 1730. Custom-length pressure sensor for ADFM. Specify maximum pressure rating (2.5 to 30 psi), and cable length (250 ft. or 76.2 meters maximum) at time of order. (Teledyne Isco 605314730)	4,888.72	242.63
46 82 83 00-4646	EA	SPA 1762. Custom-length pressure sensor for Intrinsically-safe ADFM. Specify maximum pressure rating (2.5 to 30 psi), and cable length (250 ft. or 76.2 meters maximum) at time of order. (Teledyne Isco 605314762)	4,888.72	242.63
46 82 83 00-4647	LF	SPA 720. PTFE Bubble Line, 1/16-inch ID, per ft. Comes with two silicon end tubes. Maximum available length is 200 ft. (Teledyne Isco 605304720)	7.09	0.35
46 82 83 00-4648	EA	SPA 840. 720 Module Interface to allow 4-20 mA input. This interface replaces the level sensor and allows an isolated 4-20 mA signal representing level or flow to be recorded by the 720. The 720 is programmed with a linear equation to allow proper reading of the 4-20 mA input. (Teledyne Isco 605304840)	2,113.30	104.88
46 82 83 00-4649	EA	SPA 1356. External Modem, CE approved, DC powered, for use with Isco instruments. (Teledyne Isco 605314356) Note: Compliant with phones systems around the world. Cable to connect to interrogator port is included. Not intended for use with 2100 systems. Modem software included. Modem would require recasing at additional charge if to be used in wet environment.	2,691.94	133.60
46 82 83 00-4650	EA	SPA 1508. Sample Initiation Alarm with Auto Reset. Serves to provide an alarm at a predetermined total flow for customers with daily discharge limits. Counts sample initiation signals and triggers a FORM C relay when total is reached. Auto resets at customer determined interval. (Teledyne Isco 605314508)	4,375.26	217.15
46 82 83 00-4651	EA	SPA 1563. GSM Cell Phone Modem Package. (Teledyne Isco 605314563) Note: This cell phone modem accepts SIM cards purchased by the customer from their preferred provider. Connects to 4100/4200 flow meters and 6712 samplers. Text message output capable for 6712 samplers. Primarily for use in overseas and select U.S. markets.	5,571.42	276.51

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4652	EA	Dura Tracker + Battery box + battery holders + carrying handle with suspension strap + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800001) Note: Requires Flowlink software and computer connect cable (sold separately).	7,547.50	374.57
46 82 83 00-4653	EA	Dura Tracker without Battery Box + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800002) Note: Requires Flowlink software and computer connect cable (sold separately).	5,717.79	283.77
46 82 83 00-4654	EA	Dura Tracker + CDMA Modem+ Battery box + battery holders + carrying handle with suspension strap + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800011) Note: Requires Flowlink software and computer connect cable (sold separately).	9,720.26	482.41
46 82 83 00-4655	EA	Dura Tracker without Battery Box + CDMA Modem + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800012) Note: Requires Flowlink software and computer connect cable (sold separately).	7,890.55	391.61
46 82 83 00-4656	EA	Dura Tracker + GSM/GPRS Modem+ Battery box + battery holders + carrying handle with suspension strap + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800021) Note: Requires Flowlink software and computer connect cable (sold separately).	9,720.26	482.41
46 82 83 00-4657	EA	Dura Tracker without Battery Box + GSM/GPRS Modem + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800022) Note: Requires Flowlink software and computer connect cable (sold separately).	7,890.55	391.61
46 82 83 00-4658	EA	TIENet 350 + 10 m cable with TIENet plug (Teledyne Isco 604854004)	4,231.17	210.00
46 82 83 00-4659	EA	TIENet 350 + 23 m cable with TIENet plug (Teledyne Isco 604854005)	4,425.57	219.65
46 82 83 00-4660	EA	TIENet 350 + CTL m cable with TIENet plug (Teledyne Isco 604854006)	4,231.17	210.00
		For Each LF Of Extension Cable, Add	*4.33*	
46 82 83 00-4661	EA	TIENet 305 + 5 m cable with TIENet plug (Teledyne Isco 604804018)	2,858.89	141.90
46 82 83 00-4662	EA	In-pipe mounting for TIENet 310 Ultrasonic using Isco mounting ring. (Teledyne Isco) Note: This kit provides mounting hardware required to attach the sensor to an Isco mounting ring (not included).	846.25	42.00
46 82 83 00-4663	EA	6 Volt DC, Alkaline Lantern Battery. Non-rechargeable (Teledyne Isco 340-2006-02) Note: For use with Isco DuraTracker, 2191 Battery Module (2 required) or 4100 Series Flow Loggers (2 required).	64.05	3.17
46 82 83 00-4664	EA	Dura TrackerEx + Battery box + battery holders + carrying handle with suspension strap + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800101) Note: With battery box. Requires Flowlink software and computer connect cable (sold separately).	8,233.63	408.64
46 82 83 00-4665	EA	Dura TrackerEx without Battery Box + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800102) Note: Without battery box; With Mounting plate. Requires Flowlink software and computer connect cable (sold separately).	6,403.94	317.83
46 82 83 00-4666	EA	Dura TrackerEx + CDMA Modem+ Battery box + battery holders + carrying handle with suspension strap + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800111) Note: With battery box. Requires Flowlink software and computer connect cable (sold separately).	10,520.76	522.14
46 82 83 00-4667	EA	Dura TrackerEx without Battery Box + CDMA Modem + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800112) Note: Without battery box; With Mounting plate. Requires Flowlink software and computer connect cable (sold separately).	8,691.06	431.34
46 82 83 00-4668	EA	Dura TrackerEx + GSM/GPRS Modem+ Battery box + battery holders + carrying handle with suspension strap + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800121) Note: With battery box. Requires Flowlink software and computer connect cable (sold separately).	10,520.76	522.14
46 82 83 00-4669	EA	Dura TrackerEx without Battery Box + GSM/GPRS Modem + instruction manual+ coupon for free Isco Open Channel Flow Measurement Handbook. (Teledyne Isco 684800122) Note: Without battery box; With Mounting plate. Requires Flowlink software and computer connect cable (sold separately).	8,691.06	431.34

46 82 83 00-4670 Data Acquisition Unit *(46 82 83 00-0001)*

46 82 83 00-4671 Eurotherm Data Acquisition Units *(46 82 83 00-4670)*

Note: Price is for base unit See CSI section 46 82 83 00-4686 for all applicable add-on features.

46 82 83 00-4672	EA	Data Acquisition Unit 6 Channels Eurotherm Data Acquisition 5000B	4,826.42
46 82 83 00-4673	EA	Data Acquisition Unit 12 Channels Eurotherm Data Acquisition 5000B	5,757.83
46 82 83 00-4674	EA	100mm Data Acquisition Unit Accessories 0 Channels Eurotherm Data Acquisition 5100V	5,600.41
46 82 83 00-4675	EA	100mm Data Acquisition Unit Accessories 6 Channels Eurotherm Data Acquisition 5100V	6,781.08
46 82 83 00-4676	EA	100mm Data Acquisition Unit Accessories 12 Channels Eurotherm Data Acquisition 5100V	7,961.74
46 82 83 00-4677	EA	180mm Data Acquisition Unit Accessories 0 Channels Eurotherm Data Acquisition 5180V	8,224.11
46 82 83 00-4678	EA	180mm Data Acquisition Unit Accessories 6 Channels Eurotherm Data Acquisition 5180V	9,273.59
46 82 83 00-4679	EA	180mm Data Acquisition Unit Accessories 12 Channels Eurotherm Data Acquisition 5180V	10,323.07
46 82 83 00-4680	EA	180mm Data Acquisition Unit Accessories 18 Channels Eurotherm Data Acquisition 5180V	11,372.55
46 82 83 00-4681	EA	180mm Data Acquisition Unit Accessories 24 Channels Eurotherm Data Acquisition 5180V	12,422.03
46 82 83 00-4682	EA	180mm Data Acquisition Unit Accessories 30 Channels Eurotherm Data Acquisition 5180V	13,923.49
46 82 83 00-4683	EA	180mm Data Acquisition Unit Accessories 36 Channels Eurotherm Data Acquisition 5180V	14,972.97
46 82 83 00-4684	EA	180mm Data Acquisition Unit Accessories 42 Channels Eurotherm Data Acquisition 5180V	16,022.45
46 82 83 00-4685	EA	180mm Data Acquisition Unit Accessories 48 Channels Eurotherm Data Acquisition 5180V	17,071.93

46 82 83 00-4686 Eurotherm Data Acquisition Unit Add-ons *(46 82 83 00-4670)*

Note: Prices as add-ons to base unit See CSI section 46 82 83 00-4671 for base unit.

46 82 83 00-4687	EA	16Mb Flash Card, For Eurotherm Data Acquisition Unit	196.78
46 82 83 00-4688	EA	32Mb Flash Card, For Eurotherm Data Acquisition Unit	236.13
46 82 83 00-4689	EA	64Mb Flash Card, For Eurotherm Data Acquisition Unit	301.73
46 82 83 00-4690	EA	256Mb Flash Card, For Eurotherm Data Acquisition Unit	865.82
46 82 83 00-4691	EA	512Mb Flash Card, For Eurotherm Data Acquisition Unit	1,443.04
46 82 83 00-4692	EA	1Gb Flash Card, For Eurotherm Data Acquisition Unit	2,886.07
46 82 83 00-4693	EA	3 Form C Relay Option Card (1Pcb), For Eurotherm Data Acquisition Unit	550.98
46 82 83 00-4694	EA	RS232 or RS484 Serial Comms Option Card, For Eurotherm Data Acquisition Unit	446.03

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4695	EA	6 Event Inputs (1 Card), For Eurotherm Data Acquisition Unit	472.27	
46 82 83 00-4696	EA	Shuns, For Eurotherm Data Acquisition Unit	28.86	
46 82 83 00-4697	EA	Attenuator, For Eurotherm Data Acquisition Unit	55.10	
46 82 83 00-4698	EA	External Power Supply, For Eurotherm Data Acquisition Unit	550.98	
46 82 83 00-4699	EA	12 Channel Math (each per 12), For Eurotherm Data Acquisition Unit	393.56	
46 82 83 00-4700	EA	Batch, For Eurotherm Data Acquisition Unit	590.33	
46 82 83 00-4701	EA	Screen Builder, For Eurotherm Data Acquisition Unit	327.96	
46 82 83 00-4702	EA	Advance Screen Builder, For Eurotherm Data Acquisition Unit	721.52	
46 82 83 00-4703	EA	Timers, For Eurotherm Data Acquisition Unit	393.56	
46 82 83 00-4704	EA	Viewing Bridge, For Eurotherm Data Acquisition Unit	511.62	
46 82 83 00-4705	EA	Full Configuration Bridge, For Eurotherm Data Acquisition Unit	773.99	
46 82 83 00-4706	EA	Auditor Features, For Eurotherm Data Acquisition Unit	1,574.22	
46 82 83 00-4707	EA	Circular Trend, Display, For Eurotherm Data Acquisition Unit	131.18	
46 82 83 00-4708	EA	Log Scales, For Eurotherm Data Acquisition Unit	327.96	
46 82 83 00-4709	EA	Modbus Master, For Eurotherm Data Acquisition Unit	524.74	
46 82 83 00-4710	EA	Review Full, For Eurotherm Data Acquisition Unit	773.99	
46 82 83 00-4711	EA	Security Manager, For Eurotherm Data Acquisition Unit	393.56	
46 82 83 00-4712	EA	Email, For Eurotherm Data Acquisition Unit	262.37	
46 82 83 00-4713	EA	CSV Output, For Eurotherm Data Acquisition Unit	393.56	
46 82 83 00-4714	EA	Portable Handle, For Eurotherm Data Acquisition Unit	393.56	

46 82 83 00-4715 Elpro Systems Wireless *(46 82 83 00-4670)*

46 82 83 00-4716	EA	Telemetry Device With I/O, Elpro Systems 905U-1	4,335.07	
46 82 83 00-4717	EA	Telemetry Device With I/O, Elpro Systems 905U-2	4,492.49	
46 82 83 00-4718	EA	Telemetry Device With I/O, Elpro Systems 905U-3	4,492.49	
46 82 83 00-4719	EA	Telemetry Device With I/O, Elpro Systems 905U-4	4,335.07	
46 82 83 00-4720	EA	Telemetry Device Transmit Only, Elpro Systems 905U-K	2,970.74	
46 82 83 00-4721	EA	Telemetry Device With I/O, Elpro Systems 905U-C	4,466.25	
46 82 83 00-4722	EA	Telemetry Device, Elpro Systems 905U-G-MD1	5,469.23	
46 82 83 00-4723	EA	Telemetry Device, Elpro Systems 905U-G-PR1	6,151.39	
46 82 83 00-4724	EA	Telemetry Device, Elpro Systems 905U-G-ET1	6,597.42	
46 82 83 00-4725	EA	Serial Slave Device, Elpro Systems 105S-1	2,944.51	
46 82 83 00-4726	EA	Serial Slave Device, Elpro Systems 105S-2	3,580.16	
46 82 83 00-4727	EA	Serial Slave Device, Elpro Systems 105S-3	3,580.16	
46 82 83 00-4728	EA	Serial Slave Device, Elpro Systems 105S-4	3,396.51	
46 82 83 00-4729	EA	Modbus To Modbus, Elpro Systems 905U-D	3,895.01	
46 82 83 00-4730	EA	5 dB Collinear Antennae, Elpro Systems	593.31	
46 82 83 00-4731	EA	8 dB Collinear Antennae, Elpro Systems	829.44	
46 82 83 00-4732	EA	10dB Yagi Antennae, Elpro Systems	803.20	
46 82 83 00-4733	EA	15dB Yagi Antennae, Elpro Systems	1,223.00	
46 82 83 00-4734	EA	-2dB Dipole Whip Antennae, Elpro Systems	593.31	
46 82 83 00-4735	EA	Collinear Antennae Mounting Kit, Elpro Systems	278.46	
46 82 83 00-4736	EA	Yagi Antennae Mounting Kit, Elpro Systems	330.94	
46 82 83 00-4737	EA	110 Volt AC To 20 Volt DC, Power Pack, Elpro Systems	304.70	
46 82 83 00-4738	EA	Surge For Antennae, Elpro Systems	538.21	
46 82 83 00-4739	EA	Surge For Power, Elpro Systems	485.74	

46 82 83 00-4740 Additional Controls And Accessories *(46 82 83 00-0001)*

46 82 83 00-4741 Hach Controllers And Accessories *(46 82 83 00-4740)*

46 82 83 00-4742	EA	Hach SC 100 Controller (2) Sensors, Modbus Output, P/N LXV401.52.02002	4,307.91	113.00
46 82 83 00-4743	EA	Hach SC 1000 Probe Module - 4 Sensors, 4ma Output, 4ma/DigitIN, 4 Relays, RS-485 Modbus 100-240 V With US Power Cord, P/N LXV400.99.1B572	5,466.02	113.00
46 82 83 00-4744	EA	Hach SC 1000 Probe Module - 6 Sensors, 4ma Output, 4ma/DigitIN, 4 Relays, RS-485 Modbus 100-240 V With US Power Cord, P/N LXV400.99.5B532	5,686.73	113.00
46 82 83 00-4745	EA	Hach SC 1000 Display Module, P/N LXV402.99.00002 Note: Required for either the 4 or 6 channel Probe module.	6,081.03	113.00

46 82 83 00-4746 Hach LDO Sensor And Accessories *(46 82 83 00-4740)*

Note: Requires SC100 or SC1000 controller

46 82 83 00-4747	EA	Hach LDO Process Dissolved Oxygen Probe, P/N 5790000	3,975.60	113.00
46 82 83 00-4748	EA	Hach Pole Mount Kit, P/N LXV 57944-00	996.38	28.25
46 82 83 00-4749	EA	Digital Termination Box (Hach 5867000)	406.02	28.25

46 82 83 00-4750 Hach pH/ORP Sensors And Accessories *(46 82 83 00-4740)*

Note: Requires SC100 or SC1000 controller

46 82 83 00-4751	EA	Hach pH Digital Sensor - Wide Range, PEEK, Convertible Style, P/N DPD1P1	2,196.21	56.50
46 82 83 00-4752	EA	Hach ORP Digital Sensor, PEEK, Convertible Style, P/N DRD1P5	2,335.22	56.50
46 82 83 00-4753	EA	Hach 1" Handrail Mounting Kit For pH/ORP, P/N MH236B00Z	1,010.72	56.50

46 82 83 00-4754 Hach Suspended Solids Sensors *(46 82 83 00-4740)*

Note: Requires SC100 or SC1000 controller

46 82 83 00-4755	EA	Hach Solitax Sensor - Turbidity And Suspended Solids, TS-Line SC, Polyvinyl Chloride (PVC) With Wiper (0.001 To 4000 NTU, 0.001 mg/L to 50g/L), P/N LXV423.99.10100	9,239.99	113.00
46 82 83 00-4756	EA	Sensor Adapter, P/N AHA033NPT	316.51	28.25

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4757		**Hach Sludge Level Monitor Sensor** *(46 82 83 00-4740)* Note: Requires SC100 or SC1000 controller		
46 82 83 00-4758	EA	Hach Sonatax SC Sludge Level Probe With Pivot Mount, P/N 5773000	6,860.88	113.00
46 82 83 00-4759		**Hach CL-17 Chlorine Monitor** *(46 82 83 00-4740)*		
46 82 83 00-4760	EA	Hach CL17 Total Residual Chlorine Analyzer, P/N 5440002	7,160.75	113.00
46 82 83 00-4761	EA	Hach Total Chlorine Reagents, P/N 2557000	141.45	
46 82 83 00-4762		**Sigma Open Channel Flow Meter** *(46 82 83 00-4740)*		
46 82 83 00-4763	EA	Hach Sigma 980 Permanent Flow Meter, P/N 9700400	4,231.03	113.00
46 82 83 00-4764		**Marsh McBirney Open Channel Flow Meter** *(46 82 83 00-4740)*		
46 82 83 00-4765	EA	Marsh McBirney Model 4000-600 Standard Sensor Cable Length of 30' Of Sensor Cable (Non I.S.)	12,010.70	113.00
46 82 83 00-4766	EA	Flo-Station With Display (Marsh McBirney Model 1204-20) Note: Includes (4) 4-20mA Outputs And Require Flo-Ware Software With Communication Cable, 120/240 Volt AC Powered	10,132.85	113.00
46 82 83 00-4767		**Scott Gas Detection Equipment** *(46 82 83 00-4740)*		
46 82 83 00-4768	EA	Quadscan II Remote Monitor (Scott Safety 7400-4-1-1) Note: 4 channels, no relay package, and no battery back-up.	3,831.17	113.00
46 82 83 00-4769		**Audio Visual Alarm Stations** *(46 82 83 00-4740)*		
46 82 83 00-4770	EA	Single Strobe, Single Siren, Audio Visual Alarm Station (Scott Safety AV1-N4X, 978-13x000-0xx)	1,081.05	56.40
46 82 83 00-4771	EA	Dual Strobe, Single Siren, Audio Visual Alarm Station (Scott Safety AV2-N4X, 978-23xx00-0xx)	1,390.06	56.40
46 82 83 00-4772	EA	120 Volt AC Replacement Strobe (Scott Safety 354-4950x6-120)	386.02	
46 82 83 00-4773	EA	24 Volt DC, Replacement Strobe (Scott Safety 354-4950x6-024)	344.81	
46 82 83 00-4774	EA	120 Volt AC Replacement Horn (Scott Safety 356-350003-120)	262.41	
46 82 83 00-4775	EA	240 Volt AC Replacement Horn (Scott Safety 356-350003-240)	324.21	
46 82 83 00-4776	EA	12 Volt DC, Replacement Horn (Scott Safety 356-450003-012)	324.21	
46 82 83 00-4777	EA	24 Volt DC, Replacement Horn (Scott Safety 356-450003-024)	344.81	
46 82 83 00-4778	EA	120 Volt AC Alone Horn With Back Box (Scott Safety 356-350WBO-120)	504.22	56.40
46 82 83 00-4779	EA	240 Volt AC Stand Alone Horn With Back Box (Scott Safety 356-350WBO-240)	504.22	56.40
46 82 83 00-4780	EA	12 Volt DC, Stand Alone Horn With Back Box (Scott Safety 356-450WBO-012)	545.42	56.40
46 82 83 00-4781	EA	24 Volt DC, Stand Alone Horn With Back Box (Scott Safety 356-350WBO-024)	545.42	56.40
46 82 83 00-4782	EA	Single Strobe, Single Siren, Class I, Division 2, Continious Tone Siren (Scott Safety 977-1Lx000-0Fx)	3,511.96	56.40
46 82 83 00-4783	EA	Dual Strobe, Single Siren, Class I, Division 2, Continious Tone Siren (Scott Safety 977-2Lx000-0Fx)	4,995.24	56.40
46 82 83 00-4784	EA	Class I, Division 2, Replacement Strobe (Scott Safety 354-1516x6-xxx) Note: Complete the part number using the information below: Position 8 (xxx-xxxx_x-xxx) Color of Strobe: 2-Red, 4-Amber, 5-Green, 6-Blue, 7-Magenta, 9-Clear Position 10, 11, 12 (xxx-xxxxxx-_ _ _) Voltage: 120-120VAC, 240-240VAC	2,902.19	
46 82 83 00-4785	EA	Class I, Division 2, Replacement Horn (Scott Safety 356-35W006-xxx) Note: Complete the part number using the information below: Position 10, 11, 12 (xxx-xxxxxx-_ _ _) Voltage: 120-120VAC, 240-240VAC	2,648.00	
46 82 83 00-4786	EA	Single Strobe, Single Siren, Class I, Division 2, Multitone Siren (Scott Safety 977-1Lx000-03x) Note: Complete the part number using the information below: Position 6 (xxx-xx_xxx-xxx) Color of 1st Strobe: 2-Red, 4-Amber, 5-Green, 6-Blue, 7-Magenta, 9-Clear	8,958.00	56.40
46 82 83 00-4787	EA	Dual Strobe, Single Siren, Class I, Division 2, Multitone Siren (Scott Safety 977-2Lx000-03x) Note: Complete the part number using the information below: Position 6 (xxx-xx_xxx-xxx) Color of 1st Strobe: 2-Red, 4-Amber, 5-Green, 6-Blue, 7-Magenta, 9-Clear Position 7 (xxx-xxx_xx-xxx) Color of 2nd Strobe: 2-Red, 4-Amber, 5-Green, 6-Blue, 7-Magenta, 9-Clear Position 12 (xxx-xxxxxx-xx_) Voltage: 2-24 Volt DC, 3-120 Volt AC, 4-240 Volt AC	10,584.45	56.40
46 82 83 00-4788	EA	Class I, Division 2, Replacement Multitone Horn (Scott Safety 356-889321-MV0)	2,981.74	
46 82 83 00-4789	EA	Single Strobe, Single Siren, Class I, Division 1, Multitone Siren (Scott Safety 977-16x000-03x)	8,930.03	56.40
46 82 83 00-4790	EA	Dual Strobe, Single Siren, Class I, Division 1, Multitone Siren (Scott Safety 977-26xx00-03x)	12,741.21	56.40
46 82 83 00-4791		**Chessell Graphic Recorder** *(46 82 83 00-4740)* Note: Modbus master comms, ethernet comms, 96 math channels, 96M of internal memory, 2 serial ports, 3 relays outputs, bridge light and review light		
46 82 83 00-4792	EA	6 Input Channel Graphic Recorder With 6" Touchscreen Note: 6100A/U06/PANEL/NOLCK/SLV/VH/NOITPS/XXXXXX/096M/CF/NOMC/NOMS/0RUSB/2SRL/XXXX/NOCAL/03/00/00/00/00/00/NOS/00/XXXXX/BLITE/RLITE/NOADT/NOSM/06	11,475.93	113.00
46 82 83 00-4793	EA	12 Input Channels Graphic Recorder With 6" Touchscreen Note: 6100A/U12/PANEL/NOLCK/SLV/VH/NOITPS/XXXXXX/096M/CF/NOMC/NOMS/0RUSB/2SRL/XXXX/NOCAL/03/00/00/00/00/00/NOS/00/XXXXX/BLITE/RLITE/NOADT/NOSM/06	12,713.39	113.00
46 82 83 00-4794	EA	12 Input Channel Graphic Recorder With 12" Touchscreen Note: 6180A/U12/PANEL/NOLCK/SLV/VH/NOITPS/XXXXXX/096M/CF/NOMC/NOMS/0RUSB/2SRL/XXXX/NOCAL/03/00/00/00/00/00/NOS/00/XXXXX/BLITE/RLITE/NOADT/NOSM/06	15,193.11	113.00
46 82 83 00-4795	EA	18 Input Channel Graphic Recorder With 12" Touchscreen Note: 6180A/U18/PANEL/NOLCK/SLV/VH/NOITPS/XXXXXX/096M/CF/NOMC/NOMS/0RUSB/2SRL/XXXX/NOCAL/03/00/00/00/00/00/NOS/00/XXXXX/BLITE/RLITE/NOADT/NOSM/06	16,673.73	113.00
46 82 83 00-4796	EA	24 Input Channel Graphic Recorder With 12" Touchscreen Note: 6180A/U24/PANEL/NOLCK/SLV/VH/NOITPS/XXXXXX/096M/CF/NOMC/NOMS/0RUSB/2SRL/XXXX/NOCAL/03/00/00/00/00/00/NOS/00/XXXXX/BLITE/RLITE/NOADT/NOSM/06	17,913.59	113.00
46 82 83 00-4797	EA	48 Input Channel Graphic Recorder With 12" Touchscreen Note: 6180A/U48/PANEL/NOLCK/SLV/VH/NOITPS/XXXXXX/096M/CF/NOMC/NOMS/0RUSB/2SRL/XXXX/NOCAL/03/00/00/00/00/00/NOS/00/XXXXX/BLITE/RLITE/NOADT/NOSM/06	23,111.38	113.00

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CSI	UOM	DESCRIPTION	MINOR TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4798		**Switches, Transmitters And Wireless Devices** *(46 82 83 00-4740)*		
46 82 83 00-4799	EA	SixNet 5 Port Slimline Unmanaged Switch, Model SL-5ES-1	386.97	
46 82 83 00-4800	EA	SixNet 8 Port Slimline Unmanaged Switch, Model SL-8ES-1	627.72	
46 82 83 00-4801	EA	SixNet 5 Port Slimline Unmanaged Switch, 4 RJ45, 1 Single Mode Fiber With ST (Or SC Connectors), Model ET-5EB-2ST (SC)	1,135.70	
46 82 83 00-4802	EA	SixNet 5 Media Converter, 1 RJ45, 1 Single Mode Fiber With ST (Or SC Connectors), Model SL-2EB-3ST (SC)	1,049.03	
46 82 83 00-4803	EA	110 Volt AC Surge Protection, Model MA15/D/1/SI	293.07	
46 82 83 00-4804	EA	ModBus 900 MHz Radio Modem, Model 905U-D	1,891.65	
46 82 83 00-4805	EA	Ethernet 900 MHz Radio Modem, Model 905U-E	2,149.26	
46 82 83 00-4806	EA	Ethernet Gateway 900 MHz Radio Modem, Model 905U-G-ET1	5,105.67	
46 82 83 00-4807	EA	Wireless I/O With 2 AI, Model 905U-1	3,360.23	
46 82 83 00-4808	EA	Wireless I/O With 6 AI, Model 905U-2	3,552.83	
46 82 83 00-4809	EA	Wireless I/O With 8 AO, Model 905U-3	3,552.83	
46 82 83 00-4810	EA	Wireless I/O With 24 D I/O, Model 905U-4	3,360.23	
46 82 83 00-4811	EA	Ethernet 2.4 GHz Radio Modem (300mW), Model 240U-E	2,243.15	
46 82 83 00-4812	LF	LMR 240 Cable	5.22	
46 82 83 00-4813	LF	LMR 400 Cable	5.70	
46 82 83 00-4814	EA	Coaxial Cable Bulkhead Connection Kit	196.77	
46 82 83 00-4815	EA	900 MHz Band, 9 dBi Yagi Antenna, Model HG909Y-NF	417.62	
46 82 83 00-4816	EA	900 MHz Band, 8 dBi Omni Antenna, Model HG908U-Pro	489.85	
46 82 83 00-4817	EA	2.4 GHz Band, 9 dBi Yagi Antenna, Model HG2409Y	417.62	
46 82 83 00-4818	EA	2.4 GHz Band, 8 dBi Omni Antenna, Model HG2408U-Pro	489.85	
46 82 83 00-4819	EA	60 Degree Twist And Swivel Antenna Mounting Kit, Model HGX-PMT06	100.47	
46 82 83 00-4820	EA	Heavy-Duty Antenna Mounting Bolts And Bases (2), Model HGX-PMT11	112.51	
46 82 83 00-4821	EA	Antenna Surge Protector, Model AL-NMNFB-9	341.23	
46 82 83 00-4822	EA	RS232 To RS485 Converter, Model KD485-ADE	1,183.85	
46 82 83 00-4823	EA	QSC 2-Channel Amplifier, Model CX-602	4,843.25	
46 82 83 00-4824	EA	QSC 2-Channel Amplifier, Model CX-302	2,435.75	
46 82 83 00-4825	EA	SixNet Signal Convertor, Model ET-GT-ST-3	2,411.67	
46 82 83 00-4826	EA	Moore Industries Signal Isolator And Splitter, Model ECT	943.10	
46 82 83 00-4827	EA	Atlas Bidirectional Wall Mounted Horn, VT-22	389.37	
46 82 83 00-4828		**Foxboro Devices** *(46 82 83 00-4740)*		
46 82 83 00-4829	EA	Foxboro Eycon With 12" Screen And ELIN Comms Plus Modbus RTU And TCP Slave, Model E20F-1N101SL0EF0XX0	14,550.61	
46 82 83 00-4830	EA	Foxboro Eycon With 12" Screen, SP Programmer, Recipe, Report And ELIN Comms Plus Modbus RTU And TCP Slave, Model E20F-2N101SL0EF0XX0	15,393.24	
46 82 83 00-4831	EA	Foxboro Eycon With 12" Screen, SP Programmer, Recipe, Report, Batch And ELIN Comms Plus Modbus RTU And TCP Slave, Model E20F-3N101SL0EF0XX0	16,596.99	
46 82 83 00-4832	EA	Foxboro Eycon With 12" Screen, And ELIN Comms Plus Modbus RTU And TCP Master/Slave, Model E20F-1N201SL0EF0XX0	16,235.87	
46 82 83 00-4833	EA	Foxboro Eycon With 12" Screen, SP Programmer, Recipe, Report, And ELIN Comms Plus Modbus RTU And TCP Master/Slave, Model E20F-2N201SL0EF0XX0	16,837.74	
46 82 83 00-4834	EA	Foxboro Eycon With 12" Screen, SP Programmer, Recipe, Report, Batch, And ELIN Comms Plus Modbus RTU And TCP Master/Slave, Model E20F-3N201SL0EF0XX0	18,041.49	
46 82 83 00-4835	EA	Foxboro 2 Channel 0-10 Volt Input Module With Termination Assembly, Model AI2/DCTA	810.69	
46 82 83 00-4836	EA	Foxboro 3 Channel 4-20mA Input Module With Termination Assembly, No Disconnects, Model AI3/TA	890.13	
46 82 83 00-4837	EA	Foxboro 4 Channel T/C Module With Termination Assembly, Model AI4/TCTA	1,075.51	
46 82 83 00-4838	EA	Foxboro 4 Channel Relay Output Module With Termination Assembly, Fuses Fitted, Model RLY4/TA	659.01	
46 82 83 00-4839	EA	Foxboro 8 Channel Contact Closure Digital Input Module With Termination Assembly, No Disconnects, Model DI8/TA	524.19	
46 82 83 00-4840	EA	Foxboro 6 Channel 110 Volt AC Digital Input Module With Termination Assembly, No Disconnects, Model DI6/TA	524.19	
46 82 83 00-4841	EA	Foxboro 2 Channel Analog Output Module With Termination Assembly, No Disconnects, Model AO2/TA	1,111.63	
46 82 83 00-4842	EA	Foxboro 2 Module Remote Rack, Model 2500B/2way	242.52	
46 82 83 00-4843	EA	Foxboro 4 Module Remote Rack, Model 2500B/4way	288.26	
46 82 83 00-4844	EA	Foxboro 8 Module Remote Rack, Model 2500B/8way	427.89	
46 82 83 00-4845	EA	Foxboro 10 Module Remote Rack, Model 2500B/10way	601.23	
46 82 83 00-4846	EA	Foxboro 12 Module Remote Rack, Model 2500B/12way	634.94	
46 82 83 00-4847	EA	Foxboro 0 Way T2550 Rack, Model 255BF-R040NONCDM	533.83	
46 82 83 00-4848	EA	Foxboro 4 Way T2550 Rack, Model 255BF-R04RNONCDM	533.83	
46 82 83 00-4849	EA	Foxboro 6 Way T2550 Rack, Model 255BF-R06RNONCDM	654.20	
46 82 83 00-4850	EA	Foxboro 8 Way T2550 Rack, Model 255BF-R08RNONCDM	774.57	
46 82 83 00-4851	EA	Foxboro 16 Way T2550 Rack, Model 255BF-R16RNONCDM	1,183.85	
46 82 83 00-4852	EA	Foxboro T2550 L20 Processor (50 Standard And 4 Control Blocks), Modbus TCP Slave, ELIN And Modbus RTU Slave, Model 255F-L20F32MBTMMOD0	2,199.18	
46 82 83 00-4853	EA	Foxboro T2550 L30 Processor (100 Standard And 8 Control Blocks), Modbus TCP Slave, ELIN And Modbus RTU Slave, Model 255F-L30F32MBTMMOD0	2,704.75	
46 82 83 00-4854	EA	Foxboro T2550 L40 Processor (100 Standard And 8 Control Blocks), Modbus TCP Slave, ELIN And Modbus RTU Slave, Model 255F-L40F32MBTMMOD0	3,234.40	
46 82 83 00-4855	EA	Foxboro T2550 L20 Processor (50 Standard And 4 Control Blocks), Modbus TCP Master/Slave, ELIN And Modbus RTU Slave, Model 255F-L20F32MBTMSER0	3,089.95	
46 82 83 00-4856	EA	Foxboro T2550 L30 Processor (100 Standard And 8 Control Blocks), Modbus TCP Master/Slave, ELIN And Modbus RTU Slave, Model 255F-L30F32MBTMSER0	3,427.00	
46 82 83 00-4857	EA	Foxboro T2550 L40 Processor (100 Standard And 8 Control Blocks), Modbus TCP Master/Slave, ELIN And Modbus RTU Slave, Model 255F-L40F32MBTMSER0	3,956.65	
46 82 83 00-4858	EA	Foxboro Simplex Processor TA With Battery, Model T255F-IOC-S-RJ45-OB1	184.74	
46 82 83 00-4859	EA	Foxboro Redundant Processor TA Without Battery, Model T255TF-IOC-R-RJ45-NON	232.89	
46 82 83 00-4860	EA	Foxboro Remote I/O Processor With Modbus Comms And Termination Assembly, Model 2500M/UW/TA	1,163.95	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 83 00-4861		**Eurotherm Devices** *(46 82 83 00-4740)*		
46 82 83 00-4862	EA	Eurotherm 1/8" Indicator With Two Alarm Outputs And Comms, Model 32h8i/AL/VH/RXXX/R/4XL	1,175.99	
46 82 83 00-4863	EA	Eurotherm 1/8" DIN Indicator With Two Alarm Outputs And Comms, Model 32h8i/AL/VH/RXXX/R/XXX	911.16	
46 82 83 00-4864	EA	Eurotherm 2500 Analog Output Card, Model AO-2	379.75	
46 82 83 00-4865		**M-System Devices** *(46 82 83 00-4740)*		
46 82 83 00-4866	EA	M-System 4-20 mA Signal Splitter, Model W5VS-AAA-M	634.30	
46 82 83 00-4867	EA	M-System Slimline 4-20 mA Signal Splitter, Model M6DWVS-AAA-R	754.68	
46 82 83 00-4868	EA	M-System Alarm Unit, 4-20mA Input, High And Low Relay Outputs Both Alarm Levels Settable From Front Of Unit, Model M2SED-A13-R/UL	706.52	
46 82 83 00-4869		**Licenses** *(46 82 83 00-4740)*		
46 82 83 00-4870	EA	Iconic Genesis 32-75 V9 License With One Year Of Support, Model Gen32V9-75	3,972.38	
46 82 83 00-4871	EA	Iconic Genesis 32-150 V9 License With One Year Of Support, Model Gen32V9-150	6,090.98	
46 82 83 00-4872	EA	Iconic Genesis 32-300 V9 License With One Year Of Support, Model Gen32V9-300	9,268.88	
46 82 83 00-4873	EA	Iconic Genesis 32-500 V9 License With One Year Of Support, Model Gen32V9-500	11,917.12	
46 82 83 00-4874	EA	Iconic Genesis 32-1500 V9 License With One Year Of Support, Model Gen32V9-1500	15,889.50	
46 82 83 00-4875	EA	Iconic WebHMI With 2 Client Licenses With One Year Of Support, Model WebHMIV9	6,620.62	
46 82 83 00-4876	EA	Iconic WebHMI With 5 Client Licenses With One Year Of Support, Model WebHMIV9-5pack	7,944.75	
46 82 83 00-4877	EA	ModBus RTU And TCP OPC Server	2,154.71	

46 82 91 Water Treatment Devices *(46 82)*

46 82 91 00-0001 Water Treatment Devices (REXA) *(46 82 91)*

Note: For domestic or industrial uses, and as tertiary step to render treated waste water suitable for discharge or possible reuse. Excludes raw water or backwash pumps, loss-of-head indicator, sight glasses, backwash flow rate indicator, nor pre-treatment equipment such as flash mixers, clarifiers, and chemical feed equipment.

46 82 91 00-0002 Gate Applications (REXA) *(46 82 91 00-0001)*

Note: A radial slotted PVC pipe lateral underdrain with gravel support bed, manual gate valves, manual operation, sand media, influent and effluent pressure gauges, sampling connections and schedule 40 steel pipe with cast iron fittings, flow rate at 5 GPM per SF.

46 82 91 00-0003	EA	Up To 3', Stroke Gate (REXA-DEP-Gate-36)	75,453.57	1,675.04
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Remote Accumulator, Add	*46,867.28*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For 10' Increment Of Shaft Extension, Add	*4,120.20*	
		For External Guide Bushing, Add	*1,545.08*	
46 82 91 00-0004	EA	3' To 4', Stroke Gate (REXA-DEP-Gate-48)	97,011.74	2,153.62
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Remote Accumulator, Add	*60,257.92*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For 10' Increment Of Shaft Extension, Add	*4,120.20*	
		For External Guide Bushing, Add	*1,545.08*	
46 82 91 00-0005	EA	4' To 5', Stroke Gate (REXA-DEP-Gate-60)	129,348.98	2,871.49
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Remote Accumulator, Add	*80,343.90*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For 10' Increment Of Shaft Extension, Add	*4,120.20*	
		For External Guide Bushing, Add	*1,545.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 91 00-0006	EA	5' To 6', Stroke Gate (REXA-DEP-Gate-72)	161,686.23	3,589.36
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Remote Accumulator, Add	*100,429.88*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For 10' Increment Of Shaft Extension, Add	*4,120.20*	
		For External Guide Bushing, Add	*1,545.08*	
46 82 91 00-0007	EA	6' To 7', Stroke Gate (REXA-DEP-Gate-84)	194,023.48	4,307.24
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Remote Accumulator, Add	*120,515.85*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For 10' Increment Of Shaft Extension, Add	*4,120.20*	
		For External Guide Bushing, Add	*1,545.08*	
46 82 91 00-0008	EA	7' To 8', Stroke Gate (REXA-DEP-Gate-96)	226,360.73	5,025.11
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Remote Accumulator, Add	*140,601.82*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For 10' Increment Of Shaft Extension, Add	*4,120.20*	
		For External Guide Bushing, Add	*1,545.08*	
46 82 91 00-0009	EA	8' To 9', Stroke Gate (REXA-DEP-Gate-108)	258,697.98	5,742.98
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Remote Accumulator, Add	*160,687.80*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For 10' Increment Of Shaft Extension, Add	*4,120.20*	
		For External Guide Bushing, Add	*1,545.08*	
46 82 91 00-0010	EA	9' To 10', Stroke Gate (REXA-DEP-Gate-120)	291,035.22	6,460.86
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Remote Accumulator, Add	*180,773.78*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For 10' Increment Of Shaft Extension, Add	*4,120.20*	
		For External Guide Bushing, Add	*1,545.08*	
46 82 91 00-0011	EA	10' To 12', Stroke Gate (REXA-DEP-Gate-144)	323,372.47	7,178.73
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Remote Accumulator, Add	*200,859.75*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For 10' Increment Of Shaft Extension, Add	*4,120.20*	
		For External Guide Bushing, Add	*1,545.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 91 00-0012		**Valve Applications (REXA)** *(46 82 91 00-0001)* Note: A radial slotted PVC pipe lateral underdrain with gravel support bed, manual gate valves, manual operation, sand media, influent and effluent pressure gauges, sampling connections and schedule 40 steel pipe with cast iron fittings, flow rate at 5 GPM per SF.		
46 82 91 00-0013	EA	Small Air Valve (REXA-DEP-VLV-SM1)	28,025.62	622.16
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*24,103.17*	
46 82 91 00-0014	EA	Medium Air Valve (REXA-DEP-VLV-SM2)	32,337.25	717.87
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*27,811.35*	
46 82 91 00-0015	EA	Large Air Valve (REXA-DEP-VLV-SM3)	43,116.33	957.16
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*30,901.50*	
46 82 91 00-0016	EA	Small Water/Sludge Valve (REXA-DEP-VLV-MD1)	53,895.41	1,196.45
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*33,476.62*	
46 82 91 00-0017	EA	Medium Water/Sludge Valve (REXA-DEP-VLV-MD2)	64,674.49	1,435.75
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*35,746.20*	
46 82 91 00-0018	EA	Large And Slow Water/Sludge Valve (REXA-DEP-VLV-MD3-A)	97,011.74	2,153.62
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*44,682.75*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 91 00-0019	EA	Large And Fast Water/Sludge Valve (REXA-DEP-VLV-MD3-B)	129,348.98	2,871.49
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*59,577.00*	
46 82 91 00-0020	EA	Small And Slow, Big Plug Or Butterfly Valve (REXA-DEP-VLV-LG1-A)	161,686.23	3,589.36
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*61,803.00*	
46 82 91 00-0021	EA	Small And Fast, Big Plug Or Butterfly Valve (REXA-DEP-VLV-LG1-B)	194,023.48	4,307.24
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*74,163.60*	
46 82 91 00-0022	EA	Medium And Slow, Big Plug Or Butterfly Valve (REXA-DEP-VLV-LG2-A)	247,918.89	5,503.69
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*71,073.45*	
46 82 91 00-0023	EA	Medium And Fast, Big Plug Or Butterfly Valve (REXA-DEP-VLV-LG3-B)	269,477.06	5,982.27
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*74,471.25*	

46 82 91 00-0024 Cone Valve Applications (REXA) *(46 82 91 00-0001)*

Note: A radial slotted PVC pipe lateral underdrain with gravel support bed, manual gate valves, manual operation, sand media, influent and effluent pressure gauges, sampling connections and schedule 40 steel pipe with cast iron fittings, flow rate at 5 GPM per SF.

46 82 91 00-0025	EA	5 Seconds Per Inch, Up To 12" Stroke, Cone Valve (REXA-DEP-Cone-12-5)	53,895.41	1,196.45
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*25,751.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 82 91 00-0026	EA	2 Seconds Per Inch, Up To 12" Stroke, Cone Valve (REXA-DEP-Cone-12-2)	64,674.49	1,435.75
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*30,901.50*	
46 82 91 00-0027	EA	5 Seconds Per Inch, 12" To 16" Stroke, Cone Valve (REXA-DEP-Cone-16A-5)	75,453.57	1,675.04
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*36,051.75*	
46 82 91 00-0028	EA	2 Seconds Per Inch, 12" To 16" Stroke, Cone Valve (REXA-DEP-Cone-16A-2)	86,232.66	1,914.33
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*41,202.00*	
46 82 91 00-0029	EA	5 Seconds Per Inch, Large, 16" Stroke Cone Valve (REXA-DEP-Cone-16B-5)	97,011.74	2,153.62
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*46,352.25*	
46 82 91 00-0030	EA	5 Seconds Per Inch, 16" To 22" Stroke, Cone Valve (REXA-DEP-Cone-22-5)	107,790.82	2,392.91
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*51,502.50*	
46 82 91 00-0031	EA	2 Seconds Per Inch, 16" To 22" Stroke, Cone Valve (REXA-DEP-Cone-22-2)	129,348.98	2,871.49
		For Additional 25' Of Enclosure Location, Add	*1,236.06*	
		For Additional 25' Of Remote Accumulator Distance, Add	*2,060.10*	
		For Up To 25' Distance For Remote Mount Power Module, Add	*4,120.20*	
		For Additonal 25' Distance For Remote Mount Power Module, Add	*1,030.05*	
		For 1-Phase Transformer, Add	*4,120.20*	
		For 3-Phase Transformer, Add	*8,240.40*	
		For Up To 3' Gate, Add	*1,854.09*	
		For 3' To 6' Gate, Add	*4,120.20*	
		For > 6' Gate, Add	*8,240.40*	
		For Division 1 Electronics, Add	*14,420.70*	
		For Remote Accumulator, Add	*61,803.00*	

46 86 Sludge Treatment and Handling Equipment for Water Treatment Systems *(46 80)*

46 86 29 Sludge Control Systems *(46 86)*

46 86 29 00-0001 Sludge Level Control Systems, Model 4900SI *(46 86 29)*

46 86 29 00-0002	EA	Sludge Level Control System, Model 4900SL, 2" Or 4" Probe	3,134.72	413.66
46 86 29 00-0003	EA	Sludge Level Control System, Model 4900SL, 6" Or 12"Probe	3,198.66	413.66

46 86 29 00-0004 Sludge Density Controllers, Model 494T *(46 86 29)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
46 86 29 00-0005	EA	Sludge Density Control System, 484T, 4" Pipe Line	4,810.35	620.50
46 86 29 00-0006	EA	Sludge Density Control System, 484T, 6" Pipe Line	5,351.95	827.33
46 86 29 00-0007	EA	Sludge Density Control System, 484T, 8" Pipe Line	6,004.68	827.33

END OF SECTION 46

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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